ATTACHMENT J: PRELIMINARY STORMWATER MANAGEMENT PLAN

PRELIMINARY STORMWATER MANAGEMENT REPORT

Wautoma Solar Project

Benton County, Washington

JANUARY 2022



PREPARED FOR:

INNERGEX

PREPARED BY:

Westwood

Preliminary Stormwater Management Report

Wautoma Solar Project

Benton County, Washington

Prepared For:

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Project Number: R0033629.00
Date: January 14, 2022

Westwood

Table of Contents

Introduction **3**

Data Sources **4**

Site Conditions **5**
Site Location 5
Historical Use 5
Topography Description 5
Drainage Patterns 5
Discharge Locations 5
Soils 5

Stormwater Management Requirements **5**
Water Quantity/Runoff Analysis 5
Water Quality 5
Drainage Improvements 6

Methodology **6**
Hydrology 6
Hydraulics 6

Existing Conditions **6**

Proposed Conditions **7**
Proposed Stormwater Management 8

Water Quantity/Runoff Analysis **8**

Water Quality **9**

Stormwater Management Practices **9**
Basin Calculations 9
Crossing Sizing 10

Conclusion **10**

References Cited **11**

Exhibits

Exhibit 1: Location Map
Exhibit 2: Base Map
Exhibit 3: Soils Map
Exhibit 4: Landcover Map
Exhibit 5: Existing Drainage Map
Exhibit 6: Proposed Drainage Map

Appendices

Appendix A: SWMMEW Rainfall Map
Appendix B: Curve Number Table
Appendix C: Existing HydroCAD Results
Appendix D: Proposed HydroCAD Results
Appendix E: Crossing Sizing Calculations
Appendix F: Geotechnical Report

Introduction

The purpose of this report is to summarize the proposed stormwater management for the Wautoma Solar Project ("the project"). This report was prepared to meet local and state requirements and is intended for submittal to these agencies for permitting review and approval.

The project site is proposed on approximately 2,980 acres and is located approximately 25 miles northwest of the city of West Richland in Benton County, Washington. The site's current use is primarily grassland with some agricultural row crops.

The proposed use of the site will be a solar facility consisting of roughly 2,470 acres of solar modules and 97 acres of the new impervious surface including gravel access roads, inverters, substation, and other associated solar infrastructure. The proposed site under the solar modules will be converted to grassland conditions within the fenced boundary around the proposed impervious surfaces. Due to the area between and beneath the panels being vegetated, panels are not considered an impervious surface.

Minimal grading will be proposed on site and existing drainage patterns will be maintained. Stormwater management practices including detention basins are proposed on site to meet the requirements of the state. Other stormwater measures are proposed to route water through the site including culverts and low water crossings.

Data Sources

TABLE 1: DATA SOURCES

Task	Format	Source	Use
Elevation	1-meter DEM	The National Map	Model Elevations
Elevation	DWG	Westwood Professional Services	Onsite Proposed Model Elevations
Crop Data	Shapefile	USDA 2013 Crop Data Layer	Landcover
Soils	Shapefile	USGS SSURGO Dataset	Curve Numbers
Precipitation	PDF File	NOAA Atlas 2	Design Storms
Site Boundary	Shapefile	Innergex	Define Model Extents
2014 Aerial Photography	ArcGIS Map Service	USDA FSA	Reference

Site Conditions

Site Location

The project area is located approximately 25 miles northwest of the city of West Richland in Benton County, Washington.

Historical Use

A review of aerial photographs shows that part of the site is currently used and has historically been used for agricultural row crops and grassland.

Topography Description

The existing topographic information used in this analysis was obtained from the USGS National Elevation Set 1m data obtained from The National Map. The site is generally flat with slopes around 1%-7%.

Drainage Patterns

Onsite runoff is split into 38 drainage areas based on discharge locations and existing low areas. An existing creek called Dry Creek flows through the north side of the site from west to east. Drainage areas are shown in Exhibits 5 and 6.

Discharge Locations

The site has seven ultimate discharge locations to the existing Dry Creek that runs through the site. Discharge locations are shown in Exhibits 5 and 6.

Soils

Soils data was downloaded from SSURGO and can be found in Exhibit 3. In addition to the SSURGO soils information, a geotechnical report was completed by RRC on November 24, 2021 (Appendix F). Both soils documents were reviewed and incorporated into the analysis.

The site consists primarily of Hydrologic Soil Group (HSG) B soils with some locations with HSG A and C. Type A soils have low runoff potential and high infiltration rates. Type B soils have moderate runoff potential and infiltration rates. Type C soils have moderate runoff potential and low infiltration rates.

Stormwater Management Requirements

Stormwater management for the project falls under the jurisdiction of the State of Washington and Benton County. Washington requirements are taken from the Stormwater Management Manual for Eastern Washington (SWMMEW) and conversations with the state, 2019SWMMEW - FrontCover (wa.gov). The following requirements need to be met for the project:

Water Quantity/Runoff Analysis

Stormwater quantity control must be provided so that proposed conditions peak runoff rates and volumes must be equal to or less than existing conditions. The 2-year, 10-year, 25-year, and 100-year 24-hour stormwater events must meet these requirements.

Water Quality

The aim of Core Element #5 of the SWMMEW is to treat at minimum 90% of runoff from pollution-generating impervious surfaces (PGIS). A surface is considered a PGIS if it is being

regularly used by vehicles. Since the access roads on the project site are primarily for operations and maintenance, it is assumed that this project is exempt from the Core Element #5 requirements. Water quality will be addressed using the Full Dispersion BMP (SWMMEW, Table 6.10).

Drainage Improvements

Proposed culverts and low water crossings will be sized for the 10-year 24-hour stormwater event per client.

Methodology

Existing and proposed conditions are modeled in HydroCAD software. HydroCAD is a widely accepted hydrologic and hydraulic modeling package based on TR-20 unit hydrograph equations. It models stormwater runoff discharge rates and velocities from ponds, culverts, outlet control structures, and stream reaches.

Hydrology

The state of Washington has a table in the SWMMEW with Curve Number values assigned to various land use areas (Chapter 4.6.3, Table 4.14). Curve numbers were assigned by reviewing the soil and landcover for each drainage area (Appendix B).

Time of concentrations were calculated for each drainage area in HydroCAD using the lag method. The lag method uses the hydraulic length (distance traveled by a drop of water from the most distant part of the subcatchment to the outlet point) and the average land slope (average slope of entire watershed). The overall curve number for the site along with the lag information is used to get the time of concentration for the site.

SCS Type II precipitation and distribution data for the 2-year, 10-year, 25 year, and 100-year 24-hour storm events were used as input for the analysis (Appendix A).

Hydraulics

Culvert sizing was completed using HydroCAD and contributing watershed properties to find runoff rates to the anticipated culvert locations. A table derived from CulvertMaster was then used to size the culverts assuming 1' allowable headwater and manning's number of 0.025 for corrugated metal culverts (Appendix E). CulvertMaster uses the methodologies outlined in Hydraulic Design Series Number 5 from the U.S. Federal Highway Administration to calculate capacities and end conditions.

Existing Conditions

The existing site consists of grassland and row crop. Cover for the analysis was determined using the USDA 2013 Crop Data Layer and aerial photos. Curve numbers were assigned from the SWMMEW (Chapter 4.6.3, Table 4.14) based on the landcover and soil types, see Table 2 for summary.

TABLE 2: EXISTING CONDITIONS COVER

Cover	CN	Area [ac]
Grassland, Fair (HSG A)	49	182.77
Grassland, Fair (HSG B)	69	1,987.68
Grassland, Fair (HSG C)	79	37.48
Straight Row Crop (HSG A)	64	16.30
Straight Row Crop (HSG B)	75	753.94
Total		2,978.17

Proposed Conditions

The use of the site will be a solar plant. The site will consist of approximately 2,470 acres of solar modules mounted above grade on a racking system and 97 acres of gravel access roads, electrical equipment, and a substation. The solar modules will be located above grade with grassland below the proposed array. See Table 3 below for landcover summary.

The proposed substation and O&M building will be a raised pad and runoff from this area will sheet flow to a proposed detention basin to the east.

Minimal grading is proposed to meet the tolerances of the proposed solar array. Drainage patterns will remain the same with the addition of detention basins that outlet similar to existing conditions. Culverts and low water crossings are proposed to route water through the site.

Minimal grading is proposed onsite and overall drainage patterns will remain the same as existing. Offsite drainage areas were not included in the analysis.

TABLE 3: PROPOSED CONDITIONS COVER

Cover	CN	Area [ac]
Roads/Inverters/Substation	98	96.98
Grassland, Fair (HSG A)	49	195.18
Grassland, Fair (HSG B)	69	2,649.44
Grassland, Fair (HSG C)	79	36.57
Total		2,978.17

Proposed Stormwater Management

A solar project differs greatly from other commercial or residential developments. When constructed, a solar project will include solar panels, at-grade gravel access roads, and other electrical equipment. The panels will be mounted above the ground with a low maintenance perennial grass growing below. Due to the area between and beneath the panels being vegetated, panels are not considered an impervious surface. While solar projects may require grading, the existing terrain is smoothed to accommodate array installation, rather than significant changes to grades or slopes, and the grading is designed to maintain existing drainage patterns. Access roads are installed at grade and allow for runoff to sheet flow through the proposed grassland cover which reduces runoff.

Water quality is improved over pre-development conditions due to the land cover's conversion from a higher runoff rate row-crop field to a lower runoff rate grassland.

Detention basins are proposed to provide rate control for the proposed site. The basins will have an outlet culvert at the bottom of the basin to allow water to slowly release to meet requirements. The proposed basins will not have any permanent standing water.

In addition to typical stormwater management BMPs, the recommended approach for solar projects should include the following: limit the number of impervious surfaces to reduce runoff, minimize the amount of grading to promote sheet flow, and the planting of grass on the majority of the site to provide runoff reduction.

Water Quantity/Runoff Analysis

Stormwater quantity calculations for the site were prepared using HydroCAD. The proposed site does not meet the rate control requirements of the state of Washington. Basins will be sized in each reach to reduce runoff rates to meet these requirements as the design progresses. Tables 4 and 5 show a summary of the runoff rates and volumes for each event at the site discharge locations.

TABLE 4: RUNOFF RATE SUMMARY

Location	2-year Runoff (cfs)		10-year Runoff (cfs)		25-yr Runoff (cfs)		100-year Runoff (cfs)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed
1	0.04	0.06	1.40	1.80	2.87	3.53	7.35	8.55
2	1.73	8.59	39.99	26.20	69.57	48.71	150.95	114.95
3	0.08	0.15	2.45	3.72	4.44	6.27	9.95	13.02
4	0.15	0.24	5.08	6.86	10.49	13.27	27.29	32.27
5	0.01	0.01	0.35	0.70	0.87	1.46	2.60	3.65
6	0.04	0.07	1.96	2.73	4.39	5.66	12.14	14.48
7	0.04	0.06	1.85	2.30	4.09	4.85	11.48	12.89

TABLE 5: RUNOFF VOLUME SUMMARY

Location	2-year Runoff (ac-ft)		10-year Runoff (ac-ft)		25-yr Runoff (ac-ft)		100-year Runoff (ac-ft)	
	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed
1	0.016	0.032	0.686	0.783	1.095	1.228	2.217	2.431
2	1.382	0.957	20.941	17.197	31.965	27.046	59.420	52.155
3	0.057	0.129	1.091	1.396	1.686	2.070	3.171	3.712
4	0.062	0.146	2.619	3.120	4.165	4.809	8.082	9.011
5	0.003	0.010	0.115	0.153	0.183	0.232	0.355	0.425
6	0.018	0.040	0.753	0.887	1.198	1.371	2.325	2.575
7	0.017	0.030	0.728	0.808	1.158	1.261	2.248	2.397

Water Quality

Grassland is proposed below the solar array which will allow for treatment using the Full Dispersion BMP. Based on Table 6.10 in the SWMMEW, a minimum of 20% grass cover is required on site. 99.97% grass cover is proposed on this project site.

TABLE 6: FULL DISPERSION BMP

Criteria	Allowed	Proposed
% Impervious	Max 10%	3.3%
Ratio of Impervious to Native Veg	< 15%	3.3%
Flow Path from Impervious	> 100 ft	Provided by sheet flow to channels
Cover of Flow Path	Native Veg: grass & row crop	Grass

Stormwater Management Practices

Basin Calculations

Detention basins are provided at critical locations in the site to capture runoff to slow release rates for the site. Eight permanent detention basins will be provided at each discharge location that has an increase in runoff due to the proposed development and in critical discharge locations.

Crossing Sizing

Crossings are proposed at new access roads to maintain existing drainage patterns through the proposed site. Internal crossings were sized for either culverts or low water crossings, see Appendix E.

Culverts are sized for the 10-year 24-hour rain event with a 1-foot allowable head. Appendix E summarizes the proposed culverts and low water crossings on site, see civil plans for culvert locations.

Low water crossings are sized to withstand the shear stress caused by flow during the 10-year 24-hour rainfall event. FLO2D models were created and analyzed to determine the shear stresses and lengths. The combination of crossing depths and the slope of the flow path at each crossing location were multiplied by the density of water to determine the expected shear stress. See civil plan set for crossing locations.

Conclusion

The proposed site was designed to meet the requirements of the State of Washington for stormwater management. The proposed site consists of proposed basins and crossings in order to maintain existing drainage patterns and reduce runoff rates. Minimal grading on site and proposed crossings maintain existing drainage areas throughout the site. The proposed vegetative cover below the array and detention basin at the substation and 7 reaches reduce runoff rates for the final conditions.

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Exhibits

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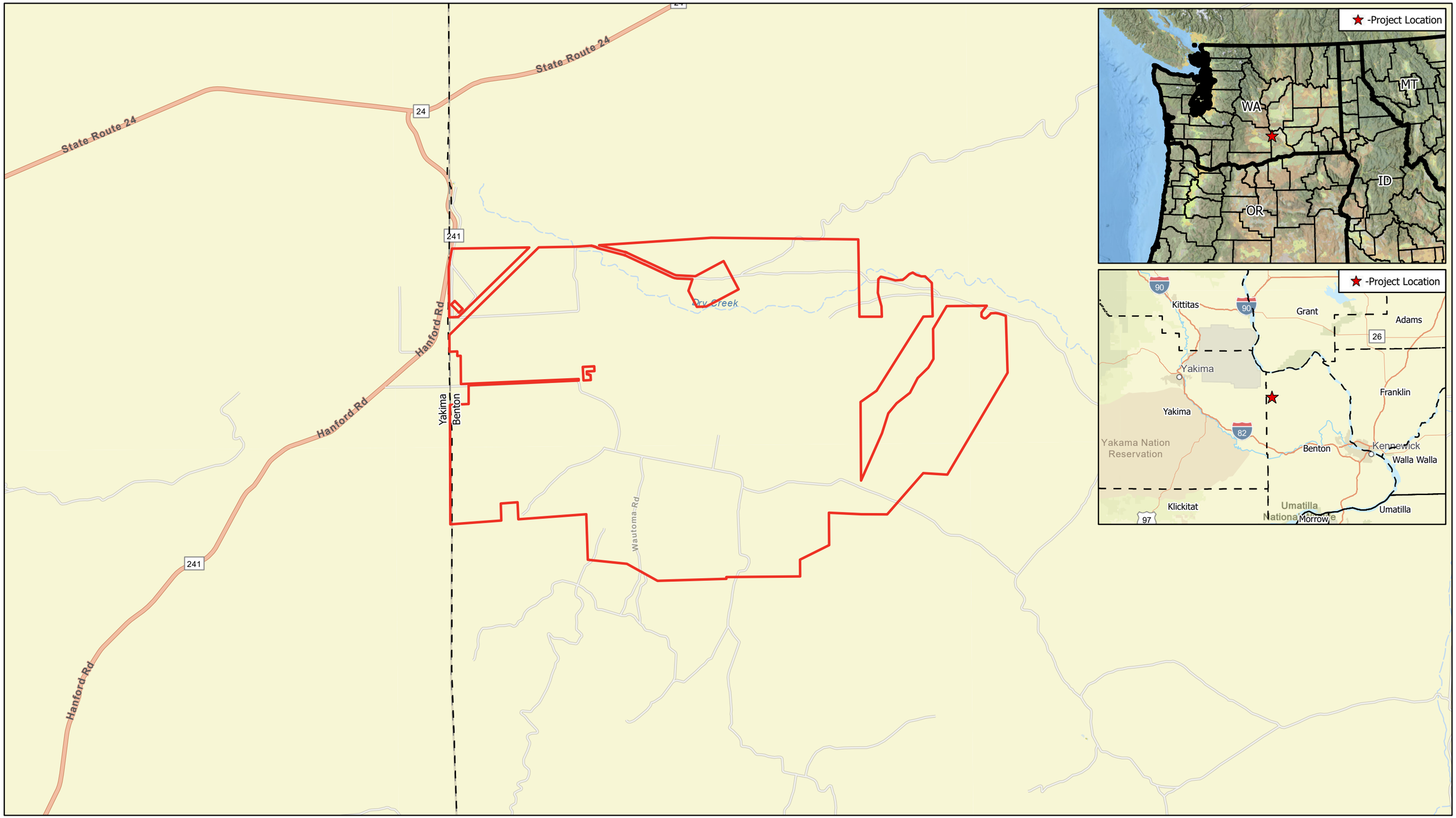

Data Source(s): Westwood (2022); Esri WMS Basemap Imagery (Accessed 2022); USGS (2022); FEMA (2022); USDA (2022)

Legend

- Project Boundary
- County Boundary

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N

0 Feet 3,500

Wautoma SWMP Exhibits

Benton County, Washington

Exhibit 1: Location Map

January 12, 2022

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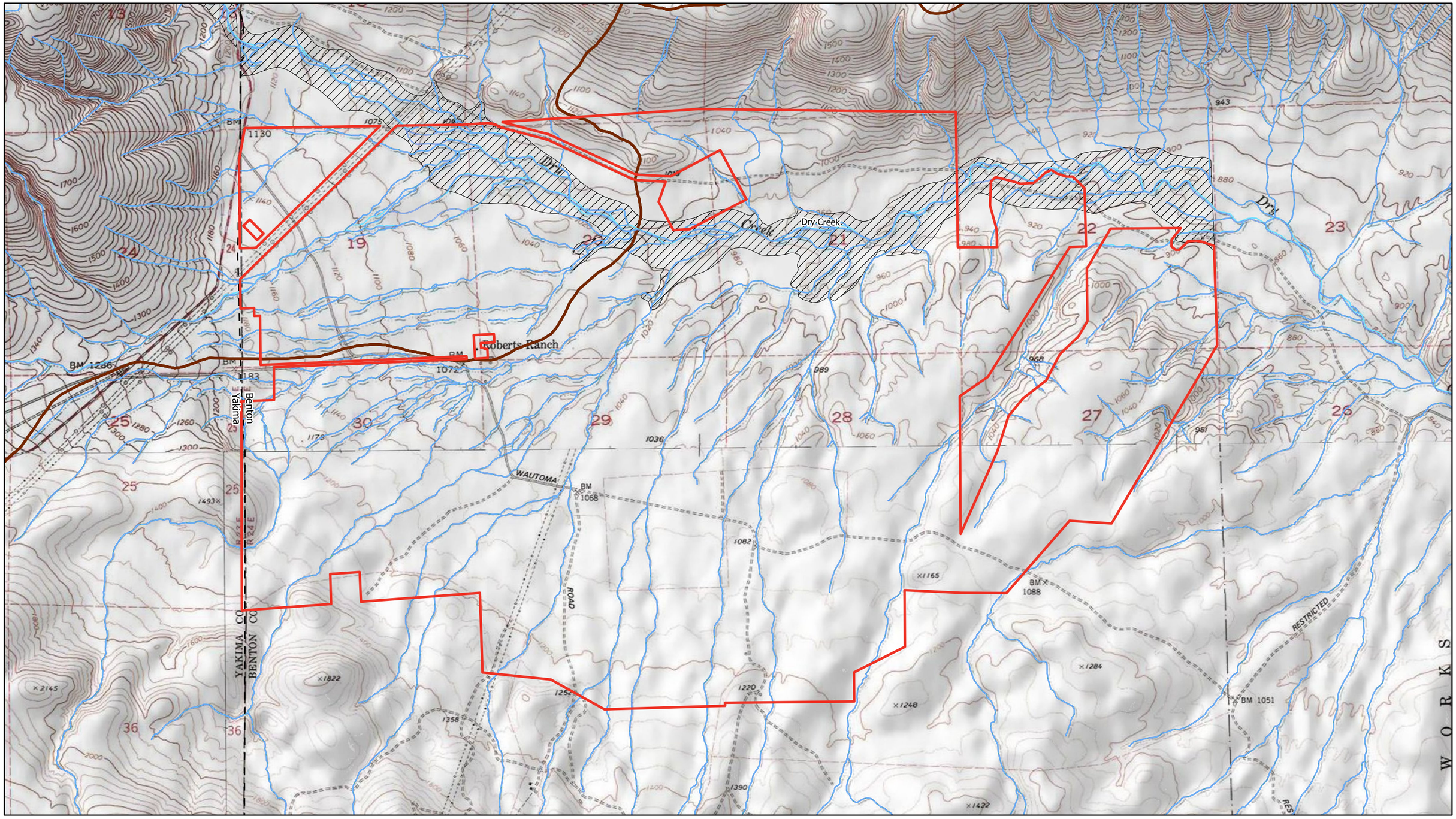

Data Source(s): Westwood (2022); Esri WMS Basemap Imagery (Accessed 2022); USGS (2022); FEMA (2022); USDA (2022)

Legend

- Project Boundary
- County Boundary
- HUC 12 Boundary
- FEMA Zone A*
- NWI Wetlands
- NHD Flowline

N

0 Feet 2,000

*FEMA Data not available for the southern portion of the site

Wautoma SWMP Exhibits

Benton County, Washington

Exhibit 2: Base Map

January 12, 2022

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Base Map - Base Map | 1/12/2022 8:04 AM | SStiles

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Data Source(s): Westwood (2022); Esri WMS Basemap Imagery (Accessed 2022); USGS (2022); FEMA (2022); USDA (2022)

Legend

- Project Boundary
- County Boundary

Hydrologic Soil Group

- A
- B
- C
- D

N

0 Feet 2,000

Wautoma SWMP Exhibits

Benton County, Washington

Exhibit 3: Soils Map

January 12, 2022

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Soils Map - Soils Map | 1/12/2022 8:07 AM | SStarks

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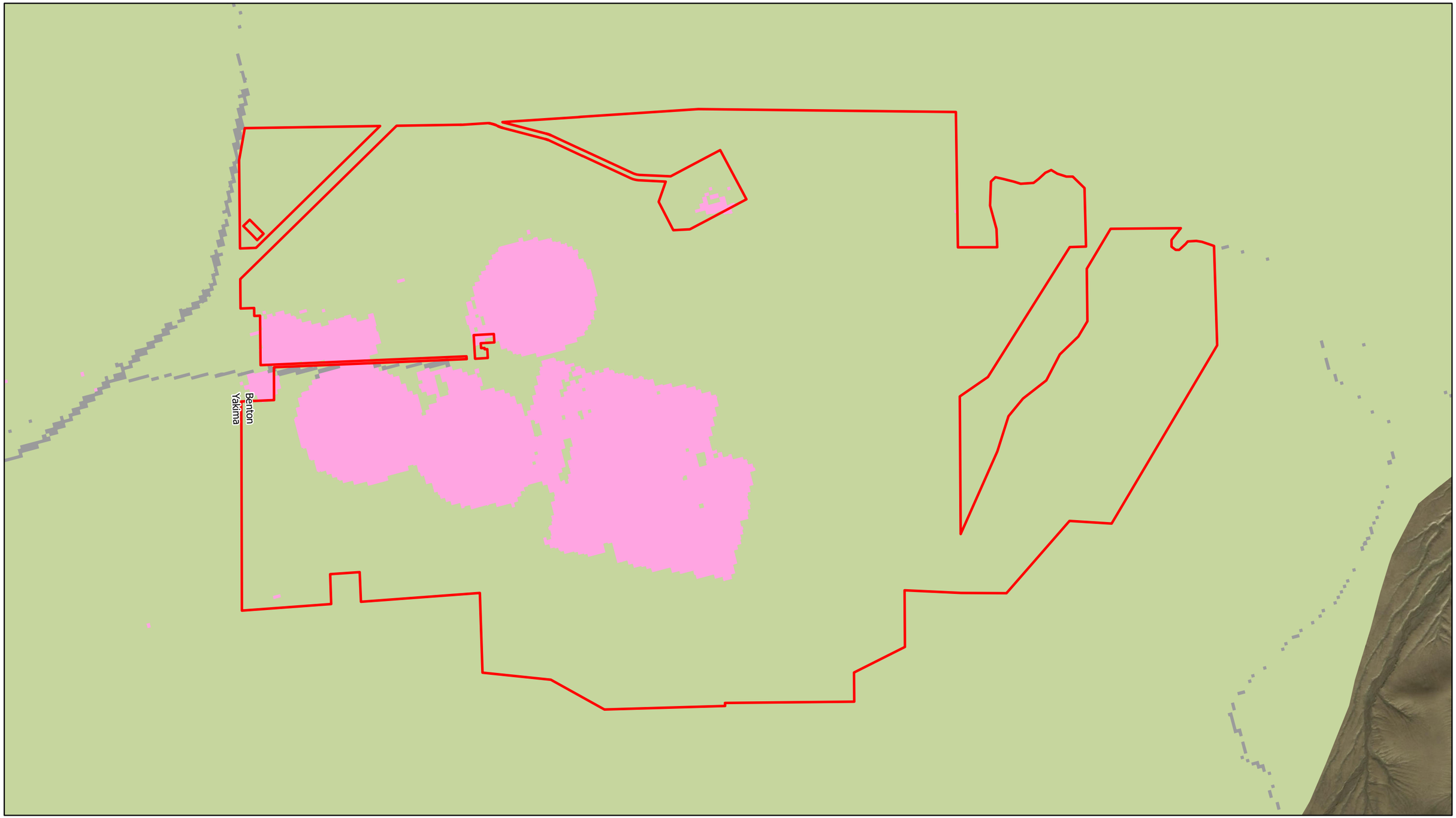

Data Source(s): Westwood (2022); Esri WMS Basemap Imagery (Accessed 2022); USGS (2022); FEMA (2022); USDA (2022)

Legend

Project Boundary

County Boundary

Layer

Landcover

Row Crops

Grassland/Pasture

Developed

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N

0 Feet 2,000

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Benton County, Washington

Exhibit 4: Landcover Map

January 13, 2022

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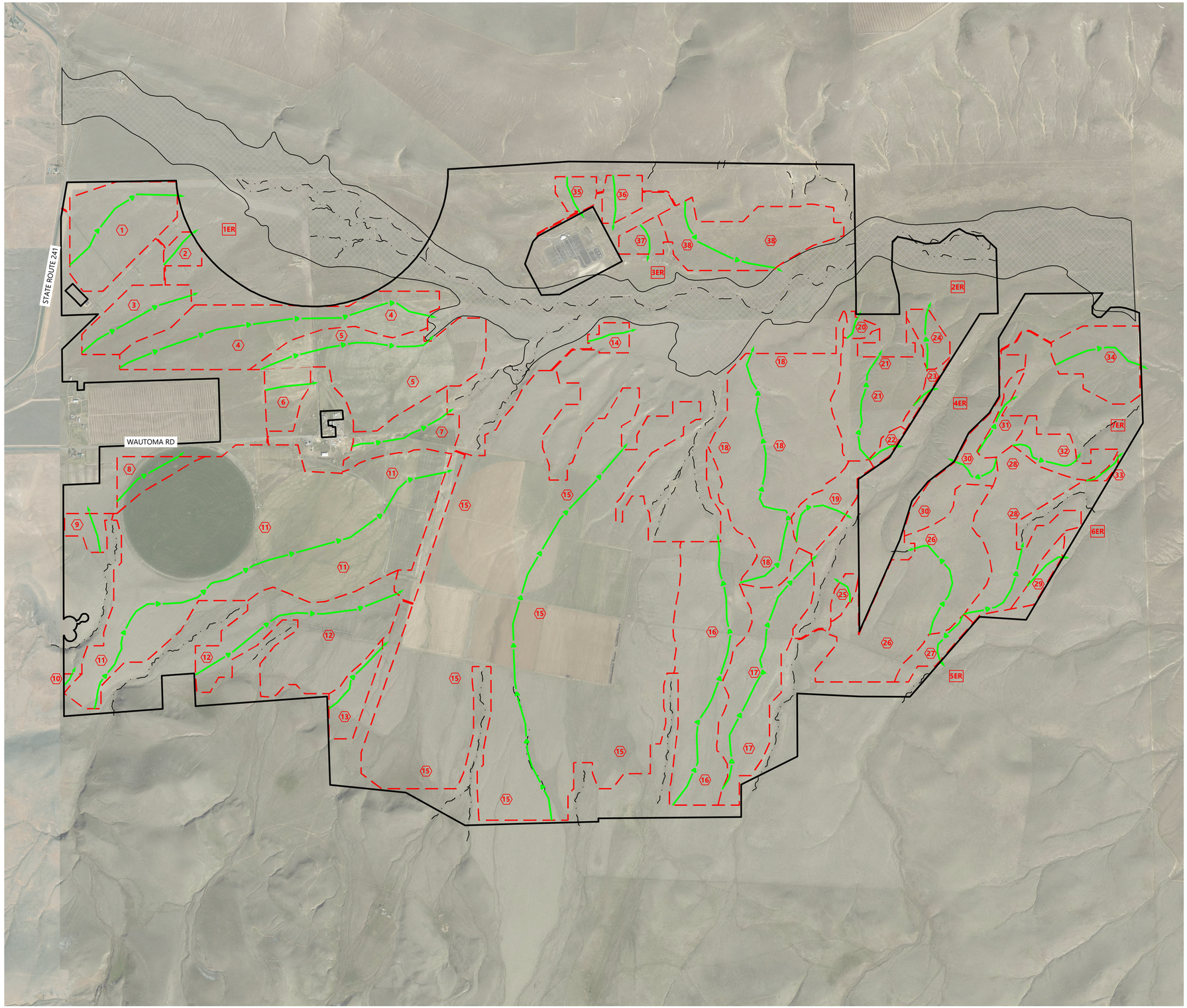

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- EX. STREAM CHANNEL
- FEMA FLOOD HAZARD ZONE
- EX. ONSITE DRAINAGE AREA BOUNDARY
- EX. TIME OF CONCENTRATION LINE
- DISCHARGE LOCATION
- 1 DRAINAGE AREA LABEL
- 1ER DISCHARGE REACH LABEL

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0' 1000' 2000' 3000'

Wautoma Solar Project

Benton County, Washington

Overall Existing Drainage Map

DATE: 1/14/2022

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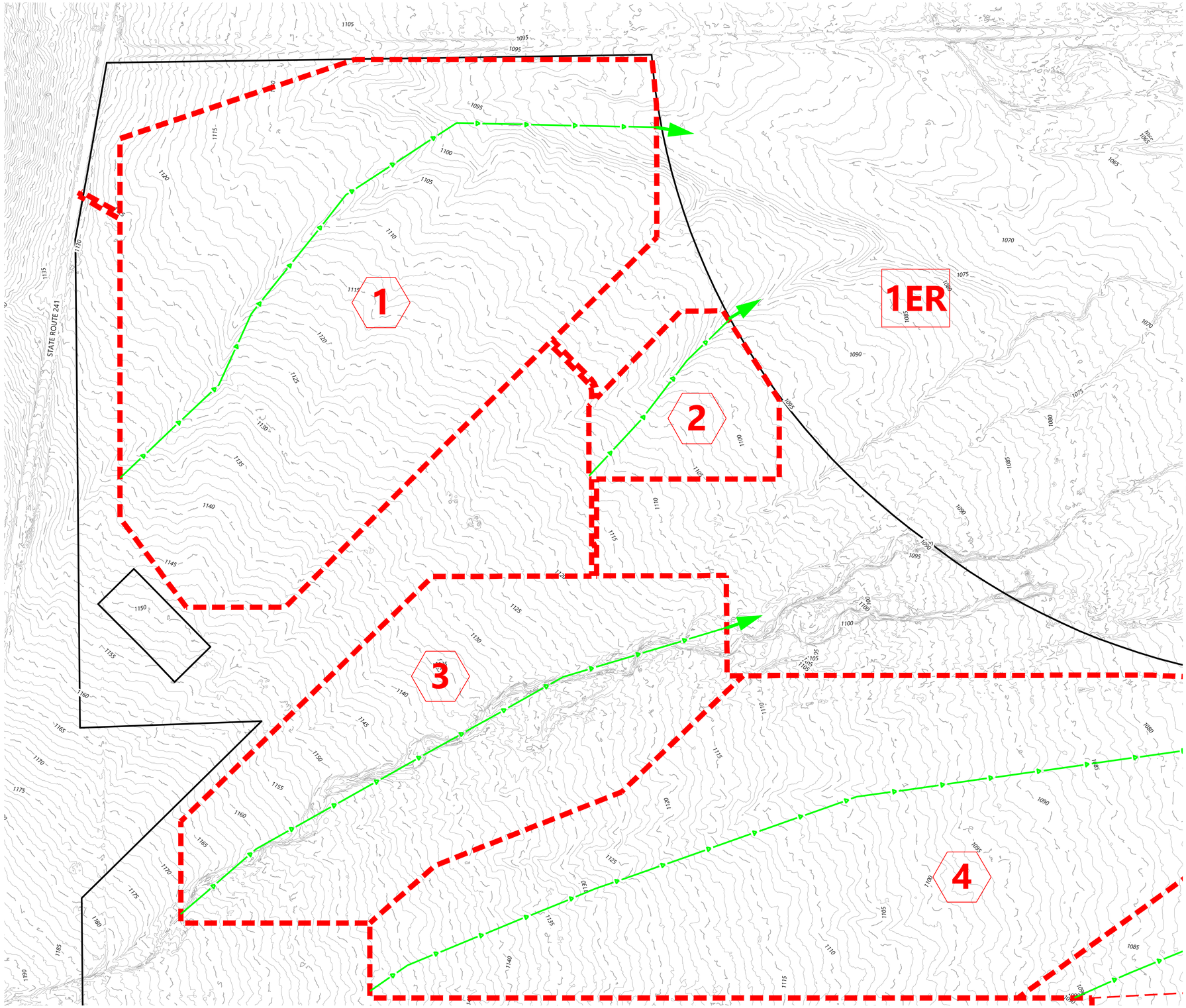

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0' 200' 400' 600'

Wautoma Solar Project

Benton County, Washington

Existing Drainage Map

DATE: 1/14/2022

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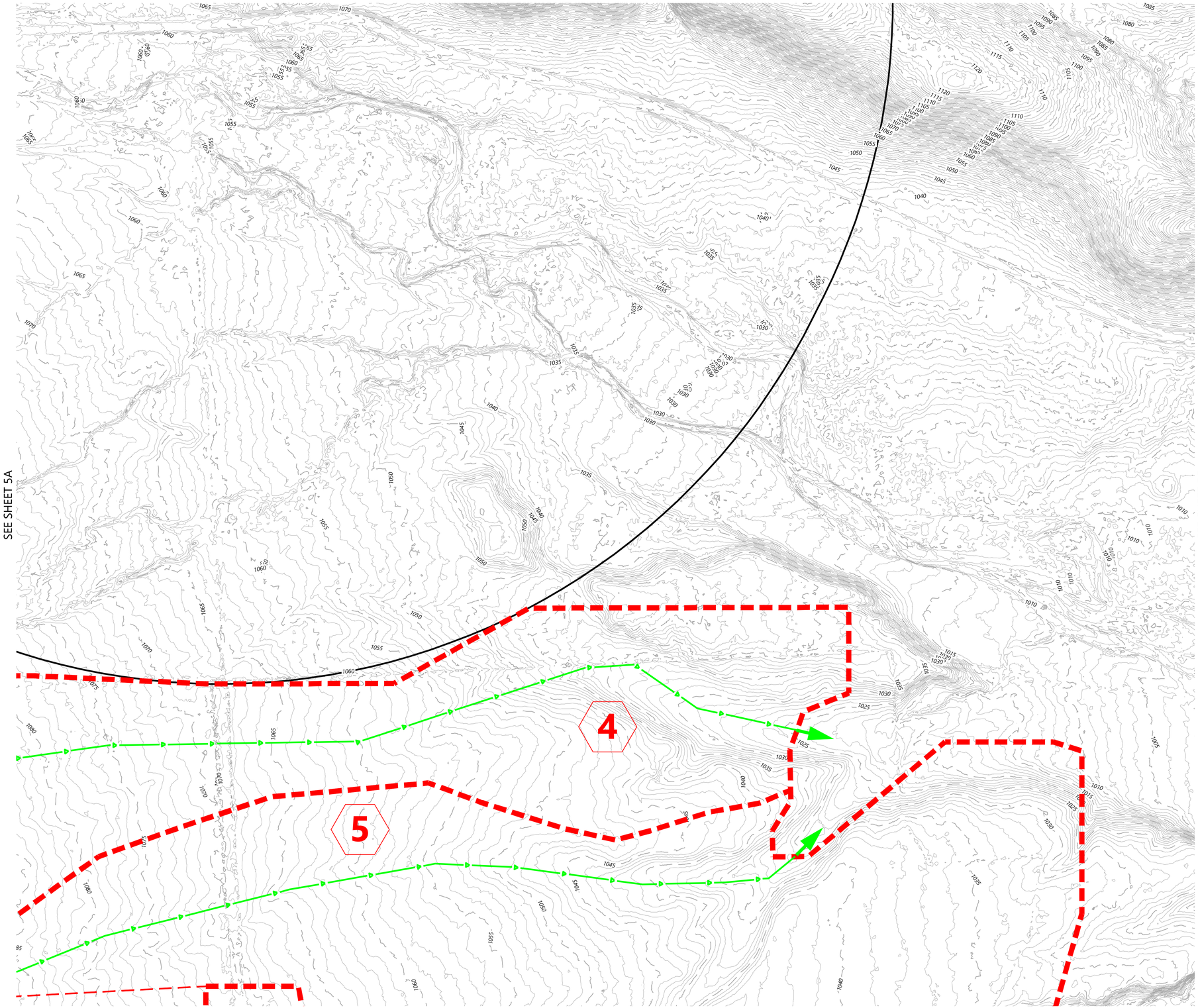

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Benton County, Washington

Existing Drainage Map

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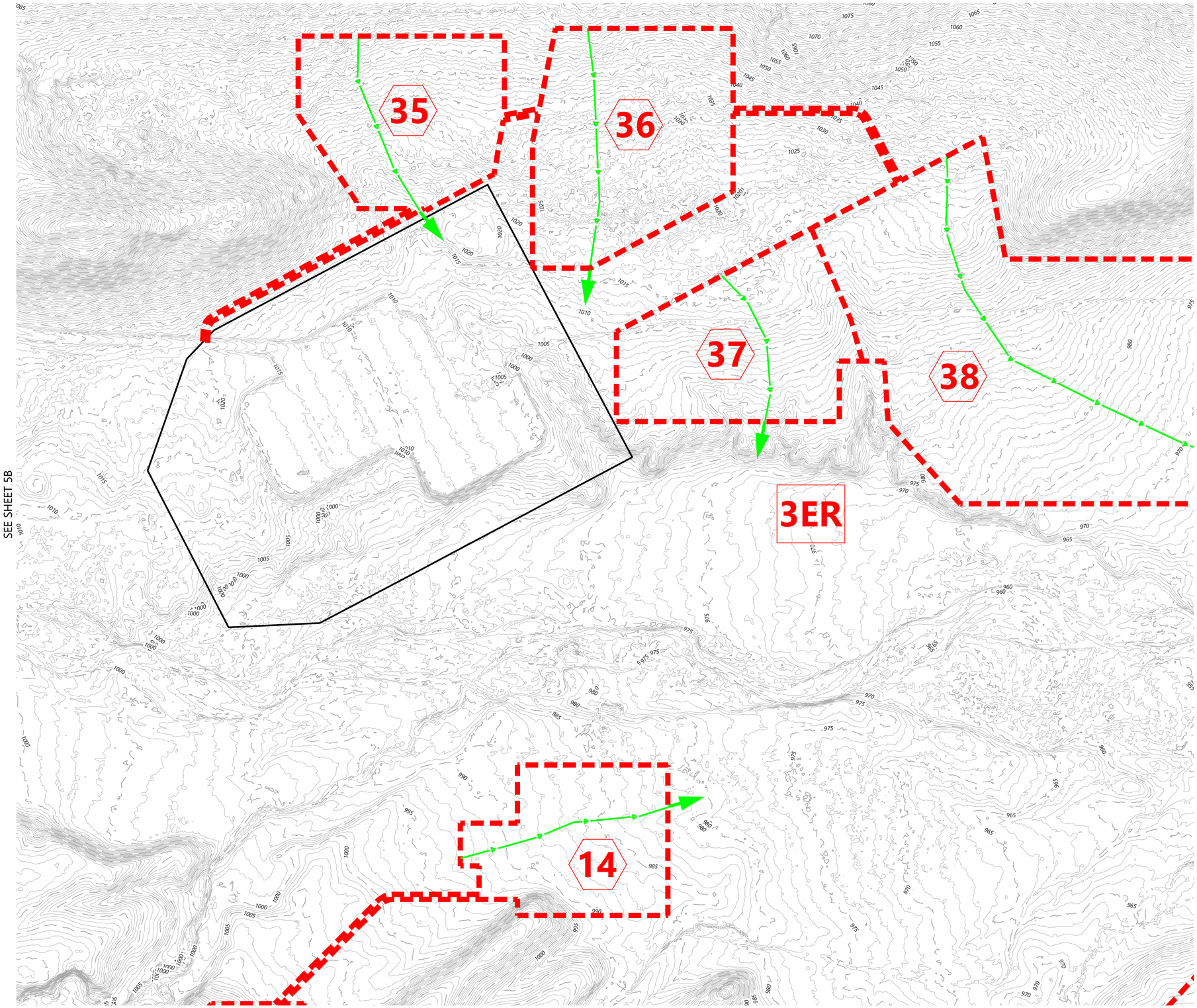

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Existing Drainage Map

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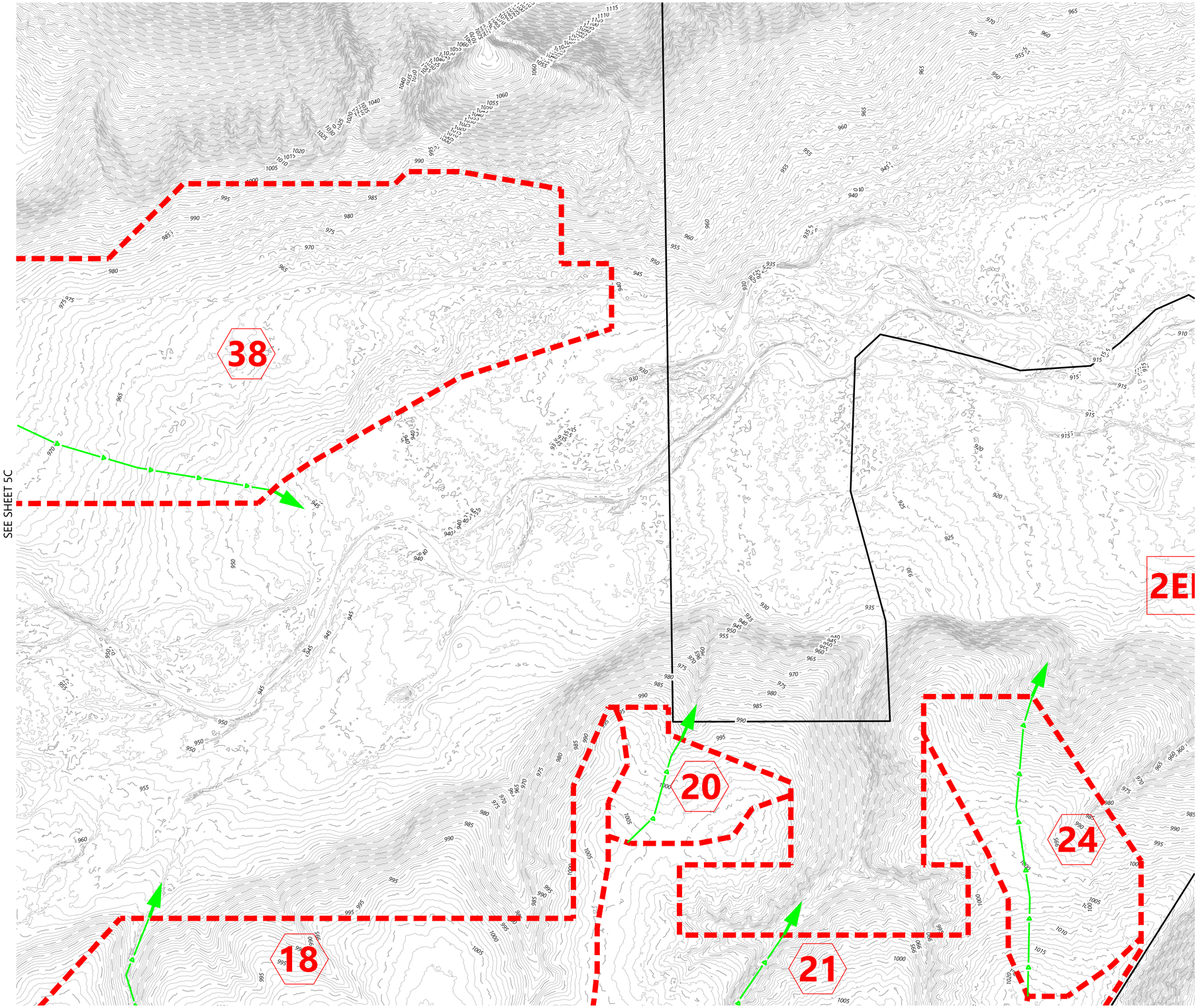

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Existing Drainage Map

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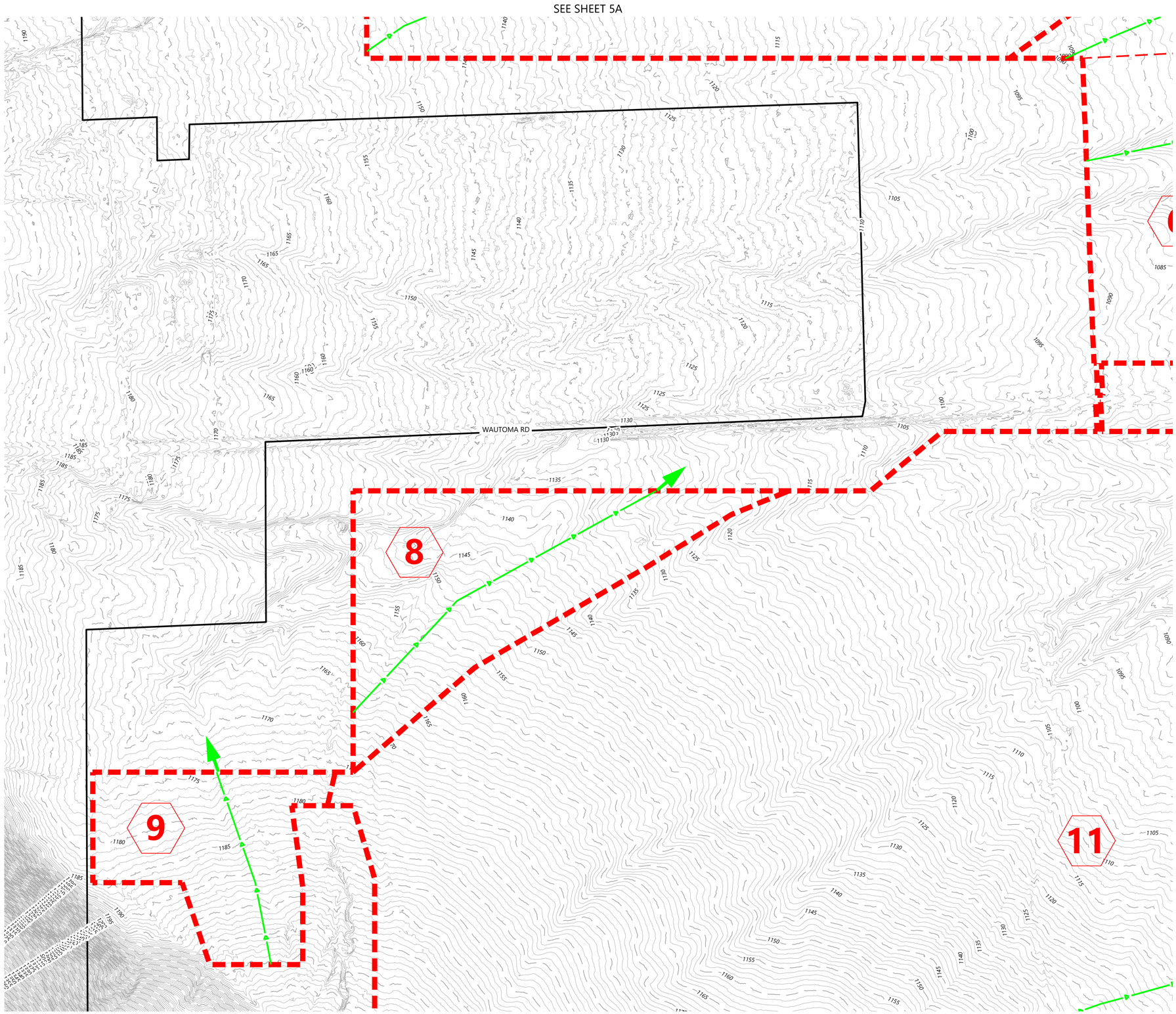

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Existing Drainage Map

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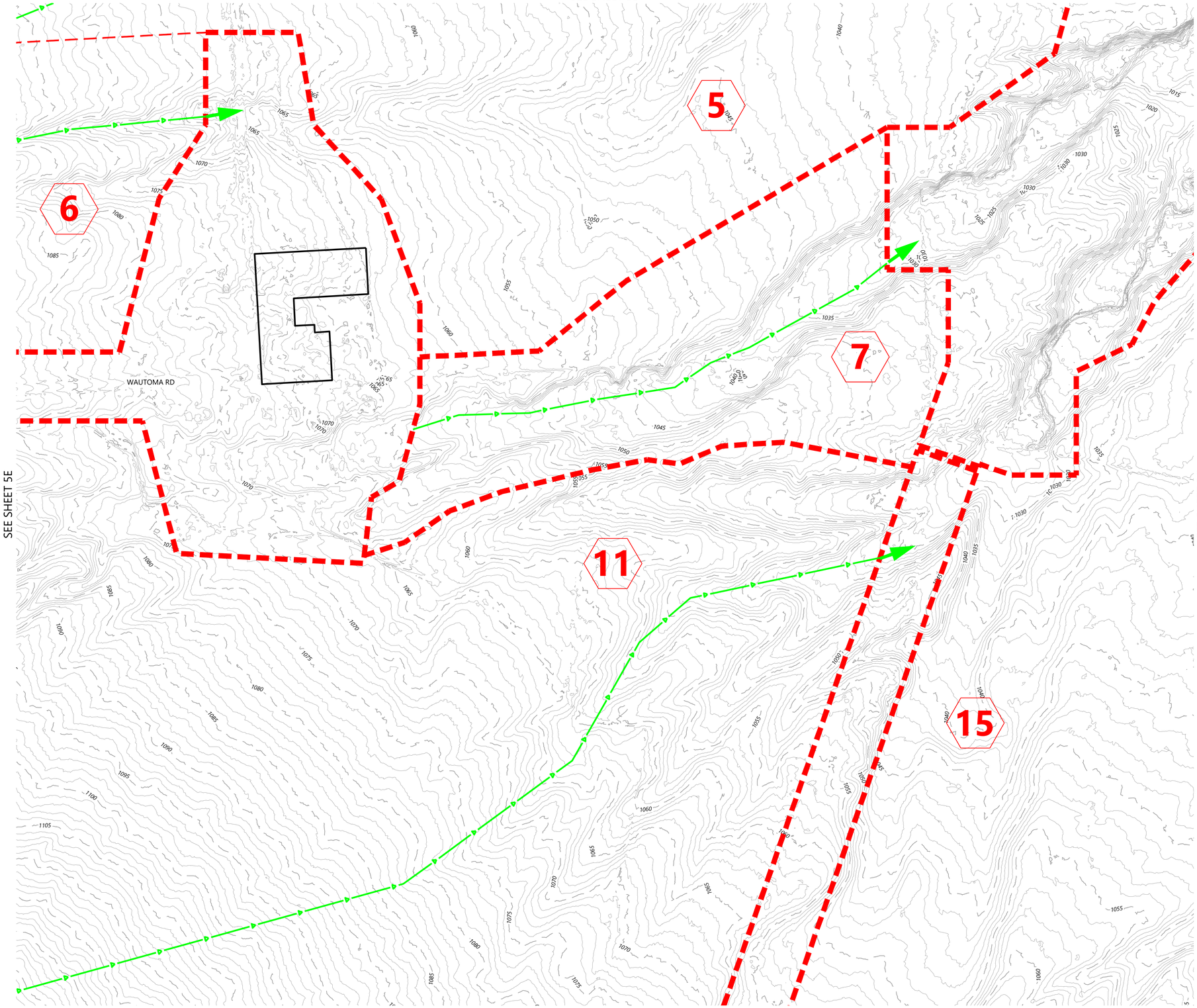
SHEET: 5E



LEGEND:

- PROJECT BOUNDARY
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- EX. STREAM CHANNEL
- FEMA FLOOD HAZARD ZONE
- EX. ONSITE DRAINAGE AREA BOUNDARY
- EX. TIME OF CONCENTRATION LINE
- DISCHARGE LOCATION
- 1 DRAINAGE AREA LABEL

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PREPARED FOR:

INNERGEX

1225 Saint-Charles Street West, 10th Floor,
Longueuil, Quebec J4K 0B9 Canada

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR

0' 200' 400' 600'

Wautoma Solar Project

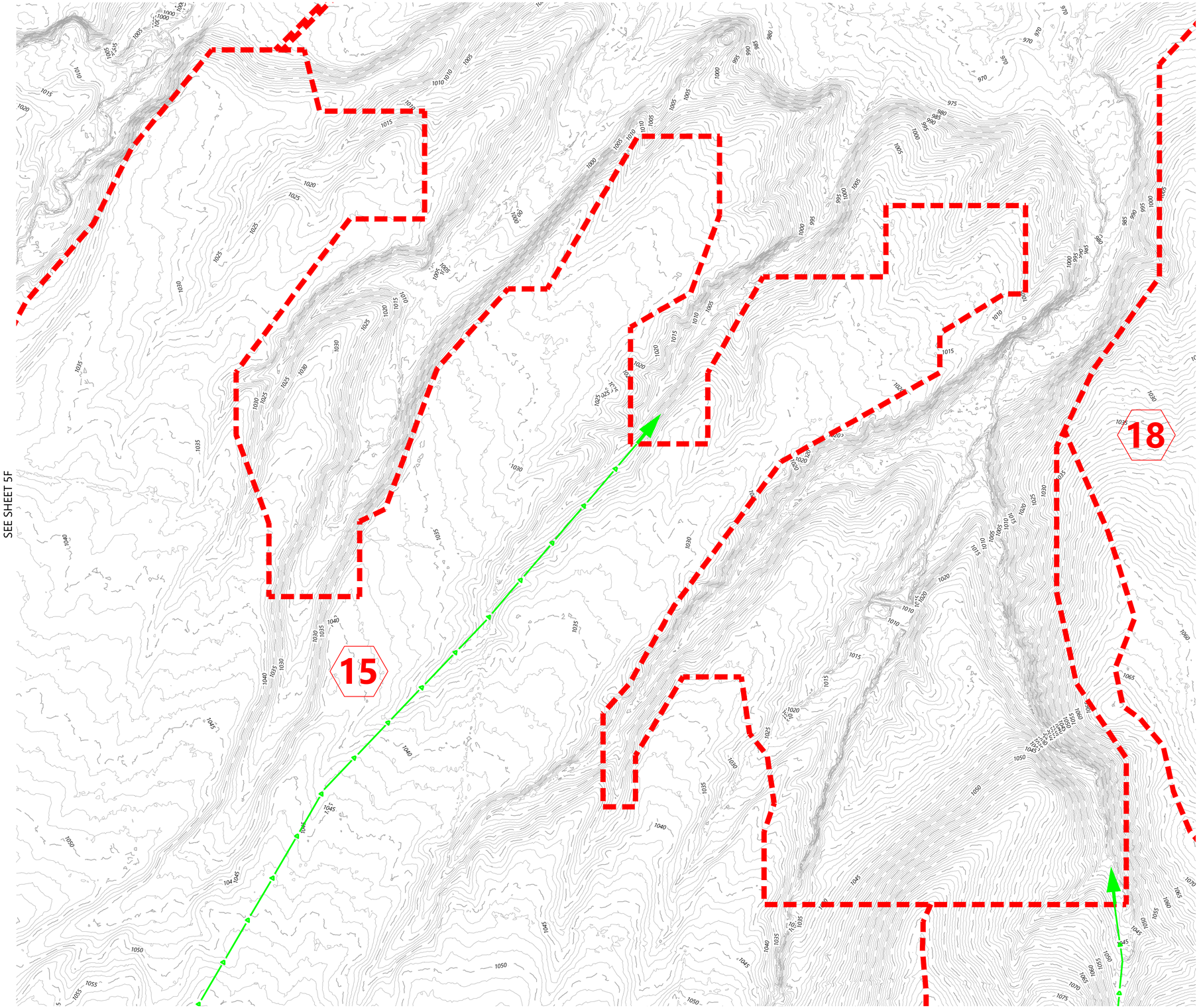
Benton County, Washington

Existing Drainage Map

DATE: 1/14/2022

REV:

SHEET: 5F



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- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
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- FEMA FLOOD HAZARD ZONE
- EX. ONSITE DRAINAGE AREA BOUNDARY
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REVISIONS:

#	DATE	COMMENT	BY	CHK	APR

0' 200' 400' 600'

Wautoma Solar Project

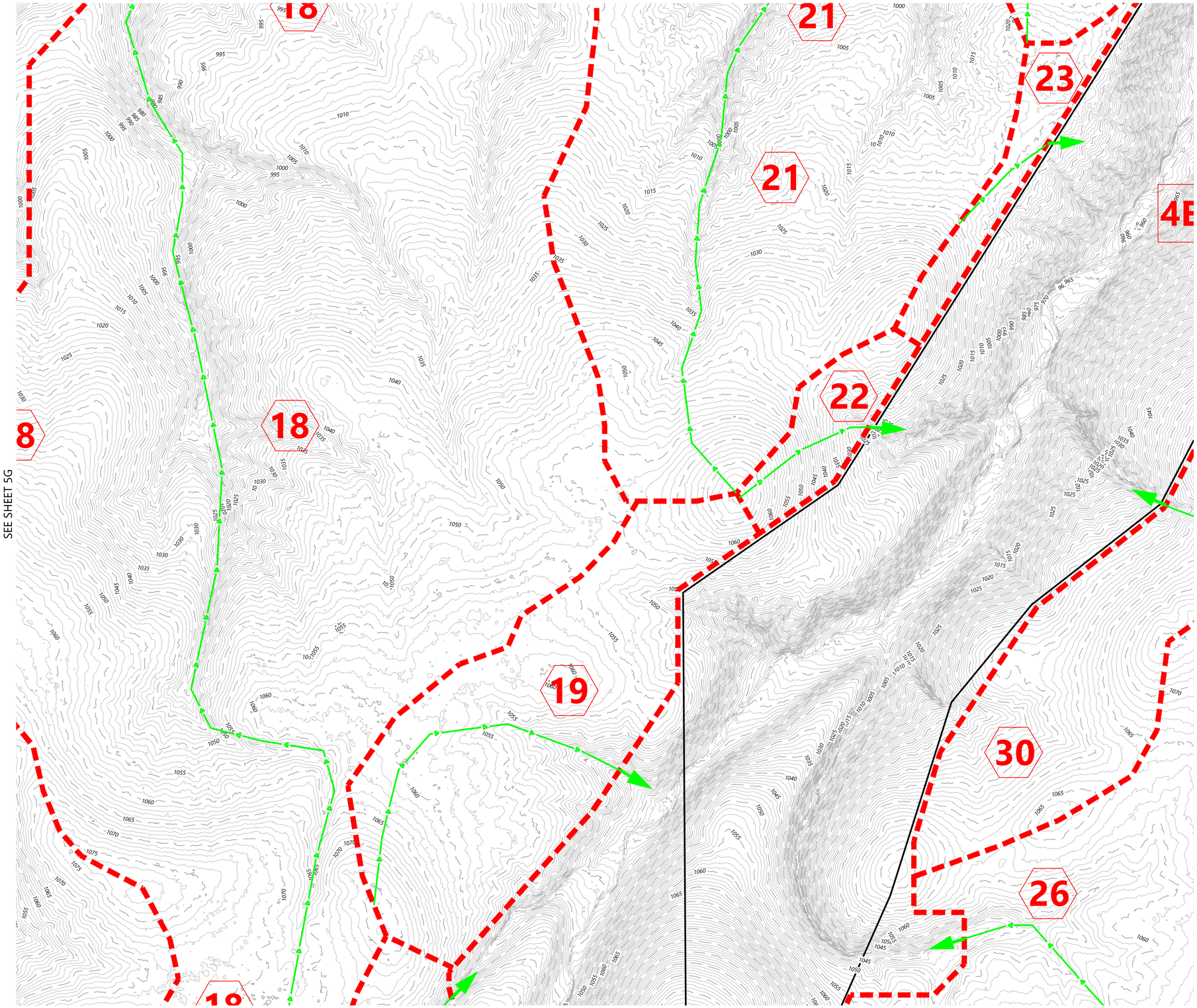
Benton County, Washington

Existing Drainage Map

DATE: 1/14/2022

REV:

SHEET: 5G



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0' 200' 400' 600'

Wautoma Solar Project

Benton County, Washington

Existing Drainage Map

DATE: 1/14/2022

REV:

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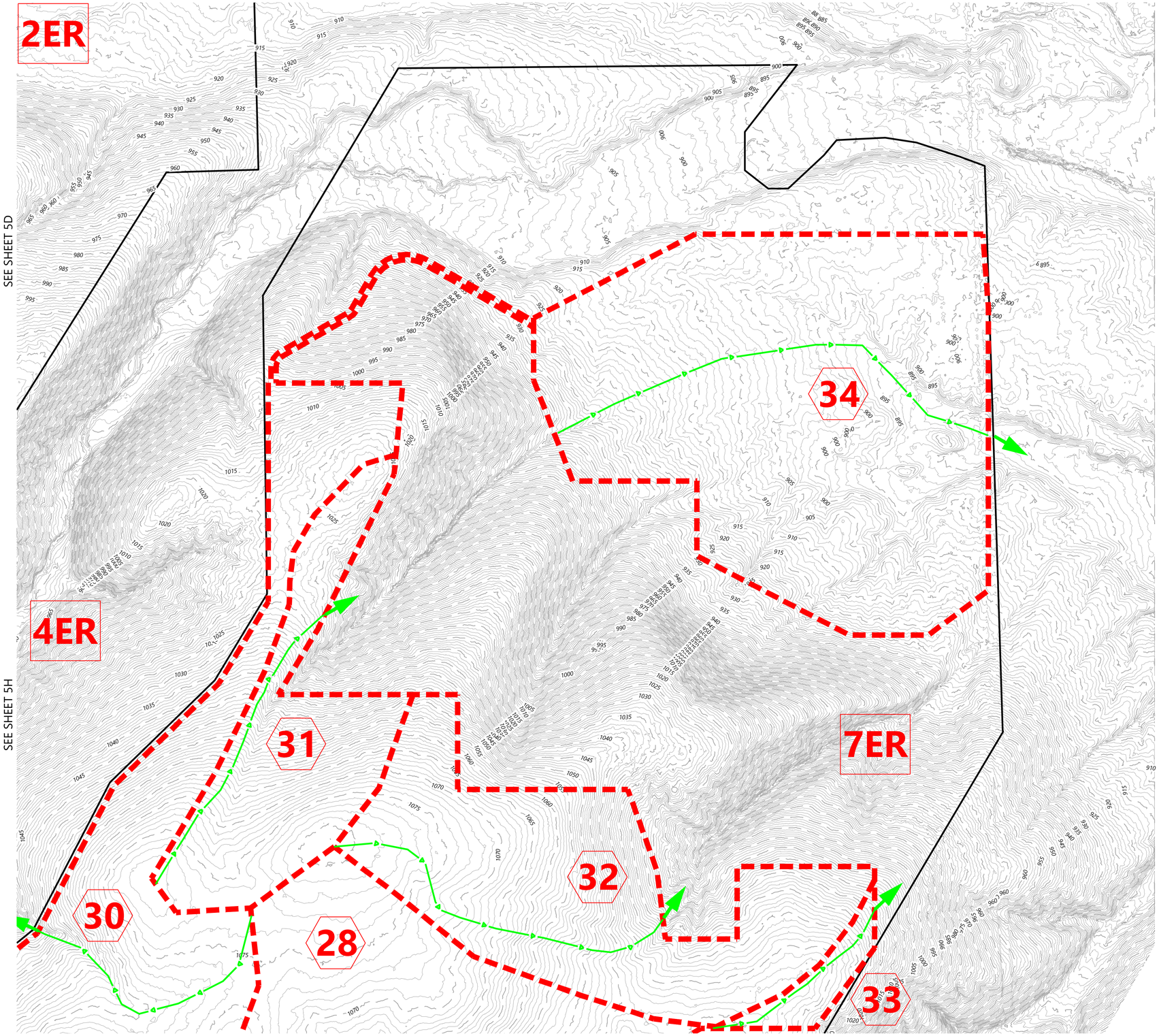

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0' 200' 400' 600'

Wautoma Solar Project

Benton County, Washington

Existing Drainage Map

DATE: 1/14/2022

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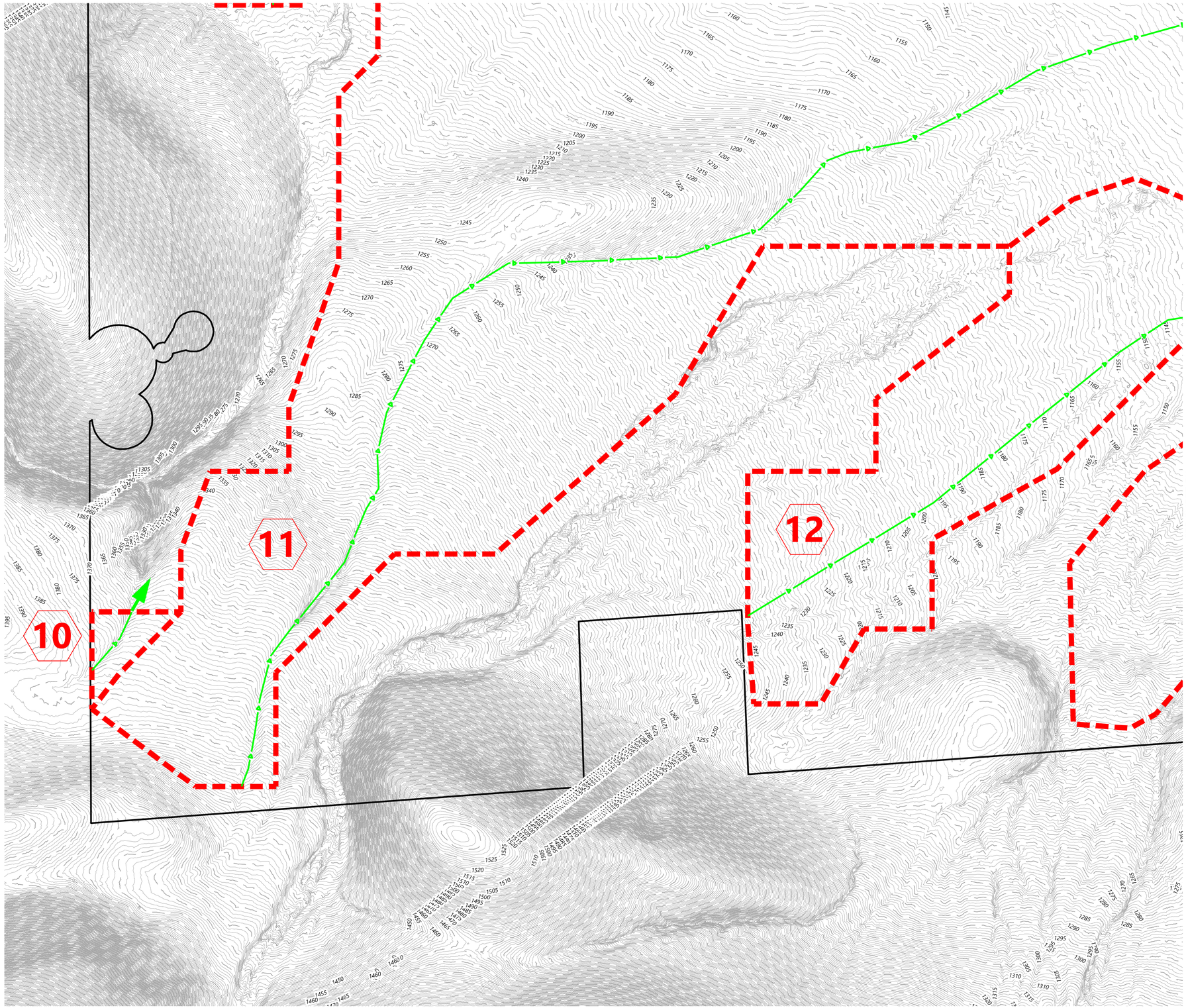

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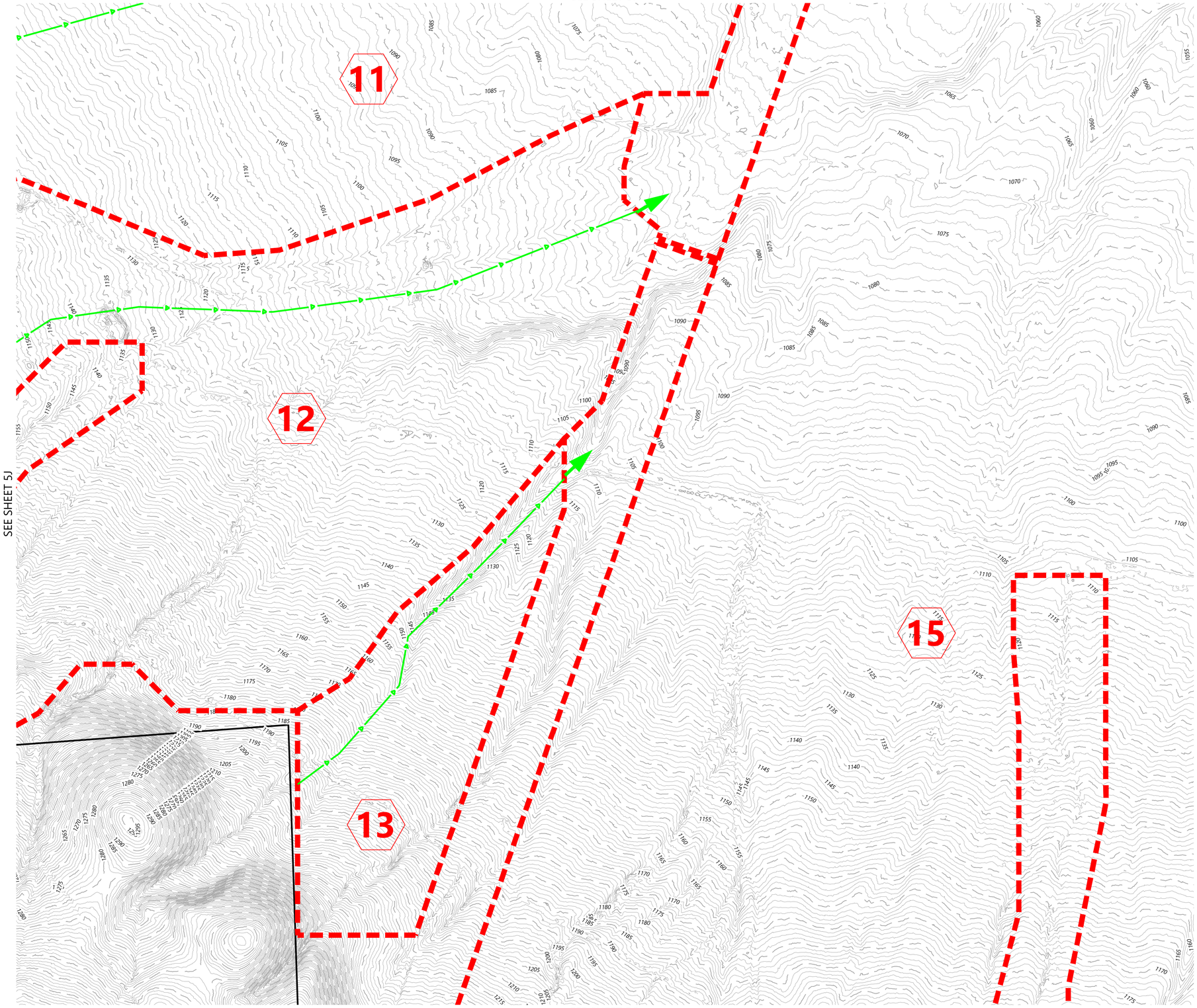

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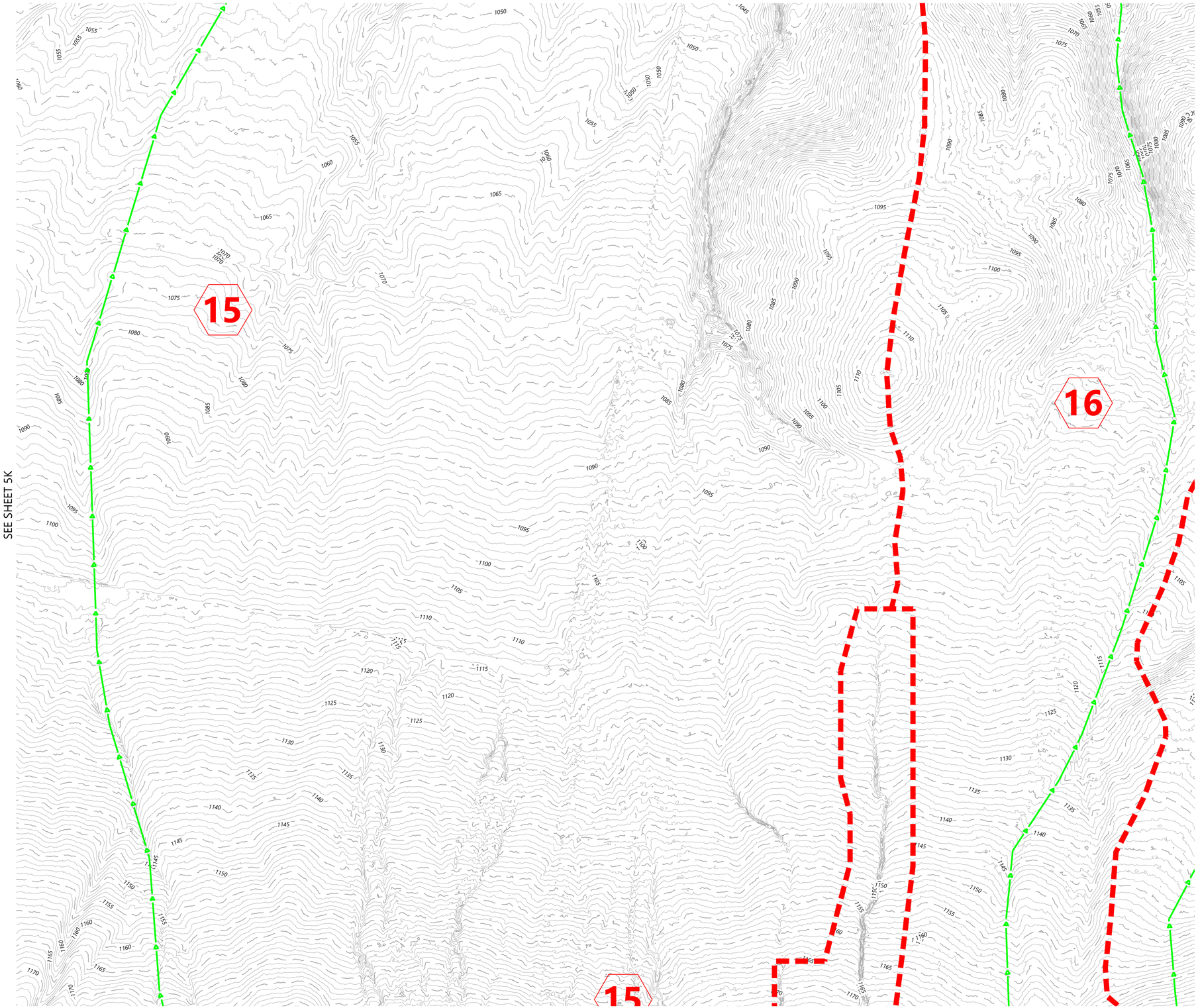

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REVISIONS:

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0' 200' 400' 600'

Wautoma Solar Project

Benton County, Washington

Existing Drainage Map

DATE: 1/14/2022

REV:

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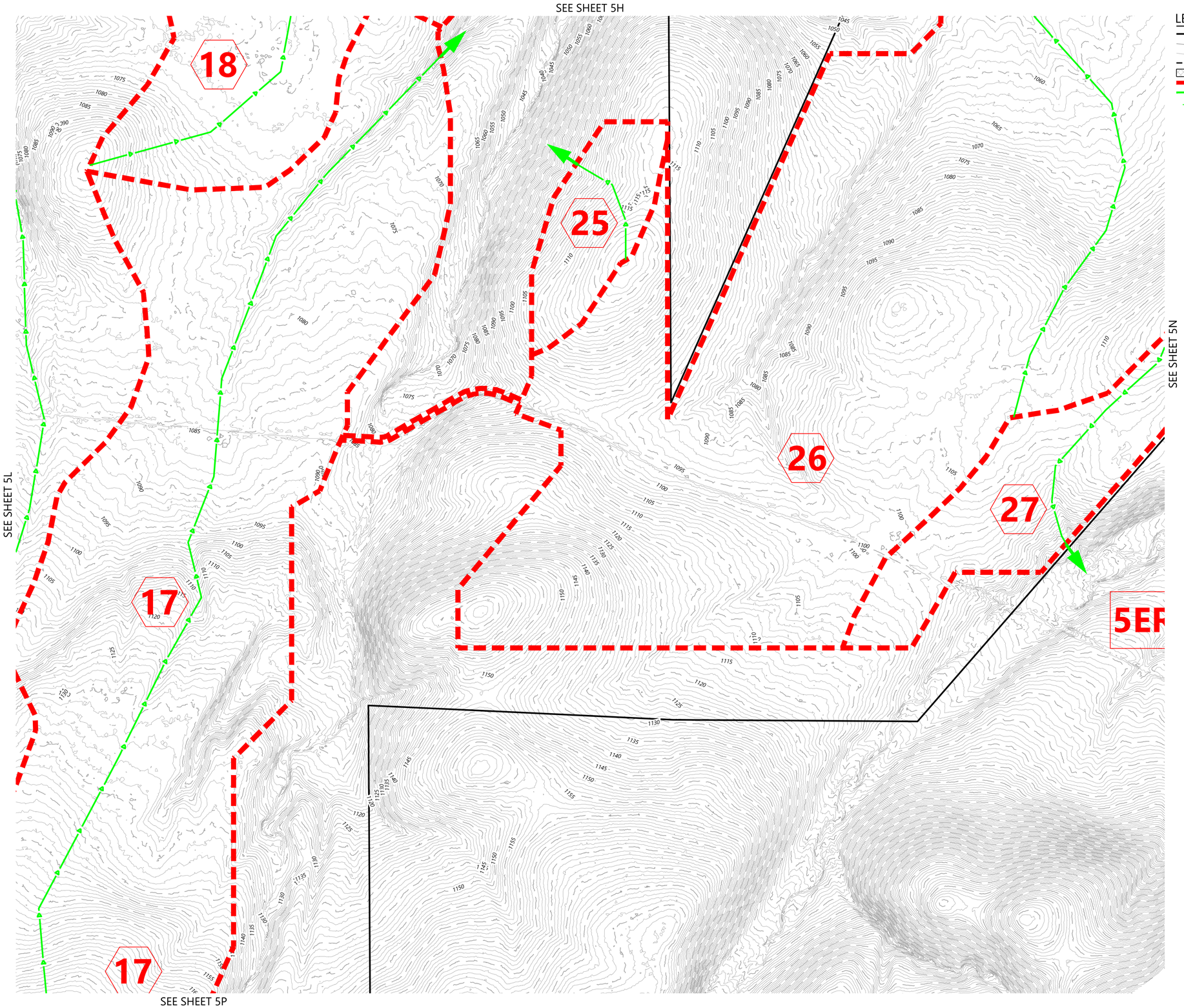

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REVISIONS:

#	DATE	COMMENT	BY	CHK	APR

0' 200' 400' 600'

Wautoma Solar Project

Benton County, Washington

Existing Drainage Map

DATE: 1/14/2022

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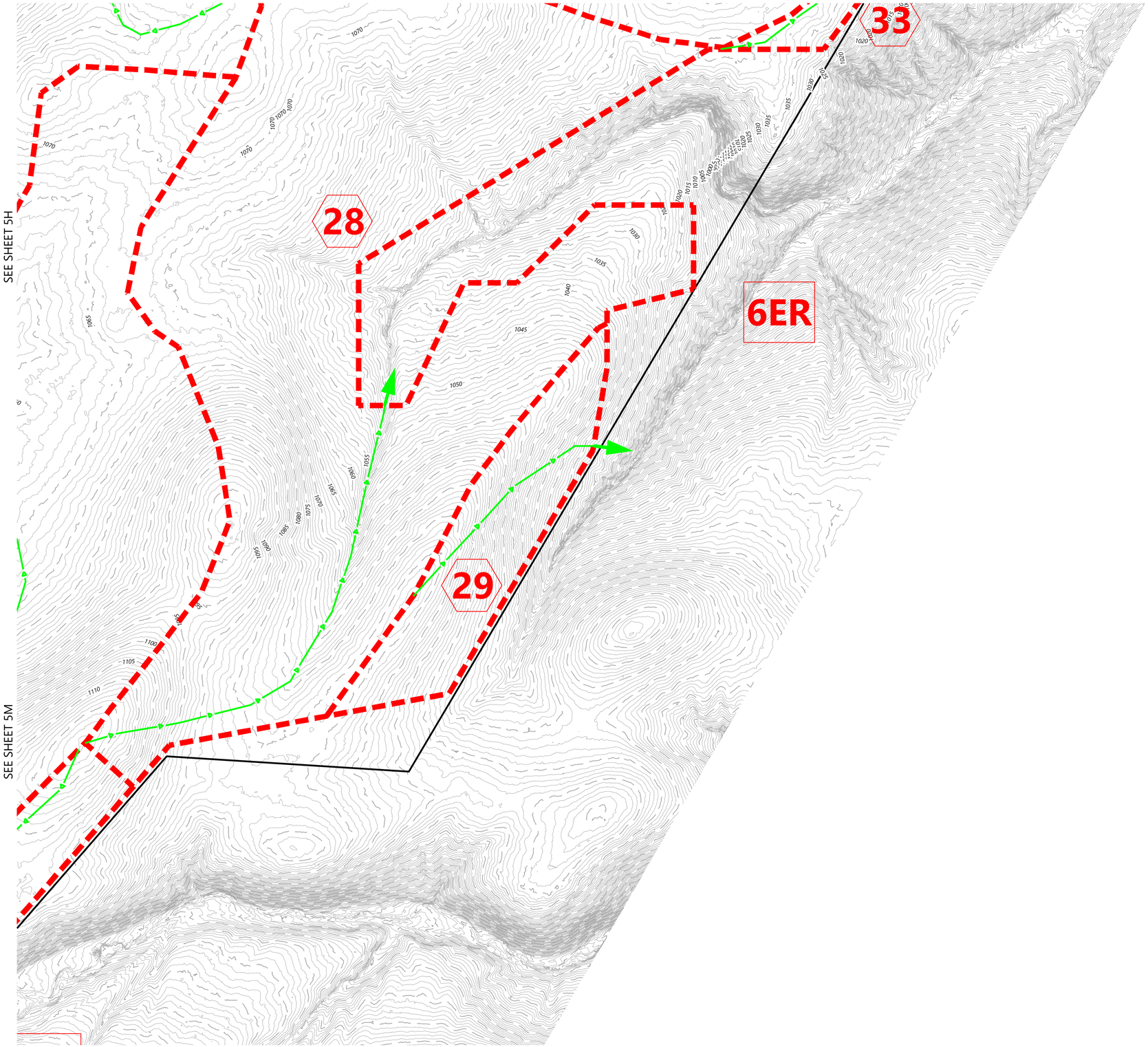

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Wautoma Solar Project

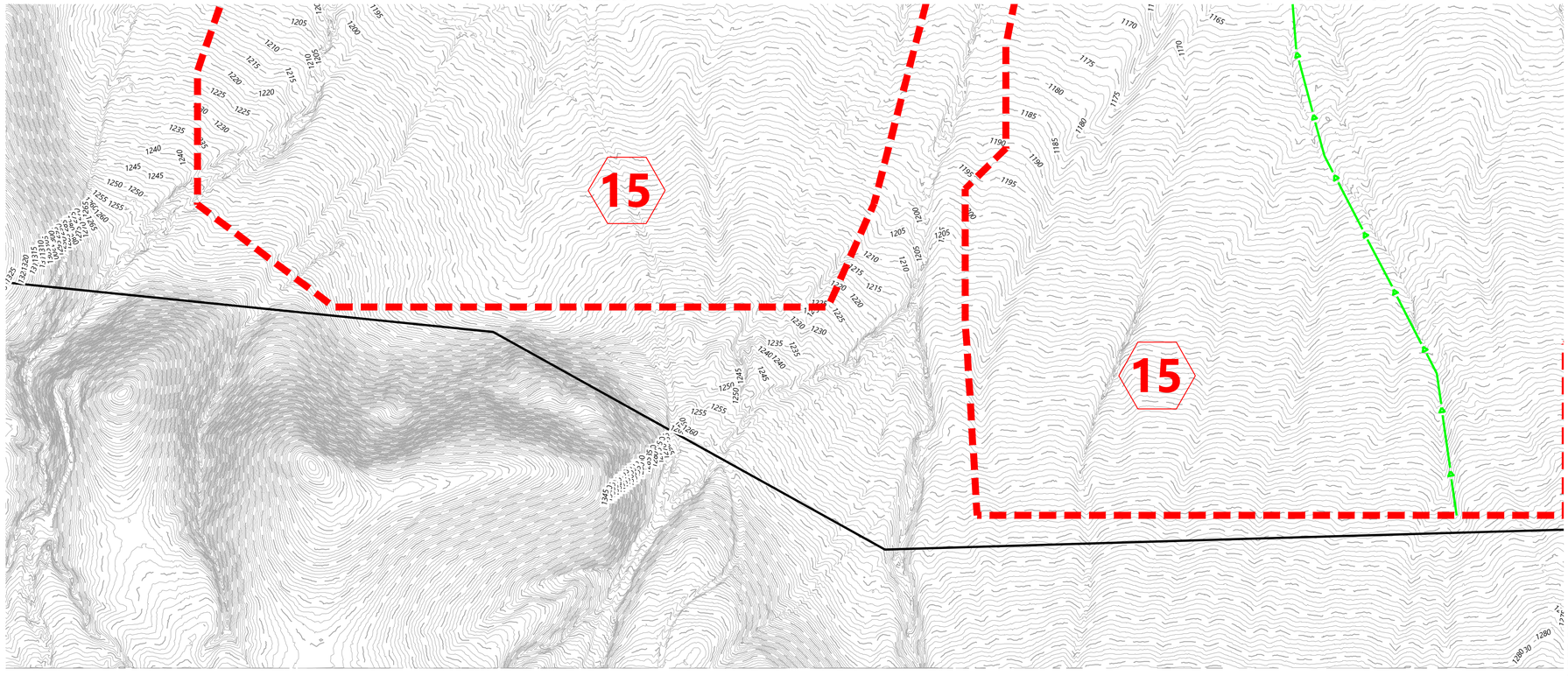
Benton County, Washington

Existing Drainage Map

DATE: 1/14/2022

REV:

SHEET: 5N



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- EX. INTERVAL CONTOUR
- EX. STREAM CHANNEL
- FEMA FLOOD HAZARD ZONE
- EX. ONSITE DRAINAGE AREA BOUNDARY
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0' 200' 400' 600'

Wautoma Solar Project

Benton County, Washington

Existing Drainage Map

DATE: 1/14/2022

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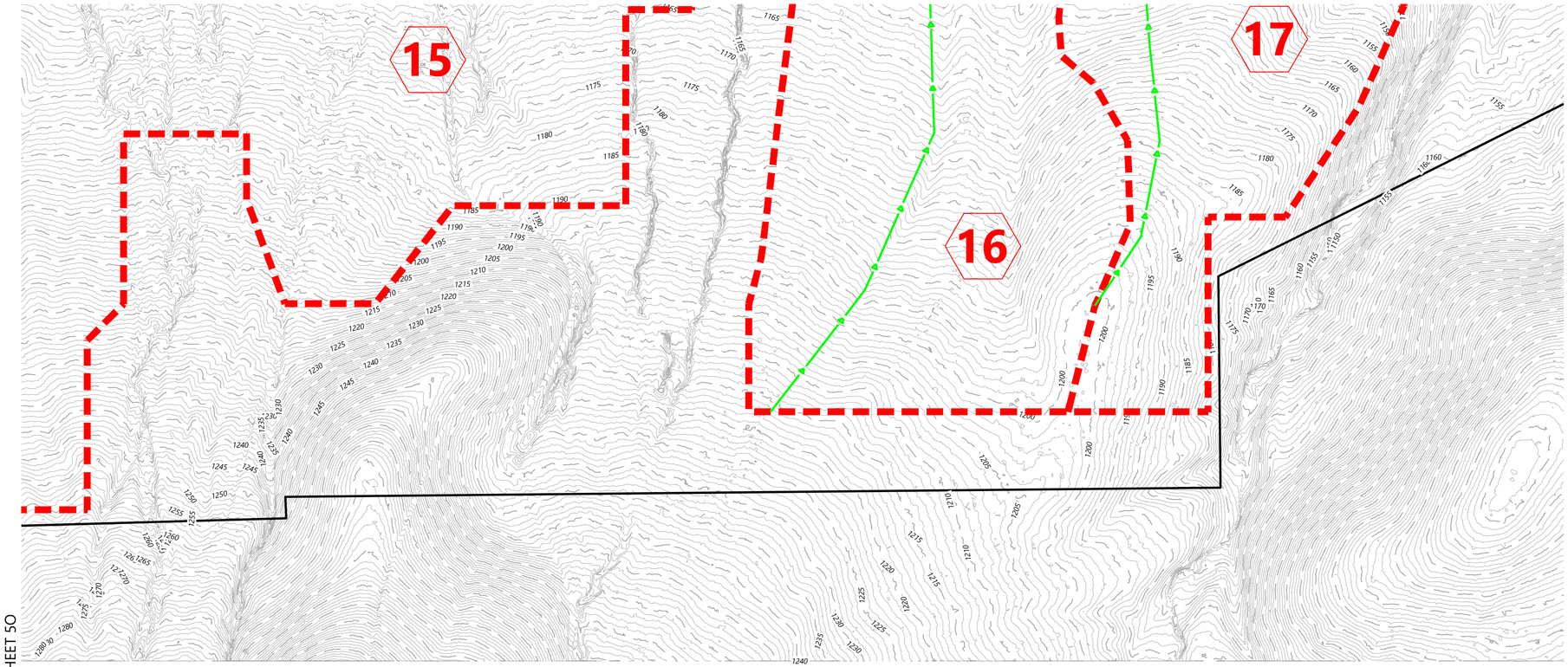

LEGEND:

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- EX. INTERVAL CONTOUR
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- FEMA FLOOD HAZARD ZONE
- EX. ONSITE DRAINAGE AREA BOUNDARY
- EX. TIME OF CONCENTRATION LINE
- DISCHARGE LOCATION
- DRAINAGE AREA LABEL

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REVISIONS:

#	DATE	COMMENT	BY	CHK	APR

0' 200' 400' 600'

Wautoma Solar Project

Benton County, Washington

Existing Drainage Map

DATE: 1/14/2022

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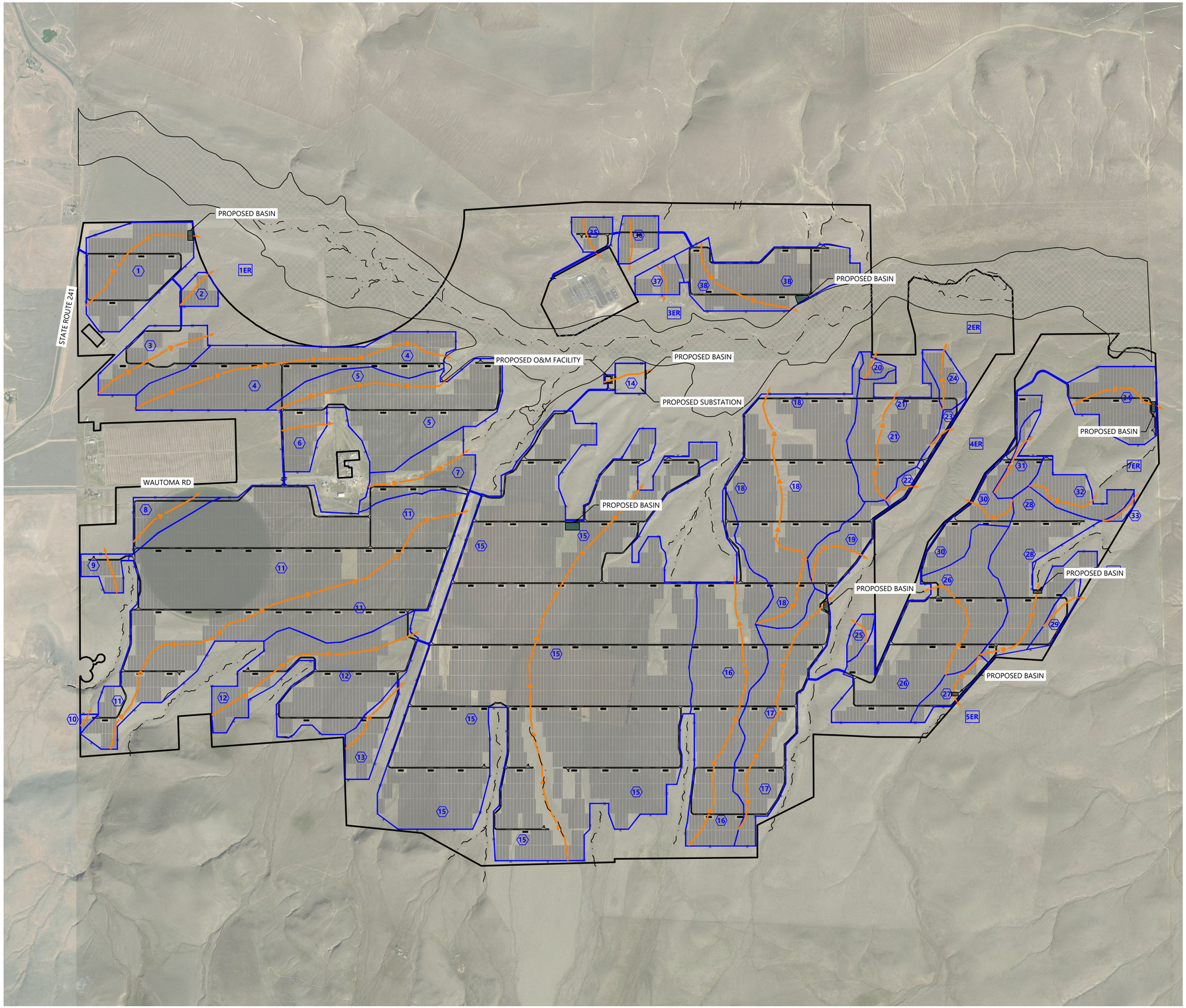

LEGEND:

- PROJECT BOUNDARY
- EX. STREAM CHANNEL
- FEMA FLOOD HAZARD ZONE
- PROPOSED SOLAR ARRAY
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ONSITE DRAINAGE AREA BOUNDARY
- PROPOSED TIME OF CONCENTRATION LINE
- DISCHARGE LOCATION
- 1 DRAINAGE AREA LABEL
- 1ER DISCHARGE REACH LABEL

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REVISIONS:

#	DATE	COMMENT	BY	CHK	APR

0' 1000' 2000' 3000'

Wautoma Solar Project

Benton County, Washington

Overall Proposed Drainage Map

DATE: 1/14/2022

REV:

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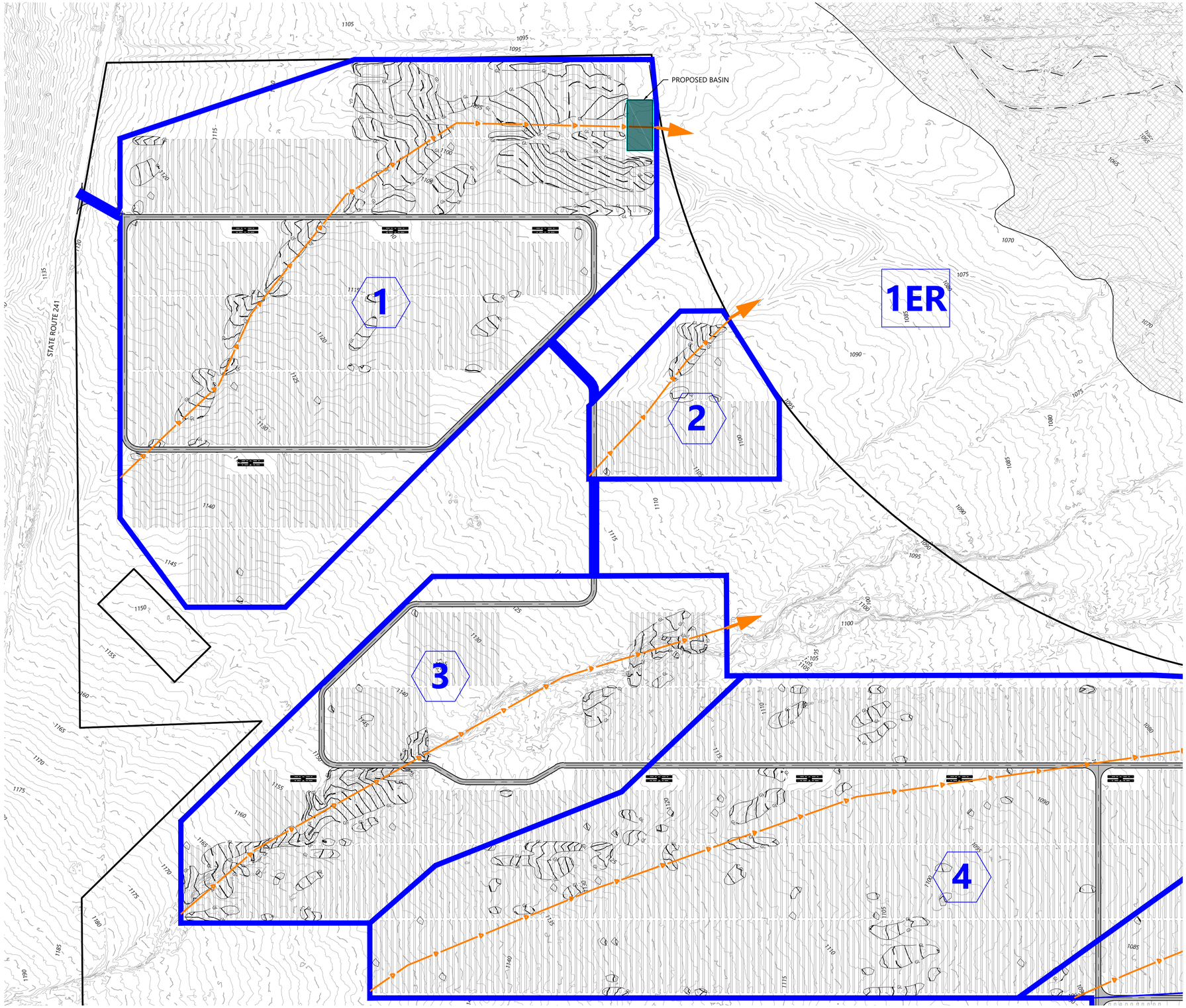

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- PROPOSED ONSITE DRAINAGE AREA BOUNDARY
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0' 200' 400' 600'

Wautoma Solar Project

Benton County, Washington

Proposed Drainage Map

DATE: 1/14/2022

REV:

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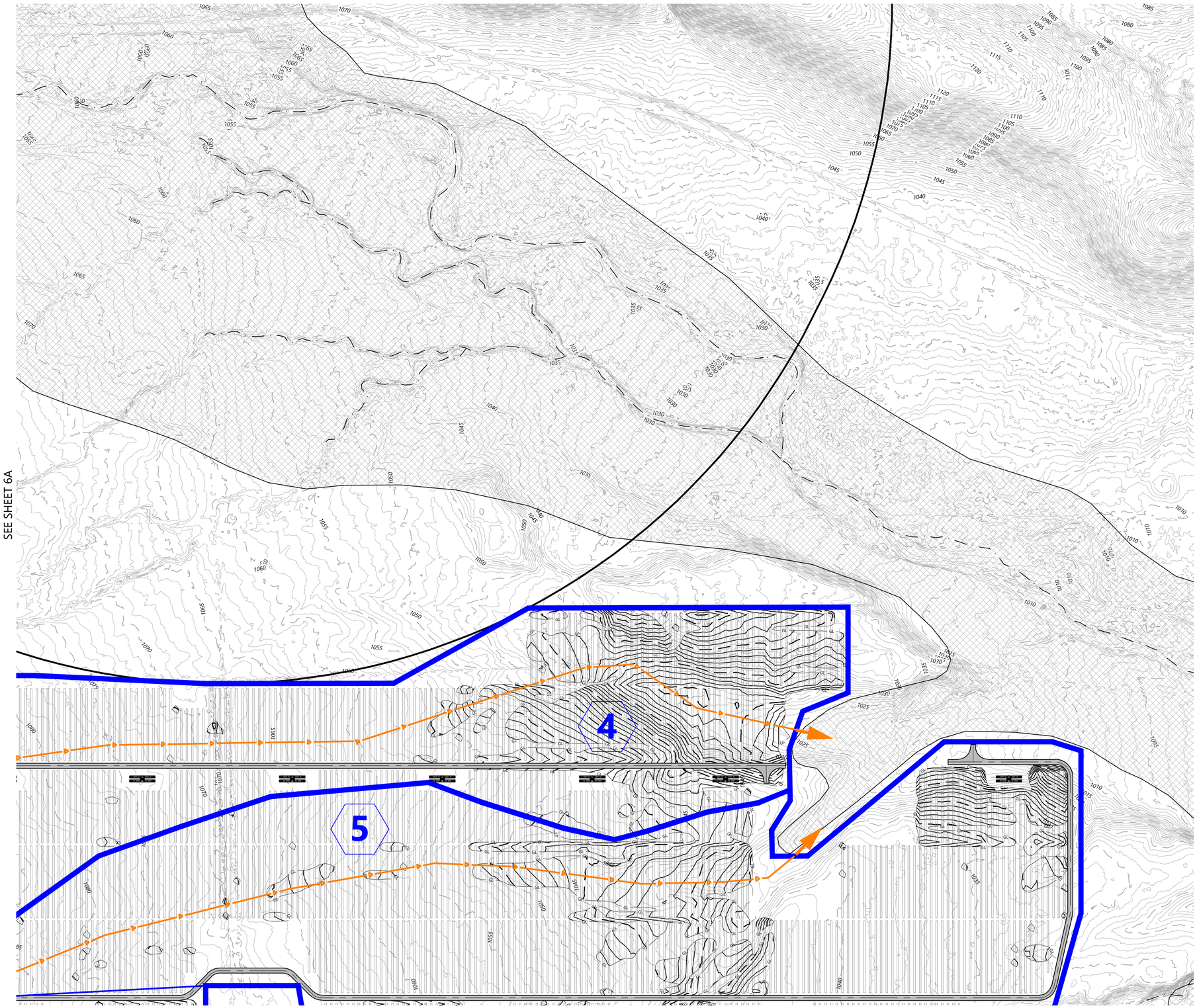

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0' 200' 400' 600'

Wautoma Solar Project

Benton County, Washington

Proposed Drainage Map

DATE: 1/14/2022

REV:

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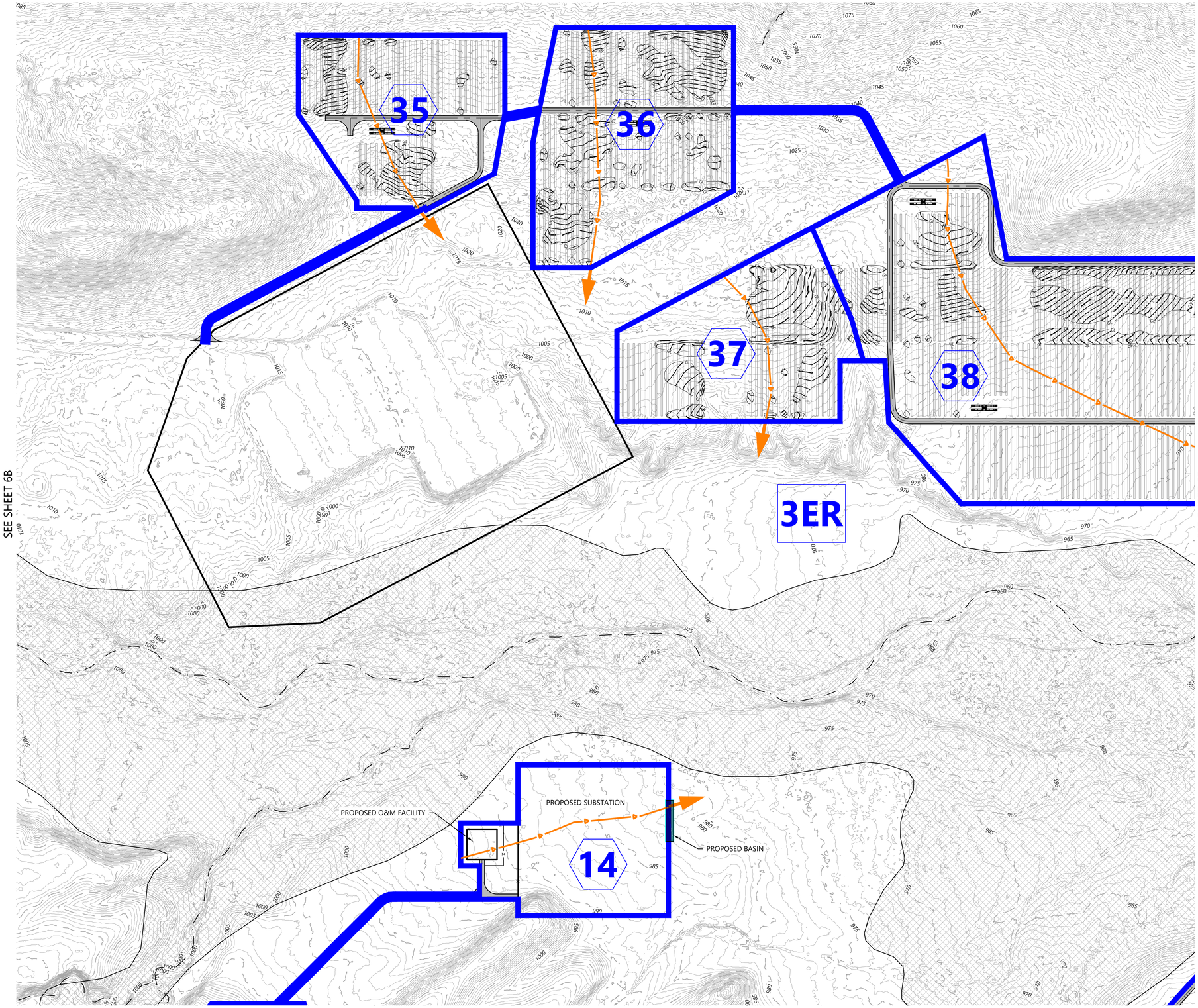

LEGEND:

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Wautoma Solar Project

Benton County, Washington

Proposed Drainage Map

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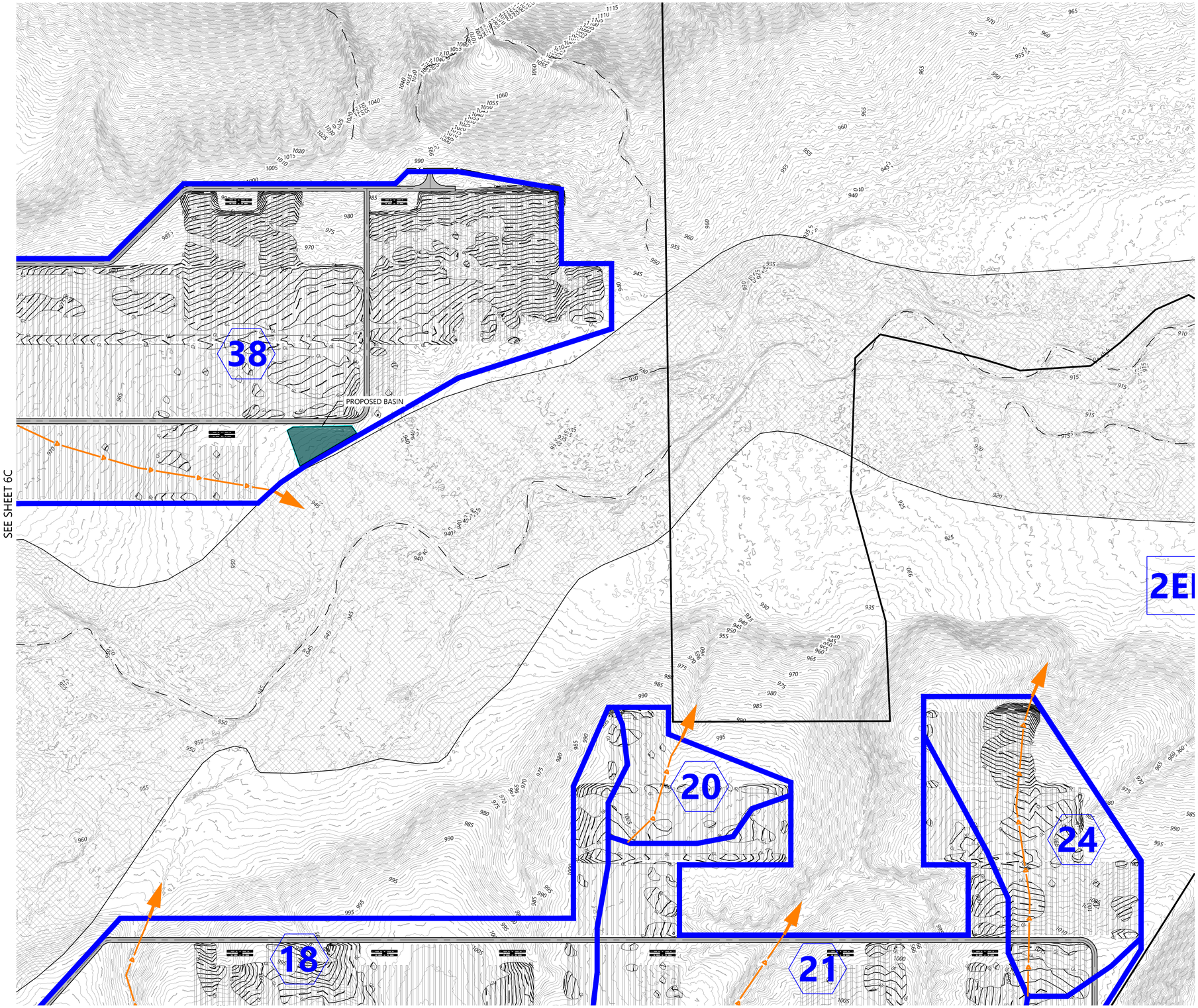

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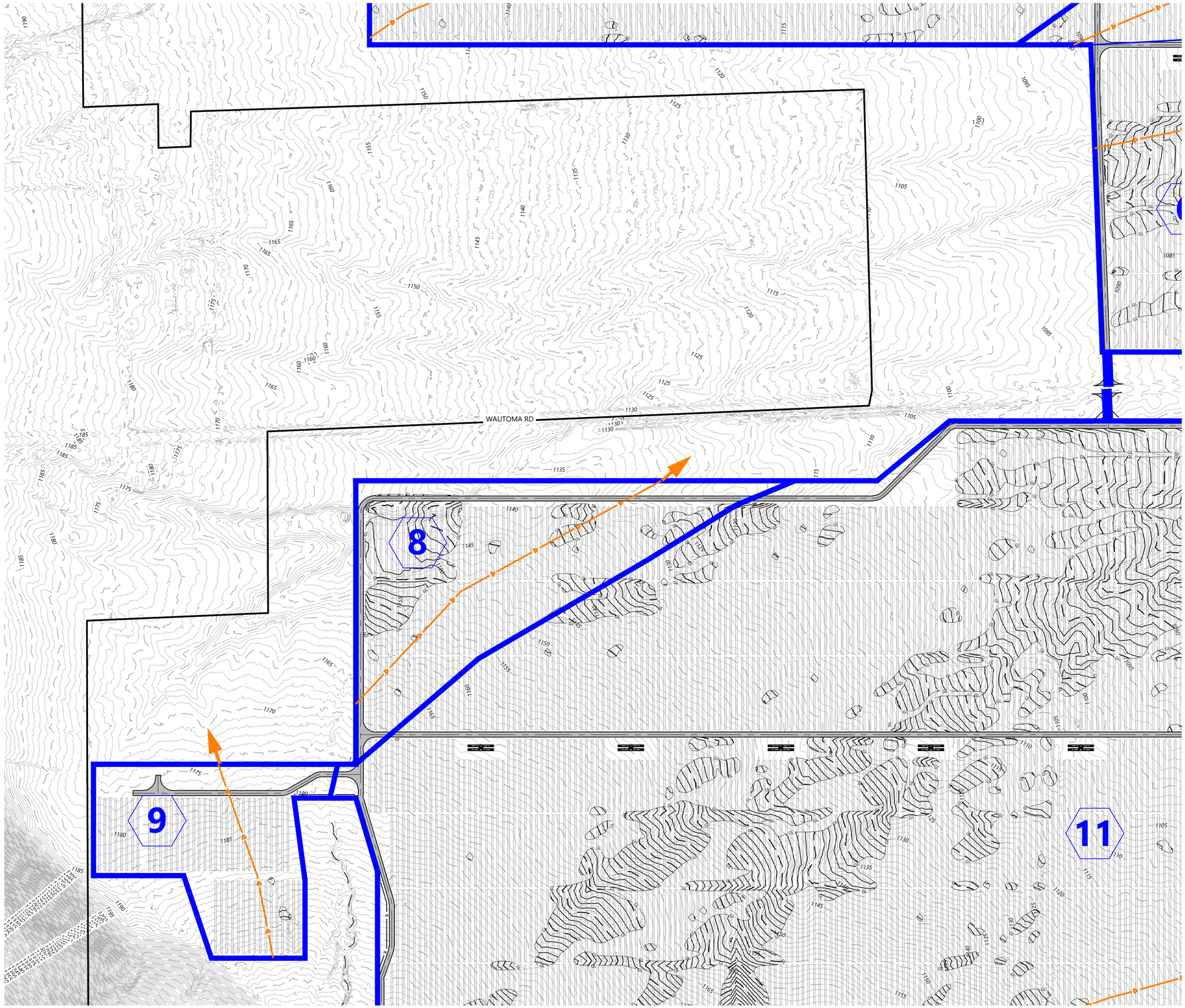

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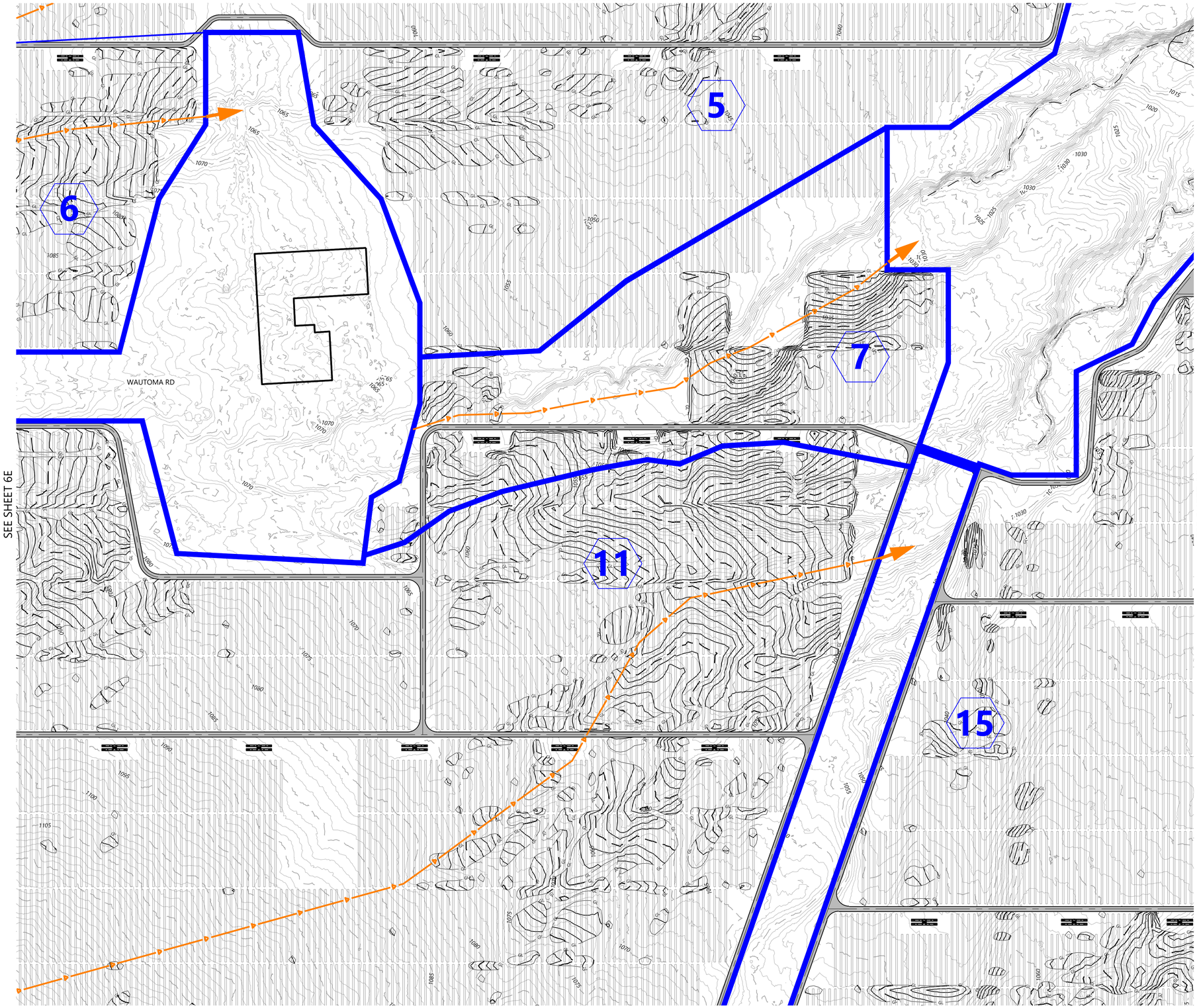

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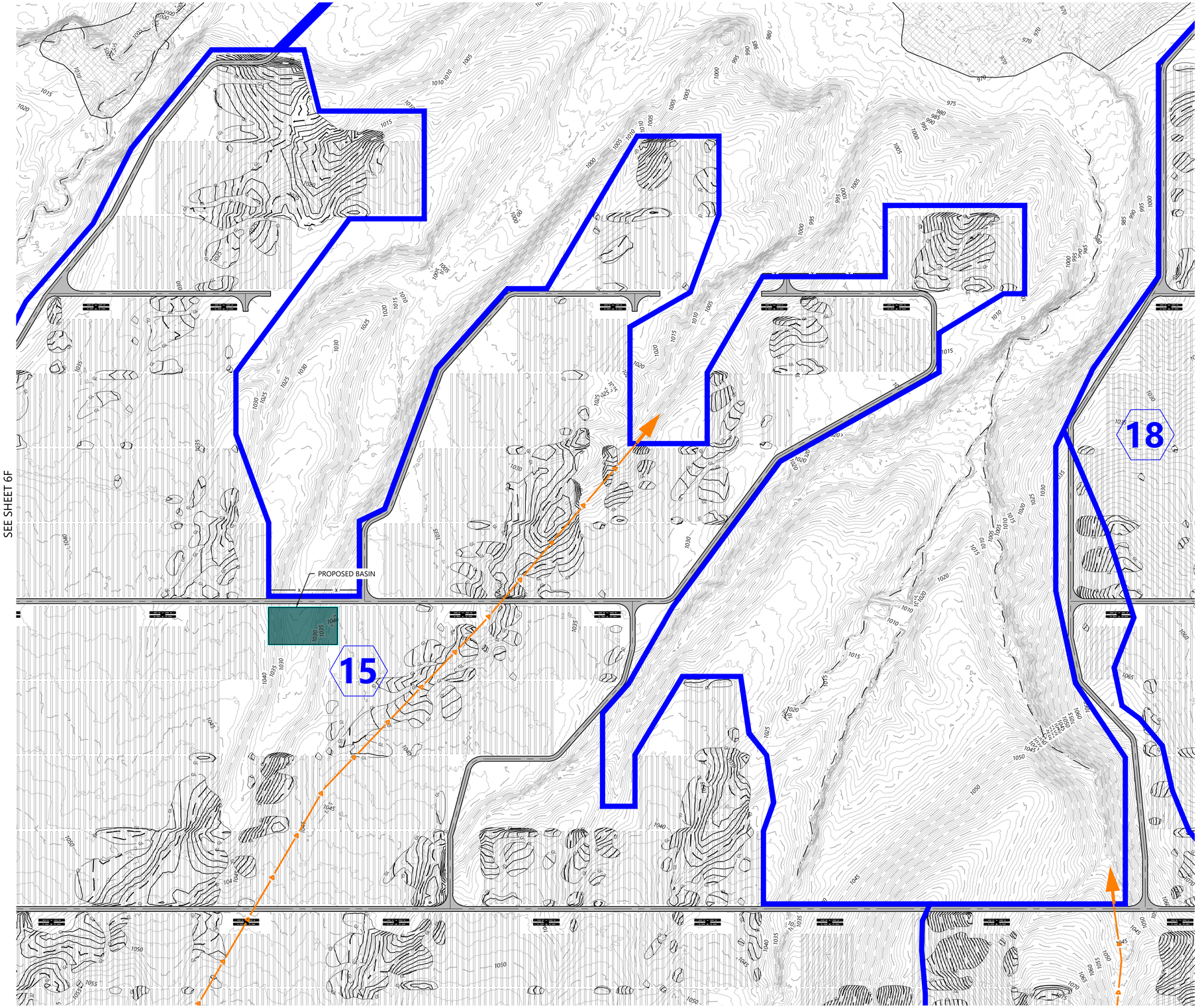
Benton County, Washington

Proposed Drainage Map

DATE: 1/14/2022

REV:

SHEET: 6F



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- EX. STREAM CHANNEL
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- PROPOSED ELECTRICAL EQUIPMENT
- PROPOSED ONSITE DRAINAGE AREA BOUNDARY
- PROPOSED TIME OF CONCENTRATION LINE
- DISCHARGE LOCATION
- 1 DRAINAGE AREA LABEL

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1225 Saint-Charles Street West, 10th Floor,
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REVISIONS:

#	DATE	COMMENT	BY	CHK	APR

0' 200' 400' 600'

Wautoma Solar Project

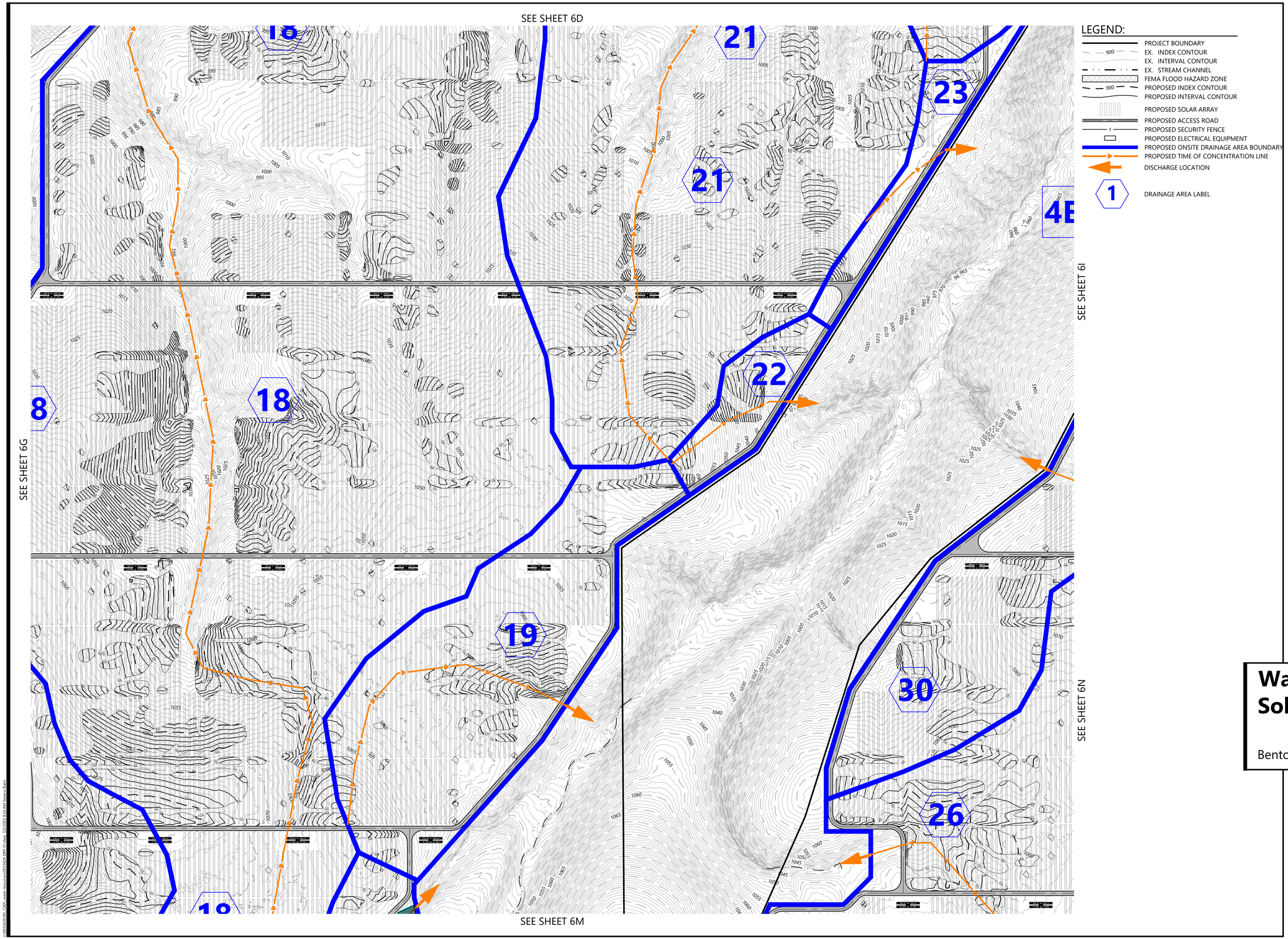
Benton County, Washington

Proposed Drainage Map

DATE: 1/14/2022

REV:

SHEET: 6G



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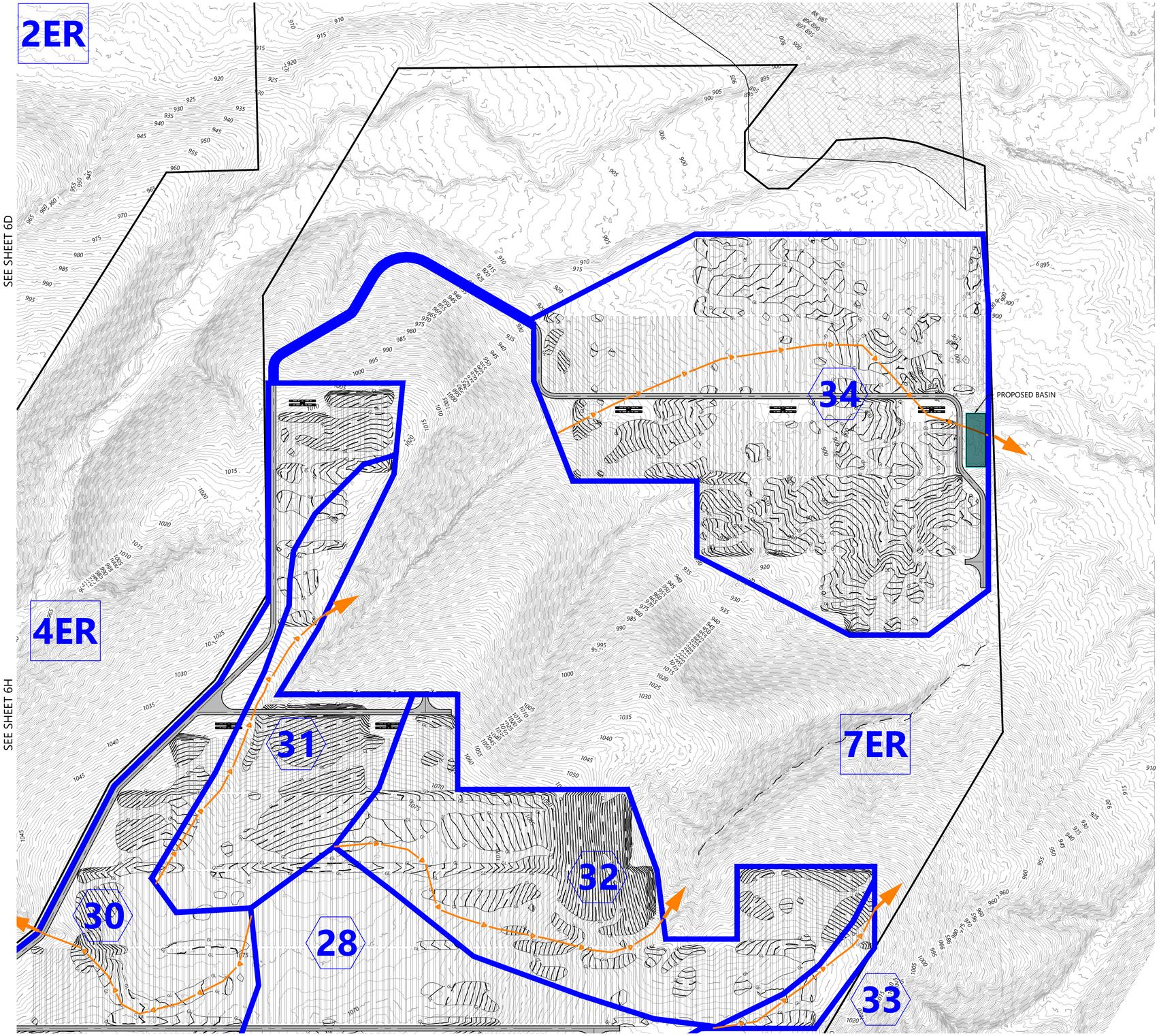

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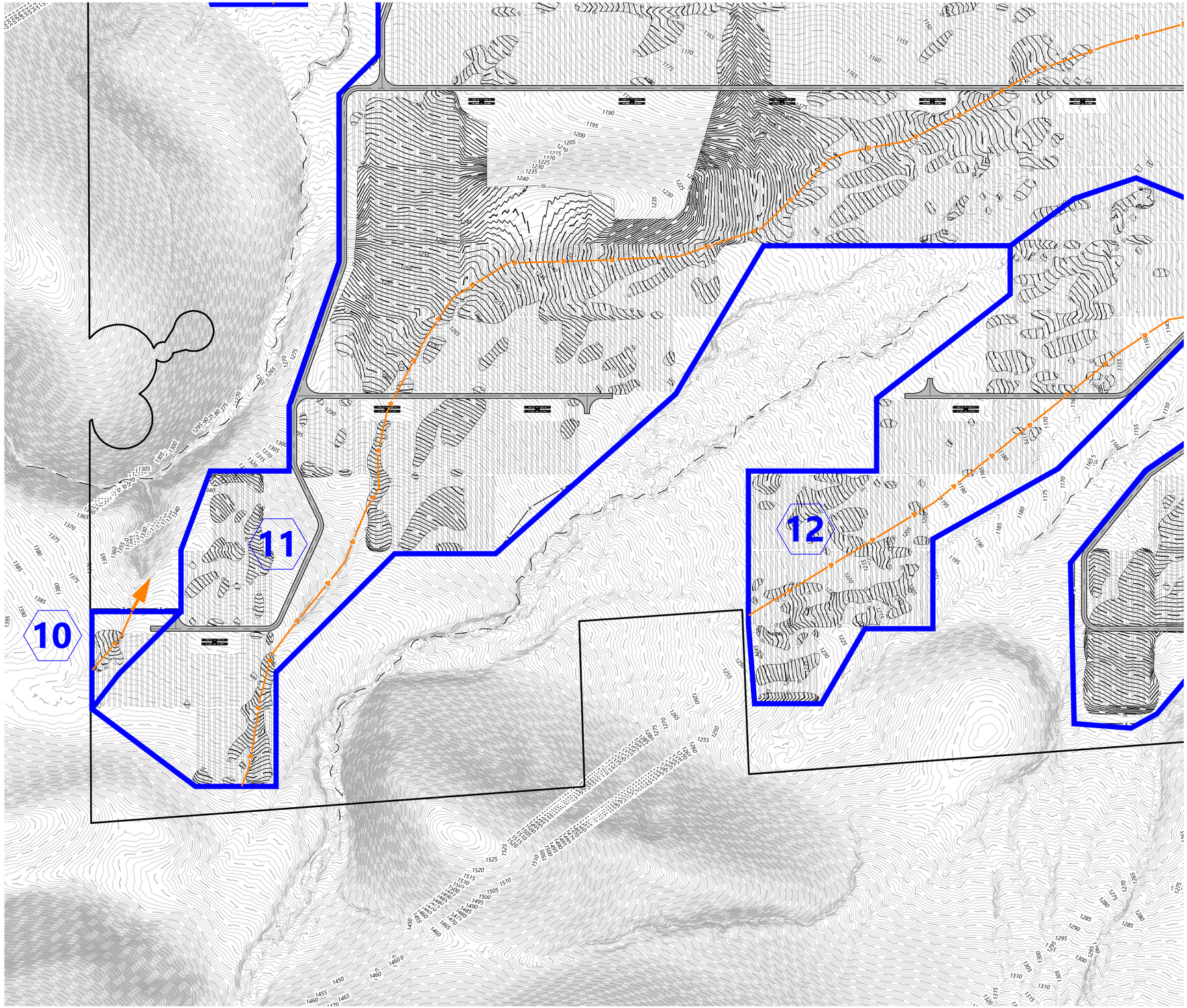

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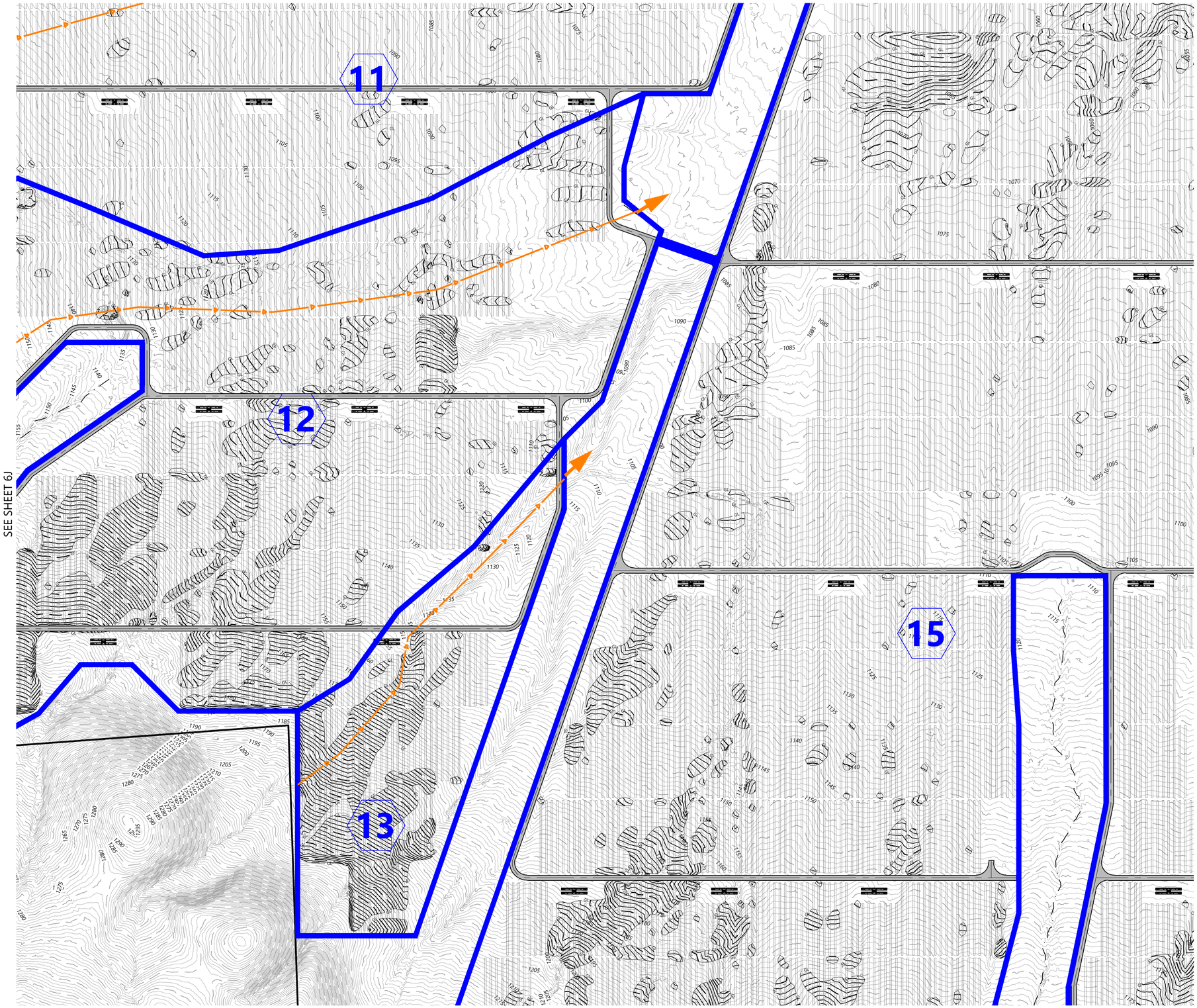

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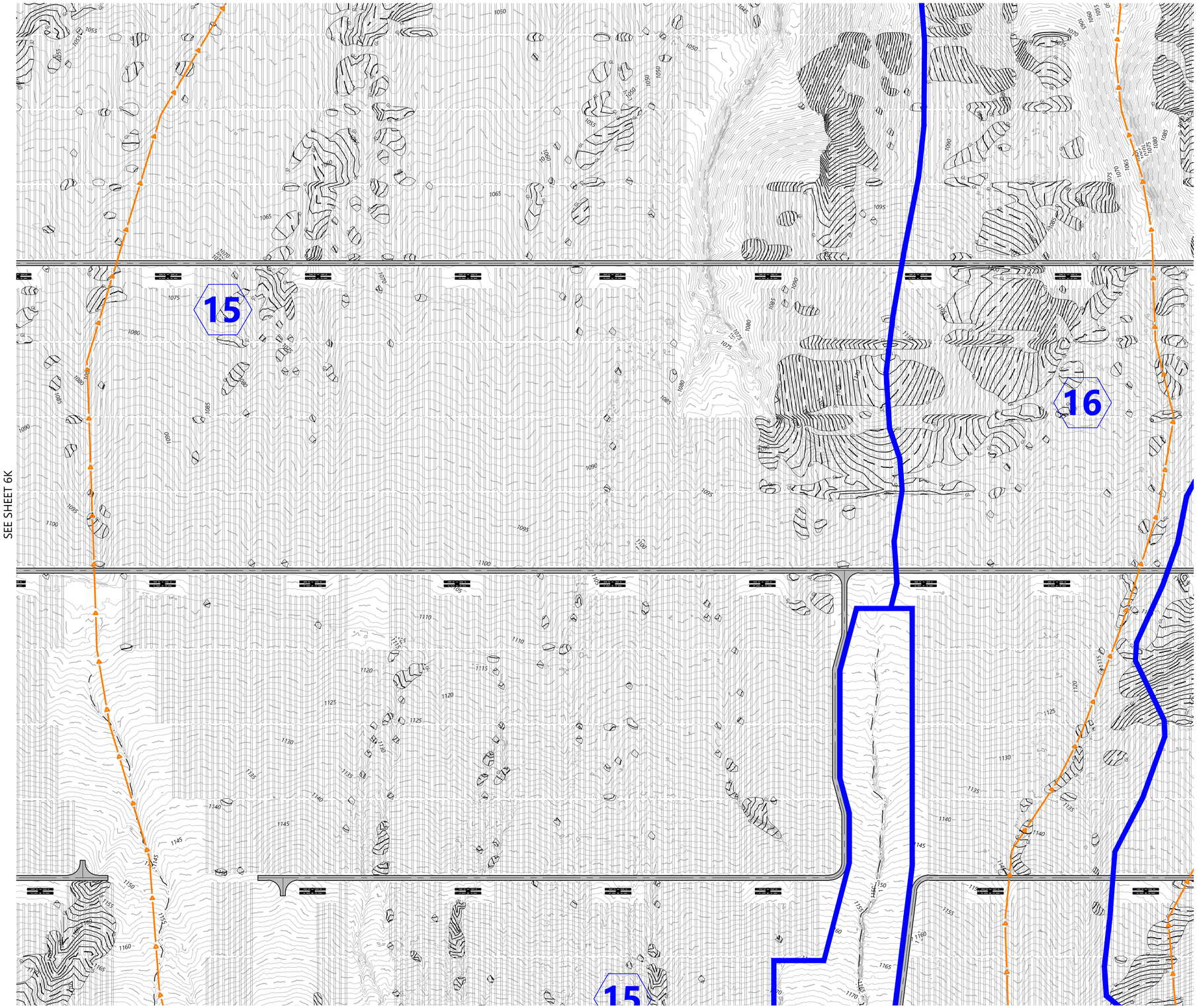

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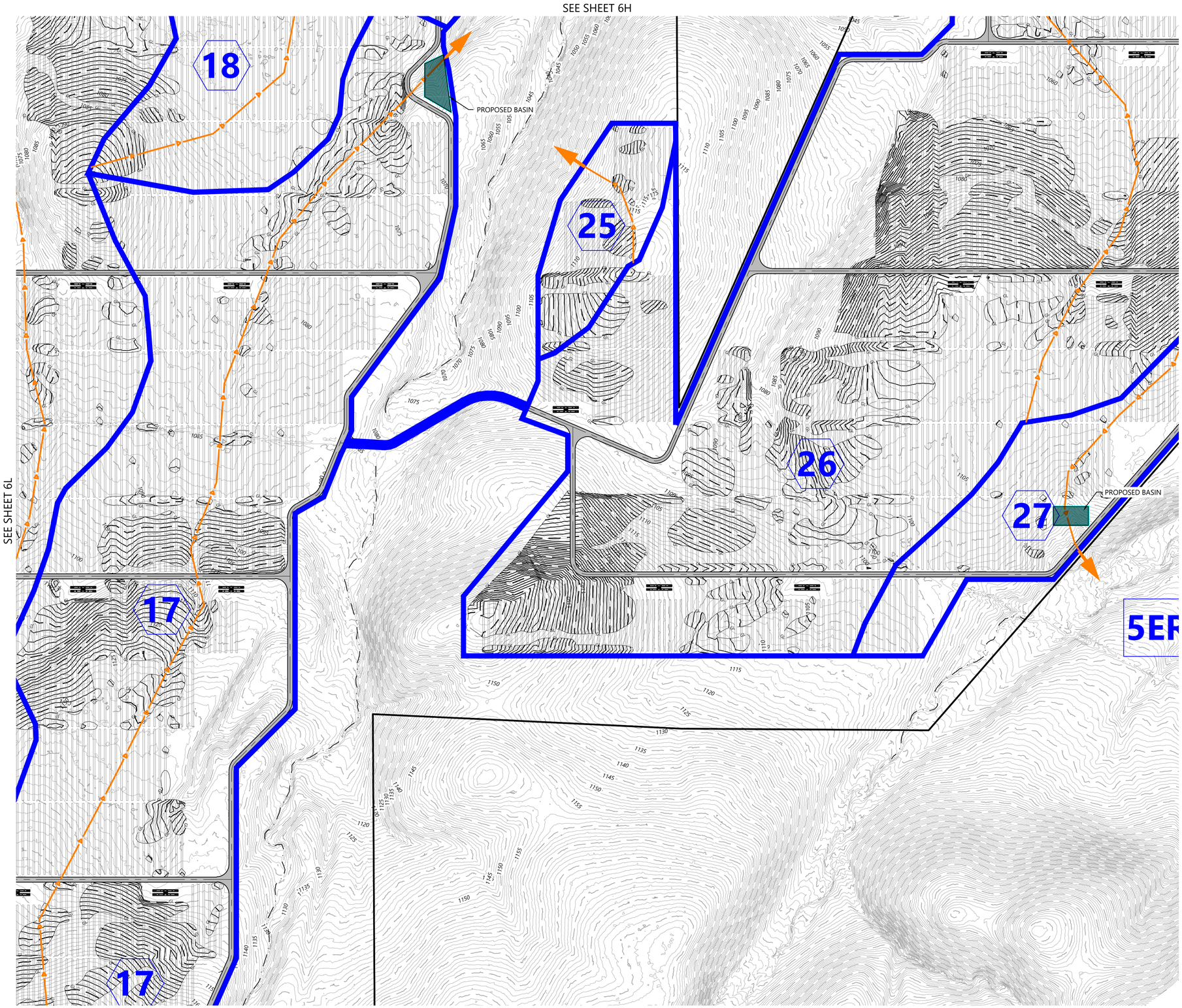

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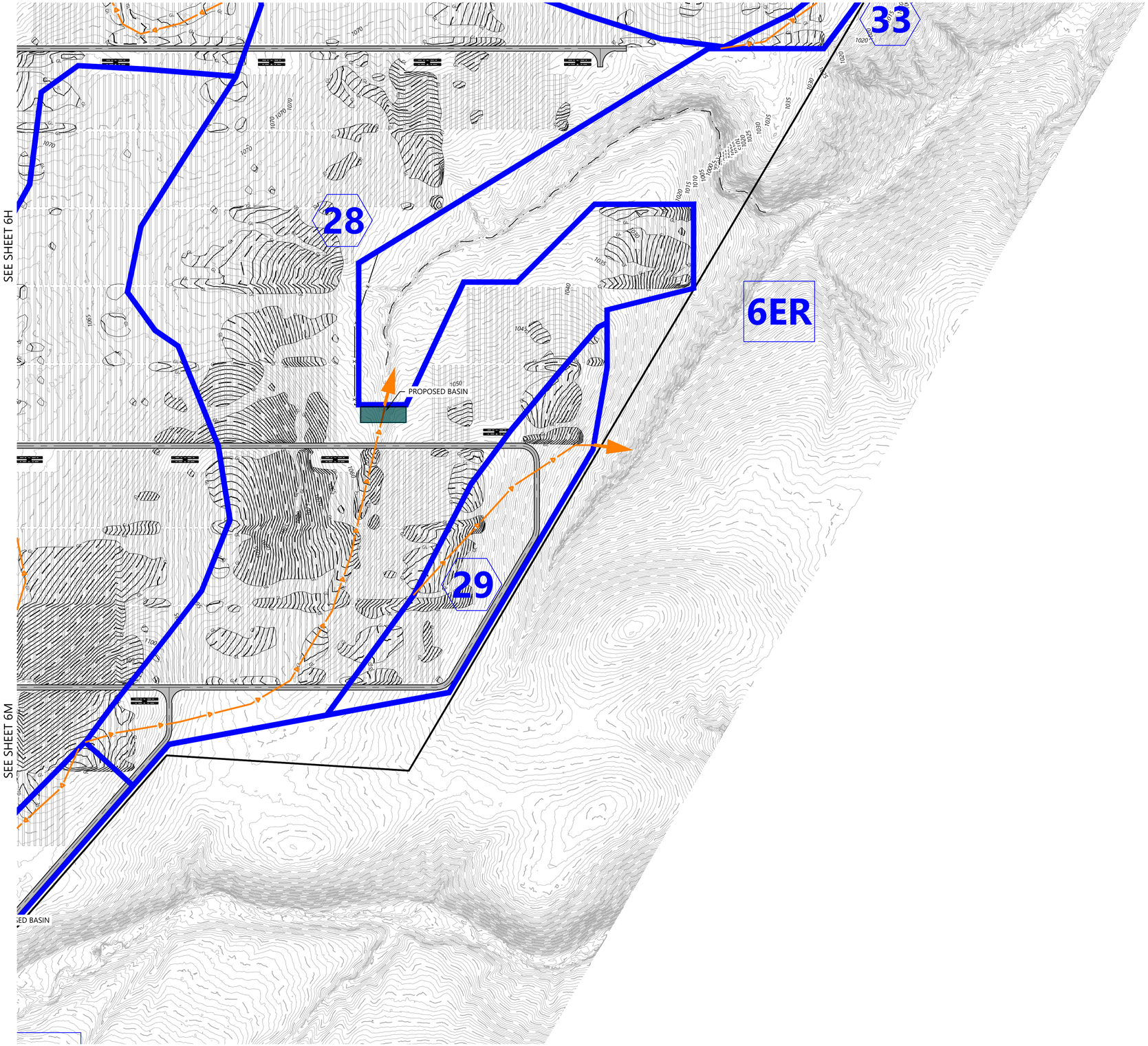

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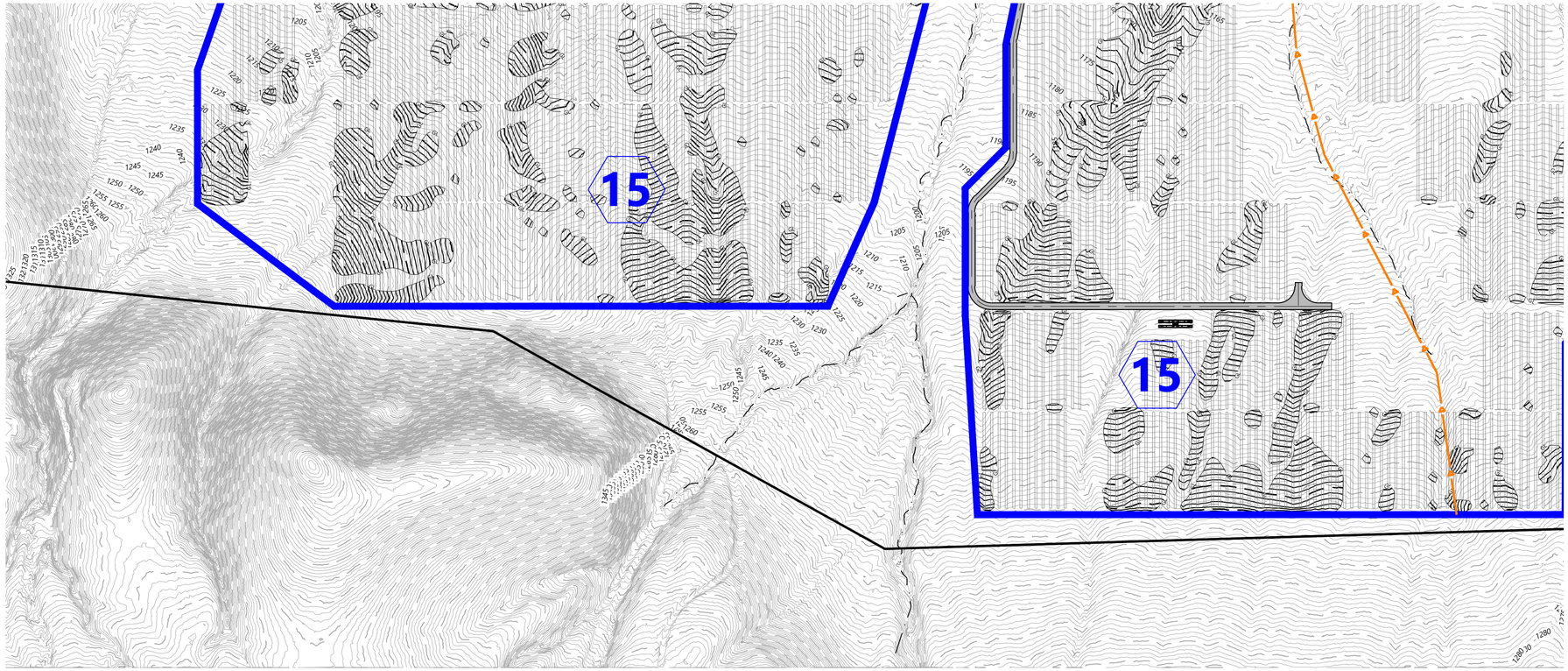

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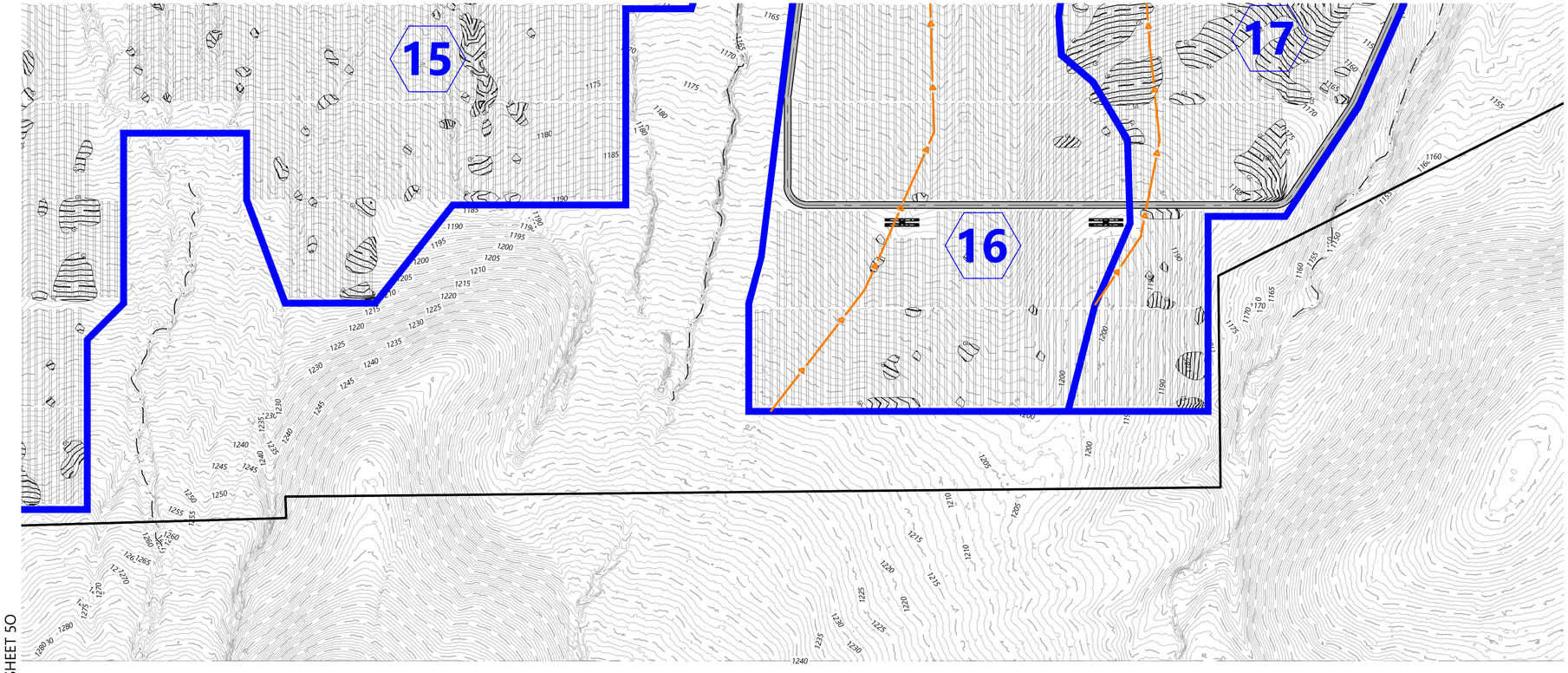

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Wautoma Solar Project

Benton County, Washington

Proposed Drainage Map

DATE: 1/14/2022

REV:

SHEET: 6P

Appendix A

SWMMEW Rainfall Maps





Source: NOAA Atlas 2, Volume IX, 1973
Precipitation in inches

County(2003, 1:24,000)
City(2003, 1:24,000)
Township/Range
Isopluvial(1973, 1:2,000,000)
NOAA/NWS Station(1931-1998)

Source: Miller et. al., 1973

DEPARTMENT OF
ECOLOGY
State of Washington

2-Year, 24-Hour Isopluvial Map

Revised March 2005

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Source: NOAA Atlas 2, Volume IX, 1973
Precipitation in inches

County(2003, 1:24,000)
City(2003, 1:24,000)
Township/Range
Isopluvial(1973, 1:2,000,000)
NOAA/NWS Station(1931-1998)

Source: Miller et. al., 1973



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10-Year, 24-Hour Isopluvial Map

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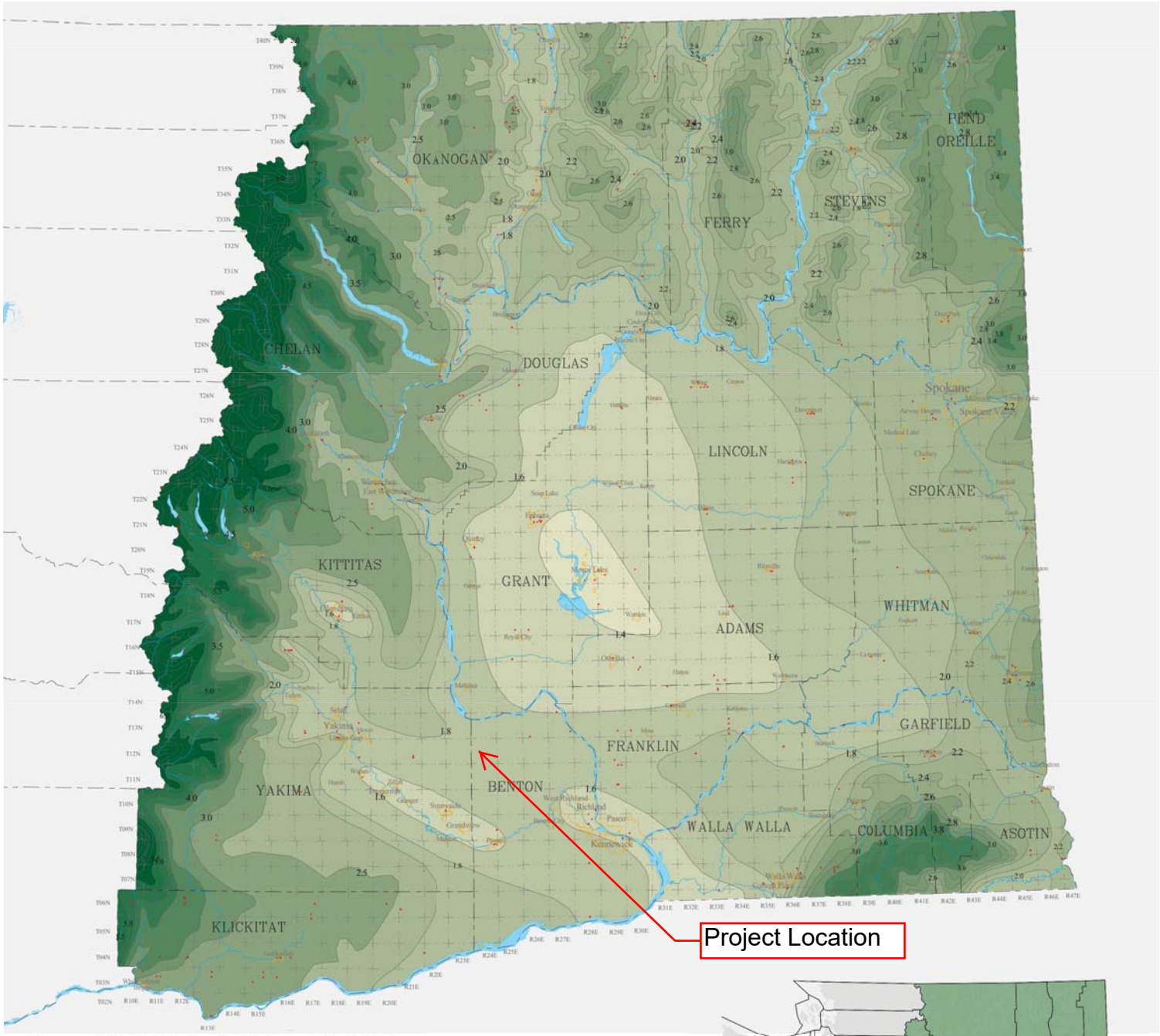



Source: NOAA Atlas 2, Volume IX, 1973
Precipitation in inches

County(2003, 1:24,000)
City(2003, 1:24,000)
Township/Range
Isopluvial(1973, 1:2,000,000)
NOAA/NWS Station(1931-1998)

Source: Miller et. al., 1973

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25-Year, 24-Hour Isopluvial Map

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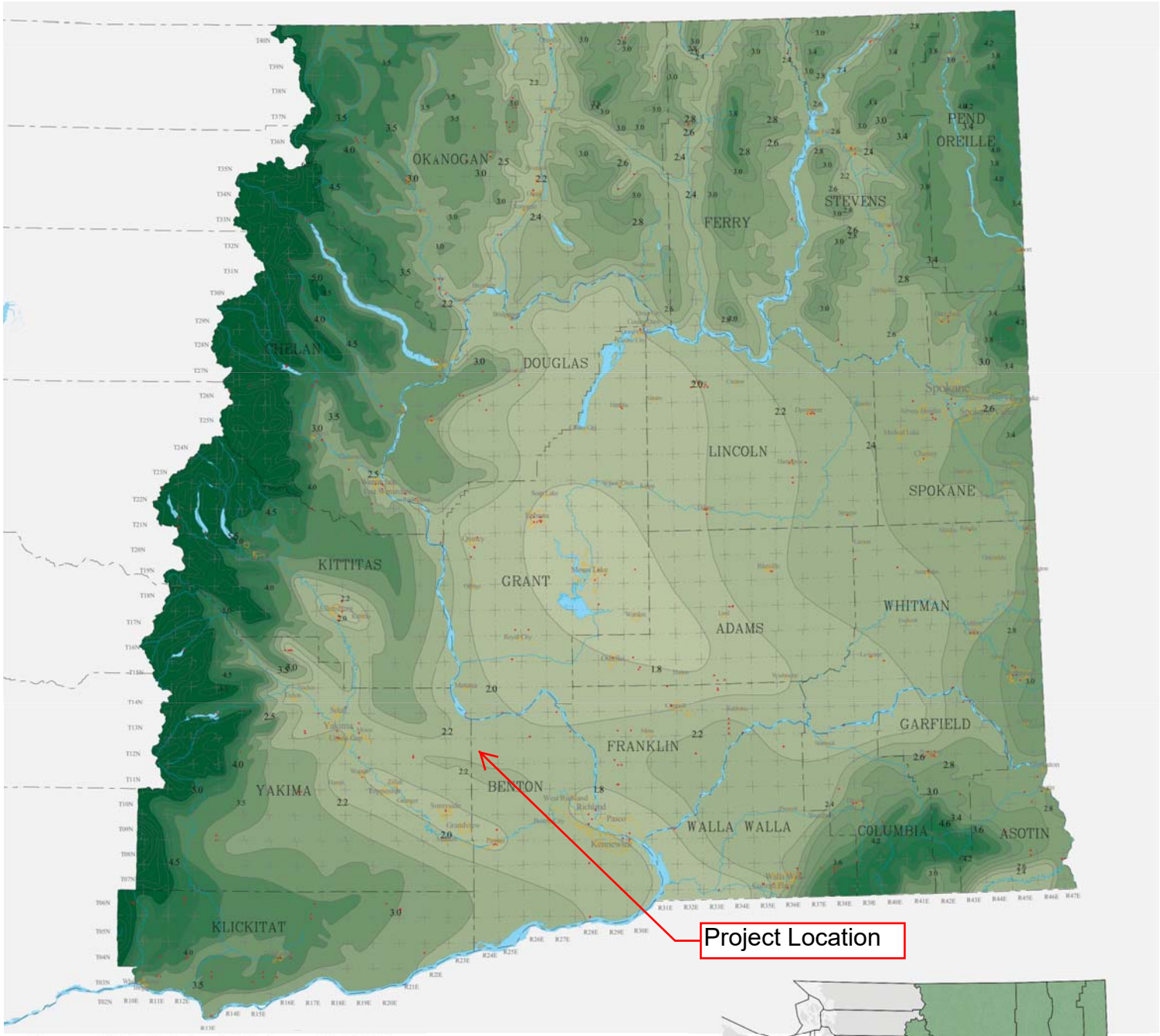



Source: NOAA Atlas 2, Volume IX, 1973
Precipitation in inches

County(2003, 1:24,000)
City(2003, 1:24,000)
Township/Range
Isopluvial(1973, 1:2,000,000)
NOAA/NWS Station(1931-1998)

Source: Miller et. al., 1973

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100-Year, 24-Hour Isopluvial Map

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Appendix B

Curve Number Table

Cover type and hydrologic condition	CNs for hydrologic soil group			
	A	B	C	D
Open space (lawns, parks, golf courses, cemeteries, landscaping, etc.)[a]				
Poor condition (grass cover <50% of the area)	68	79	86	89
Fair condition (grass cover on 50% to 75% of the area)	49	69	79	84
Good condition (grass cover on >75% of the area)	39	61	74	80
Impervious areas				
Open water bodies: lakes, wetlands, ponds etc.	100	100	100	100
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)	98	98	98	98
Permeable pavers and permeable interlocking concrete (assumed as 85% impervious and 15% lawn)				
Fair lawn condition (weighted average CNs)	95	96	97	97
Gravel (including right-of-way)	76	85	89	91
Dirt (including right-of-way)	72	82	87	89

[a]Composite CNs may be computed for other combinations of open space cover type.

[b]Actual CN is < 30; use CN = 30 for runoff computations.

[c]The indicated CNs were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CNs for woods and pasture.

[d]CNs have not been developed for hydrologic soil group A.

Cover type and hydrologic condition	CNs for hydrologic soil group			
	A	B	C	D
Pasture, grassland, or range-continuous forage for grazing				
Poor condition (ground cover <50% or heavily grazed with no mulch)	68	79	86	89
Fair condition (ground cover 50% to 75% and not heavily grazed)	49	69	79	84
Good condition (ground cover >75% and lightly or only occasionally grazed)	39	61	74	80
Cultivated agricultural lands				
Row Crops (good) e.g., corn, sugar beets, soy beans	64	75	82	85
Small Grain (good) e.g., wheat, barley, flax	60	72	80	84
Meadow				
Continuous grass, protected from grazing and generally mowed for hay	30	58	71	78
Brush (brush-weed-grass mixture with brush the major element)				
Poor (<50% ground cover)	48	67	77	83
Fair (50% to 75% ground cover)				

[a]Composite CNs may be computed for other combinations of open space cover type.

[b]Actual CN is < 30; use CN = 30 for runoff computations.

[c]The indicated CNs were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CNs for woods and pasture.

[d]CNs have not been developed for hydrologic soil group A.

Cover type and hydrologic condition	CNs for hydrologic soil group			
	A	B	C	D
	35	56	70	77
Good (>75% ground cover)	30[b]	48	65	73
Woods-grass combination (orchard or tree farm)[c]				
Poor	57	73	82	86
Fair	43	65	76	82
Good	32	58	72	79
Woods				
Poor (Forest litter, small trees, and brush destroyed by heavy grazing or regular burning)	45	66	77	83
Fair (Woods are grazed but not burned, and some forest litter covers the soil)	36	60	73	79
Good (Woods are protected from grazing, and litter and brush adequately cover the soil)	30	55	70	77
Herbaceous (mixture of grass, weeds, and low-growing brush, with brush the minor element)				

[a]Composite CNs may be computed for other combinations of open space cover type.

[b]Actual CN is < 30; use CN = 30 for runoff computations.

[c]The indicated CNs were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CNs for woods and pasture.

[d]CNs have not been developed for hydrologic soil group A.

Cover type and hydrologic condition	CNs for hydrologic soil group			
	A	B	C	D
Poor (<30% ground cover)	n/a[d]	80	87	93
Fair (30% to 70% ground cover)		71	81	89
Good (>70% ground cover)		62	74	85
Sagebrush with grass understory				
Poor (<30% ground cover)	n/a[d]	67	80	85
Fair (30% to 70% ground cover)		51	63	70
Good (>70% ground cover)		35	47	55

[a]Composite CNs may be computed for other combinations of open space cover type.

[b]Actual CN is < 30; use CN = 30 for runoff computations.

[c]The indicated CNs were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CNs for woods and pasture.

[d]CNs have not been developed for hydrologic soil group A.

For more information: For a more detailed and complete description of land use curve numbers (CNs), see *Urban Hydrology for Small Watersheds* (USDA, 1986).

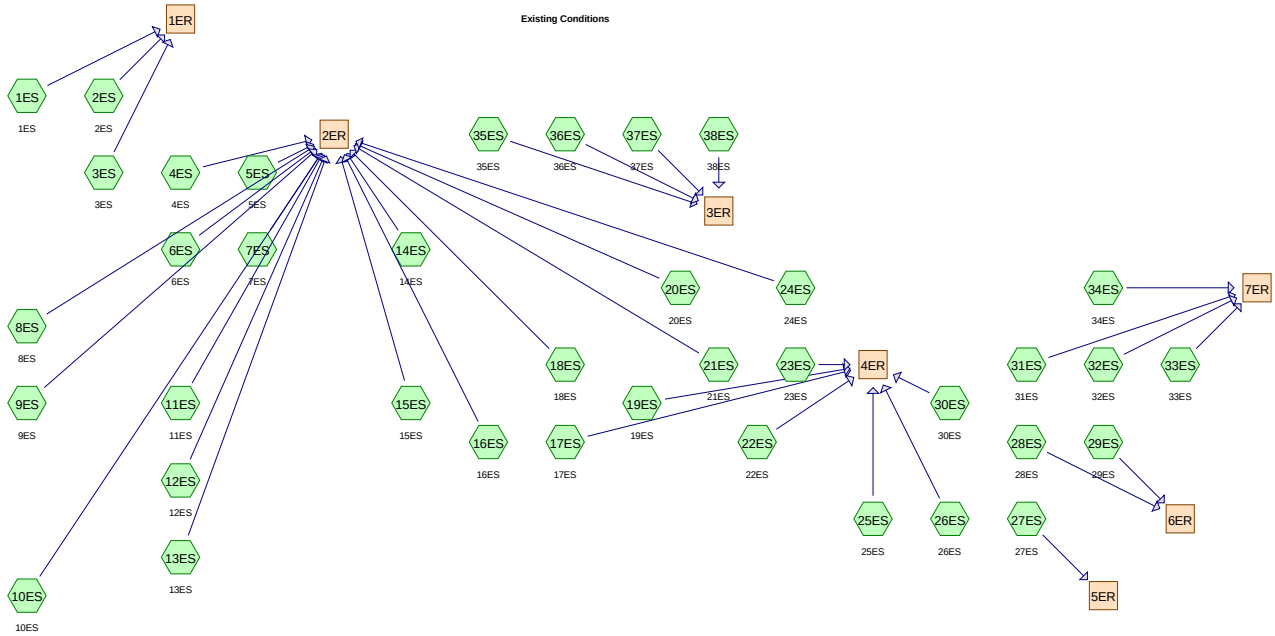
Antecedent Moisture Condition

The moisture condition in a soil at the onset of a storm event, referred to as the antecedent moisture condition (AMC), has a significant effect on both the volume and rate of runoff. Recognizing that fact, the SCS developed three antecedent soil moisture conditions (I, II, and III), which are described as follows:

- **AMC I:** Soils are dry but not to wilting point.
- **AMC II:** Average conditions.

Appendix C

Existing HydroCAD Results



Subcat Reach Pond Link

Routing Diagram for Wautoma Pre Post
Prepared by j, Printed 1/14/2022
HydroCAD® 10.10-3a s/n 03363 © 2020 HydroCAD Software Solutions LLC

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
182.770	49	Grassland, HSG A (3ES, 4ES, 5ES, 11ES, 12ES, 15ES, 16ES, 36ES, 38ES)
1,987.680	69	Grassland, HSG B (1ES, 2ES, 3ES, 4ES, 5ES, 6ES, 7ES, 8ES, 9ES, 10ES, 11ES, 12ES, 13ES, 14ES, 15ES, 16ES, 17ES, 18ES, 19ES, 20ES, 21ES, 22ES, 23ES, 24ES, 25ES, 26ES, 27ES, 28ES, 29ES, 30ES, 31ES, 32ES, 33ES, 34ES, 35ES, 36ES, 37ES, 38ES)
37.480	79	Grassland, HSG C (11ES, 15ES, 16ES, 17ES, 18ES, 38ES)
16.300	64	Straight Row Crop, HSG A (4ES, 5ES, 11ES)
753.940	75	Straight Row Crop, HSG B (4ES, 5ES, 7ES, 8ES, 11ES, 15ES)
2,978.170	**69**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
199.070	HSG A	3ES, 4ES, 5ES, 11ES, 12ES, 15ES, 16ES, 36ES, 38ES
2,741.620	HSG B	1ES, 2ES, 3ES, 4ES, 5ES, 6ES, 7ES, 8ES, 9ES, 10ES, 11ES, 12ES, 13ES, 14ES, 15ES, 16ES, 17ES, 18ES, 19ES, 20ES, 21ES, 22ES, 23ES, 24ES, 25ES, 26ES, 27ES, 28ES, 29ES, 30ES, 31ES, 32ES, 33ES, 34ES, 35ES, 36ES, 37ES, 38ES
37.480	HSG C	11ES, 15ES, 16ES, 17ES, 18ES, 38ES
0.000	HSG D	
0.000	Other	
2,978.170		**TOTAL AREA**

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
182.770	1,987.680	37.480	0.000	0.000	2,207.930	Grassland	1ES, 2ES, 3ES, 4ES, 5ES, 6ES, 7ES, 8ES, 9ES, 10ES, 11ES, 12ES, 13ES, 14ES, 15ES, 16ES, 17ES, 18ES, 19ES, 20ES, 21ES, 22ES, 23ES, 24ES, 25ES, 26ES, 27ES, 28ES, 29ES, 30ES, 31ES, 32ES, 33ES, 34ES, 35ES, 36ES, 37ES, 38ES
16.300	753.940	0.000	0.000	0.000	770.240	Straight Row Crop	4ES, 5ES, 7ES, 8ES, 11ES, 15ES
199.070	**2,741.620**	**37.480**	**0.000**	**0.000**	**2,978.170**	**TOTAL AREA**	

Summary for Subcatchment 1ES: 1ES

Runoff = 0.04 cfs @ 24.21 hrs, Volume= 0.014 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	77.590	69	Grassland, HSG B
	77.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
70.1	2,780	0.0198	0.66		**Lag/CN Method,**

Summary for Subcatchment 2ES: 2ES

Runoff = 0.00 cfs @ 24.03 hrs, Volume= 0.002 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	9.310	69	Grassland, HSG B
	9.310		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.3	835	0.0240	0.57		**Lag/CN Method,**

Summary for Subcatchment 3ES: 3ES

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	32.920	49	Grassland, HSG A
*	10.900	69	Grassland, HSG B
	43.820	54	Weighted Average
	43.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
88.1	2,481	0.0226	0.47		**Lag/CN Method,**

Summary for Subcatchment 4ES: 4ES

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	65.500	49	Grassland, HSG A
*	36.400	69	Grassland, HSG B
*	3.060	64	Straight Row Crop, HSG A
*	14.870	75	Straight Row Crop, HSG B
	119.830	59	Weighted Average
	119.830		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
176.9	6,434	0.0200	0.61		**Lag/CN Method,**

Summary for Subcatchment 5ES: 5ES

Runoff = 0.11 cfs @ 24.14 hrs, Volume= 0.079 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	6.390	49	Grassland, HSG A
*	28.940	69	Grassland, HSG B
*	9.740	64	Straight Row Crop, HSG A
*	76.010	75	Straight Row Crop, HSG B
	121.080	71	Weighted Average
	121.080		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
85.1	3,458	0.0171	0.68		**Lag/CN Method,**

Summary for Subcatchment 6ES: 6ES

Runoff = 0.01 cfs @ 24.05 hrs, Volume= 0.004 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	21.520	69	Grassland, HSG B
	21.520		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.2	917	0.0207	0.54		**Lag/CN Method,**

Summary for Subcatchment 7ES: 7ES

Runoff = 0.05 cfs @ 18.58 hrs, Volume= 0.040 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	21.440	69	Grassland, HSG B
*	18.850	75	Straight Row Crop, HSG B
	40.290	72	Weighted Average
	40.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
60.8	2,047	0.0137	0.56		**Lag/CN Method,**

Summary for Subcatchment 8ES: 8ES

Runoff = 0.04 cfs @ 15.63 hrs, Volume= 0.029 af, Depth= 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	7.250	69	Grassland, HSG B
*	12.960	75	Straight Row Crop, HSG B
	20.210	73	Weighted Average
	20.210		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.3	1,527	0.0255	0.74		**Lag/CN Method,**

Summary for Subcatchment 9ES: 9ES

Runoff = 0.01 cfs @ 24.02 hrs, Volume= 0.002 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	12.030	69	Grassland, HSG B
	12.030		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.4	805	0.0398	0.73		**Lag/CN Method,**

Summary for Subcatchment 10ES: 10ES

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	1.490	69	Grassland, HSG B
	1.490		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	284	0.0423	0.61		**Lag/CN Method,**

Summary for Subcatchment 11ES: 11ES

Runoff = 0.72 cfs @ 18.16 hrs, Volume= 0.609 af, Depth= 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	7.640	49	Grassland, HSG A
*	122.360	69	Grassland, HSG B
*	3.910	79	Grassland, HSG C
*	3.500	64	Straight Row Crop, HSG A
*	289.800	75	Straight Row Crop, HSG B
	427.210	73	Weighted Average
	427.210		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
115.9	9,180	0.0394	1.32		**Lag/CN Method,**

Summary for Subcatchment 12ES: 12ES

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	23.420	49	Grassland, HSG A
*	102.580	69	Grassland, HSG B
	126.000	65	Weighted Average
	126.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
81.5	4,460	0.0386	0.91		**Lag/CN Method,**

Summary for Subcatchment 13ES: 13ES

Runoff = 0.01 cfs @ 24.04 hrs, Volume= 0.004 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	22.630	69	Grassland, HSG B
	22.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.4	1,653	0.0563	1.00		**Lag/CN Method,**

Summary for Subcatchment 14ES: 14ES

Runoff = 0.00 cfs @ 24.05 hrs, Volume= 0.002 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	10.070	69	Grassland, HSG B
	10.070		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.1	858	0.0128	0.42		**Lag/CN Method,**

Summary for Subcatchment 15ES: 15ES

Runoff = 0.75 cfs @ 24.30 hrs, Volume= 0.549 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	35.160	49	Grassland, HSG A
*	458.060	69	Grassland, HSG B
*	4.290	79	Grassland, HSG C
*	341.450	75	Straight Row Crop, HSG B
	838.960	71	Weighted Average
	838.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
132.6	8,209	0.0281	1.03		**Lag/CN Method,**

Summary for Subcatchment 16ES: 16ES

Runoff = 0.03 cfs @ 24.48 hrs, Volume= 0.009 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	6.860	49	Grassland, HSG A
*	135.530	69	Grassland, HSG B
*	5.670	79	Grassland, HSG C
	148.060	68	Weighted Average
	148.060		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
99.4	5,558	0.0315	0.93		**Lag/CN Method,**

Summary for Subcatchment 17ES: 17ES

Runoff = 0.04 cfs @ 24.29 hrs, Volume= 0.018 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	97.680	69	Grassland, HSG B
*	0.900	79	Grassland, HSG C
	98.580	69	Weighted Average
	98.580		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.5	5,098	0.0288	0.90		**Lag/CN Method,**

Summary for Subcatchment 18ES: 18ES

Runoff = 0.08 cfs @ 24.39 hrs, Volume= 0.036 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	193.480	69	Grassland, HSG B
*	0.620	79	Grassland, HSG C
	194.100	69	Weighted Average
	194.100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
110.2	5,588	0.0245	0.84		**Lag/CN Method,**

Summary for Subcatchment 19ES: 19ES

Runoff = 0.01 cfs @ 24.08 hrs, Volume= 0.006 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	30.380	69	Grassland, HSG B
	30.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.7	1,535	0.0280	0.70		**Lag/CN Method,**

Summary for Subcatchment 20ES: 20ES

Runoff = 0.00 cfs @ 23.99 hrs, Volume= 0.001 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	5.540	69	Grassland, HSG B
	5.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	477	0.0294	0.57		**Lag/CN Method,**

Summary for Subcatchment 21ES: 21ES

Runoff = 0.03 cfs @ 24.09 hrs, Volume= 0.013 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	70.900	69	Grassland, HSG B
	70.900		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.3	2,203	0.0413	0.91		**Lag/CN Method,**

Summary for Subcatchment 22ES: 22ES

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 0.001 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	5.220	69	Grassland, HSG B
	5.220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	603	0.0763	0.96		**Lag/CN Method,**

Summary for Subcatchment 23ES: 23ES

Runoff = 0.00 cfs @ 24.02 hrs, Volume= 0.001 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	5.330	69	Grassland, HSG B
	5.330		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	473	0.0148	0.40		**Lag/CN Method,**

Summary for Subcatchment 24ES: 24ES

Runoff = 0.01 cfs @ 24.03 hrs, Volume= 0.003 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	14.000	69	Grassland, HSG B
	14.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,204	0.0532	0.92		**Lag/CN Method,**

Summary for Subcatchment 25ES: 25ES

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 0.001 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	6.880	69	Grassland, HSG B
	6.880		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	488	0.0656	0.85		**Lag/CN Method,**

Summary for Subcatchment 26ES: 26ES

Runoff = 0.07 cfs @ 24.13 hrs, Volume= 0.027 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	143.910	69	Grassland, HSG B
	143.910		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
52.6	2,319	0.0263	0.73		**Lag/CN Method,**

Summary for Subcatchment 27ES: 27ES

Runoff = 0.01 cfs @ 24.03 hrs, Volume= 0.003 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	14.570	69	Grassland, HSG B
	14.570		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.7	1,092	0.0357	0.74		**Lag/CN Method,**

Summary for Subcatchment 28ES: 28ES

Runoff = 0.04 cfs @ 24.08 hrs, Volume= 0.016 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	84.620	69	Grassland, HSG B
	84.620		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.4	1,958	0.0378	0.85		**Lag/CN Method,**

Summary for Subcatchment 29ES: 29ES

Runoff = 0.01 cfs @ 24.00 hrs, Volume= 0.002 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	10.820	69	Grassland, HSG B
	10.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	923	0.0607	0.93		**Lag/CN Method,**

Summary for Subcatchment 30ES: 30ES

Runoff = 0.02 cfs @ 24.05 hrs, Volume= 0.008 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	41.470	69	Grassland, HSG B
	41.470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.2	1,164	0.0249	0.62		**Lag/CN Method,**

Summary for Subcatchment 31ES: 31ES

Runoff = 0.01 cfs @ 24.03 hrs, Volume= 0.003 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	15.190	69	Grassland, HSG B
	15.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.2	1,250	0.0464	0.86		**Lag/CN Method,**

Summary for Subcatchment 32ES: 32ES

Runoff = 0.01 cfs @ 24.05 hrs, Volume= 0.005 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	26.370	69	Grassland, HSG B
	26.370		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.4	1,498	0.0393	0.82		**Lag/CN Method,**

Summary for Subcatchment 33ES: 33ES

Runoff = 0.00 cfs @ 24.03 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	2.140	69	Grassland, HSG B
	2.140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	813	0.0271	0.60		**Lag/CN Method,**

Summary for Subcatchment 34ES: 34ES

Runoff = 0.02 cfs @ 24.09 hrs, Volume= 0.009 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	48.580	69	Grassland, HSG B
	48.580		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.2	1,866	0.0263	0.70		**Lag/CN Method,**

Summary for Subcatchment 35ES: 35ES

Runoff = 0.01 cfs @ 23.99 hrs, Volume= 0.002 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	11.770	69	Grassland, HSG B
	11.770		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	754	0.0531	0.83		**Lag/CN Method,**

Summary for Subcatchment 36ES: 36ES

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	3.410	49	Grassland, HSG A
*	11.860	69	Grassland, HSG B
	15.270	65	Weighted Average
	15.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	962	0.0437	0.71		**Lag/CN Method,**

Summary for Subcatchment 37ES: 37ES

Runoff = 0.01 cfs @ 23.99 hrs, Volume= 0.002 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	12.020	69	Grassland, HSG B
	12.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.8	643	0.0373	0.68		**Lag/CN Method,**

Summary for Subcatchment 38ES: 38ES

Runoff = 0.07 cfs @ 24.13 hrs, Volume= 0.053 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	1.470	49	Grassland, HSG A
*	56.850	69	Grassland, HSG B
*	22.090	79	Grassland, HSG C
	80.410	71	Weighted Average
	80.410		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
80.1	3,791	0.0224	0.79		**Lag/CN Method,**

Summary for Reach 1ER:

Inflow Area = 130.720 ac, 0.00% Impervious, Inflow Depth = 0.00" for 2yr event
Inflow = 0.04 cfs @ 24.10 hrs, Volume= 0.016 af
Outflow = 0.04 cfs @ 24.10 hrs, Volume= 0.016 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 2ER:

Inflow Area = 2,193.920 ac, 0.00% Impervious, Inflow Depth = 0.01" for 2yr event
Inflow = 1.73 cfs @ 24.09 hrs, Volume= 1.382 af
Outflow = 1.73 cfs @ 24.09 hrs, Volume= 1.382 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 3ER:

Inflow Area = 119.470 ac, 0.00% Impervious, Inflow Depth = 0.01" for 2yr event
Inflow = 0.08 cfs @ 24.02 hrs, Volume= 0.057 af
Outflow = 0.08 cfs @ 24.02 hrs, Volume= 0.057 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 4ER:

Inflow Area = 331.770 ac, 0.00% Impervious, Inflow Depth = 0.00" for 2yr event
Inflow = 0.15 cfs @ 24.04 hrs, Volume= 0.062 af
Outflow = 0.15 cfs @ 24.04 hrs, Volume= 0.062 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 5ER:

Inflow Area = 14.570 ac, 0.00% Impervious, Inflow Depth = 0.00" for 2yr event
Inflow = 0.01 cfs @ 24.03 hrs, Volume= 0.003 af
Outflow = 0.01 cfs @ 24.03 hrs, Volume= 0.003 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 6ER:

Inflow Area = 95.440 ac, 0.00% Impervious, Inflow Depth = 0.00" for 2yr event
Inflow = 0.04 cfs @ 24.04 hrs, Volume= 0.018 af
Outflow = 0.04 cfs @ 24.04 hrs, Volume= 0.018 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 7ER:

Inflow Area = 92.280 ac, 0.00% Impervious, Inflow Depth = 0.00" for 2yr event
Inflow = 0.04 cfs @ 24.05 hrs, Volume= 0.017 af
Outflow = 0.04 cfs @ 24.05 hrs, Volume= 0.017 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Subcatchment 1ES: 1ES

Runoff = 1.26 cfs @ 13.22 hrs, Volume= 0.612 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	77.590	69	Grassland, HSG B
	77.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
70.1	2,780	0.0198	0.66		**Lag/CN Method,**

Summary for Subcatchment 2ES: 2ES

Runoff = 0.22 cfs @ 12.37 hrs, Volume= 0.073 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	9.310	69	Grassland, HSG B
	9.310		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.3	835	0.0240	0.57		**Lag/CN Method,**

Summary for Subcatchment 3ES: 3ES

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	32.920	49	Grassland, HSG A
*	10.900	69	Grassland, HSG B
	43.820	54	Weighted Average
	43.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
88.1	2,481	0.0226	0.47		**Lag/CN Method,**

Summary for Subcatchment 4ES: 4ES

Runoff = 0.11 cfs @ 24.60 hrs, Volume= 0.062 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	65.500	49	Grassland, HSG A
*	36.400	69	Grassland, HSG B
*	3.060	64	Straight Row Crop, HSG A
*	14.870	75	Straight Row Crop, HSG B
	119.830	59	Weighted Average
	119.830		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
176.9	6,434	0.0200	0.61		**Lag/CN Method,**

Summary for Subcatchment 5ES: 5ES

Runoff = 3.01 cfs @ 13.36 hrs, Volume= 1.271 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	6.390	49	Grassland, HSG A
*	28.940	69	Grassland, HSG B
*	9.740	64	Straight Row Crop, HSG A
*	76.010	75	Straight Row Crop, HSG B
	121.080	71	Weighted Average
	121.080		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
85.1	3,458	0.0171	0.68		**Lag/CN Method,**

Summary for Subcatchment 6ES: 6ES

Runoff = 0.50 cfs @ 12.45 hrs, Volume= 0.170 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	21.520	69	Grassland, HSG B
	21.520		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.2	917	0.0207	0.54		**Lag/CN Method,**

Summary for Subcatchment 7ES: 7ES

Runoff = 1.50 cfs @ 12.91 hrs, Volume= 0.482 af, Depth= 0.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	21.440	69	Grassland, HSG B
*	18.850	75	Straight Row Crop, HSG B
	40.290	72	Weighted Average
	40.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
60.8	2,047	0.0137	0.56		**Lag/CN Method,**

Summary for Subcatchment 8ES: 8ES

Runoff = 1.30 cfs @ 12.43 hrs, Volume= 0.273 af, Depth= 0.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	7.250	69	Grassland, HSG B
*	12.960	75	Straight Row Crop, HSG B
	20.210	73	Weighted Average
	20.210		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.3	1,527	0.0255	0.74		**Lag/CN Method,**

Summary for Subcatchment 9ES: 9ES

Runoff = 0.33 cfs @ 12.25 hrs, Volume= 0.095 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	12.030	69	Grassland, HSG B
	12.030		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.4	805	0.0398	0.73		**Lag/CN Method,**

Summary for Subcatchment 10ES: 10ES

Runoff = 0.06 cfs @ 12.06 hrs, Volume= 0.012 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	1.490	69	Grassland, HSG B
	1.490		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	284	0.0423	0.61		**Lag/CN Method,**

Summary for Subcatchment 11ES: 11ES

Runoff = 13.47 cfs @ 13.80 hrs, Volume= 5.779 af, Depth= 0.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	7.640	49	Grassland, HSG A
*	122.360	69	Grassland, HSG B
*	3.910	79	Grassland, HSG C
*	3.500	64	Straight Row Crop, HSG A
*	289.800	75	Straight Row Crop, HSG B
	427.210	73	Weighted Average
	427.210		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
115.9	9,180	0.0394	1.32		**Lag/CN Method,**

Summary for Subcatchment 12ES: 12ES

Runoff = 0.64 cfs @ 14.61 hrs, Volume= 0.486 af, Depth= 0.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	23.420	49	Grassland, HSG A
*	102.580	69	Grassland, HSG B
	126.000	65	Weighted Average
	126.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
81.5	4,460	0.0386	0.91		**Lag/CN Method,**

Summary for Subcatchment 13ES: 13ES

Runoff = 0.52 cfs @ 12.44 hrs, Volume= 0.179 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	22.630	69	Grassland, HSG B
	22.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.4	1,653	0.0563	1.00		**Lag/CN Method,**

Summary for Subcatchment 14ES: 14ES

Runoff = 0.22 cfs @ 12.56 hrs, Volume= 0.079 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	10.070	69	Grassland, HSG B
	10.070		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.1	858	0.0128	0.42		**Lag/CN Method,**

Summary for Subcatchment 15ES: 15ES

Runoff = 16.60 cfs @ 14.17 hrs, Volume= 8.808 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	35.160	49	Grassland, HSG A
*	458.060	69	Grassland, HSG B
*	4.290	79	Grassland, HSG C
*	341.450	75	Straight Row Crop, HSG B
	838.960	71	Weighted Average
	838.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
132.6	8,209	0.0281	1.03		**Lag/CN Method,**

Summary for Subcatchment 16ES: 16ES

Runoff = 1.67 cfs @ 13.94 hrs, Volume= 0.998 af, Depth= 0.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	6.860	49	Grassland, HSG A
*	135.530	69	Grassland, HSG B
*	5.670	79	Grassland, HSG C
	148.060	68	Weighted Average
	148.060		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
99.4	5,558	0.0315	0.93		**Lag/CN Method,**

Summary for Subcatchment 17ES: 17ES

Runoff = 1.44 cfs @ 13.73 hrs, Volume= 0.778 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	97.680	69	Grassland, HSG B
*	0.900	79	Grassland, HSG C
	98.580	69	Weighted Average
	98.580		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.5	5,098	0.0288	0.90		**Lag/CN Method,**

Summary for Subcatchment 18ES: 18ES

Runoff = 2.65 cfs @ 14.03 hrs, Volume= 1.532 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	193.480	69	Grassland, HSG B
*	0.620	79	Grassland, HSG C
	194.100	69	Weighted Average
	194.100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
110.2	5,588	0.0245	0.84		**Lag/CN Method,**

Summary for Subcatchment 19ES: 19ES

Runoff = 0.64 cfs @ 12.61 hrs, Volume= 0.240 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	30.380	69	Grassland, HSG B
	30.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.7	1,535	0.0280	0.70		**Lag/CN Method,**

Summary for Subcatchment 20ES: 20ES

Runoff = 0.17 cfs @ 12.17 hrs, Volume= 0.044 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	5.540	69	Grassland, HSG B
	5.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	477	0.0294	0.57		**Lag/CN Method,**

Summary for Subcatchment 21ES: 21ES

Runoff = 1.45 cfs @ 12.67 hrs, Volume= 0.560 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	70.900	69	Grassland, HSG B
	70.900		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.3	2,203	0.0413	0.91		**Lag/CN Method,**

Summary for Subcatchment 22ES: 22ES

Runoff = 0.19 cfs @ 12.11 hrs, Volume= 0.041 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	5.220	69	Grassland, HSG B
	5.220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	603	0.0763	0.96		**Lag/CN Method,**

Summary for Subcatchment 23ES: 23ES

Runoff = 0.14 cfs @ 12.27 hrs, Volume= 0.042 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	5.330	69	Grassland, HSG B
	5.330		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	473	0.0148	0.40		**Lag/CN Method,**

Summary for Subcatchment 24ES: 24ES

Runoff = 0.35 cfs @ 12.32 hrs, Volume= 0.111 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	14.000	69	Grassland, HSG B
	14.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,204	0.0532	0.92		**Lag/CN Method,**

Summary for Subcatchment 25ES: 25ES

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 0.054 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	6.880	69	Grassland, HSG B
	6.880		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	488	0.0656	0.85		**Lag/CN Method,**

Summary for Subcatchment 26ES: 26ES

Runoff = 2.67 cfs @ 12.91 hrs, Volume= 1.136 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	143.910	69	Grassland, HSG B
	143.910		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
52.6	2,319	0.0263	0.73		**Lag/CN Method,**

Summary for Subcatchment 27ES: 27ES

Runoff = 0.35 cfs @ 12.37 hrs, Volume= 0.115 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	14.570	69	Grassland, HSG B
	14.570		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.7	1,092	0.0357	0.74		**Lag/CN Method,**

Summary for Subcatchment 28ES: 28ES

Runoff = 1.75 cfs @ 12.65 hrs, Volume= 0.668 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	84.620	69	Grassland, HSG B
	84.620		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.4	1,958	0.0378	0.85		**Lag/CN Method,**

Summary for Subcatchment 29ES: 29ES

Runoff = 0.31 cfs @ 12.21 hrs, Volume= 0.085 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	10.820	69	Grassland, HSG B
	10.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	923	0.0607	0.93		**Lag/CN Method,**

Summary for Subcatchment 30ES: 30ES

Runoff = 0.92 cfs @ 12.51 hrs, Volume= 0.327 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	41.470	69	Grassland, HSG B
	41.470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.2	1,164	0.0249	0.62		**Lag/CN Method,**

Summary for Subcatchment 31ES: 31ES

Runoff = 0.37 cfs @ 12.37 hrs, Volume= 0.120 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	15.190	69	Grassland, HSG B
	15.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.2	1,250	0.0464	0.86		**Lag/CN Method,**

Summary for Subcatchment 32ES: 32ES

Runoff = 0.59 cfs @ 12.50 hrs, Volume= 0.208 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	26.370	69	Grassland, HSG B
	26.370		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.4	1,498	0.0393	0.82		**Lag/CN Method,**

Summary for Subcatchment 33ES: 33ES

Runoff = 0.05 cfs @ 12.33 hrs, Volume= 0.017 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	2.140	69	Grassland, HSG B
	2.140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	813	0.0271	0.60		**Lag/CN Method,**

Summary for Subcatchment 34ES: 34ES

Runoff = 0.95 cfs @ 12.74 hrs, Volume= 0.383 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	48.580	69	Grassland, HSG B
	48.580		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.2	1,866	0.0263	0.70		**Lag/CN Method,**

Summary for Subcatchment 35ES: 35ES

Runoff = 0.35 cfs @ 12.18 hrs, Volume= 0.093 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	11.770	69	Grassland, HSG B
	11.770		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	754	0.0531	0.83		**Lag/CN Method,**

Summary for Subcatchment 36ES: 36ES

Runoff = 0.09 cfs @ 13.42 hrs, Volume= 0.059 af, Depth= 0.05"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	3.410	49	Grassland, HSG A
*	11.860	69	Grassland, HSG B
	15.270	65	Weighted Average
	15.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	962	0.0437	0.71		**Lag/CN Method,**

Summary for Subcatchment 37ES: 37ES

Runoff = 0.35 cfs @ 12.20 hrs, Volume= 0.095 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	12.020	69	Grassland, HSG B
	12.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.8	643	0.0373	0.68		**Lag/CN Method,**

Summary for Subcatchment 38ES: 38ES

Runoff = 2.05 cfs @ 13.27 hrs, Volume= 0.844 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	1.470	49	Grassland, HSG A
*	56.850	69	Grassland, HSG B
*	22.090	79	Grassland, HSG C
	80.410	71	Weighted Average
	80.410		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
80.1	3,791	0.0224	0.79		**Lag/CN Method,**

Summary for Reach 1ER:

Inflow Area = 130.720 ac, 0.00% Impervious, Inflow Depth = 0.06" for 10yr event
Inflow = 1.40 cfs @ 13.19 hrs, Volume= 0.686 af
Outflow = 1.40 cfs @ 13.19 hrs, Volume= 0.686 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 2ER:

Inflow Area = 2,193.920 ac, 0.00% Impervious, Inflow Depth = 0.11" for 10yr event
Inflow = 39.99 cfs @ 13.93 hrs, Volume= 20.941 af
Outflow = 39.99 cfs @ 13.93 hrs, Volume= 20.941 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 3ER:

Inflow Area = 119.470 ac, 0.00% Impervious, Inflow Depth = 0.11" for 10yr event
Inflow = 2.45 cfs @ 13.25 hrs, Volume= 1.091 af
Outflow = 2.45 cfs @ 13.25 hrs, Volume= 1.091 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 4ER:

Inflow Area = 331.770 ac, 0.00% Impervious, Inflow Depth = 0.09" for 10yr event
Inflow = 5.08 cfs @ 12.97 hrs, Volume= 2.619 af
Outflow = 5.08 cfs @ 12.97 hrs, Volume= 2.619 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 5ER:

Inflow Area = 14.570 ac, 0.00% Impervious, Inflow Depth = 0.09" for 10yr event
Inflow = 0.35 cfs @ 12.37 hrs, Volume= 0.115 af
Outflow = 0.35 cfs @ 12.37 hrs, Volume= 0.115 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 6ER:

Inflow Area = 95.440 ac, 0.00% Impervious, Inflow Depth = 0.09" for 10yr event
Inflow = 1.96 cfs @ 12.63 hrs, Volume= 0.753 af
Outflow = 1.96 cfs @ 12.63 hrs, Volume= 0.753 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 7ER:

Inflow Area = 92.280 ac, 0.00% Impervious, Inflow Depth = 0.09" for 10yr event
Inflow = 1.85 cfs @ 12.66 hrs, Volume= 0.728 af
Outflow = 1.85 cfs @ 12.66 hrs, Volume= 0.728 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Subcatchment 1ES: 1ES

Runoff = 2.63 cfs @ 13.08 hrs, Volume= 0.974 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	77.590	69	Grassland, HSG B
	77.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
70.1	2,780	0.0198	0.66		**Lag/CN Method,**

Summary for Subcatchment 2ES: 2ES

Runoff = 0.56 cfs @ 12.29 hrs, Volume= 0.117 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	9.310	69	Grassland, HSG B
	9.310		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.3	835	0.0240	0.57		**Lag/CN Method,**

Summary for Subcatchment 3ES: 3ES

Runoff = 0.02 cfs @ 24.41 hrs, Volume= 0.004 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	32.920	49	Grassland, HSG A
*	10.900	69	Grassland, HSG B
	43.820	54	Weighted Average
	43.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
88.1	2,481	0.0226	0.47		**Lag/CN Method,**

Summary for Subcatchment 4ES: 4ES

Runoff = 0.28 cfs @ 20.25 hrs, Volume= 0.228 af, Depth= 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	65.500	49	Grassland, HSG A
*	36.400	69	Grassland, HSG B
*	3.060	64	Straight Row Crop, HSG A
*	14.870	75	Straight Row Crop, HSG B
	119.830	59	Weighted Average
	119.830		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
176.9	6,434	0.0200	0.61		**Lag/CN Method,**

Summary for Subcatchment 5ES: 5ES

Runoff = 5.42 cfs @ 13.25 hrs, Volume= 1.924 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	6.390	49	Grassland, HSG A
*	28.940	69	Grassland, HSG B
*	9.740	64	Straight Row Crop, HSG A
*	76.010	75	Straight Row Crop, HSG B
	121.080	71	Weighted Average
	121.080		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
85.1	3,458	0.0171	0.68		**Lag/CN Method,**

Summary for Subcatchment 6ES: 6ES

Runoff = 1.19 cfs @ 12.36 hrs, Volume= 0.270 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	21.520	69	Grassland, HSG B
	21.520		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.2	917	0.0207	0.54		**Lag/CN Method,**

Summary for Subcatchment 7ES: 7ES

Runoff = 2.66 cfs @ 12.83 hrs, Volume= 0.714 af, Depth= 0.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	21.440	69	Grassland, HSG B
*	18.850	75	Straight Row Crop, HSG B
	40.290	72	Weighted Average
	40.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
60.8	2,047	0.0137	0.56		**Lag/CN Method,**

Summary for Subcatchment 8ES: 8ES

Runoff = 2.31 cfs @ 12.40 hrs, Volume= 0.398 af, Depth= 0.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	7.250	69	Grassland, HSG B
*	12.960	75	Straight Row Crop, HSG B
	20.210	73	Weighted Average
	20.210		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.3	1,527	0.0255	0.74		**Lag/CN Method,**

Summary for Subcatchment 9ES: 9ES

Runoff = 0.87 cfs @ 12.20 hrs, Volume= 0.151 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	12.030	69	Grassland, HSG B
	12.030		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.4	805	0.0398	0.73		**Lag/CN Method,**

Summary for Subcatchment 10ES: 10ES

Runoff = 0.18 cfs @ 12.04 hrs, Volume= 0.019 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	1.490	69	Grassland, HSG B
	1.490		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	284	0.0423	0.61		**Lag/CN Method,**

Summary for Subcatchment 11ES: 11ES

Runoff = 21.99 cfs @ 13.69 hrs, Volume= 8.410 af, Depth= 0.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	7.640	49	Grassland, HSG A
*	122.360	69	Grassland, HSG B
*	3.910	79	Grassland, HSG C
*	3.500	64	Straight Row Crop, HSG A
*	289.800	75	Straight Row Crop, HSG B
	427.210	73	Weighted Average
	427.210		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
115.9	9,180	0.0394	1.32		**Lag/CN Method,**

Summary for Subcatchment 12ES: 12ES

Runoff = 1.53 cfs @ 13.69 hrs, Volume= 0.899 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	23.420	49	Grassland, HSG A
*	102.580	69	Grassland, HSG B
	126.000	65	Weighted Average
	126.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
81.5	4,460	0.0386	0.91		**Lag/CN Method,**

Summary for Subcatchment 13ES: 13ES

Runoff = 1.28 cfs @ 12.35 hrs, Volume= 0.284 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	22.630	69	Grassland, HSG B
	22.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.4	1,653	0.0563	1.00		**Lag/CN Method,**

Summary for Subcatchment 14ES: 14ES

Runoff = 0.50 cfs @ 12.46 hrs, Volume= 0.126 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	10.070	69	Grassland, HSG B
	10.070		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.1	858	0.0128	0.42		**Lag/CN Method,**

Summary for Subcatchment 15ES: 15ES

Runoff = 29.01 cfs @ 14.02 hrs, Volume= 13.334 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	35.160	49	Grassland, HSG A
*	458.060	69	Grassland, HSG B
*	4.290	79	Grassland, HSG C
*	341.450	75	Straight Row Crop, HSG B
	838.960	71	Weighted Average
	838.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
132.6	8,209	0.0281	1.03		**Lag/CN Method,**

Summary for Subcatchment 16ES: 16ES

Runoff = 3.42 cfs @ 13.64 hrs, Volume= 1.635 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	6.860	49	Grassland, HSG A
*	135.530	69	Grassland, HSG B
*	5.670	79	Grassland, HSG C
	148.060	68	Weighted Average
	148.060		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
99.4	5,558	0.0315	0.93		**Lag/CN Method,**

Summary for Subcatchment 17ES: 17ES

Runoff = 2.83 cfs @ 13.49 hrs, Volume= 1.238 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	97.680	69	Grassland, HSG B
*	0.900	79	Grassland, HSG C
	98.580	69	Weighted Average
	98.580		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.5	5,098	0.0288	0.90		**Lag/CN Method,**

Summary for Subcatchment 18ES: 18ES

Runoff = 5.14 cfs @ 13.76 hrs, Volume= 2.437 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	193.480	69	Grassland, HSG B
*	0.620	79	Grassland, HSG C
	194.100	69	Weighted Average
	194.100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
110.2	5,588	0.0245	0.84		**Lag/CN Method,**

Summary for Subcatchment 19ES: 19ES

Runoff = 1.46 cfs @ 12.51 hrs, Volume= 0.381 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	30.380	69	Grassland, HSG B
	30.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.7	1,535	0.0280	0.70		**Lag/CN Method,**

Summary for Subcatchment 20ES: 20ES

Runoff = 0.47 cfs @ 12.13 hrs, Volume= 0.070 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	5.540	69	Grassland, HSG B
	5.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	477	0.0294	0.57		**Lag/CN Method,**

Summary for Subcatchment 21ES: 21ES

Runoff = 3.24 cfs @ 12.57 hrs, Volume= 0.890 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	70.900	69	Grassland, HSG B
	70.900		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.3	2,203	0.0413	0.91		**Lag/CN Method,**

Summary for Subcatchment 22ES: 22ES

Runoff = 0.53 cfs @ 12.08 hrs, Volume= 0.066 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	5.220	69	Grassland, HSG B
	5.220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	603	0.0763	0.96		**Lag/CN Method,**

Summary for Subcatchment 23ES: 23ES

Runoff = 0.37 cfs @ 12.22 hrs, Volume= 0.067 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	5.330	69	Grassland, HSG B
	5.330		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	473	0.0148	0.40		**Lag/CN Method,**

Summary for Subcatchment 24ES: 24ES

Runoff = 0.90 cfs @ 12.25 hrs, Volume= 0.176 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	14.000	69	Grassland, HSG B
	14.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,204	0.0532	0.92		**Lag/CN Method,**

Summary for Subcatchment 25ES: 25ES

Runoff = 0.75 cfs @ 12.07 hrs, Volume= 0.086 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	6.880	69	Grassland, HSG B
	6.880		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	488	0.0656	0.85		**Lag/CN Method,**

Summary for Subcatchment 26ES: 26ES

Runoff = 5.71 cfs @ 12.78 hrs, Volume= 1.807 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	143.910	69	Grassland, HSG B
	143.910		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
52.6	2,319	0.0263	0.73		**Lag/CN Method,**

Summary for Subcatchment 27ES: 27ES

Runoff = 0.87 cfs @ 12.30 hrs, Volume= 0.183 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	14.570	69	Grassland, HSG B
	14.570		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.7	1,092	0.0357	0.74		**Lag/CN Method,**

Summary for Subcatchment 28ES: 28ES

Runoff = 3.98 cfs @ 12.54 hrs, Volume= 1.062 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	84.620	69	Grassland, HSG B
	84.620		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.4	1,958	0.0378	0.85		**Lag/CN Method,**

Summary for Subcatchment 29ES: 29ES

Runoff = 0.84 cfs @ 12.17 hrs, Volume= 0.136 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	10.820	69	Grassland, HSG B
	10.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	923	0.0607	0.93		**Lag/CN Method,**

Summary for Subcatchment 30ES: 30ES

Runoff = 2.18 cfs @ 12.41 hrs, Volume= 0.521 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	41.470	69	Grassland, HSG B
	41.470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.2	1,164	0.0249	0.62		**Lag/CN Method,**

Summary for Subcatchment 31ES: 31ES

Runoff = 0.92 cfs @ 12.29 hrs, Volume= 0.191 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	15.190	69	Grassland, HSG B
	15.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.2	1,250	0.0464	0.86		**Lag/CN Method,**

Summary for Subcatchment 32ES: 32ES

Runoff = 1.41 cfs @ 12.40 hrs, Volume= 0.331 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	26.370	69	Grassland, HSG B
	26.370		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.4	1,498	0.0393	0.82		**Lag/CN Method,**

Summary for Subcatchment 33ES: 33ES

Runoff = 0.14 cfs @ 12.26 hrs, Volume= 0.027 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	2.140	69	Grassland, HSG B
	2.140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	813	0.0271	0.60		**Lag/CN Method,**

Summary for Subcatchment 34ES: 34ES

Runoff = 2.12 cfs @ 12.64 hrs, Volume= 0.610 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	48.580	69	Grassland, HSG B
	48.580		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.2	1,866	0.0263	0.70		**Lag/CN Method,**

Summary for Subcatchment 35ES: 35ES

Runoff = 0.96 cfs @ 12.15 hrs, Volume= 0.148 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	11.770	69	Grassland, HSG B
	11.770		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	754	0.0531	0.83		**Lag/CN Method,**

Summary for Subcatchment 36ES: 36ES

Runoff = 0.26 cfs @ 12.53 hrs, Volume= 0.109 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	3.410	49	Grassland, HSG A
*	11.860	69	Grassland, HSG B
	15.270	65	Weighted Average
	15.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	962	0.0437	0.71		**Lag/CN Method,**

Summary for Subcatchment 37ES: 37ES

Runoff = 0.96 cfs @ 12.16 hrs, Volume= 0.151 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	12.020	69	Grassland, HSG B
	12.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.8	643	0.0373	0.68		**Lag/CN Method,**

Summary for Subcatchment 38ES: 38ES

Runoff = 3.72 cfs @ 13.16 hrs, Volume= 1.278 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	1.470	49	Grassland, HSG A
*	56.850	69	Grassland, HSG B
*	22.090	79	Grassland, HSG C
	80.410	71	Weighted Average
	80.410		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
80.1	3,791	0.0224	0.79		**Lag/CN Method,**

Summary for Reach 1ER:

Inflow Area = 130.720 ac, 0.00% Impervious, Inflow Depth = 0.10" for 25yr event
Inflow = 2.87 cfs @ 13.06 hrs, Volume= 1.095 af
Outflow = 2.87 cfs @ 13.06 hrs, Volume= 1.095 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 2ER:

Inflow Area = 2,193.920 ac, 0.00% Impervious, Inflow Depth = 0.17" for 25yr event
Inflow = 69.57 cfs @ 13.75 hrs, Volume= 31.965 af
Outflow = 69.57 cfs @ 13.75 hrs, Volume= 31.965 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 3ER:

Inflow Area = 119.470 ac, 0.00% Impervious, Inflow Depth = 0.17" for 25yr event
Inflow = 4.44 cfs @ 13.12 hrs, Volume= 1.686 af
Outflow = 4.44 cfs @ 13.12 hrs, Volume= 1.686 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 4ER:

Inflow Area = 331.770 ac, 0.00% Impervious, Inflow Depth = 0.15" for 25yr event
Inflow = 10.49 cfs @ 12.79 hrs, Volume= 4.165 af
Outflow = 10.49 cfs @ 12.79 hrs, Volume= 4.165 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 5ER:

Inflow Area = 14.570 ac, 0.00% Impervious, Inflow Depth = 0.15" for 25yr event
Inflow = 0.87 cfs @ 12.30 hrs, Volume= 0.183 af
Outflow = 0.87 cfs @ 12.30 hrs, Volume= 0.183 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 6ER:

Inflow Area = 95.440 ac, 0.00% Impervious, Inflow Depth = 0.15" for 25yr event
Inflow = 4.39 cfs @ 12.52 hrs, Volume= 1.198 af
Outflow = 4.39 cfs @ 12.52 hrs, Volume= 1.198 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 7ER:

Inflow Area = 92.280 ac, 0.00% Impervious, Inflow Depth = 0.15" for 25yr event
Inflow = 4.09 cfs @ 12.49 hrs, Volume= 1.158 af
Outflow = 4.09 cfs @ 12.49 hrs, Volume= 1.158 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Subcatchment 1ES: 1ES

Runoff = 6.84 cfs @ 12.95 hrs, Volume= 1.890 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	77.590	69	Grassland, HSG B
	77.590		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
70.1	2,780	0.0198	0.66		**Lag/CN Method,**

Summary for Subcatchment 2ES: 2ES

Runoff = 1.68 cfs @ 12.25 hrs, Volume= 0.227 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	9.310	69	Grassland, HSG B
	9.310		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.3	835	0.0240	0.57		**Lag/CN Method,**

Summary for Subcatchment 3ES: 3ES

Runoff = 0.12 cfs @ 18.89 hrs, Volume= 0.100 af, Depth= 0.03"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	32.920	49	Grassland, HSG A
*	10.900	69	Grassland, HSG B
	43.820	54	Weighted Average
	43.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
88.1	2,481	0.0226	0.47		**Lag/CN Method,**

Summary for Subcatchment 4ES: 4ES

Runoff = 1.05 cfs @ 16.10 hrs, Volume= 0.845 af, Depth= 0.08"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	65.500	49	Grassland, HSG A
*	36.400	69	Grassland, HSG B
*	3.060	64	Straight Row Crop, HSG A
*	14.870	75	Straight Row Crop, HSG B
	119.830	59	Weighted Average
	119.830		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
176.9	6,434	0.0200	0.61		**Lag/CN Method,**

Summary for Subcatchment 5ES: 5ES

Runoff = 12.24 cfs @ 13.15 hrs, Volume= 3.530 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	6.390	49	Grassland, HSG A
*	28.940	69	Grassland, HSG B
*	9.740	64	Straight Row Crop, HSG A
*	76.010	75	Straight Row Crop, HSG B
	121.080	71	Weighted Average
	121.080		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
85.1	3,458	0.0171	0.68		**Lag/CN Method,**

Summary for Subcatchment 6ES: 6ES

Runoff = 3.50 cfs @ 12.30 hrs, Volume= 0.524 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	21.520	69	Grassland, HSG B
	21.520		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.2	917	0.0207	0.54		**Lag/CN Method,**

Summary for Subcatchment 7ES: 7ES

Runoff = 5.87 cfs @ 12.77 hrs, Volume= 1.279 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	21.440	69	Grassland, HSG B
*	18.850	75	Straight Row Crop, HSG B
	40.290	72	Weighted Average
	40.290		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
60.8	2,047	0.0137	0.56		**Lag/CN Method,**

Summary for Subcatchment 8ES: 8ES

Runoff = 4.99 cfs @ 12.36 hrs, Volume= 0.696 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	7.250	69	Grassland, HSG B
*	12.960	75	Straight Row Crop, HSG B
	20.210	73	Weighted Average
	20.210		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.3	1,527	0.0255	0.74		**Lag/CN Method,**

Summary for Subcatchment 9ES: 9ES

Runoff = 2.64 cfs @ 12.16 hrs, Volume= 0.293 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	12.030	69	Grassland, HSG B
	12.030		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.4	805	0.0398	0.73		**Lag/CN Method,**

Summary for Subcatchment 10ES: 10ES

Runoff = 0.53 cfs @ 12.02 hrs, Volume= 0.036 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	1.490	69	Grassland, HSG B
	1.490		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.7	284	0.0423	0.61		**Lag/CN Method,**

Summary for Subcatchment 11ES: 11ES

Runoff = 44.40 cfs @ 13.56 hrs, Volume= 14.715 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	7.640	49	Grassland, HSG A
*	122.360	69	Grassland, HSG B
*	3.910	79	Grassland, HSG C
*	3.500	64	Straight Row Crop, HSG A
*	289.800	75	Straight Row Crop, HSG B
	427.210	73	Weighted Average
	427.210		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
115.9	9,180	0.0394	1.32		**Lag/CN Method,**

Summary for Subcatchment 12ES: 12ES

Runoff = 5.21 cfs @ 13.25 hrs, Volume= 2.035 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	23.420	49	Grassland, HSG A
*	102.580	69	Grassland, HSG B
	126.000	65	Weighted Average
	126.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
81.5	4,460	0.0386	0.91		**Lag/CN Method,**

Summary for Subcatchment 13ES: 13ES

Runoff = 3.76 cfs @ 12.29 hrs, Volume= 0.551 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	22.630	69	Grassland, HSG B
	22.630		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.4	1,653	0.0563	1.00		**Lag/CN Method,**

Summary for Subcatchment 14ES: 14ES

Runoff = 1.44 cfs @ 12.40 hrs, Volume= 0.245 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	10.070	69	Grassland, HSG B
	10.070		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.1	858	0.0128	0.42		**Lag/CN Method,**

Summary for Subcatchment 15ES: 15ES

Runoff = 63.04 cfs @ 13.87 hrs, Volume= 24.461 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	35.160	49	Grassland, HSG A
*	458.060	69	Grassland, HSG B
*	4.290	79	Grassland, HSG C
*	341.450	75	Straight Row Crop, HSG B
	838.960	71	Weighted Average
	838.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
132.6	8,209	0.0281	1.03		**Lag/CN Method,**

Summary for Subcatchment 16ES: 16ES

Runoff = 8.94 cfs @ 13.43 hrs, Volume= 3.278 af, Depth= 0.27"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	6.860	49	Grassland, HSG A
*	135.530	69	Grassland, HSG B
*	5.670	79	Grassland, HSG C
	148.060	68	Weighted Average
	148.060		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
99.4	5,558	0.0315	0.93		**Lag/CN Method,**

Summary for Subcatchment 17ES: 17ES

Runoff = 7.07 cfs @ 13.34 hrs, Volume= 2.401 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	97.680	69	Grassland, HSG B
*	0.900	79	Grassland, HSG C
	98.580	69	Weighted Average
	98.580		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.5	5,098	0.0288	0.90		**Lag/CN Method,**

Summary for Subcatchment 18ES: 18ES

Runoff = 12.62 cfs @ 13.59 hrs, Volume= 4.728 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	193.480	69	Grassland, HSG B
*	0.620	79	Grassland, HSG C
	194.100	69	Weighted Average
	194.100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
110.2	5,588	0.0245	0.84		**Lag/CN Method,**

Summary for Subcatchment 19ES: 19ES

Runoff = 4.13 cfs @ 12.44 hrs, Volume= 0.740 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	30.380	69	Grassland, HSG B
	30.380		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.7	1,535	0.0280	0.70		**Lag/CN Method,**

Summary for Subcatchment 20ES: 20ES

Runoff = 1.45 cfs @ 12.10 hrs, Volume= 0.135 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	5.540	69	Grassland, HSG B
	5.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	477	0.0294	0.57		**Lag/CN Method,**

Summary for Subcatchment 21ES: 21ES

Runoff = 9.04 cfs @ 12.49 hrs, Volume= 1.727 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	70.900	69	Grassland, HSG B
	70.900		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.3	2,203	0.0413	0.91		**Lag/CN Method,**

Summary for Subcatchment 22ES: 22ES

Runoff = 1.63 cfs @ 12.06 hrs, Volume= 0.127 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	5.220	69	Grassland, HSG B
	5.220		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.5	603	0.0763	0.96		**Lag/CN Method,**

Summary for Subcatchment 23ES: 23ES

Runoff = 1.11 cfs @ 12.18 hrs, Volume= 0.130 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	5.330	69	Grassland, HSG B
	5.330		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.7	473	0.0148	0.40		**Lag/CN Method,**

Summary for Subcatchment 24ES: 24ES

Runoff = 2.72 cfs @ 12.21 hrs, Volume= 0.341 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	14.000	69	Grassland, HSG B
	14.000		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,204	0.0532	0.92		**Lag/CN Method,**

Summary for Subcatchment 25ES: 25ES

Runoff = 2.23 cfs @ 12.05 hrs, Volume= 0.168 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	6.880	69	Grassland, HSG B
	6.880		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	488	0.0656	0.85		**Lag/CN Method,**

Summary for Subcatchment 26ES: 26ES

Runoff = 15.35 cfs @ 12.69 hrs, Volume= 3.506 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	143.910	69	Grassland, HSG B
	143.910		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
52.6	2,319	0.0263	0.73		**Lag/CN Method,**

Summary for Subcatchment 27ES: 27ES

Runoff = 2.60 cfs @ 12.25 hrs, Volume= 0.355 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	14.570	69	Grassland, HSG B
	14.570		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.7	1,092	0.0357	0.74		**Lag/CN Method,**

Summary for Subcatchment 28ES: 28ES

Runoff = 11.14 cfs @ 12.46 hrs, Volume= 2.061 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	84.620	69	Grassland, HSG B
	84.620		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.4	1,958	0.0378	0.85		**Lag/CN Method,**

Summary for Subcatchment 29ES: 29ES

Runoff = 2.53 cfs @ 12.14 hrs, Volume= 0.264 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	10.820	69	Grassland, HSG B
	10.820		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.6	923	0.0607	0.93		**Lag/CN Method,**

Summary for Subcatchment 30ES: 30ES

Runoff = 6.29 cfs @ 12.35 hrs, Volume= 1.010 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	41.470	69	Grassland, HSG B
	41.470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.2	1,164	0.0249	0.62		**Lag/CN Method,**

Summary for Subcatchment 31ES: 31ES

Runoff = 2.75 cfs @ 12.24 hrs, Volume= 0.370 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	15.190	69	Grassland, HSG B
	15.190		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.2	1,250	0.0464	0.86		**Lag/CN Method,**

Summary for Subcatchment 32ES: 32ES

Runoff = 4.07 cfs @ 12.34 hrs, Volume= 0.642 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	26.370	69	Grassland, HSG B
	26.370		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.4	1,498	0.0393	0.82		**Lag/CN Method,**

Summary for Subcatchment 33ES: 33ES

Runoff = 0.41 cfs @ 12.22 hrs, Volume= 0.052 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	2.140	69	Grassland, HSG B
	2.140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	813	0.0271	0.60		**Lag/CN Method,**

Summary for Subcatchment 34ES: 34ES

Runoff = 5.83 cfs @ 12.55 hrs, Volume= 1.183 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	48.580	69	Grassland, HSG B
	48.580		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.2	1,866	0.0263	0.70		**Lag/CN Method,**

Summary for Subcatchment 35ES: 35ES

Runoff = 2.95 cfs @ 12.12 hrs, Volume= 0.287 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	11.770	69	Grassland, HSG B
	11.770		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	754	0.0531	0.83		**Lag/CN Method,**

Summary for Subcatchment 36ES: 36ES

Runoff = 1.33 cfs @ 12.26 hrs, Volume= 0.247 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	3.410	49	Grassland, HSG A
*	11.860	69	Grassland, HSG B
	15.270	65	Weighted Average
	15.270		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	962	0.0437	0.71		**Lag/CN Method,**

Summary for Subcatchment 37ES: 37ES

Runoff = 2.92 cfs @ 12.12 hrs, Volume= 0.293 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	12.020	69	Grassland, HSG B
	12.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.8	643	0.0373	0.68		**Lag/CN Method,**

Summary for Subcatchment 38ES: 38ES

Runoff = 8.46 cfs @ 13.08 hrs, Volume= 2.344 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	1.470	49	Grassland, HSG A
*	56.850	69	Grassland, HSG B
*	22.090	79	Grassland, HSG C
	80.410	71	Weighted Average
	80.410		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
80.1	3,791	0.0224	0.79		**Lag/CN Method,**

Summary for Reach 1ER:

Inflow Area = 130.720 ac, 0.00% Impervious, Inflow Depth = 0.20" for 100yr event
Inflow = 7.35 cfs @ 12.92 hrs, Volume= 2.217 af
Outflow = 7.35 cfs @ 12.92 hrs, Volume= 2.217 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 2ER:

Inflow Area = 2,193.920 ac, 0.00% Impervious, Inflow Depth = 0.33" for 100yr event
Inflow = 150.95 cfs @ 13.62 hrs, Volume= 59.420 af
Outflow = 150.95 cfs @ 13.62 hrs, Volume= 59.420 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 3ER:

Inflow Area = 119.470 ac, 0.00% Impervious, Inflow Depth = 0.32" for 100yr event
Inflow = 9.95 cfs @ 13.03 hrs, Volume= 3.171 af
Outflow = 9.95 cfs @ 13.03 hrs, Volume= 3.171 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 4ER:

Inflow Area = 331.770 ac, 0.00% Impervious, Inflow Depth = 0.29" for 100yr event
Inflow = 27.29 cfs @ 12.64 hrs, Volume= 8.082 af
Outflow = 27.29 cfs @ 12.64 hrs, Volume= 8.082 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 5ER:

Inflow Area = 14.570 ac, 0.00% Impervious, Inflow Depth = 0.29" for 100yr event
Inflow = 2.60 cfs @ 12.25 hrs, Volume= 0.355 af
Outflow = 2.60 cfs @ 12.25 hrs, Volume= 0.355 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 6ER:

Inflow Area = 95.440 ac, 0.00% Impervious, Inflow Depth = 0.29" for 100yr event
Inflow = 12.14 cfs @ 12.44 hrs, Volume= 2.325 af
Outflow = 12.14 cfs @ 12.44 hrs, Volume= 2.325 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

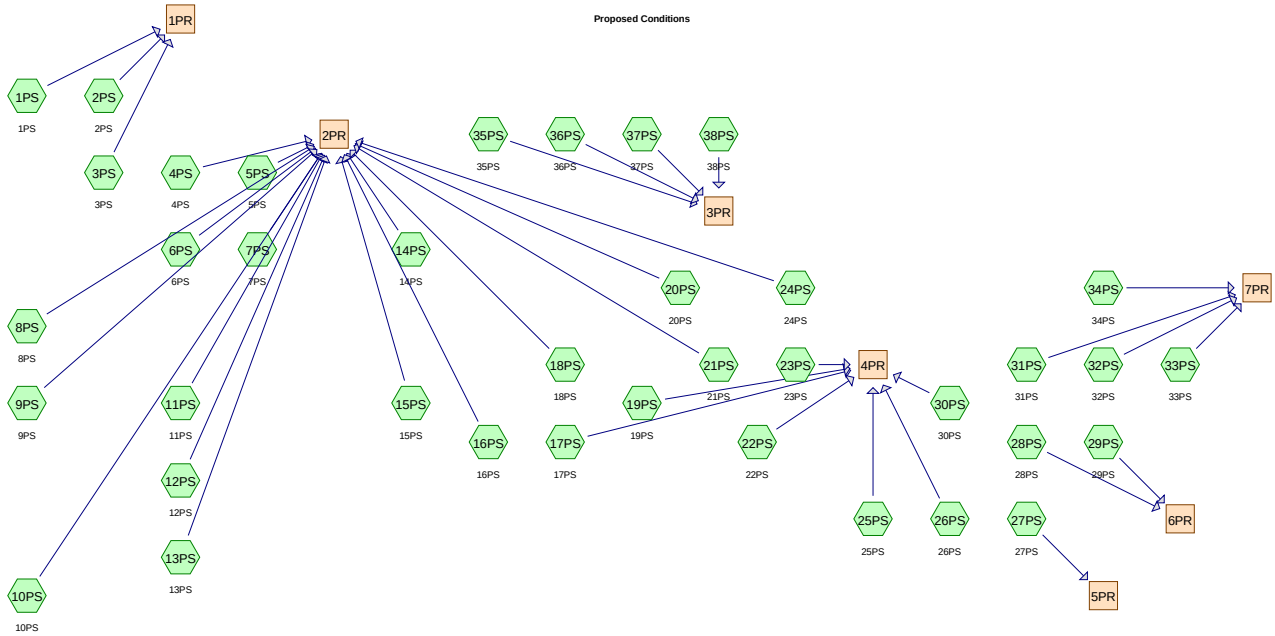
Summary for Reach 7ER:

Inflow Area = 92.280 ac, 0.00% Impervious, Inflow Depth = 0.29" for 100yr event
Inflow = 11.48 cfs @ 12.39 hrs, Volume= 2.248 af
Outflow = 11.48 cfs @ 12.39 hrs, Volume= 2.248 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Appendix D

Proposed HydroCAD Results



Subcat Reach Pond Link

Routing Diagram for Wautoma Pre Post
Prepared by j, Printed 1/13/2022
HydroCAD® 10.10-3a s/n 03363 © 2020 HydroCAD Software Solutions LLC

Area Listing (selected nodes)

Area (acres)	CN	Description (subcatchment-numbers)
195.180	49	Grassland, HSG A (3PS, 4PS, 5PS, 11PS, 12PS, 15PS, 16PS, 36PS, 38PS)
2,649.440	69	Grassland, HSG B (1PS, 2PS, 3PS, 4PS, 5PS, 6PS, 7PS, 8PS, 9PS, 10PS, 11PS, 12PS, 13PS, 14PS, 15PS, 16PS, 17PS, 18PS, 19PS, 20PS, 21PS, 22PS, 23PS, 24PS, 25PS, 26PS, 27PS, 28PS, 29PS, 30PS, 31PS, 32PS, 33PS, 34PS, 35PS, 36PS, 37PS, 38PS)
36.570	79	Grassland, HSG C (11PS, 15PS, 16PS, 17PS, 18PS, 38PS)
96.980	98	Impervious (1PS, 2PS, 3PS, 4PS, 5PS, 6PS, 7PS, 8PS, 9PS, 10PS, 11PS, 12PS, 13PS, 14PS, 15PS, 16PS, 17PS, 18PS, 19PS, 21PS, 22PS, 23PS, 24PS, 26PS, 27PS, 28PS, 29PS, 30PS, 31PS, 32PS, 34PS, 35PS, 36PS, 38PS)
2,978.170	**69**	**TOTAL AREA**

Soil Listing (selected nodes)

Area (acres)	Soil Group	Subcatchment Numbers
195.180	HSG A	3PS, 4PS, 5PS, 11PS, 12PS, 15PS, 16PS, 36PS, 38PS
2,649.440	HSG B	1PS, 2PS, 3PS, 4PS, 5PS, 6PS, 7PS, 8PS, 9PS, 10PS, 11PS, 12PS, 13PS, 14PS, 15PS, 16PS, 17PS, 18PS, 19PS, 20PS, 21PS, 22PS, 23PS, 24PS, 25PS, 26PS, 27PS, 28PS, 29PS, 30PS, 31PS, 32PS, 33PS, 34PS, 35PS, 36PS, 37PS, 38PS
36.570	HSG C	11PS, 15PS, 16PS, 17PS, 18PS, 38PS
0.000	HSG D	
96.980	Other	1PS, 2PS, 3PS, 4PS, 5PS, 6PS, 7PS, 8PS, 9PS, 10PS, 11PS, 12PS, 13PS, 14PS, 15PS, 16PS, 17PS, 18PS, 19PS, 21PS, 22PS, 23PS, 24PS, 26PS, 27PS, 28PS, 29PS, 30PS, 31PS, 32PS, 34PS, 35PS, 36PS, 38PS
2,978.170		**TOTAL AREA**

Ground Covers (selected nodes)

HSG-A (acres)	HSG-B (acres)	HSG-C (acres)	HSG-D (acres)	Other (acres)	Total (acres)	Ground Cover	Subcatchment Numbers
195.180	2,649.440	36.570	0.000	0.000	2,881.190	Grassland	1PS, 2PS, 3PS, 4PS, 5PS, 6PS, 7PS, 8PS, 9PS, 10PS, 11PS, 12PS, 13PS, 14PS, 15PS, 16PS, 17PS, 18PS, 19PS, 20PS, 21PS, 22PS, 23PS, 24PS, 25PS, 26PS, 27PS, 28PS, 29PS, 30PS, 31PS, 32PS, 33PS, 34PS, 35PS, 36PS, 37PS, 38PS
0.000	0.000	0.000	0.000	96.980	96.980	Impervious	1PS, 2PS, 3PS, 4PS, 5PS, 6PS, 7PS, 8PS, 9PS, 10PS, 11PS, 12PS, 13PS, 14PS, 15PS, 16PS, 17PS, 18PS, 19PS, 21PS, 22PS, 23PS, 24PS, 26PS, 27PS, 28PS, 29PS, 30PS, 31PS, 32PS, 34PS, 35PS, 36PS, 38PS
195.180	**2,649.440**	**36.570**	**0.000**	**96.980**	**2,978.170**	**TOTAL AREA**	

Summary for Subcatchment 1PS: 1PS

Runoff = 0.05 cfs @ 24.18 hrs, Volume= 0.030 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	74.900	69	Grassland, HSG B
*	2.690	98	Impervious
	77.590	70	Weighted Average
	74.900		96.53% Pervious Area
	2.690		3.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
68.3	2,780	0.0198	0.68		**Lag/CN Method,**

Summary for Subcatchment 2PS: 2PS

Runoff = 0.00 cfs @ 24.03 hrs, Volume= 0.002 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	9.300	69	Grassland, HSG B
*	0.010	98	Impervious
	9.310	69	Weighted Average
	9.300		99.89% Pervious Area
	0.010		0.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.3	835	0.0240	0.57		**Lag/CN Method,**

Summary for Subcatchment 3PS: 3PS

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	32.290	49	Grassland, HSG A
*	10.130	69	Grassland, HSG B
*	1.400	98	Impervious
	43.820	55	Weighted Average
	42.420		96.81% Pervious Area
	1.400		3.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
85.9	2,481	0.0226	0.48		**Lag/CN Method,**

Summary for Subcatchment 4PS: 4PS

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	67.350	49	Grassland, HSG A
*	49.690	69	Grassland, HSG B
*	2.790	98	Impervious
	119.830	58	Weighted Average
	117.040		97.67% Pervious Area
	2.790		2.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
181.4	6,434	0.0200	0.59		**Lag/CN Method,**

Summary for Subcatchment 5PS: 5PS

Runoff = 0.00 cfs @ 24.77 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	15.960	49	Grassland, HSG A
*	102.670	69	Grassland, HSG B
*	2.450	98	Impervious
	121.080	67	Weighted Average
	118.630		97.98% Pervious Area
	2.450		2.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.8	3,458	0.0171	0.61		**Lag/CN Method,**

Summary for Subcatchment 6PS: 6PS

Runoff = 0.01 cfs @ 24.03 hrs, Volume= 0.008 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	20.460	69	Grassland, HSG B
*	1.060	98	Impervious
	21.520	70	Weighted Average
	20.460		95.07% Pervious Area
	1.060		4.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.5	917	0.0207	0.56		**Lag/CN Method,**

Summary for Subcatchment 7PS: 7PS

Runoff = 0.03 cfs @ 24.15 hrs, Volume= 0.015 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	38.980	69	Grassland, HSG B
*	1.310	98	Impervious
	40.290	70	Weighted Average
	38.980		96.75% Pervious Area
	1.310		3.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.3	2,047	0.0137	0.53		**Lag/CN Method,**

Summary for Subcatchment 8PS: 8PS

Runoff = 0.02 cfs @ 24.01 hrs, Volume= 0.013 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	18.940	69	Grassland, HSG B
*	1.270	98	Impervious
	20.210	71	Weighted Average
	18.940		93.72% Pervious Area
	1.270		6.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.3	1,527	0.0255	0.70		**Lag/CN Method,**

Summary for Subcatchment 9PS: 9PS

Runoff = 0.02 cfs @ 17.94 hrs, Volume= 0.012 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	10.760	69	Grassland, HSG B
*	1.270	98	Impervious
	12.030	72	Weighted Average
	10.760		89.44% Pervious Area
	1.270		10.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	805	0.0398	0.79		**Lag/CN Method,**

Summary for Subcatchment 10PS: 10PS

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 0.001 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	1.450	69	Grassland, HSG B
*	0.040	98	Impervious
	1.490	70	Weighted Average
	1.450		97.32% Pervious Area
	0.040		2.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	284	0.0423	0.63		**Lag/CN Method,**

Summary for Subcatchment 11PS: 11PS

Runoff = 0.18 cfs @ 24.54 hrs, Volume= 0.080 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	10.790	49	Grassland, HSG A
*	400.770	69	Grassland, HSG B
*	3.910	79	Grassland, HSG C
*	11.740	98	Impervious
	427.210	69	Weighted Average
	415.470		97.25% Pervious Area
	11.740		2.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
129.3	9,180	0.0394	1.18		**Lag/CN Method,**

Summary for Subcatchment 12PS: 12PS

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	22.540	49	Grassland, HSG A
*	99.480	69	Grassland, HSG B
*	3.980	98	Impervious
	126.000	66	Weighted Average
	122.020		96.84% Pervious Area
	3.980		3.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
79.4	4,460	0.0386	0.94		**Lag/CN Method,**

Summary for Subcatchment 13PS: 13PS

Runoff = 0.02 cfs @ 24.02 hrs, Volume= 0.009 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	22.040	69	Grassland, HSG B
*	0.590	98	Impervious
	22.630	70	Weighted Average
	22.040		97.39% Pervious Area
	0.590		2.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,653	0.0563	1.03		**Lag/CN Method,**

Summary for Subcatchment 14PS: 14PS

Runoff = 8.59 cfs @ 12.05 hrs, Volume= 0.529 af, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	0.860	69	Grassland, HSG B
*	9.210	98	Impervious
	10.070	96	Weighted Average
	0.860		8.54% Pervious Area
	9.210		91.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.2	858	0.0128	1.08		**Lag/CN Method,**

Summary for Subcatchment 15PS: 15PS

Runoff = 0.35 cfs @ 24.59 hrs, Volume= 0.157 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	34.910	49	Grassland, HSG A
*	778.320	69	Grassland, HSG B
*	4.290	79	Grassland, HSG C
*	21.440	98	Impervious
	838.960	69	Weighted Average
	817.520		97.44% Pervious Area
	21.440		2.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
140.0	8,209	0.0281	0.98		**Lag/CN Method,**

Summary for Subcatchment 16PS: 16PS

Runoff = 0.07 cfs @ 24.33 hrs, Volume= 0.028 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	6.640	49	Grassland, HSG A
*	131.510	69	Grassland, HSG B
*	5.670	79	Grassland, HSG C
*	4.240	98	Impervious
	148.060	69	Weighted Average
	143.820		97.14% Pervious Area
	4.240		2.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
96.8	5,558	0.0315	0.96		**Lag/CN Method,**

Summary for Subcatchment 17PS: 17PS

Runoff = 0.07 cfs @ 24.22 hrs, Volume= 0.038 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	93.520	69	Grassland, HSG B
*	0.900	79	Grassland, HSG C
*	4.160	98	Impervious
	98.580	70	Weighted Average
	94.420		95.78% Pervious Area
	4.160		4.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.0	5,098	0.0288	0.92		**Lag/CN Method,**

Summary for Subcatchment 18PS: 18PS

Runoff = 0.13 cfs @ 24.27 hrs, Volume= 0.075 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	189.100	69	Grassland, HSG B
*	0.620	79	Grassland, HSG C
*	4.380	98	Impervious
	194.100	70	Weighted Average
	189.720		97.74% Pervious Area
	4.380		2.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
107.3	5,588	0.0245	0.87		**Lag/CN Method,**

Summary for Subcatchment 19PS: 19PS

Runoff = 0.02 cfs @ 24.03 hrs, Volume= 0.012 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	28.880	69	Grassland, HSG B
*	1.500	98	Impervious
	30.380	70	Weighted Average
	28.880		95.06% Pervious Area
	1.500		4.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.7	1,535	0.0280	0.72		**Lag/CN Method,**

Summary for Subcatchment 20PS: 20PS

Runoff = 0.00 cfs @ 23.99 hrs, Volume= 0.001 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	5.540	69	Grassland, HSG B
	5.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	477	0.0294	0.57		**Lag/CN Method,**

Summary for Subcatchment 21PS: 21PS

Runoff = 0.05 cfs @ 24.05 hrs, Volume= 0.027 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	69.470	69	Grassland, HSG B
*	1.430	98	Impervious
	70.900	70	Weighted Average
	69.470		97.98% Pervious Area
	1.430		2.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
39.3	2,203	0.0413	0.94		**Lag/CN Method,**

Summary for Subcatchment 22PS: 22PS

Runoff = 0.01 cfs @ 17.76 hrs, Volume= 0.005 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	4.760	69	Grassland, HSG B
*	0.460	98	Impervious
	5.220	72	Weighted Average
	4.760		91.19% Pervious Area
	0.460		8.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	603	0.0763	1.04		**Lag/CN Method,**

Summary for Subcatchment 23PS: 23PS

Runoff = 0.01 cfs @ 15.39 hrs, Volume= 0.008 af, Depth= 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	4.550	69	Grassland, HSG B
*	0.780	98	Impervious
	5.330	73	Weighted Average
	4.550		85.37% Pervious Area
	0.780		14.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.6	473	0.0148	0.45		**Lag/CN Method,**

Summary for Subcatchment 24PS: 24PS

Runoff = 0.01 cfs @ 24.03 hrs, Volume= 0.003 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	13.780	69	Grassland, HSG B
*	0.220	98	Impervious
	14.000	69	Weighted Average
	13.780		98.43% Pervious Area
	0.220		1.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,204	0.0532	0.92		**Lag/CN Method,**

Summary for Subcatchment 25PS: 25PS

Runoff = 0.00 cfs @ 24.00 hrs, Volume= 0.001 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	6.880	69	Grassland, HSG B
	6.880		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	488	0.0656	0.85		**Lag/CN Method,**

Summary for Subcatchment 26PS: 26PS

Runoff = 0.10 cfs @ 24.10 hrs, Volume= 0.055 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	139.330	69	Grassland, HSG B
*	4.580	98	Impervious
	143.910	70	Weighted Average
	139.330		96.82% Pervious Area
	4.580		3.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
51.2	2,319	0.0263	0.75		**Lag/CN Method,**

Summary for Subcatchment 27PS: 27PS

Runoff = 0.01 cfs @ 23.99 hrs, Volume= 0.010 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	13.750	69	Grassland, HSG B
*	0.820	98	Impervious
	14.570	71	Weighted Average
	13.750		94.37% Pervious Area
	0.820		5.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,092	0.0357	0.78		**Lag/CN Method,**

Summary for Subcatchment 28PS: 28PS

Runoff = 0.06 cfs @ 24.04 hrs, Volume= 0.032 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	82.740	69	Grassland, HSG B
*	1.880	98	Impervious
	84.620	70	Weighted Average
	82.740		97.78% Pervious Area
	1.880		2.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.3	1,958	0.0378	0.87		**Lag/CN Method,**

Summary for Subcatchment 29PS: 29PS

Runoff = 0.01 cfs @ 24.00 hrs, Volume= 0.007 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	10.120	69	Grassland, HSG B
*	0.700	98	Impervious
	10.820	71	Weighted Average
	10.120		93.53% Pervious Area
	0.700		6.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.7	923	0.0607	0.98		**Lag/CN Method,**

Summary for Subcatchment 30PS: 30PS

Runoff = 0.04 cfs @ 24.05 hrs, Volume= 0.027 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	38.040	69	Grassland, HSG B
*	3.430	98	Impervious
	41.470	71	Weighted Average
	38.040		91.73% Pervious Area
	3.430		8.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.5	1,164	0.0249	0.66		**Lag/CN Method,**

Summary for Subcatchment 31PS: 31PS

Runoff = 0.01 cfs @ 24.00 hrs, Volume= 0.006 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	14.890	69	Grassland, HSG B
*	0.300	98	Impervious
	15.190	70	Weighted Average
	14.890		98.03% Pervious Area
	0.300		1.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.5	1,250	0.0464	0.89		**Lag/CN Method,**

Summary for Subcatchment 32PS: 32PS

Runoff = 0.01 cfs @ 24.05 hrs, Volume= 0.005 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	26.240	69	Grassland, HSG B
*	0.130	98	Impervious
	26.370	69	Weighted Average
	26.240		99.51% Pervious Area
	0.130		0.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.4	1,498	0.0393	0.82		**Lag/CN Method,**

Summary for Subcatchment 33PS: 33PS

Runoff = 0.00 cfs @ 24.03 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	2.140	69	Grassland, HSG B
	2.140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	813	0.0271	0.60		**Lag/CN Method,**

Summary for Subcatchment 34PS: 34PS

Runoff = 0.03 cfs @ 24.06 hrs, Volume= 0.019 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	47.290	69	Grassland, HSG B
*	1.290	98	Impervious
	48.580	70	Weighted Average
	47.290		97.34% Pervious Area
	1.290		2.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
43.1	1,866	0.0263	0.72		**Lag/CN Method,**

Summary for Subcatchment 35PS: 35PS

Runoff = 0.01 cfs @ 17.84 hrs, Volume= 0.012 af, Depth= 0.01"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	10.590	69	Grassland, HSG B
*	1.180	98	Impervious
	11.770	72	Weighted Average
	10.590		89.97% Pervious Area
	1.180		10.03% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.9	754	0.0531	0.90		**Lag/CN Method,**

Summary for Subcatchment 36PS: 36PS

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	3.230	49	Grassland, HSG A
*	11.490	69	Grassland, HSG B
*	0.550	98	Impervious
	15.270	66	Weighted Average
	14.720		96.40% Pervious Area
	0.550		3.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	962	0.0437	0.73		**Lag/CN Method,**

Summary for Subcatchment 37PS: 37PS

Runoff = 0.01 cfs @ 23.99 hrs, Volume= 0.002 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	12.020	69	Grassland, HSG B
	12.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.8	643	0.0373	0.68		**Lag/CN Method,**

Summary for Subcatchment 38PS: 38PS

Runoff = 0.14 cfs @ 16.26 hrs, Volume= 0.115 af, Depth= 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 2yr Rainfall=1.00"

	Area (ac)	CN	Description
*	1.470	49	Grassland, HSG A
*	54.060	69	Grassland, HSG B
*	21.180	79	Grassland, HSG C
*	3.700	98	Impervious
	80.410	73	Weighted Average
	76.710		95.40% Pervious Area
	3.700		4.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
75.8	3,791	0.0224	0.83		**Lag/CN Method,**

Summary for Reach 1PR:

Inflow Area = 130.720 ac, 3.14% Impervious, Inflow Depth = 0.00" for 2yr event
Inflow = 0.06 cfs @ 24.08 hrs, Volume= 0.032 af
Outflow = 0.06 cfs @ 24.08 hrs, Volume= 0.032 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 2PR:

Inflow Area = 2,193.920 ac, 3.07% Impervious, Inflow Depth = 0.01" for 2yr event
Inflow = 8.59 cfs @ 12.05 hrs, Volume= 0.957 af
Outflow = 8.59 cfs @ 12.05 hrs, Volume= 0.957 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 3PR:

Inflow Area = 119.470 ac, 4.55% Impervious, Inflow Depth = 0.01" for 2yr event
Inflow = 0.15 cfs @ 16.41 hrs, Volume= 0.129 af
Outflow = 0.15 cfs @ 16.41 hrs, Volume= 0.129 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 4PR:

Inflow Area = 331.770 ac, 4.49% Impervious, Inflow Depth = 0.01" for 2yr event
Inflow = 0.24 cfs @ 24.03 hrs, Volume= 0.146 af
Outflow = 0.24 cfs @ 24.03 hrs, Volume= 0.146 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 5PR:

Inflow Area = 14.570 ac, 5.63% Impervious, Inflow Depth = 0.01" for 2yr event
Inflow = 0.01 cfs @ 23.99 hrs, Volume= 0.010 af
Outflow = 0.01 cfs @ 23.99 hrs, Volume= 0.010 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 6PR:

Inflow Area = 95.440 ac, 2.70% Impervious, Inflow Depth = 0.00" for 2yr event
Inflow = 0.07 cfs @ 24.01 hrs, Volume= 0.040 af
Outflow = 0.07 cfs @ 24.01 hrs, Volume= 0.040 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 7PR:

Inflow Area = 92.280 ac, 1.86% Impervious, Inflow Depth = 0.00" for 2yr event
Inflow = 0.06 cfs @ 24.03 hrs, Volume= 0.030 af
Outflow = 0.06 cfs @ 24.03 hrs, Volume= 0.030 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Subcatchment 1PS: 1PS

Runoff = 1.67 cfs @ 13.11 hrs, Volume= 0.710 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	74.900	69	Grassland, HSG B
*	2.690	98	Impervious
	77.590	70	Weighted Average
	74.900		96.53% Pervious Area
	2.690		3.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
68.3	2,780	0.0198	0.68		**Lag/CN Method,**

Summary for Subcatchment 2PS: 2PS

Runoff = 0.22 cfs @ 12.37 hrs, Volume= 0.073 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	9.300	69	Grassland, HSG B
*	0.010	98	Impervious
	9.310	69	Weighted Average
	9.300		99.89% Pervious Area
	0.010		0.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.3	835	0.0240	0.57		**Lag/CN Method,**

Summary for Subcatchment 3PS: 3PS

Runoff = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	32.290	49	Grassland, HSG A
*	10.130	69	Grassland, HSG B
*	1.400	98	Impervious
	43.820	55	Weighted Average
	42.420		96.81% Pervious Area
	1.400		3.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
85.9	2,481	0.0226	0.48		**Lag/CN Method,**

Summary for Subcatchment 4PS: 4PS

Runoff = 0.07 cfs @ 24.83 hrs, Volume= 0.031 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	67.350	49	Grassland, HSG A
*	49.690	69	Grassland, HSG B
*	2.790	98	Impervious
	119.830	58	Weighted Average
	117.040		97.67% Pervious Area
	2.790		2.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
181.4	6,434	0.0200	0.59		**Lag/CN Method,**

Summary for Subcatchment 5PS: 5PS

Runoff = 1.05 cfs @ 14.19 hrs, Volume= 0.689 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	15.960	49	Grassland, HSG A
*	102.670	69	Grassland, HSG B
*	2.450	98	Impervious
	121.080	67	Weighted Average
	118.630		97.98% Pervious Area
	2.450		2.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.8	3,458	0.0171	0.61		**Lag/CN Method,**

Summary for Subcatchment 6PS: 6PS

Runoff = 0.70 cfs @ 12.39 hrs, Volume= 0.197 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	20.460	69	Grassland, HSG B
*	1.060	98	Impervious
	21.520	70	Weighted Average
	20.460		95.07% Pervious Area
	1.060		4.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.5	917	0.0207	0.56		**Lag/CN Method,**

Summary for Subcatchment 7PS: 7PS

Runoff = 0.90 cfs @ 13.05 hrs, Volume= 0.368 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	38.980	69	Grassland, HSG B
*	1.310	98	Impervious
	40.290	70	Weighted Average
	38.980		96.75% Pervious Area
	1.310		3.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.3	2,047	0.0137	0.53		**Lag/CN Method,**

Summary for Subcatchment 8PS: 8PS

Runoff = 0.77 cfs @ 12.52 hrs, Volume= 0.212 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	18.940	69	Grassland, HSG B
*	1.270	98	Impervious
	20.210	71	Weighted Average
	18.940		93.72% Pervious Area
	1.270		6.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.3	1,527	0.0255	0.70		**Lag/CN Method,**

Summary for Subcatchment 9PS: 9PS

Runoff = 0.95 cfs @ 12.17 hrs, Volume= 0.144 af, Depth= 0.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	10.760	69	Grassland, HSG B
*	1.270	98	Impervious
	12.030	72	Weighted Average
	10.760		89.44% Pervious Area
	1.270		10.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	805	0.0398	0.79		**Lag/CN Method,**

Summary for Subcatchment 10PS: 10PS

Runoff = 0.10 cfs @ 12.05 hrs, Volume= 0.014 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	1.450	69	Grassland, HSG B
*	0.040	98	Impervious
	1.490	70	Weighted Average
	1.450		97.32% Pervious Area
	0.040		2.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	284	0.0423	0.63		**Lag/CN Method,**

Summary for Subcatchment 11PS: 11PS

Runoff = 5.52 cfs @ 14.33 hrs, Volume= 3.372 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	10.790	49	Grassland, HSG A
*	400.770	69	Grassland, HSG B
*	3.910	79	Grassland, HSG C
*	11.740	98	Impervious
	427.210	69	Weighted Average
	415.470		97.25% Pervious Area
	11.740		2.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
129.3	9,180	0.0394	1.18		**Lag/CN Method,**

Summary for Subcatchment 12PS: 12PS

Runoff = 0.86 cfs @ 14.20 hrs, Volume= 0.596 af, Depth= 0.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	22.540	49	Grassland, HSG A
*	99.480	69	Grassland, HSG B
*	3.980	98	Impervious
	126.000	66	Weighted Average
	122.020		96.84% Pervious Area
	3.980		3.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
79.4	4,460	0.0386	0.94		**Lag/CN Method,**

Summary for Subcatchment 13PS: 13PS

Runoff = 0.74 cfs @ 12.37 hrs, Volume= 0.207 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	22.040	69	Grassland, HSG B
*	0.590	98	Impervious
	22.630	70	Weighted Average
	22.040		97.39% Pervious Area
	0.590		2.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,653	0.0563	1.03		**Lag/CN Method,**

Summary for Subcatchment 14PS: 14PS

Runoff = 15.80 cfs @ 12.05 hrs, Volume= 0.998 af, Depth= 1.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	0.860	69	Grassland, HSG B
*	9.210	98	Impervious
	10.070	96	Weighted Average
	0.860		8.54% Pervious Area
	9.210		91.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.2	858	0.0128	1.08		**Lag/CN Method,**

Summary for Subcatchment 15PS: 15PS

Runoff = 10.60 cfs @ 14.49 hrs, Volume= 6.623 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	34.910	49	Grassland, HSG A
*	778.320	69	Grassland, HSG B
*	4.290	79	Grassland, HSG C
*	21.440	98	Impervious
	838.960	69	Weighted Average
	817.520		97.44% Pervious Area
	21.440		2.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
140.0	8,209	0.0281	0.98		**Lag/CN Method,**

Summary for Subcatchment 16PS: 16PS

Runoff = 2.15 cfs @ 13.71 hrs, Volume= 1.169 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	6.640	49	Grassland, HSG A
*	131.510	69	Grassland, HSG B
*	5.670	79	Grassland, HSG C
*	4.240	98	Impervious
	148.060	69	Weighted Average
	143.820		97.14% Pervious Area
	4.240		2.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
96.8	5,558	0.0315	0.96		**Lag/CN Method,**

Summary for Subcatchment 17PS: 17PS

Runoff = 1.88 cfs @ 13.57 hrs, Volume= 0.902 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	93.520	69	Grassland, HSG B
*	0.900	79	Grassland, HSG C
*	4.160	98	Impervious
	98.580	70	Weighted Average
	94.420		95.78% Pervious Area
	4.160		4.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.0	5,098	0.0288	0.92		**Lag/CN Method,**

Summary for Subcatchment 18PS: 18PS

Runoff = 3.46 cfs @ 13.85 hrs, Volume= 1.775 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	189.100	69	Grassland, HSG B
*	0.620	79	Grassland, HSG C
*	4.380	98	Impervious
	194.100	70	Weighted Average
	189.720		97.74% Pervious Area
	4.380		2.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
107.3	5,588	0.0245	0.87		**Lag/CN Method,**

Summary for Subcatchment 19PS: 19PS

Runoff = 0.88 cfs @ 12.54 hrs, Volume= 0.278 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	28.880	69	Grassland, HSG B
*	1.500	98	Impervious
	30.380	70	Weighted Average
	28.880		95.06% Pervious Area
	1.500		4.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.7	1,535	0.0280	0.72		**Lag/CN Method,**

Summary for Subcatchment 20PS: 20PS

Runoff = 0.17 cfs @ 12.17 hrs, Volume= 0.044 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	5.540	69	Grassland, HSG B
	5.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	477	0.0294	0.57		**Lag/CN Method,**

Summary for Subcatchment 21PS: 21PS

Runoff = 1.97 cfs @ 12.60 hrs, Volume= 0.648 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	69.470	69	Grassland, HSG B
*	1.430	98	Impervious
	70.900	70	Weighted Average
	69.470		97.98% Pervious Area
	1.430		2.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
39.3	2,203	0.0413	0.94		**Lag/CN Method,**

Summary for Subcatchment 22PS: 22PS

Runoff = 0.59 cfs @ 12.06 hrs, Volume= 0.062 af, Depth= 0.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	4.760	69	Grassland, HSG B
*	0.460	98	Impervious
	5.220	72	Weighted Average
	4.760		91.19% Pervious Area
	0.460		8.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	603	0.0763	1.04		**Lag/CN Method,**

Summary for Subcatchment 23PS: 23PS

Runoff = 0.53 cfs @ 12.17 hrs, Volume= 0.072 af, Depth= 0.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	4.550	69	Grassland, HSG B
*	0.780	98	Impervious
	5.330	73	Weighted Average
	4.550		85.37% Pervious Area
	0.780		14.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.6	473	0.0148	0.45		**Lag/CN Method,**

Summary for Subcatchment 24PS: 24PS

Runoff = 0.35 cfs @ 12.32 hrs, Volume= 0.111 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	13.780	69	Grassland, HSG B
*	0.220	98	Impervious
	14.000	69	Weighted Average
	13.780		98.43% Pervious Area
	0.220		1.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,204	0.0532	0.92		**Lag/CN Method,**

Summary for Subcatchment 25PS: 25PS

Runoff = 0.26 cfs @ 12.09 hrs, Volume= 0.054 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	6.880	69	Grassland, HSG B
	6.880		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	488	0.0656	0.85		**Lag/CN Method,**

Summary for Subcatchment 26PS: 26PS

Runoff = 3.54 cfs @ 12.81 hrs, Volume= 1.316 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	139.330	69	Grassland, HSG B
*	4.580	98	Impervious
	143.910	70	Weighted Average
	139.330		96.82% Pervious Area
	4.580		3.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
51.2	2,319	0.0263	0.75		**Lag/CN Method,**

Summary for Subcatchment 27PS: 27PS

Runoff = 0.70 cfs @ 12.29 hrs, Volume= 0.153 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	13.750	69	Grassland, HSG B
*	0.820	98	Impervious
	14.570	71	Weighted Average
	13.750		94.37% Pervious Area
	0.820		5.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,092	0.0357	0.78		**Lag/CN Method,**

Summary for Subcatchment 28PS: 28PS

Runoff = 2.40 cfs @ 12.57 hrs, Volume= 0.774 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	82.740	69	Grassland, HSG B
*	1.880	98	Impervious
	84.620	70	Weighted Average
	82.740		97.78% Pervious Area
	1.880		2.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.3	1,958	0.0378	0.87		**Lag/CN Method,**

Summary for Subcatchment 29PS: 29PS

Runoff = 0.67 cfs @ 12.16 hrs, Volume= 0.114 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	10.120	69	Grassland, HSG B
*	0.700	98	Impervious
	10.820	71	Weighted Average
	10.120		93.53% Pervious Area
	0.700		6.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.7	923	0.0607	0.98		**Lag/CN Method,**

Summary for Subcatchment 30PS: 30PS

Runoff = 1.76 cfs @ 12.39 hrs, Volume= 0.435 af, Depth= 0.13"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	38.040	69	Grassland, HSG B
*	3.430	98	Impervious
	41.470	71	Weighted Average
	38.040		91.73% Pervious Area
	3.430		8.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.5	1,164	0.0249	0.66		**Lag/CN Method,**

Summary for Subcatchment 31PS: 31PS

Runoff = 0.53 cfs @ 12.31 hrs, Volume= 0.139 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	14.890	69	Grassland, HSG B
*	0.300	98	Impervious
	15.190	70	Weighted Average
	14.890		98.03% Pervious Area
	0.300		1.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.5	1,250	0.0464	0.89		**Lag/CN Method,**

Summary for Subcatchment 32PS: 32PS

Runoff = 0.59 cfs @ 12.50 hrs, Volume= 0.208 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	26.240	69	Grassland, HSG B
*	0.130	98	Impervious
	26.370	69	Weighted Average
	26.240		99.51% Pervious Area
	0.130		0.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.4	1,498	0.0393	0.82		**Lag/CN Method,**

Summary for Subcatchment 33PS: 33PS

Runoff = 0.05 cfs @ 12.33 hrs, Volume= 0.017 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	2.140	69	Grassland, HSG B
	2.140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	813	0.0271	0.60		**Lag/CN Method,**

Summary for Subcatchment 34PS: 34PS

Runoff = 1.30 cfs @ 12.67 hrs, Volume= 0.444 af, Depth= 0.11"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	47.290	69	Grassland, HSG B
*	1.290	98	Impervious
	48.580	70	Weighted Average
	47.290		97.34% Pervious Area
	1.290		2.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
43.1	1,866	0.0263	0.72		**Lag/CN Method,**

Summary for Subcatchment 35PS: 35PS

Runoff = 1.06 cfs @ 12.12 hrs, Volume= 0.141 af, Depth= 0.14"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	10.590	69	Grassland, HSG B
*	1.180	98	Impervious
	11.770	72	Weighted Average
	10.590		89.97% Pervious Area
	1.180		10.03% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.9	754	0.0531	0.90		**Lag/CN Method,**

Summary for Subcatchment 36PS: 36PS

Runoff = 0.12 cfs @ 12.71 hrs, Volume= 0.072 af, Depth= 0.06"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	3.230	49	Grassland, HSG A
*	11.490	69	Grassland, HSG B
*	0.550	98	Impervious
	15.270	66	Weighted Average
	14.720		96.40% Pervious Area
	0.550		3.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	962	0.0437	0.73		**Lag/CN Method,**

Summary for Subcatchment 37PS: 37PS

Runoff = 0.35 cfs @ 12.20 hrs, Volume= 0.095 af, Depth= 0.09"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	12.020	69	Grassland, HSG B
	12.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.8	643	0.0373	0.68		**Lag/CN Method,**

Summary for Subcatchment 38PS: 38PS

Runoff = 3.17 cfs @ 13.11 hrs, Volume= 1.088 af, Depth= 0.16"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.60"

	Area (ac)	CN	Description
*	1.470	49	Grassland, HSG A
*	54.060	69	Grassland, HSG B
*	21.180	79	Grassland, HSG C
*	3.700	98	Impervious
	80.410	73	Weighted Average
	76.710		95.40% Pervious Area
	3.700		4.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
75.8	3,791	0.0224	0.83		**Lag/CN Method,**

Summary for Reach 1PR:

Inflow Area = 130.720 ac, 3.14% Impervious, Inflow Depth = 0.07" for 10yr event
Inflow = 1.81 cfs @ 13.10 hrs, Volume= 0.783 af
Outflow = 1.81 cfs @ 13.10 hrs, Volume= 0.783 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 2PR:

Inflow Area = 2,193.920 ac, 3.07% Impervious, Inflow Depth = 0.09" for 10yr event
Inflow = 26.20 cfs @ 14.26 hrs, Volume= 17.197 af
Outflow = 26.20 cfs @ 14.26 hrs, Volume= 17.197 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 3PR:

Inflow Area = 119.470 ac, 4.55% Impervious, Inflow Depth = 0.14" for 10yr event
Inflow = 3.72 cfs @ 13.07 hrs, Volume= 1.396 af
Outflow = 3.72 cfs @ 13.07 hrs, Volume= 1.396 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 4PR:

Inflow Area = 331.770 ac, 4.49% Impervious, Inflow Depth = 0.11" for 10yr event
Inflow = 6.86 cfs @ 12.82 hrs, Volume= 3.120 af
Outflow = 6.86 cfs @ 12.82 hrs, Volume= 3.120 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 5PR:

Inflow Area = 14.570 ac, 5.63% Impervious, Inflow Depth = 0.13" for 10yr event
Inflow = 0.70 cfs @ 12.29 hrs, Volume= 0.153 af
Outflow = 0.70 cfs @ 12.29 hrs, Volume= 0.153 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 6PR:

Inflow Area = 95.440 ac, 2.70% Impervious, Inflow Depth = 0.11" for 10yr event
Inflow = 2.73 cfs @ 12.55 hrs, Volume= 0.887 af
Outflow = 2.73 cfs @ 12.55 hrs, Volume= 0.887 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 7PR:

Inflow Area = 92.280 ac, 1.86% Impervious, Inflow Depth = 0.11" for 10yr event
Inflow = 2.30 cfs @ 12.60 hrs, Volume= 0.808 af
Outflow = 2.30 cfs @ 12.60 hrs, Volume= 0.808 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Subcatchment 1PS: 1PS

Runoff = 3.28 cfs @ 13.01 hrs, Volume= 1.099 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	74.900	69	Grassland, HSG B
*	2.690	98	Impervious
	77.590	70	Weighted Average
	74.900		96.53% Pervious Area
	2.690		3.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
68.3	2,780	0.0198	0.68		**Lag/CN Method,**

Summary for Subcatchment 2PS: 2PS

Runoff = 0.56 cfs @ 12.29 hrs, Volume= 0.117 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	9.300	69	Grassland, HSG B
*	0.010	98	Impervious
	9.310	69	Weighted Average
	9.300		99.89% Pervious Area
	0.010		0.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.3	835	0.0240	0.57		**Lag/CN Method,**

Summary for Subcatchment 3PS: 3PS

Runoff = 0.03 cfs @ 24.31 hrs, Volume= 0.012 af, Depth= 0.00"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	32.290	49	Grassland, HSG A
*	10.130	69	Grassland, HSG B
*	1.400	98	Impervious
	43.820	55	Weighted Average
	42.420		96.81% Pervious Area
	1.400		3.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
85.9	2,481	0.0226	0.48		**Lag/CN Method,**

Summary for Subcatchment 4PS: 4PS

Runoff = 0.21 cfs @ 24.39 hrs, Volume= 0.163 af, Depth= 0.02"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	67.350	49	Grassland, HSG A
*	49.690	69	Grassland, HSG B
*	2.790	98	Impervious
	119.830	58	Weighted Average
	117.040		97.67% Pervious Area
	2.790		2.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
181.4	6,434	0.0200	0.59		**Lag/CN Method,**

Summary for Subcatchment 5PS: 5PS

Runoff = 2.27 cfs @ 13.61 hrs, Volume= 1.167 af, Depth= 0.12"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	15.960	49	Grassland, HSG A
*	102.670	69	Grassland, HSG B
*	2.450	98	Impervious
	121.080	67	Weighted Average
	118.630		97.98% Pervious Area
	2.450		2.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.8	3,458	0.0171	0.61		**Lag/CN Method,**

Summary for Subcatchment 6PS: 6PS

Runoff = 1.55 cfs @ 12.33 hrs, Volume= 0.305 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	20.460	69	Grassland, HSG B
*	1.060	98	Impervious
	21.520	70	Weighted Average
	20.460		95.07% Pervious Area
	1.060		4.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.5	917	0.0207	0.56		**Lag/CN Method,**

Summary for Subcatchment 7PS: 7PS

Runoff = 1.78 cfs @ 12.95 hrs, Volume= 0.571 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	38.980	69	Grassland, HSG B
*	1.310	98	Impervious
	40.290	70	Weighted Average
	38.980		96.75% Pervious Area
	1.310		3.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.3	2,047	0.0137	0.53		**Lag/CN Method,**

Summary for Subcatchment 8PS: 8PS

Runoff = 1.52 cfs @ 12.46 hrs, Volume= 0.321 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	18.940	69	Grassland, HSG B
*	1.270	98	Impervious
	20.210	71	Weighted Average
	18.940		93.72% Pervious Area
	1.270		6.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.3	1,527	0.0255	0.70		**Lag/CN Method,**

Summary for Subcatchment 9PS: 9PS

Runoff = 1.85 cfs @ 12.15 hrs, Volume= 0.213 af, Depth= 0.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	10.760	69	Grassland, HSG B
*	1.270	98	Impervious
	12.030	72	Weighted Average
	10.760		89.44% Pervious Area
	1.270		10.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	805	0.0398	0.79		**Lag/CN Method,**

Summary for Subcatchment 10PS: 10PS

Runoff = 0.23 cfs @ 12.03 hrs, Volume= 0.021 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	1.450	69	Grassland, HSG B
*	0.040	98	Impervious
	1.490	70	Weighted Average
	1.450		97.32% Pervious Area
	0.040		2.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	284	0.0423	0.63		**Lag/CN Method,**

Summary for Subcatchment 11PS: 11PS

Runoff = 10.54 cfs @ 14.10 hrs, Volume= 5.363 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	10.790	49	Grassland, HSG A
*	400.770	69	Grassland, HSG B
*	3.910	79	Grassland, HSG C
*	11.740	98	Impervious
	427.210	69	Weighted Average
	415.470		97.25% Pervious Area
	11.740		2.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
129.3	9,180	0.0394	1.18		**Lag/CN Method,**

Summary for Subcatchment 12PS: 12PS

Runoff = 1.98 cfs @ 13.49 hrs, Volume= 1.051 af, Depth= 0.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	22.540	49	Grassland, HSG A
*	99.480	69	Grassland, HSG B
*	3.980	98	Impervious
	126.000	66	Weighted Average
	122.020		96.84% Pervious Area
	3.980		3.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
79.4	4,460	0.0386	0.94		**Lag/CN Method,**

Summary for Subcatchment 13PS: 13PS

Runoff = 1.66 cfs @ 12.32 hrs, Volume= 0.321 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	22.040	69	Grassland, HSG B
*	0.590	98	Impervious
	22.630	70	Weighted Average
	22.040		97.39% Pervious Area
	0.590		2.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,653	0.0563	1.03		**Lag/CN Method,**

Summary for Subcatchment 14PS: 14PS

Runoff = 18.20 cfs @ 12.05 hrs, Volume= 1.159 af, Depth= 1.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	0.860	69	Grassland, HSG B
*	9.210	98	Impervious
	10.070	96	Weighted Average
	0.860		8.54% Pervious Area
	9.210		91.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.2	858	0.0128	1.08		**Lag/CN Method,**

Summary for Subcatchment 15PS: 15PS

Runoff = 20.07 cfs @ 14.30 hrs, Volume= 10.532 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	34.910	49	Grassland, HSG A
*	778.320	69	Grassland, HSG B
*	4.290	79	Grassland, HSG C
*	21.440	98	Impervious
	838.960	69	Weighted Average
	817.520		97.44% Pervious Area
	21.440		2.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
140.0	8,209	0.0281	0.98		**Lag/CN Method,**

Summary for Subcatchment 16PS: 16PS

Runoff = 4.27 cfs @ 13.55 hrs, Volume= 1.859 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	6.640	49	Grassland, HSG A
*	131.510	69	Grassland, HSG B
*	5.670	79	Grassland, HSG C
*	4.240	98	Impervious
	148.060	69	Weighted Average
	143.820		97.14% Pervious Area
	4.240		2.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
96.8	5,558	0.0315	0.96		**Lag/CN Method,**

Summary for Subcatchment 17PS: 17PS

Runoff = 3.57 cfs @ 13.41 hrs, Volume= 1.397 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	93.520	69	Grassland, HSG B
*	0.900	79	Grassland, HSG C
*	4.160	98	Impervious
	98.580	70	Weighted Average
	94.420		95.78% Pervious Area
	4.160		4.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.0	5,098	0.0288	0.92		**Lag/CN Method,**

Summary for Subcatchment 18PS: 18PS

Runoff = 6.36 cfs @ 13.69 hrs, Volume= 2.750 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	189.100	69	Grassland, HSG B
*	0.620	79	Grassland, HSG C
*	4.380	98	Impervious
	194.100	70	Weighted Average
	189.720		97.74% Pervious Area
	4.380		2.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
107.3	5,588	0.0245	0.87		**Lag/CN Method,**

Summary for Subcatchment 19PS: 19PS

Runoff = 1.87 cfs @ 12.47 hrs, Volume= 0.430 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	28.880	69	Grassland, HSG B
*	1.500	98	Impervious
	30.380	70	Weighted Average
	28.880		95.06% Pervious Area
	1.500		4.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.7	1,535	0.0280	0.72		**Lag/CN Method,**

Summary for Subcatchment 20PS: 20PS

Runoff = 0.47 cfs @ 12.13 hrs, Volume= 0.070 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	5.540	69	Grassland, HSG B
	5.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	477	0.0294	0.57		**Lag/CN Method,**

Summary for Subcatchment 21PS: 21PS

Runoff = 4.13 cfs @ 12.53 hrs, Volume= 1.005 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	69.470	69	Grassland, HSG B
*	1.430	98	Impervious
	70.900	70	Weighted Average
	69.470		97.98% Pervious Area
	1.430		2.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
39.3	2,203	0.0413	0.94		**Lag/CN Method,**

Summary for Subcatchment 22PS: 22PS

Runoff = 1.13 cfs @ 12.05 hrs, Volume= 0.093 af, Depth= 0.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	4.760	69	Grassland, HSG B
*	0.460	98	Impervious
	5.220	72	Weighted Average
	4.760		91.19% Pervious Area
	0.460		8.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	603	0.0763	1.04		**Lag/CN Method,**

Summary for Subcatchment 23PS: 23PS

Runoff = 0.96 cfs @ 12.15 hrs, Volume= 0.105 af, Depth= 0.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	4.550	69	Grassland, HSG B
*	0.780	98	Impervious
	5.330	73	Weighted Average
	4.550		85.37% Pervious Area
	0.780		14.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.6	473	0.0148	0.45		**Lag/CN Method,**

Summary for Subcatchment 24PS: 24PS

Runoff = 0.90 cfs @ 12.25 hrs, Volume= 0.176 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	13.780	69	Grassland, HSG B
*	0.220	98	Impervious
	14.000	69	Weighted Average
	13.780		98.43% Pervious Area
	0.220		1.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,204	0.0532	0.92		**Lag/CN Method,**

Summary for Subcatchment 25PS: 25PS

Runoff = 0.75 cfs @ 12.07 hrs, Volume= 0.086 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	6.880	69	Grassland, HSG B
	6.880		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	488	0.0656	0.85		**Lag/CN Method,**

Summary for Subcatchment 26PS: 26PS

Runoff = 7.18 cfs @ 12.73 hrs, Volume= 2.039 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	139.330	69	Grassland, HSG B
*	4.580	98	Impervious
	143.910	70	Weighted Average
	139.330		96.82% Pervious Area
	4.580		3.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
51.2	2,319	0.0263	0.75		**Lag/CN Method,**

Summary for Subcatchment 27PS: 27PS

Runoff = 1.46 cfs @ 12.25 hrs, Volume= 0.232 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	13.750	69	Grassland, HSG B
*	0.820	98	Impervious
	14.570	71	Weighted Average
	13.750		94.37% Pervious Area
	0.820		5.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,092	0.0357	0.78		**Lag/CN Method,**

Summary for Subcatchment 28PS: 28PS

Runoff = 5.09 cfs @ 12.50 hrs, Volume= 1.199 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	82.740	69	Grassland, HSG B
*	1.880	98	Impervious
	84.620	70	Weighted Average
	82.740		97.78% Pervious Area
	1.880		2.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.3	1,958	0.0378	0.87		**Lag/CN Method,**

Summary for Subcatchment 29PS: 29PS

Runoff = 1.42 cfs @ 12.14 hrs, Volume= 0.172 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	10.120	69	Grassland, HSG B
*	0.700	98	Impervious
	10.820	71	Weighted Average
	10.120		93.53% Pervious Area
	0.700		6.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.7	923	0.0607	0.98		**Lag/CN Method,**

Summary for Subcatchment 30PS: 30PS

Runoff = 3.57 cfs @ 12.35 hrs, Volume= 0.659 af, Depth= 0.19"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	38.040	69	Grassland, HSG B
*	3.430	98	Impervious
	41.470	71	Weighted Average
	38.040		91.73% Pervious Area
	3.430		8.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.5	1,164	0.0249	0.66		**Lag/CN Method,**

Summary for Subcatchment 31PS: 31PS

Runoff = 1.21 cfs @ 12.26 hrs, Volume= 0.215 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	14.890	69	Grassland, HSG B
*	0.300	98	Impervious
	15.190	70	Weighted Average
	14.890		98.03% Pervious Area
	0.300		1.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.5	1,250	0.0464	0.89		**Lag/CN Method,**

Summary for Subcatchment 32PS: 32PS

Runoff = 1.41 cfs @ 12.40 hrs, Volume= 0.331 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	26.240	69	Grassland, HSG B
*	0.130	98	Impervious
	26.370	69	Weighted Average
	26.240		99.51% Pervious Area
	0.130		0.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.4	1,498	0.0393	0.82		**Lag/CN Method,**

Summary for Subcatchment 33PS: 33PS

Runoff = 0.14 cfs @ 12.26 hrs, Volume= 0.027 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	2.140	69	Grassland, HSG B
	2.140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	813	0.0271	0.60		**Lag/CN Method,**

Summary for Subcatchment 34PS: 34PS

Runoff = 2.69 cfs @ 12.60 hrs, Volume= 0.688 af, Depth= 0.17"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	47.290	69	Grassland, HSG B
*	1.290	98	Impervious
	48.580	70	Weighted Average
	47.290		97.34% Pervious Area
	1.290		2.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
43.1	1,866	0.0263	0.72		**Lag/CN Method,**

Summary for Subcatchment 35PS: 35PS

Runoff = 2.07 cfs @ 12.11 hrs, Volume= 0.209 af, Depth= 0.21"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	10.590	69	Grassland, HSG B
*	1.180	98	Impervious
	11.770	72	Weighted Average
	10.590		89.97% Pervious Area
	1.180		10.03% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.9	754	0.0531	0.90		**Lag/CN Method,**

Summary for Subcatchment 36PS: 36PS

Runoff = 0.37 cfs @ 12.35 hrs, Volume= 0.127 af, Depth= 0.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	3.230	49	Grassland, HSG A
*	11.490	69	Grassland, HSG B
*	0.550	98	Impervious
	15.270	66	Weighted Average
	14.720		96.40% Pervious Area
	0.550		3.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	962	0.0437	0.73		**Lag/CN Method,**

Summary for Subcatchment 37PS: 37PS

Runoff = 0.96 cfs @ 12.16 hrs, Volume= 0.151 af, Depth= 0.15"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	12.020	69	Grassland, HSG B
	12.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.8	643	0.0373	0.68		**Lag/CN Method,**

Summary for Subcatchment 38PS: 38PS

Runoff = 5.38 cfs @ 13.05 hrs, Volume= 1.583 af, Depth= 0.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 25yr Rainfall=1.80"

	Area (ac)	CN	Description
*	1.470	49	Grassland, HSG A
*	54.060	69	Grassland, HSG B
*	21.180	79	Grassland, HSG C
*	3.700	98	Impervious
	80.410	73	Weighted Average
	76.710		95.40% Pervious Area
	3.700		4.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
75.8	3,791	0.0224	0.83		**Lag/CN Method,**

Summary for Reach 1PR:

Inflow Area = 130.720 ac, 3.14% Impervious, Inflow Depth = 0.11" for 25yr event
Inflow = 3.53 cfs @ 13.00 hrs, Volume= 1.228 af
Outflow = 3.53 cfs @ 13.00 hrs, Volume= 1.228 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 2PR:

Inflow Area = 2,193.920 ac, 3.07% Impervious, Inflow Depth = 0.15" for 25yr event
Inflow = 48.71 cfs @ 13.96 hrs, Volume= 27.046 af
Outflow = 48.71 cfs @ 13.96 hrs, Volume= 27.046 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 3PR:

Inflow Area = 119.470 ac, 4.55% Impervious, Inflow Depth = 0.21" for 25yr event
Inflow = 6.27 cfs @ 13.02 hrs, Volume= 2.070 af
Outflow = 6.27 cfs @ 13.02 hrs, Volume= 2.070 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 4PR:

Inflow Area = 331.770 ac, 4.49% Impervious, Inflow Depth = 0.17" for 25yr event
Inflow = 13.27 cfs @ 12.71 hrs, Volume= 4.809 af
Outflow = 13.27 cfs @ 12.71 hrs, Volume= 4.809 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 5PR:

Inflow Area = 14.570 ac, 5.63% Impervious, Inflow Depth = 0.19" for 25yr event
Inflow = 1.46 cfs @ 12.25 hrs, Volume= 0.232 af
Outflow = 1.46 cfs @ 12.25 hrs, Volume= 0.232 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 6PR:

Inflow Area = 95.440 ac, 2.70% Impervious, Inflow Depth = 0.17" for 25yr event
Inflow = 5.66 cfs @ 12.48 hrs, Volume= 1.371 af
Outflow = 5.66 cfs @ 12.48 hrs, Volume= 1.371 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 7PR:

Inflow Area = 92.280 ac, 1.86% Impervious, Inflow Depth = 0.16" for 25yr event
Inflow = 4.85 cfs @ 12.48 hrs, Volume= 1.261 af
Outflow = 4.85 cfs @ 12.48 hrs, Volume= 1.261 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Subcatchment 1PS: 1PS

Runoff = 8.01 cfs @ 12.89 hrs, Volume= 2.072 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	74.900	69	Grassland, HSG B
*	2.690	98	Impervious
	77.590	70	Weighted Average
	74.900		96.53% Pervious Area
	2.690		3.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
68.3	2,780	0.0198	0.68		**Lag/CN Method,**

Summary for Subcatchment 2PS: 2PS

Runoff = 1.68 cfs @ 12.25 hrs, Volume= 0.227 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	9.300	69	Grassland, HSG B
*	0.010	98	Impervious
	9.310	69	Weighted Average
	9.300		99.89% Pervious Area
	0.010		0.11% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.3	835	0.0240	0.57		**Lag/CN Method,**

Summary for Subcatchment 3PS: 3PS

Runoff = 0.16 cfs @ 16.69 hrs, Volume= 0.133 af, Depth= 0.04"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	32.290	49	Grassland, HSG A
*	10.130	69	Grassland, HSG B
*	1.400	98	Impervious
	43.820	55	Weighted Average
	42.420		96.81% Pervious Area
	1.400		3.19% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
85.9	2,481	0.0226	0.48		**Lag/CN Method,**

Summary for Subcatchment 4PS: 4PS

Runoff = 0.84 cfs @ 16.74 hrs, Volume= 0.706 af, Depth= 0.07"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	67.350	49	Grassland, HSG A
*	49.690	69	Grassland, HSG B
*	2.790	98	Impervious
	119.830	58	Weighted Average
	117.040		97.67% Pervious Area
	2.790		2.33% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
181.4	6,434	0.0200	0.59		**Lag/CN Method,**

Summary for Subcatchment 5PS: 5PS

Runoff = 6.49 cfs @ 13.40 hrs, Volume= 2.425 af, Depth= 0.24"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	15.960	49	Grassland, HSG A
*	102.670	69	Grassland, HSG B
*	2.450	98	Impervious
	121.080	67	Weighted Average
	118.630		97.98% Pervious Area
	2.450		2.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
94.8	3,458	0.0171	0.61		**Lag/CN Method,**

Summary for Subcatchment 6PS: 6PS

Runoff = 4.16 cfs @ 12.28 hrs, Volume= 0.575 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	20.460	69	Grassland, HSG B
*	1.060	98	Impervious
	21.520	70	Weighted Average
	20.460		95.07% Pervious Area
	1.060		4.93% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.5	917	0.0207	0.56		**Lag/CN Method,**

Summary for Subcatchment 7PS: 7PS

Runoff = 4.35 cfs @ 12.83 hrs, Volume= 1.076 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	38.980	69	Grassland, HSG B
*	1.310	98	Impervious
	40.290	70	Weighted Average
	38.980		96.75% Pervious Area
	1.310		3.25% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
64.3	2,047	0.0137	0.53		**Lag/CN Method,**

Summary for Subcatchment 8PS: 8PS

Runoff = 3.71 cfs @ 12.41 hrs, Volume= 0.589 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	18.940	69	Grassland, HSG B
*	1.270	98	Impervious
	20.210	71	Weighted Average
	18.940		93.72% Pervious Area
	1.270		6.28% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.3	1,527	0.0255	0.70		**Lag/CN Method,**

Summary for Subcatchment 9PS: 9PS

Runoff = 4.27 cfs @ 12.13 hrs, Volume= 0.382 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	10.760	69	Grassland, HSG B
*	1.270	98	Impervious
	12.030	72	Weighted Average
	10.760		89.44% Pervious Area
	1.270		10.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.9	805	0.0398	0.79		**Lag/CN Method,**

Summary for Subcatchment 10PS: 10PS

Runoff = 0.62 cfs @ 12.01 hrs, Volume= 0.040 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	1.450	69	Grassland, HSG B
*	0.040	98	Impervious
	1.490	70	Weighted Average
	1.450		97.32% Pervious Area
	0.040		2.68% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	284	0.0423	0.63		**Lag/CN Method,**

Summary for Subcatchment 11PS: 11PS

Runoff = 25.35 cfs @ 13.92 hrs, Volume= 10.407 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	10.790	49	Grassland, HSG A
*	400.770	69	Grassland, HSG B
*	3.910	79	Grassland, HSG C
*	11.740	98	Impervious
	427.210	69	Weighted Average
	415.470		97.25% Pervious Area
	11.740		2.75% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
129.3	9,180	0.0394	1.18		**Lag/CN Method,**

Summary for Subcatchment 12PS: 12PS

Runoff = 6.37 cfs @ 13.17 hrs, Volume= 2.273 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	22.540	49	Grassland, HSG A
*	99.480	69	Grassland, HSG B
*	3.980	98	Impervious
	126.000	66	Weighted Average
	122.020		96.84% Pervious Area
	3.980		3.16% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
79.4	4,460	0.0386	0.94		**Lag/CN Method,**

Summary for Subcatchment 13PS: 13PS

Runoff = 4.48 cfs @ 12.27 hrs, Volume= 0.604 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	22.040	69	Grassland, HSG B
*	0.590	98	Impervious
	22.630	70	Weighted Average
	22.040		97.39% Pervious Area
	0.590		2.61% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.7	1,653	0.0563	1.03		**Lag/CN Method,**

Summary for Subcatchment 14PS: 14PS

Runoff = 22.98 cfs @ 12.04 hrs, Volume= 1.484 af, Depth= 1.77"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	0.860	69	Grassland, HSG B
*	9.210	98	Impervious
	10.070	96	Weighted Average
	0.860		8.54% Pervious Area
	9.210		91.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.2	858	0.0128	1.08		**Lag/CN Method,**

Summary for Subcatchment 15PS: 15PS

Runoff = 47.69 cfs @ 14.13 hrs, Volume= 20.437 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	34.910	49	Grassland, HSG A
*	778.320	69	Grassland, HSG B
*	4.290	79	Grassland, HSG C
*	21.440	98	Impervious
	838.960	69	Weighted Average
	817.520		97.44% Pervious Area
	21.440		2.56% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
140.0	8,209	0.0281	0.98		**Lag/CN Method,**

Summary for Subcatchment 16PS: 16PS

Runoff = 10.62 cfs @ 13.37 hrs, Volume= 3.607 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	6.640	49	Grassland, HSG A
*	131.510	69	Grassland, HSG B
*	5.670	79	Grassland, HSG C
*	4.240	98	Impervious
	148.060	69	Weighted Average
	143.820		97.14% Pervious Area
	4.240		2.86% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
96.8	5,558	0.0315	0.96		**Lag/CN Method,**

Summary for Subcatchment 17PS: 17PS

Runoff = 8.37 cfs @ 13.28 hrs, Volume= 2.632 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	93.520	69	Grassland, HSG B
*	0.900	79	Grassland, HSG C
*	4.160	98	Impervious
	98.580	70	Weighted Average
	94.420		95.78% Pervious Area
	4.160		4.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.0	5,098	0.0288	0.92		**Lag/CN Method,**

Summary for Subcatchment 18PS: 18PS

Runoff = 14.68 cfs @ 13.50 hrs, Volume= 5.182 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	189.100	69	Grassland, HSG B
*	0.620	79	Grassland, HSG C
*	4.380	98	Impervious
	194.100	70	Weighted Average
	189.720		97.74% Pervious Area
	4.380		2.26% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
107.3	5,588	0.0245	0.87		**Lag/CN Method,**

Summary for Subcatchment 19PS: 19PS

Runoff = 4.90 cfs @ 12.41 hrs, Volume= 0.811 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	28.880	69	Grassland, HSG B
*	1.500	98	Impervious
	30.380	70	Weighted Average
	28.880		95.06% Pervious Area
	1.500		4.94% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.7	1,535	0.0280	0.72		**Lag/CN Method,**

Summary for Subcatchment 20PS: 20PS

Runoff = 1.45 cfs @ 12.10 hrs, Volume= 0.135 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	5.540	69	Grassland, HSG B
	5.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.1	477	0.0294	0.57		**Lag/CN Method,**

Summary for Subcatchment 21PS: 21PS

Runoff = 10.71 cfs @ 12.46 hrs, Volume= 1.893 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	69.470	69	Grassland, HSG B
*	1.430	98	Impervious
	70.900	70	Weighted Average
	69.470		97.98% Pervious Area
	1.430		2.02% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
39.3	2,203	0.0413	0.94		**Lag/CN Method,**

Summary for Subcatchment 22PS: 22PS

Runoff = 2.53 cfs @ 12.04 hrs, Volume= 0.166 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	4.760	69	Grassland, HSG B
*	0.460	98	Impervious
	5.220	72	Weighted Average
	4.760		91.19% Pervious Area
	0.460		8.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.7	603	0.0763	1.04		**Lag/CN Method,**

Summary for Subcatchment 23PS: 23PS

Runoff = 2.09 cfs @ 12.13 hrs, Volume= 0.184 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	4.550	69	Grassland, HSG B
*	0.780	98	Impervious
	5.330	73	Weighted Average
	4.550		85.37% Pervious Area
	0.780		14.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.6	473	0.0148	0.45		**Lag/CN Method,**

Summary for Subcatchment 24PS: 24PS

Runoff = 2.72 cfs @ 12.21 hrs, Volume= 0.341 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	13.780	69	Grassland, HSG B
*	0.220	98	Impervious
	14.000	69	Weighted Average
	13.780		98.43% Pervious Area
	0.220		1.57% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	1,204	0.0532	0.92		**Lag/CN Method,**

Summary for Subcatchment 25PS: 25PS

Runoff = 2.23 cfs @ 12.05 hrs, Volume= 0.168 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	6.880	69	Grassland, HSG B
	6.880		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
9.6	488	0.0656	0.85		**Lag/CN Method,**

Summary for Subcatchment 26PS: 26PS

Runoff = 18.04 cfs @ 12.64 hrs, Volume= 3.842 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	139.330	69	Grassland, HSG B
*	4.580	98	Impervious
	143.910	70	Weighted Average
	139.330		96.82% Pervious Area
	4.580		3.18% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
51.2	2,319	0.0263	0.75		**Lag/CN Method,**

Summary for Subcatchment 27PS: 27PS

Runoff = 3.65 cfs @ 12.22 hrs, Volume= 0.425 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	13.750	69	Grassland, HSG B
*	0.820	98	Impervious
	14.570	71	Weighted Average
	13.750		94.37% Pervious Area
	0.820		5.63% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.4	1,092	0.0357	0.78		**Lag/CN Method,**

Summary for Subcatchment 28PS: 28PS

Runoff = 13.21 cfs @ 12.43 hrs, Volume= 2.259 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	82.740	69	Grassland, HSG B
*	1.880	98	Impervious
	84.620	70	Weighted Average
	82.740		97.78% Pervious Area
	1.880		2.22% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.3	1,958	0.0378	0.87		**Lag/CN Method,**

Summary for Subcatchment 29PS: 29PS

Runoff = 3.56 cfs @ 12.11 hrs, Volume= 0.315 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	10.120	69	Grassland, HSG B
*	0.700	98	Impervious
	10.820	71	Weighted Average
	10.120		93.53% Pervious Area
	0.700		6.47% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.7	923	0.0607	0.98		**Lag/CN Method,**

Summary for Subcatchment 30PS: 30PS

Runoff = 8.83 cfs @ 12.31 hrs, Volume= 1.209 af, Depth= 0.35"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	38.040	69	Grassland, HSG B
*	3.430	98	Impervious
	41.470	71	Weighted Average
	38.040		91.73% Pervious Area
	3.430		8.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.5	1,164	0.0249	0.66		**Lag/CN Method,**

Summary for Subcatchment 31PS: 31PS

Runoff = 3.28 cfs @ 12.23 hrs, Volume= 0.406 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	14.890	69	Grassland, HSG B
*	0.300	98	Impervious
	15.190	70	Weighted Average
	14.890		98.03% Pervious Area
	0.300		1.97% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.5	1,250	0.0464	0.89		**Lag/CN Method,**

Summary for Subcatchment 32PS: 32PS

Runoff = 4.07 cfs @ 12.34 hrs, Volume= 0.642 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	26.240	69	Grassland, HSG B
*	0.130	98	Impervious
	26.370	69	Weighted Average
	26.240		99.51% Pervious Area
	0.130		0.49% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.4	1,498	0.0393	0.82		**Lag/CN Method,**

Summary for Subcatchment 33PS: 33PS

Runoff = 0.41 cfs @ 12.22 hrs, Volume= 0.052 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	2.140	69	Grassland, HSG B
	2.140		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.4	813	0.0271	0.60		**Lag/CN Method,**

Summary for Subcatchment 34PS: 34PS

Runoff = 6.89 cfs @ 12.52 hrs, Volume= 1.297 af, Depth= 0.32"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	47.290	69	Grassland, HSG B
*	1.290	98	Impervious
	48.580	70	Weighted Average
	47.290		97.34% Pervious Area
	1.290		2.66% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
43.1	1,866	0.0263	0.72		**Lag/CN Method,**

Summary for Subcatchment 35PS: 35PS

Runoff = 4.73 cfs @ 12.09 hrs, Volume= 0.374 af, Depth= 0.38"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	10.590	69	Grassland, HSG B
*	1.180	98	Impervious
	11.770	72	Weighted Average
	10.590		89.97% Pervious Area
	1.180		10.03% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.9	754	0.0531	0.90		**Lag/CN Method,**

Summary for Subcatchment 36PS: 36PS

Runoff = 1.69 cfs @ 12.24 hrs, Volume= 0.275 af, Depth= 0.22"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	3.230	49	Grassland, HSG A
*	11.490	69	Grassland, HSG B
*	0.550	98	Impervious
	15.270	66	Weighted Average
	14.720		96.40% Pervious Area
	0.550		3.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.9	962	0.0437	0.73		**Lag/CN Method,**

Summary for Subcatchment 37PS: 37PS

Runoff = 2.92 cfs @ 12.12 hrs, Volume= 0.293 af, Depth= 0.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	12.020	69	Grassland, HSG B
	12.020		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.8	643	0.0373	0.68		**Lag/CN Method,**

Summary for Subcatchment 38PS: 38PS

Runoff = 11.19 cfs @ 12.95 hrs, Volume= 2.770 af, Depth= 0.41"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs
Type II 24-hr 100yr Rainfall=2.20"

	Area (ac)	CN	Description
*	1.470	49	Grassland, HSG A
*	54.060	69	Grassland, HSG B
*	21.180	79	Grassland, HSG C
*	3.700	98	Impervious
	80.410	73	Weighted Average
	76.710		95.40% Pervious Area
	3.700		4.60% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
75.8	3,791	0.0224	0.83		**Lag/CN Method,**

Summary for Reach 1PR:

Inflow Area = 130.720 ac, 3.14% Impervious, Inflow Depth = 0.22" for 100yr event
Inflow = 8.55 cfs @ 12.87 hrs, Volume= 2.431 af
Outflow = 8.55 cfs @ 12.87 hrs, Volume= 2.431 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 2PR:

Inflow Area = 2,193.920 ac, 3.07% Impervious, Inflow Depth = 0.29" for 100yr event
Inflow = 114.95 cfs @ 13.71 hrs, Volume= 52.155 af
Outflow = 114.95 cfs @ 13.71 hrs, Volume= 52.155 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 3PR:

Inflow Area = 119.470 ac, 4.55% Impervious, Inflow Depth = 0.37" for 100yr event
Inflow = 13.02 cfs @ 12.92 hrs, Volume= 3.712 af
Outflow = 13.02 cfs @ 12.92 hrs, Volume= 3.712 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 4PR:

Inflow Area = 331.770 ac, 4.49% Impervious, Inflow Depth = 0.33" for 100yr event
Inflow = 32.27 cfs @ 12.57 hrs, Volume= 9.011 af
Outflow = 32.27 cfs @ 12.57 hrs, Volume= 9.011 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 5PR:

Inflow Area = 14.570 ac, 5.63% Impervious, Inflow Depth = 0.35" for 100yr event
Inflow = 3.65 cfs @ 12.22 hrs, Volume= 0.425 af
Outflow = 3.65 cfs @ 12.22 hrs, Volume= 0.425 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Summary for Reach 6PR:

Inflow Area = 95.440 ac, 2.70% Impervious, Inflow Depth = 0.32" for 100yr event
Inflow = 14.48 cfs @ 12.41 hrs, Volume= 2.575 af
Outflow = 14.48 cfs @ 12.41 hrs, Volume= 2.575 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

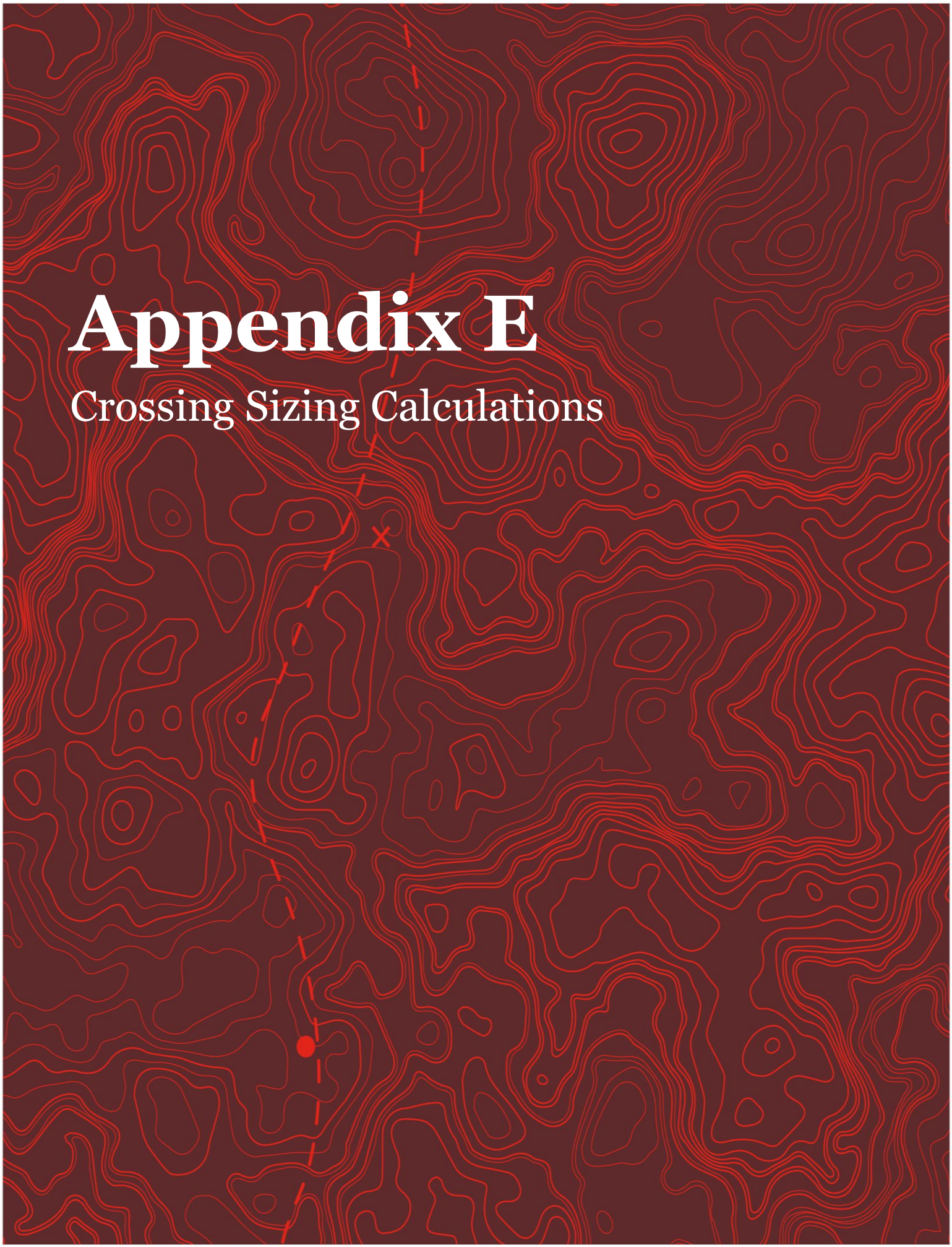
Summary for Reach 7PR:

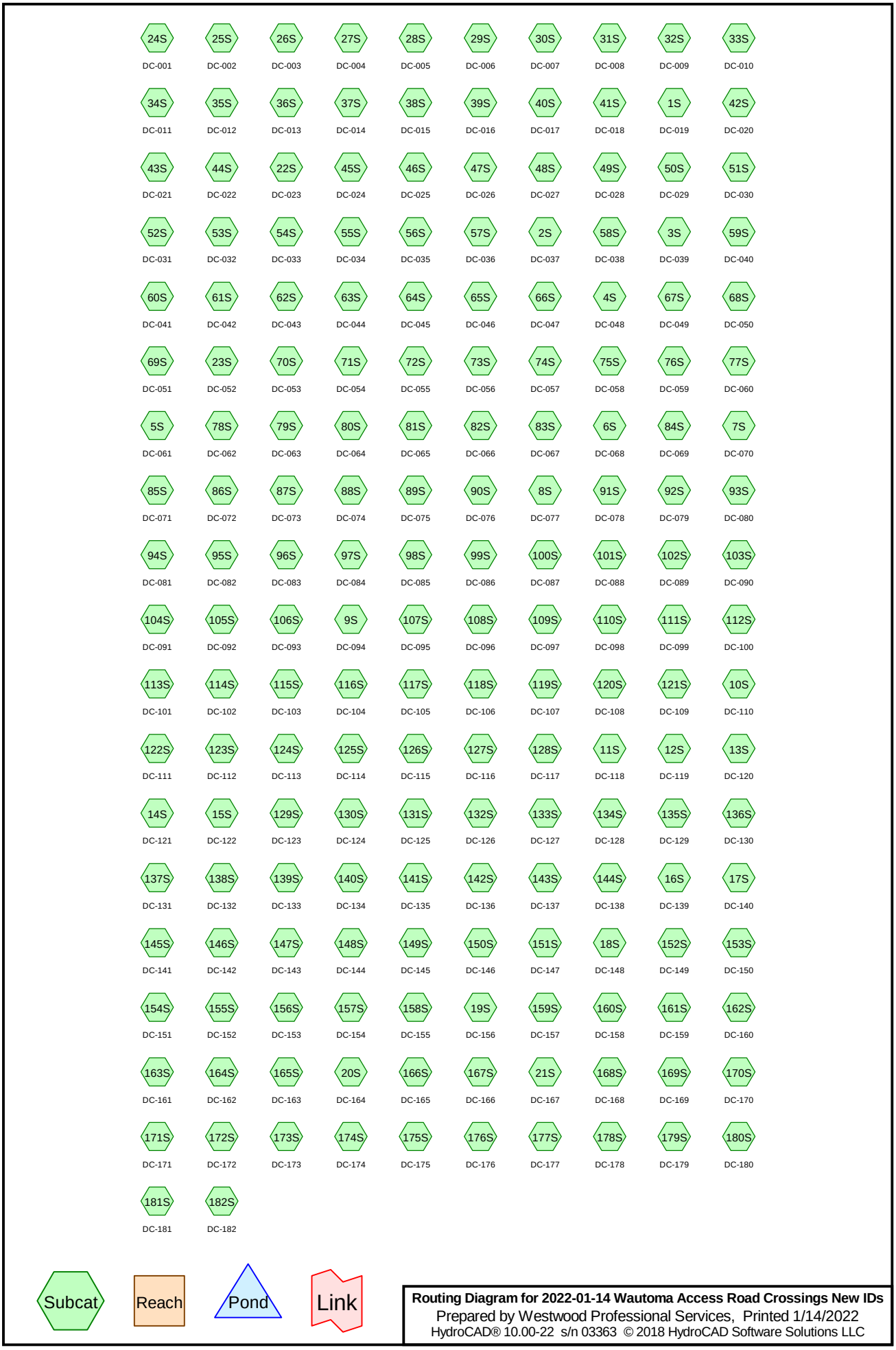
Inflow Area = 92.280 ac, 1.86% Impervious, Inflow Depth = 0.31" for 100yr event
Inflow = 12.89 cfs @ 12.38 hrs, Volume= 2.397 af
Outflow = 12.89 cfs @ 12.38 hrs, Volume= 2.397 af, Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-240.00 hrs, dt= 0.05 hrs

Appendix E

Crossing Sizing Calculations





Routing Diagram for 2022-01-14 Wautoma Access Road Crossings New IDs

Prepared by Westwood Professional Services, Printed 1/14/2022

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Area Listing (all nodes)

Area (acres)	CN	Description (subcatchment-numbers)
47,653.868	79	(1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S, 9S, 10S, 11S, 12S, 13S, 14S, 15S, 16S, 17S, 18S, 19S, 20S, 21S, 22S, 23S, 24S, 25S, 26S, 27S, 28S, 29S, 30S, 31S, 32S, 33S, 34S, 35S, 36S, 37S, 38S, 39S, 40S, 41S, 42S, 43S, 44S, 45S, 46S, 47S, 48S, 49S, 50S, 51S, 52S, 53S, 54S, 55S, 56S, 57S, 58S, 59S, 60S, 61S, 62S, 63S, 64S, 65S, 66S, 67S, 68S, 69S, 70S, 71S, 72S, 73S, 74S, 75S, 76S, 77S, 78S, 79S, 80S, 81S, 82S, 83S, 84S, 85S, 86S, 87S, 88S, 89S, 90S, 91S, 92S, 93S, 94S, 95S, 96S, 97S, 98S, 99S, 100S, 101S, 102S, 103S, 104S, 105S, 106S, 107S, 108S, 109S, 110S, 111S, 112S, 113S, 114S, 115S, 116S, 117S, 118S, 119S, 120S, 121S, 122S, 123S, 124S, 125S, 126S, 127S, 128S, 129S, 130S, 131S, 132S, 133S, 134S, 135S, 136S, 137S, 138S, 139S, 140S, 141S, 142S, 143S, 144S, 145S, 146S, 147S, 148S, 149S, 150S, 151S, 152S, 153S, 154S, 155S, 156S, 157S, 158S, 159S, 160S, 161S, 162S, 163S, 164S, 165S, 166S, 167S, 168S, 169S, 170S, 171S, 172S, 173S, 174S, 175S, 176S, 177S, 178S, 179S, 180S, 181S, 182S)
47,653.868	**79**	**TOTAL AREA**

Soil Listing (all nodes)

Area (acres)	Soil Group	Subcatchment Numbers
0.000	HSG A	
0.000	HSG B	
0.000	HSG C	
0.000	HSG D	
47,653.868	Other	1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S, 9S, 10S, 11S, 12S, 13S, 14S, 15S, 16S, 17S, 18S, 19S, 20S, 21S, 22S, 23S, 24S, 25S, 26S, 27S, 28S, 29S, 30S, 31S, 32S, 33S, 34S, 35S, 36S, 37S, 38S, 39S, 40S, 41S, 42S, 43S, 44S, 45S, 46S, 47S, 48S, 49S, 50S, 51S, 52S, 53S, 54S, 55S, 56S, 57S, 58S, 59S, 60S, 61S, 62S, 63S, 64S, 65S, 66S, 67S, 68S, 69S, 70S, 71S, 72S, 73S, 74S, 75S, 76S, 77S, 78S, 79S, 80S, 81S, 82S, 83S, 84S, 85S, 86S, 87S, 88S, 89S, 90S, 91S, 92S, 93S, 94S, 95S, 96S, 97S, 98S, 99S, 100S, 101S, 102S, 103S, 104S, 105S, 106S, 107S, 108S, 109S, 110S, 111S, 112S, 113S, 114S, 115S, 116S, 117S, 118S, 119S, 120S, 121S, 122S, 123S, 124S, 125S, 126S, 127S, 128S, 129S, 130S, 131S, 132S, 133S, 134S, 135S, 136S, 137S, 138S, 139S, 140S, 141S, 142S, 143S, 144S, 145S, 146S, 147S, 148S, 149S, 150S, 151S, 152S, 153S, 154S, 155S, 156S, 157S, 158S, 159S, 160S, 161S, 162S, 163S, 164S, 165S, 166S, 167S, 168S, 169S, 170S, 171S, 172S, 173S, 174S, 175S, 176S, 177S, 178S, 179S, 180S, 181S, 182S
47,653.868		**TOTAL AREA**

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	0.000	47,653.868	47,653.868		1S, 2S, 3S, 4S, 5S, 6S, 7S, 8S, 9S, 10S, 11S, 12S, 13S, 14S, 15S, 16S, 17S, 18S, 19S, 20S, 21S, 22S, 23S, 24S, 25S, 26S, 27S, 28S, 29S, 30S, 31S, 32S, 33S, 34S, 35S, 36S, 37S, 38S, 39S, 40S, 41S, 42S, 43S, 44S, 45S, 46S, 47S, 48S, 49S, 50S, 51S, 52S, 53S, 54S, 55S, 56S, 57S, 58S, 59S, 60S, 61S, 62S, 63S, 64S, 65S, 66S, 67S, 68S, 69S, 70S, 71S, 72S, 73S, 74S, 75S, 76S, 77S, 78S, 79S, 80S, 81S, 82S, 83S, 84S, 85S, 86S, 87S, 88S, 89S, 90S, 91S, 92S, 93S, 94S, 95S, 96S, 97S, 98S, 99S, 100S, 101S, 102S, 103S, 104S, 105S, 106S, 107S, 108S, 109S, 110S, 111S, 112S, 113S, 114S, 115S, 116S, 117S, 118S, 119S, 120S, 121S, 122S, 123S, 124S, 125S, 126S, 127S, 128S, 129S, 130S, 131S, 132S, 133S, 134S, 135S, 136S, 137S, 138S, 139S, 140S, 141S, 142S, 143S, 144S, 145S, 146S, 147S, 148S, 149S, 150S, 151S, 152S, 153S, 154S, 155S, 156S, 157S, 158S, 159S, 160S, 161S, 162S, 163S, 164S, 165S, 166S, 167S, 168S, 169S, 170S, 171S, 172S, 173S, 174S, 175S, 176S, 177S, 178S, 179S,

Ground Covers (all nodes) (continued)

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**	**0.000**	**47,653.868**	**47,653.868**	**TOTAL AREA**	

Time span=0.00-30.00 hrs, dt=0.05 hrs, 601 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 1S: DC-019 Runoff Area=5.688 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,685' Slope=0.0318 '/' Tc=27.9 min CN=79 Runoff=0.97 cfs 0.123 af

Subcatchment 2S: DC-037 Runoff Area=0.836 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=382' Slope=0.0461 '/' Tc=7.1 min CN=79 Runoff=0.31 cfs 0.018 af

Subcatchment 3S: DC-039 Runoff Area=3.199 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=894' Slope=0.0683 '/' Tc=11.5 min CN=79 Runoff=0.97 cfs 0.069 af

Subcatchment 4S: DC-048 Runoff Area=1.415 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=686' Slope=0.0516 '/' Tc=10.7 min CN=79 Runoff=0.45 cfs 0.030 af

Subcatchment 5S: DC-061 Runoff Area=5.538 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,260' Slope=0.0710 '/' Tc=14.8 min CN=79 Runoff=1.46 cfs 0.119 af

Subcatchment 6S: DC-068 Runoff Area=1.247 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=389' Slope=0.0427 '/' Tc=7.5 min CN=79 Runoff=0.46 cfs 0.027 af

Subcatchment 7S: DC-070 Runoff Area=5.481 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=983' Slope=0.0356 '/' Tc=17.1 min CN=79 Runoff=1.31 cfs 0.118 af

Subcatchment 8S: DC-077 Runoff Area=74.600 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,600' Slope=0.0320 '/' Tc=62.1 min CN=79 Runoff=7.26 cfs 1.607 af

Subcatchment 9S: DC-094 Runoff Area=3.142 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=924' Slope=0.0199 '/' Tc=21.8 min CN=79 Runoff=0.64 cfs 0.068 af

Subcatchment 10S: DC-110 Runoff Area=6.973 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,217' Slope=0.0439 '/' Tc=18.3 min CN=79 Runoff=1.60 cfs 0.150 af

Subcatchment 11S: DC-118 Runoff Area=15.965 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,249' Slope=0.1048 '/' Tc=12.1 min CN=79 Runoff=4.72 cfs 0.344 af

Subcatchment 12S: DC-119 Runoff Area=613.160 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=14,097' Slope=0.1690 '/' Tc=66.2 min CN=79 Runoff=56.69 cfs 13.212 af

Subcatchment 13S: DC-120 Runoff Area=4.540 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,236' Slope=0.0662 '/' Tc=15.1 min CN=79 Runoff=1.18 cfs 0.098 af

Subcatchment 14S: DC-121 Runoff Area=57.442 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,938' Slope=0.0751 '/' Tc=35.8 min CN=79 Runoff=8.23 cfs 1.238 af

Subcatchment 15S: DC-122 Runoff Area=7.086 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,493' Slope=0.0601 '/' Tc=18.4 min CN=79 Runoff=1.62 cfs 0.153 af

Subcatchment 16S: DC-139 Runoff Area=4.100 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=300' Slope=0.0525 '/' Tc=5.5 min CN=79 Runoff=1.64 cfs 0.088 af

Subcatchment 17S: DC-140 Runoff Area=4.700 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=500' Slope=0.0309 '/' Tc=10.7 min CN=79 Runoff=1.48 cfs 0.101 af

Subcatchment 18S: DC-148 Runoff Area=4.390 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=840' Slope=0.0439 '/' Tc=13.6 min CN=79 Runoff=1.21 cfs 0.095 af

Subcatchment 19S: DC-156 Runoff Area=5.040 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=930' Slope=0.0360 '/' Tc=16.3 min CN=79 Runoff=1.25 cfs 0.109 af

Subcatchment 20S: DC-164 Runoff Area=5.400 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=663' Slope=0.0331 '/' Tc=13.0 min CN=79 Runoff=1.52 cfs 0.116 af

Subcatchment 21S: DC-167 Runoff Area=32.460 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,565' Slope=0.0595 '/' Tc=28.5 min CN=79 Runoff=5.47 cfs 0.699 af

Subcatchment 22S: DC-023 Runoff Area=854.320 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=19,272' Slope=0.1103 '/' Tc=105.2 min CN=79 Runoff=56.77 cfs 18.408 af

Subcatchment 23S: DC-052 Runoff Area=20.180 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,284' Slope=0.1091 '/' Tc=25.7 min CN=79 Runoff=3.67 cfs 0.435 af

Subcatchment 24S: DC-001 Runoff Area=169.392 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=6,051' Slope=0.1068 '/' Tc=42.3 min CN=79 Runoff=21.53 cfs 3.650 af

Subcatchment 25S: DC-002 Runoff Area=17.035 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,621' Slope=0.0257 '/' Tc=44.2 min CN=79 Runoff=2.10 cfs 0.367 af

Subcatchment 26S: DC-003 Runoff Area=13.594 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,107' Slope=0.0267 '/' Tc=36.4 min CN=79 Runoff=1.93 cfs 0.293 af

Subcatchment 27S: DC-004 Runoff Area=157.886 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,994' Slope=0.1237 '/' Tc=33.7 min CN=79 Runoff=23.62 cfs 3.402 af

Subcatchment 28S: DC-005 Runoff Area=45.452 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,471' Slope=0.0564 '/' Tc=53.7 min CN=79 Runoff=4.87 cfs 0.979 af

Subcatchment 29S: DC-006 Runoff Area=17.419 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,023' Slope=0.0262 '/' Tc=49.1 min CN=79 Runoff=2.00 cfs 0.375 af

Subcatchment 30S: DC-007 Runoff Area=5,998.508 ac 0.00% Impervious Runoff Depth>0.26"
Flow Length=30,518' Slope=0.0657 '/' Tc=197.0 min CN=79 Runoff=262.89 cfs 129.040 af

Subcatchment 31S: DC-008 Runoff Area=45.077 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,039' Slope=0.0261 '/' Tc=62.0 min CN=79 Runoff=4.39 cfs 0.971 af

Subcatchment 32S: DC-009 Runoff Area=13.788 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,546' Slope=0.0210 '/' Tc=47.8 min CN=79 Runoff=1.61 cfs 0.297 af

Subcatchment 33S: DC-010 Runoff Area=8.613 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,877' Slope=0.0227 '/' Tc=36.0 min CN=79 Runoff=1.23 cfs 0.186 af

Subcatchment 34S: DC-011 Runoff Area=53.973 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,420' Slope=0.0256 '/' Tc=79.2 min CN=79 Runoff=4.38 cfs 1.163 af

Subcatchment 35S: DC-012 Runoff Area=6.208 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,255' Slope=0.0213 '/' Tc=26.9 min CN=79 Runoff=1.09 cfs 0.134 af

Subcatchment 36S: DC-013 Runoff Area=17.264 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,785' Slope=0.0231 '/' Tc=48.9 min CN=79 Runoff=1.98 cfs 0.372 af

Subcatchment 37S: DC-014 Runoff Area=6,051.355 ac 0.00% Impervious Runoff Depth>0.26"
Tc=197.0 min CN=79 Runoff=265.21 cfs 130.177 af

Subcatchment 38S: DC-015 Runoff Area=1,458.524 ac 0.00% Impervious Runoff Depth>0.26"
Flow Length=23,602' Slope=0.0946 '/' Tc=133.6 min CN=79 Runoff=82.90 cfs 31.425 af

Subcatchment 39S: DC-016 Runoff Area=170.448 ac 0.00% Impervious Runoff Depth>0.26"
Flow Length=8,650' Slope=0.0233 '/' Tc=120.6 min CN=79 Runoff=10.40 cfs 3.673 af

Subcatchment 40S: DC-017 Runoff Area=19.905 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,490' Slope=0.0308 '/' Tc=38.7 min CN=79 Runoff=2.70 cfs 0.429 af

Subcatchment 41S: DC-018 Runoff Area=17.007 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,088' Slope=0.0332 '/' Tc=32.4 min CN=79 Runoff=2.62 cfs 0.366 af

Subcatchment 42S: DC-020 Runoff Area=1,380.393 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=20,434' Slope=0.1071 '/' Tc=111.9 min CN=79 Runoff=87.60 cfs 29.744 af

Subcatchment 43S: DC-021 Runoff Area=423.737 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=9,746' Slope=0.0674 '/' Tc=78.0 min CN=79 Runoff=34.78 cfs 9.130 af

Subcatchment 44S: DC-022 Runoff Area=102.944 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,228' Slope=0.1057 '/' Tc=25.7 min CN=79 Runoff=18.72 cfs 2.218 af

Subcatchment 45S: DC-024 Runoff Area=23.124 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,373' Slope=0.0492 '/' Tc=39.1 min CN=79 Runoff=3.11 cfs 0.498 af

Subcatchment 46S: DC-025 Runoff Area=35.047 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,628' Slope=0.0566 '/' Tc=29.8 min CN=79 Runoff=5.73 cfs 0.755 af

Subcatchment 47S: DC-026 Runoff Area=11.184 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,711' Slope=0.0468 '/' Tc=23.3 min CN=79 Runoff=2.18 cfs 0.241 af

Subcatchment 48S: DC-027 Runoff Area=1,463.992 ac 0.00% Impervious Runoff Depth>0.26"
Flow Length=23,918' Slope=0.0950 '/' Tc=134.8 min CN=79 Runoff=81.23 cfs 31.543 af

Subcatchment 49S: DC-028 Runoff Area=115.063 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,965' Slope=0.0421 '/' Tc=57.6 min CN=79 Runoff=11.77 cfs 2.479 af

Subcatchment 50S: DC-029 Runoff Area=16.582 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,807' Slope=0.0362 '/' Tc=39.3 min CN=79 Runoff=2.23 cfs 0.357 af

Subcatchment 51S: DC-030 Runoff Area=245.259 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=6,221' Slope=0.0357 '/' Tc=74.9 min CN=79 Runoff=20.79 cfs 5.285 af

Subcatchment 52S: DC-031 Runoff Area=247.975 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=6,923' Slope=0.0343 '/' Tc=83.2 min CN=79 Runoff=19.63 cfs 5.343 af

Subcatchment 53S: DC-032 Runoff Area=30.852 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,066' Slope=0.0296 '/' Tc=46.7 min CN=79 Runoff=3.65 cfs 0.665 af

Subcatchment 54S: DC-033 Runoff Area=18.826 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,559' Slope=0.0336 '/' Tc=37.9 min CN=79 Runoff=2.59 cfs 0.406 af

Subcatchment 55S: DC-034 Runoff Area=1,104.036 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=19,853' Slope=0.1235 '/' Tc=101.8 min CN=79 Runoff=75.11 cfs 23.789 af

Subcatchment 56S: DC-035 Runoff Area=34.989 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,827' Slope=0.0298 '/' Tc=55.6 min CN=79 Runoff=3.68 cfs 0.754 af

Subcatchment 57S: DC-036 Runoff Area=15.693 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,995' Slope=0.0221 '/' Tc=53.0 min CN=79 Runoff=1.71 cfs 0.338 af

Subcatchment 58S: DC-038 Runoff Area=8.108 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,083' Slope=0.0663 '/' Tc=13.6 min CN=79 Runoff=2.23 cfs 0.175 af

Subcatchment 59S: DC-040 Runoff Area=53.413 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,676' Slope=0.0571 '/' Tc=55.0 min CN=79 Runoff=5.66 cfs 1.151 af

Subcatchment 60S: DC-041 Runoff Area=1,087.470 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=17,794' Slope=0.1369 '/' Tc=88.6 min CN=79 Runoff=82.08 cfs 23.432 af

Subcatchment 61S: DC-042 Runoff Area=10.930 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,044' Slope=0.0343 '/' Tc=31.4 min CN=79 Runoff=1.72 cfs 0.236 af

Subcatchment 62S: DC-043 Runoff Area=230.429 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=7,854' Slope=0.0849 '/' Tc=58.5 min CN=79 Runoff=23.29 cfs 4.965 af

Subcatchment 63S: DC-044 Runoff Area=558.434 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=17,213' Slope=0.1404 '/' Tc=85.2 min CN=79 Runoff=43.08 cfs 12.033 af

Subcatchment 64S: DC-045 Runoff Area=47.182 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,263' Slope=0.0679 '/' Tc=47.5 min CN=79 Runoff=5.52 cfs 1.017 af

Subcatchment 65S: DC-046 Runoff Area=6.859 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,410' Slope=0.0472 '/' Tc=19.9 min CN=79 Runoff=1.49 cfs 0.148 af

Subcatchment 66S: DC-047 Runoff Area=18.105 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,936' Slope=0.0730 '/' Tc=20.6 min CN=79 Runoff=3.85 cfs 0.390 af

Subcatchment 67S: DC-049 Runoff Area=502.771 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=15,576' Slope=0.1523 '/' Tc=75.5 min CN=79 Runoff=42.40 cfs 10.833 af

Subcatchment 68S: DC-050 Runoff Area=2.919 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,004' Slope=0.0502 '/' Tc=14.7 min CN=79 Runoff=0.77 cfs 0.063 af

Subcatchment 69S: DC-051 Runoff Area=180.764 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,741' Slope=0.1042 '/' Tc=41.1 min CN=79 Runoff=23.51 cfs 3.895 af

Subcatchment 70S: DC-053 Runoff Area=95.826 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,794' Slope=0.1181 '/' Tc=33.4 min CN=79 Runoff=14.45 cfs 2.065 af

Subcatchment 71S: DC-054 Runoff Area=94.979 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,462' Slope=0.1223 '/' Tc=31.0 min CN=79 Runoff=15.12 cfs 2.047 af

Subcatchment 72S: DC-055 Runoff Area=493.799 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=14,520' Slope=0.1574 '/' Tc=70.2 min CN=79 Runoff=44.07 cfs 10.640 af

Subcatchment 73S: DC-056 Runoff Area=8.663 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=847' Slope=0.1647 '/' Tc=7.1 min CN=79 Runoff=3.24 cfs 0.187 af

Subcatchment 74S: DC-057 Runoff Area=24.346 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,386' Slope=0.0816 '/' Tc=30.4 min CN=79 Runoff=3.92 cfs 0.525 af

Subcatchment 75S: DC-058 Runoff Area=35.709 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,213' Slope=0.0750 '/' Tc=37.8 min CN=79 Runoff=4.93 cfs 0.769 af

Subcatchment 76S: DC-059 Runoff Area=7.006 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,908' Slope=0.0815 '/' Tc=19.2 min CN=79 Runoff=1.56 cfs 0.151 af

Subcatchment 77S: DC-060 Runoff Area=18.609 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,913' Slope=0.1306 '/' Tc=21.3 min CN=79 Runoff=3.85 cfs 0.401 af

Subcatchment 78S: DC-062 Runoff Area=8.952 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,603' Slope=0.0918 '/' Tc=15.8 min CN=79 Runoff=2.26 cfs 0.193 af

Subcatchment 79S: DC-063 Runoff Area=17.326 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,473' Slope=0.0206 '/' Tc=47.1 min CN=79 Runoff=2.04 cfs 0.373 af

Subcatchment 80S: DC-064 Runoff Area=1,166.263 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=21,173' Slope=0.1169 '/' Tc=110.2 min CN=79 Runoff=75.05 cfs 25.130 af

Subcatchment 81S: DC-065 Runoff Area=61.327 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,179' Slope=0.0244 '/' Tc=78.2 min CN=79 Runoff=5.05 cfs 1.321 af

Subcatchment 82S: DC-066 Runoff Area=1,232.711 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=21,490' Slope=0.1125 '/' Tc=113.7 min CN=79 Runoff=78.40 cfs 26.561 af

Subcatchment 83S: DC-067 Runoff Area=1,703.519 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=20,645' Slope=0.1209 '/' Tc=106.2 min CN=79 Runoff=113.45 cfs 36.706 af

Subcatchment 84S: DC-069 Runoff Area=22.274 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,323' Slope=0.0102 '/' Tc=63.7 min CN=79 Runoff=2.13 cfs 0.480 af

Subcatchment 85S: DC-071 Runoff Area=19.249 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,918' Slope=0.0206 '/' Tc=53.8 min CN=79 Runoff=2.06 cfs 0.415 af

Subcatchment 86S: DC-072 Runoff Area=1,697.803 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=19,589' Slope=0.1279 '/' Tc=99.0 min CN=79 Runoff=118.82 cfs 36.583 af

Subcatchment 87S: DC-073 Runoff Area=12.229 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,653' Slope=0.0105 '/' Tc=47.8 min CN=79 Runoff=1.43 cfs 0.264 af

Subcatchment 88S: DC-074 Runoff Area=660.808 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=13,200' Slope=0.0721 '/' Tc=96.2 min CN=79 Runoff=46.67 cfs 14.239 af

Subcatchment 89S: DC-075 Runoff Area=22.833 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,411' Slope=0.0165 '/' Tc=51.6 min CN=79 Runoff=2.52 cfs 0.492 af

Subcatchment 90S: DC-076 Runoff Area=77.359 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,499' Slope=0.0313 '/' Tc=61.7 min CN=79 Runoff=7.51 cfs 1.667 af

Subcatchment 91S: DC-078 Runoff Area=555.494 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=11,986' Slope=0.0727 '/' Tc=88.7 min CN=79 Runoff=42.00 cfs 11.969 af

Subcatchment 92S: DC-079 Runoff Area=89.963 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,462' Slope=0.0364 '/' Tc=66.8 min CN=79 Runoff=8.33 cfs 1.938 af

Subcatchment 93S: DC-080 Runoff Area=12.855 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,579' Slope=0.0190 '/' Tc=34.3 min CN=79 Runoff=1.90 cfs 0.277 af

Subcatchment 94S: DC-081 Runoff Area=1,640.698 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=18,216' Slope=0.1353 '/' Tc=90.8 min CN=79 Runoff=121.49 cfs 35.352 af

Subcatchment 95S: DC-082 Runoff Area=855.402 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=18,216' Slope=0.1353 '/' Tc=90.8 min CN=79 Runoff=63.34 cfs 18.431 af

Subcatchment 96S: DC-083 Runoff Area=781.350 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=16,949' Slope=0.1471 '/' Tc=82.2 min CN=79 Runoff=62.39 cfs 16.836 af

Subcatchment 97S: DC-084 Runoff Area=53.304 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,981' Slope=0.0432 '/' Tc=47.6 min CN=79 Runoff=6.25 cfs 1.149 af

Subcatchment 98S: DC-085 Runoff Area=534.894 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=10,095' Slope=0.0799 '/' Tc=73.7 min CN=79 Runoff=45.71 cfs 11.525 af

Subcatchment 99S: DC-086 Runoff Area=44.849 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,972' Slope=0.0364 '/' Tc=41.1 min CN=79 Runoff=5.83 cfs 0.966 af

Subcatchment 100S: DC-087 Runoff Area=7.416 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,460' Slope=0.0284 '/' Tc=26.3 min CN=79 Runoff=1.33 cfs 0.160 af

Subcatchment 101S: DC-088 Runoff Area=918.253 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=18,850' Slope=0.1379 '/' Tc=92.5 min CN=79 Runoff=66.87 cfs 19.786 af

Subcatchment 102S: DC-089 Runoff Area=9.633 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,752' Slope=0.0305 '/' Tc=29.4 min CN=79 Runoff=1.59 cfs 0.208 af

Subcatchment 103S: DC-090 Runoff Area=721.074 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,921' Slope=0.0514 '/' Tc=60.0 min CN=79 Runoff=71.94 cfs 15.537 af

Subcatchment 104S: DC-091 Runoff Area=37.195 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,169' Slope=0.0290 '/' Tc=48.4 min CN=79 Runoff=4.30 cfs 0.801 af

Subcatchment 105S: DC-092 Runoff Area=71.389 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,460' Slope=0.0347 '/' Tc=68.4 min CN=79 Runoff=6.50 cfs 1.538 af

Subcatchment 106S: DC-093 Runoff Area=48.147 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,799' Slope=0.0263 '/' Tc=58.8 min CN=79 Runoff=4.87 cfs 1.037 af

Subcatchment 107S: DC-095 Runoff Area=65.492 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,676' Slope=0.0256 '/' Tc=70.4 min CN=79 Runoff=5.83 cfs 1.411 af

Subcatchment 108S: DC-096 Runoff Area=14.377 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,224' Slope=0.0183 '/' Tc=28.5 min CN=79 Runoff=2.42 cfs 0.310 af

Subcatchment 109S: DC-097 Runoff Area=136.256 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=6,709' Slope=0.0333 '/' Tc=82.3 min CN=79 Runoff=10.86 cfs 2.936 af

Subcatchment 110S: DC-098 Runoff Area=746.263 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=7,100' Slope=0.0468 '/' Tc=72.7 min CN=79 Runoff=64.37 cfs 16.080 af

Subcatchment 111S: DC-099 Runoff Area=946.614 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=18,322' Slope=0.1317 '/' Tc=92.5 min CN=79 Runoff=68.94 cfs 20.397 af

Subcatchment 112S: DC-100 Runoff Area=8.248 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,224' Slope=0.0254 '/' Tc=24.2 min CN=79 Runoff=1.57 cfs 0.178 af

Subcatchment 113S: DC-101 Runoff Area=32.592 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,751' Slope=0.0706 '/' Tc=42.9 min CN=79 Runoff=4.10 cfs 0.702 af

Subcatchment 114S: DC-102 Runoff Area=34.729 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,809' Slope=0.0763 '/' Tc=27.1 min CN=79 Runoff=6.09 cfs 0.748 af

Subcatchment 115S: DC-103 Runoff Area=683.207 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=15,787' Slope=0.1531 '/' Tc=76.2 min CN=79 Runoff=57.53 cfs 14.721 af

Subcatchment 116S: DC-104 Runoff Area=9.286 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,739' Slope=0.0435 '/' Tc=24.5 min CN=79 Runoff=1.74 cfs 0.200 af

Subcatchment 117S: DC-105 Runoff Area=12.627 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,673' Slope=0.0502 '/' Tc=32.1 min CN=79 Runoff=1.96 cfs 0.272 af

Subcatchment 118S: DC-106 Runoff Area=9.797 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,103' Slope=0.0448 '/' Tc=28.1 min CN=79 Runoff=1.67 cfs 0.211 af

Subcatchment 119S: DC-107 Runoff Area=353.838 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=8,406' Slope=0.0835 '/' Tc=62.3 min CN=79 Runoff=34.24 cfs 7.624 af

Subcatchment 120S: DC-108 Runoff Area=160.975 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=6,286' Slope=0.0645 '/' Tc=56.2 min CN=79 Runoff=16.80 cfs 3.469 af

Subcatchment 121S: DC-109 Runoff Area=10.569 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,700' Slope=0.0415 '/' Tc=24.6 min CN=79 Runoff=1.98 cfs 0.228 af

Subcatchment 122S: DC-111 Runoff Area=831.504 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=17,582' Slope=0.1430 '/' Tc=85.9 min CN=79 Runoff=64.40 cfs 17.917 af

Subcatchment 123S: DC-112 Runoff Area=53.268 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,612' Slope=0.0683 '/' Tc=49.8 min CN=79 Runoff=6.03 cfs 1.148 af

Subcatchment 124S: DC-113 Runoff Area=43.226 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,215' Slope=0.0569 '/' Tc=43.4 min CN=79 Runoff=5.41 cfs 0.931 af

Subcatchment 125S: DC-114 Runoff Area=614.240 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=14,995' Slope=0.1426 '/' Tc=75.7 min CN=79 Runoff=51.45 cfs 13.235 af

Subcatchment 126S: DC-115 Runoff Area=14.484 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,658' Slope=0.0326 '/' Tc=27.2 min CN=79 Runoff=2.53 cfs 0.312 af

Subcatchment 127S: DC-116 Runoff Area=54.889 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,172' Slope=0.0368 '/' Tc=53.6 min CN=79 Runoff=5.90 cfs 1.183 af

Subcatchment 128S: DC-117 Runoff Area=14.912 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,411' Slope=0.0276 '/' Tc=39.9 min CN=79 Runoff=1.98 cfs 0.321 af

Subcatchment 129S: DC-123 Runoff Area=20.889 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,728' Slope=0.0693 '/' Tc=35.7 min CN=79 Runoff=3.00 cfs 0.450 af

Subcatchment 130S: DC-124 Runoff Area=5.923 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,544' Slope=0.0559 '/' Tc=19.6 min CN=79 Runoff=1.30 cfs 0.128 af

Subcatchment 131S: DC-125 Runoff Area=4.467 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,240' Slope=0.0538 '/' Tc=16.8 min CN=79 Runoff=1.09 cfs 0.096 af

Subcatchment 132S: DC-126 Runoff Area=805.099 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=16,315' Slope=0.1511 '/' Tc=78.7 min CN=79 Runoff=66.18 cfs 17.348 af

Subcatchment 133S: DC-127 Runoff Area=33.287 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,326' Slope=0.0767 '/' Tc=38.2 min CN=79 Runoff=4.56 cfs 0.717 af

Subcatchment 134S: DC-128 Runoff Area=39.536 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,274' Slope=0.0687 '/' Tc=32.3 min CN=79 Runoff=6.09 cfs 0.852 af

Subcatchment 135S: DC-129 Runoff Area=598.033 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=13,992' Slope=0.1501 '/' Tc=69.8 min CN=79 Runoff=53.09 cfs 12.886 af

Subcatchment 136S: DC-130 Runoff Area=616.781 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=16,262' Slope=0.1440 '/' Tc=80.4 min CN=79 Runoff=49.59 cfs 13.290 af

Subcatchment 137S: DC-131 Runoff Area=11.114 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,599' Slope=0.0338 '/' Tc=26.0 min CN=79 Runoff=2.00 cfs 0.239 af

Subcatchment 138S: DC-132 Runoff Area=7.960 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,335' Slope=0.0376 '/' Tc=21.3 min CN=79 Runoff=1.65 cfs 0.172 af

Subcatchment 139S: DC-133 Runoff Area=24.045 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,904' Slope=0.0423 '/' Tc=37.4 min CN=79 Runoff=3.34 cfs 0.518 af

Subcatchment 140S: DC-134 Runoff Area=17.695 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,001' Slope=0.0419 '/' Tc=27.9 min CN=79 Runoff=3.03 cfs 0.381 af

Subcatchment 141S: DC-135 Runoff Area=7.318 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,113' Slope=0.0452 '/' Tc=16.8 min CN=79 Runoff=1.78 cfs 0.158 af

Subcatchment 142S: DC-136 Runoff Area=16.780 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,042' Slope=0.0438 '/' Tc=27.7 min CN=79 Runoff=2.89 cfs 0.362 af

Subcatchment 143S: DC-137 Runoff Area=43.605 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,794' Slope=0.0214 '/' Tc=51.0 min CN=79 Runoff=4.86 cfs 0.940 af

Subcatchment 144S: DC-138 Runoff Area=15.322 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,055' Slope=0.0260 '/' Tc=21.2 min CN=79 Runoff=3.18 cfs 0.330 af

Subcatchment 145S: DC-141 Runoff Area=10.178 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=830' Slope=0.0283 '/' Tc=16.8 min CN=79 Runoff=2.48 cfs 0.219 af

Subcatchment 146S: DC-142 Runoff Area=7.038 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=830' Slope=0.0299 '/' Tc=16.3 min CN=79 Runoff=1.75 cfs 0.152 af

Subcatchment 147S: DC-143 Runoff Area=15.206 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,323' Slope=0.0239 '/' Tc=26.5 min CN=79 Runoff=2.70 cfs 0.328 af

Subcatchment 148S: DC-144 Runoff Area=89.452 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,086' Slope=0.0236 '/' Tc=65.8 min CN=79 Runoff=8.35 cfs 1.927 af

Subcatchment 149S: DC-145 Runoff Area=5.849 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=931' Slope=0.0410 '/' Tc=15.3 min CN=79 Runoff=1.51 cfs 0.126 af

Subcatchment 150S: DC-146 Runoff Area=6.866 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,038' Slope=0.0432 '/' Tc=16.2 min CN=79 Runoff=1.71 cfs 0.148 af

Subcatchment 151S: DC-147 Runoff Area=135.560 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,250' Slope=0.0247 '/' Tc=78.6 min CN=79 Runoff=11.17 cfs 2.921 af

Subcatchment 152S: DC-149 Runoff Area=6.883 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=825' Slope=0.0349 '/' Tc=15.0 min CN=79 Runoff=1.80 cfs 0.148 af

Subcatchment 153S: DC-150 Runoff Area=23.577 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,059' Slope=0.0327 '/' Tc=32.3 min CN=79 Runoff=3.63 cfs 0.508 af

Subcatchment 154S: DC-151 Runoff Area=33.109 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,117' Slope=0.0390 '/' Tc=30.2 min CN=79 Runoff=5.36 cfs 0.713 af

Subcatchment 155S: DC-152 Runoff Area=22.595 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,140' Slope=0.0368 '/' Tc=31.4 min CN=79 Runoff=3.56 cfs 0.487 af

Subcatchment 156S: DC-153 Runoff Area=438.370 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=9,154' Slope=0.0732 '/' Tc=71.2 min CN=79 Runoff=38.80 cfs 9.446 af

Subcatchment 157S: DC-154 Runoff Area=24.103 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,663' Slope=0.0458 '/' Tc=23.0 min CN=79 Runoff=4.74 cfs 0.519 af

Subcatchment 158S: DC-155 Runoff Area=5.587 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,025' Slope=0.0518 '/' Tc=14.7 min CN=79 Runoff=1.48 cfs 0.120 af

Subcatchment 159S: DC-157 Runoff Area=11.368 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=705' Slope=0.0255 '/' Tc=15.5 min CN=79 Runoff=2.91 cfs 0.245 af

Subcatchment 160S: DC-158 Runoff Area=68.589 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,078' Slope=0.0355 '/' Tc=42.8 min CN=79 Runoff=8.67 cfs 1.478 af

Subcatchment 161S: DC-159 Runoff Area=85.369 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,037' Slope=0.0337 '/' Tc=54.5 min CN=79 Runoff=9.11 cfs 1.839 af

Subcatchment 162S: DC-160 Runoff Area=30.248 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,809' Slope=0.0189 '/' Tc=38.3 min CN=79 Runoff=4.13 cfs 0.652 af

Subcatchment 163S: DC-161 Runoff Area=68.284 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,106' Slope=0.0211 '/' Tc=40.9 min CN=79 Runoff=8.89 cfs 1.471 af

Subcatchment 164S: DC-162 Runoff Area=21.607 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,673' Slope=0.0429 '/' Tc=23.9 min CN=79 Runoff=4.14 cfs 0.466 af

Subcatchment 165S: DC-163 Runoff Area=4.800 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=663' Slope=0.0331 '/' Tc=13.0 min CN=79 Runoff=1.35 cfs 0.103 af

Subcatchment 166S: DC-165 Runoff Area=10.219 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=918' Slope=0.0289 '/' Tc=18.0 min CN=79 Runoff=2.37 cfs 0.220 af

Subcatchment 167S: DC-166 Runoff Area=7.275 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=797' Slope=0.0419 '/' Tc=13.4 min CN=79 Runoff=2.02 cfs 0.157 af

Subcatchment 168S: DC-168 Runoff Area=56.360 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,302' Slope=0.0435 '/' Tc=50.5 min CN=79 Runoff=6.33 cfs 1.214 af

Subcatchment 169S: DC-169 Runoff Area=57.225 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=4,405' Slope=0.0423 '/' Tc=52.2 min CN=79 Runoff=6.26 cfs 1.233 af

Subcatchment 170S: DC-170 Runoff Area=52.129 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,641' Slope=0.0685 '/' Tc=27.2 min CN=79 Runoff=9.10 cfs 1.123 af

Subcatchment 171S: DC-171 Runoff Area=216.901 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=5,679' Slope=0.0822 '/' Tc=45.9 min CN=79 Runoff=26.00 cfs 4.674 af

Subcatchment 172S: DC-172 Runoff Area=21.100 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,201' Slope=0.1676 '/' Tc=20.3 min CN=79 Runoff=4.53 cfs 0.455 af

Subcatchment 173S: DC-173 Runoff Area=12.829 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,260' Slope=0.0705 '/' Tc=14.9 min CN=79 Runoff=3.36 cfs 0.276 af

Subcatchment 174S: DC-174 Runoff Area=23.056 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,960' Slope=0.0308 '/' Tc=44.5 min CN=79 Runoff=2.84 cfs 0.497 af

Subcatchment 175S: DC-175 Runoff Area=96.046 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=6,621' Slope=0.0761 '/' Tc=53.9 min CN=79 Runoff=10.33 cfs 2.070 af

Subcatchment 176S: DC-176 Runoff Area=20.660 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,928' Slope=0.0815 '/' Tc=34.3 min CN=79 Runoff=3.05 cfs 0.445 af

Subcatchment 177S: DC-177 Runoff Area=14.485 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=3,057' Slope=0.0783 '/' Tc=28.6 min CN=79 Runoff=2.44 cfs 0.312 af

Subcatchment 178S: DC-178 Runoff Area=932.300 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=18,691' Slope=0.1171 '/' Tc=99.7 min CN=79 Runoff=64.09 cfs 20.088 af

Subcatchment 179S: DC-179 Runoff Area=5.501 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=995' Slope=0.0409 '/' Tc=16.1 min CN=79 Runoff=1.38 cfs 0.119 af

Subcatchment 180S: DC-180 Runoff Area=11.880 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,260' Slope=0.0249 '/' Tc=39.9 min CN=79 Runoff=1.58 cfs 0.256 af

Subcatchment 181S: DC-181 Runoff Area=8.875 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=2,388' Slope=0.0835 '/' Tc=22.8 min CN=79 Runoff=1.75 cfs 0.191 af

Subcatchment 182S: DC-182 Runoff Area=14.206 ac 0.00% Impervious Runoff Depth=0.26"
Flow Length=1,848' Slope=0.0636 '/' Tc=21.2 min CN=79 Runoff=2.95 cfs 0.306 af

Total Runoff Area = 47,653.868 ac Runoff Volume = 1,026.378 af Average Runoff Depth = 0.26"
100.00% Pervious = 47,653.868 ac 0.00% Impervious = 0.000 ac

Summary for Subcatchment 1S: DC-019

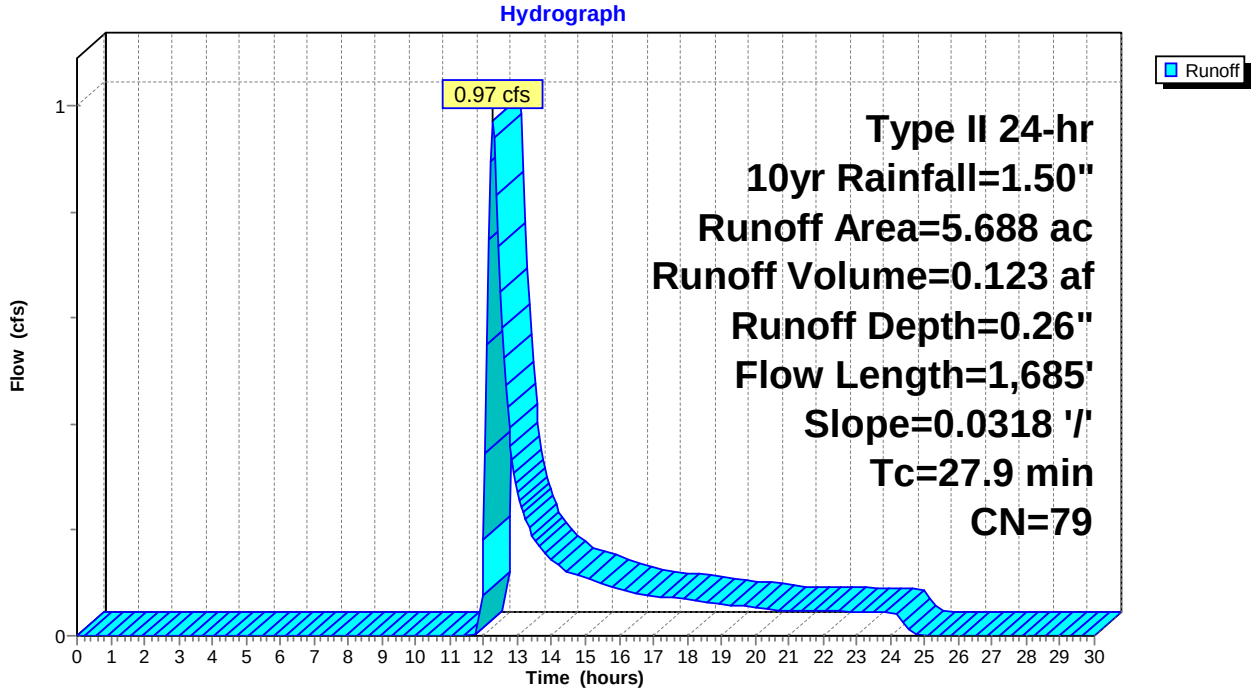
Runoff = 0.97 cfs @ 12.28 hrs, Volume= 0.123 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	5.688	79	
	5.688		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.9	1,685	0.0318	1.01		**Lag/CN Method,**

Subcatchment 1S: DC-019



Summary for Subcatchment 2S: DC-037

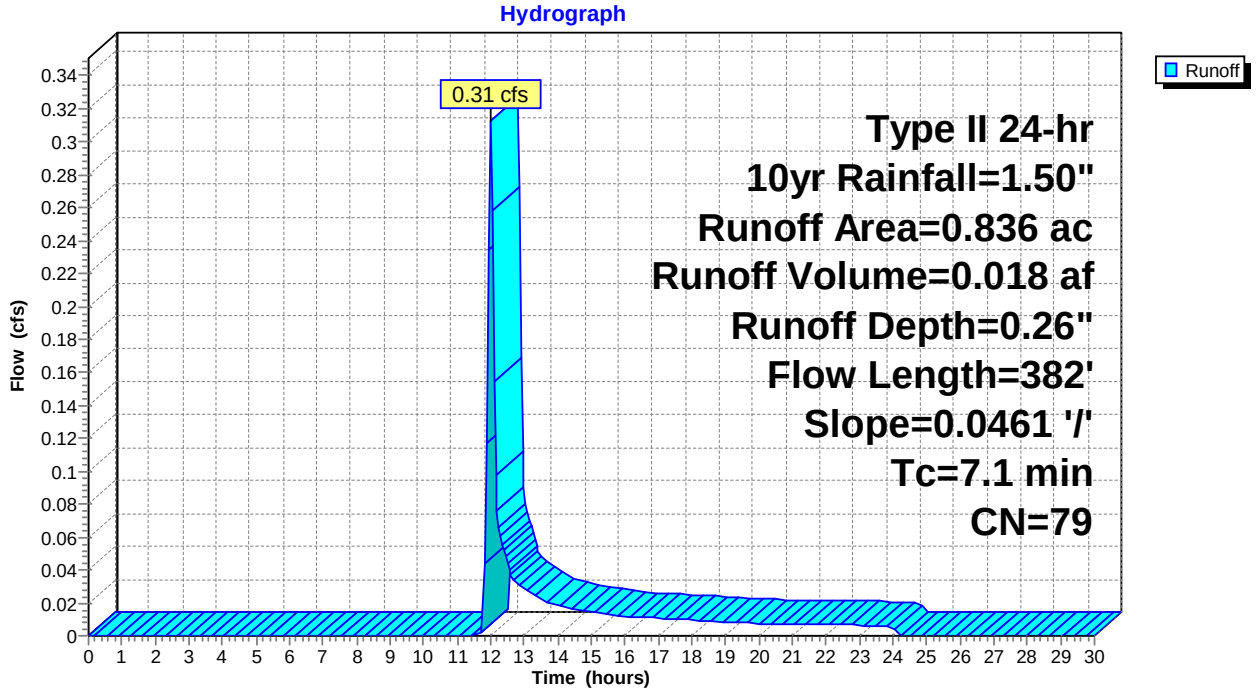
Runoff = 0.31 cfs @ 12.00 hrs, Volume= 0.018 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	0.836	79	
	0.836		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.1	382	0.0461	0.90		**Lag/CN Method,**

Subcatchment 2S: DC-037



Summary for Subcatchment 3S: DC-039

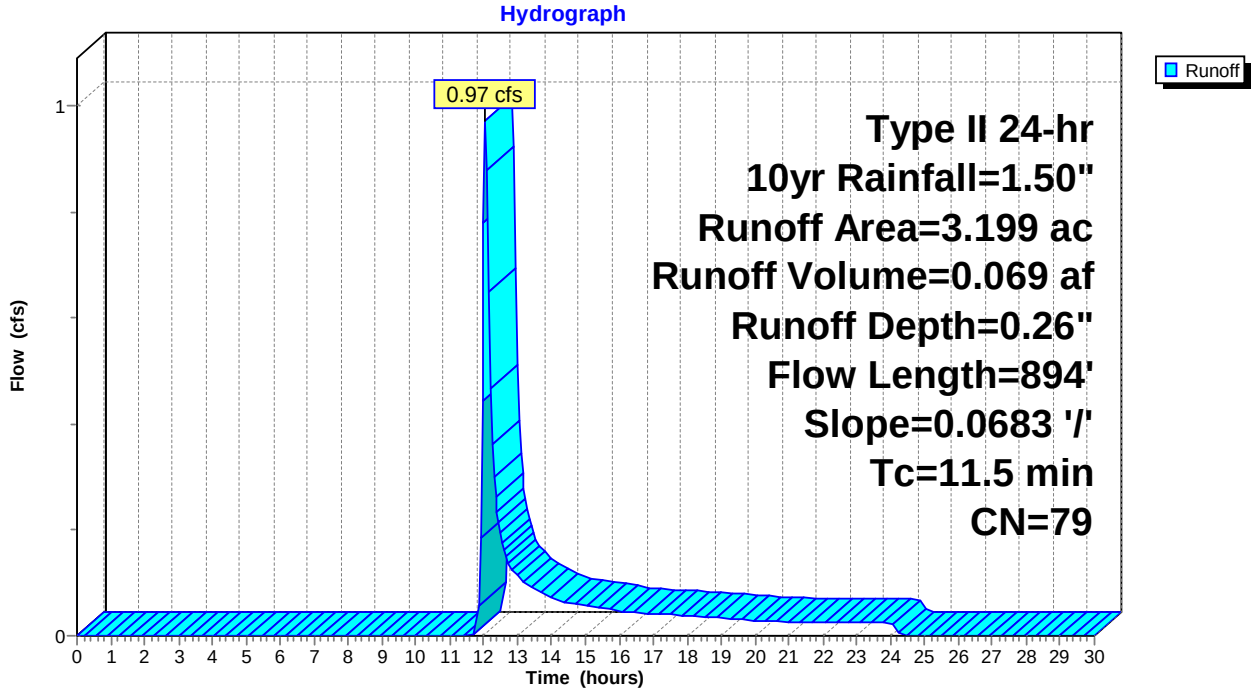
Runoff = 0.97 cfs @ 12.06 hrs, Volume= 0.069 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	3.199	79	
	3.199		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
11.5	894	0.0683	1.30		**Lag/CN Method,**

Subcatchment 3S: DC-039



Summary for Subcatchment 4S: DC-048

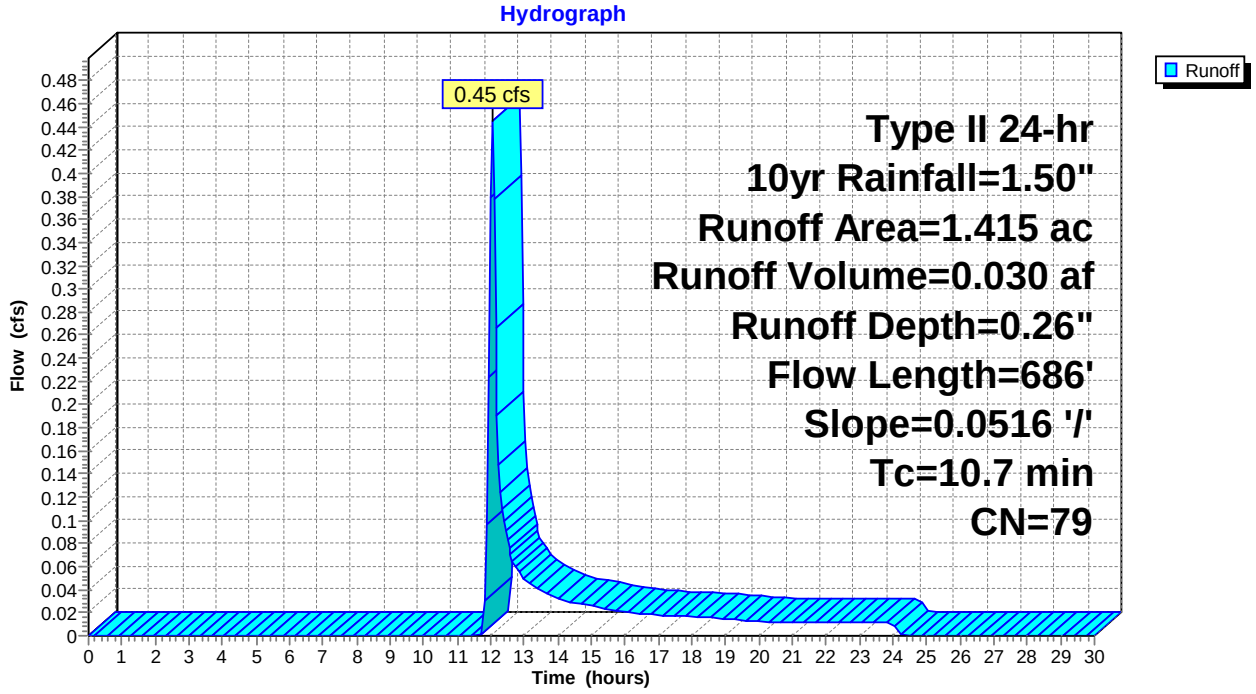
Runoff = 0.45 cfs @ 12.05 hrs, Volume= 0.030 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1.415	79	
	1.415		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	686	0.0516	1.07		**Lag/CN Method,**

Subcatchment 4S: DC-048



Summary for Subcatchment 5S: DC-061

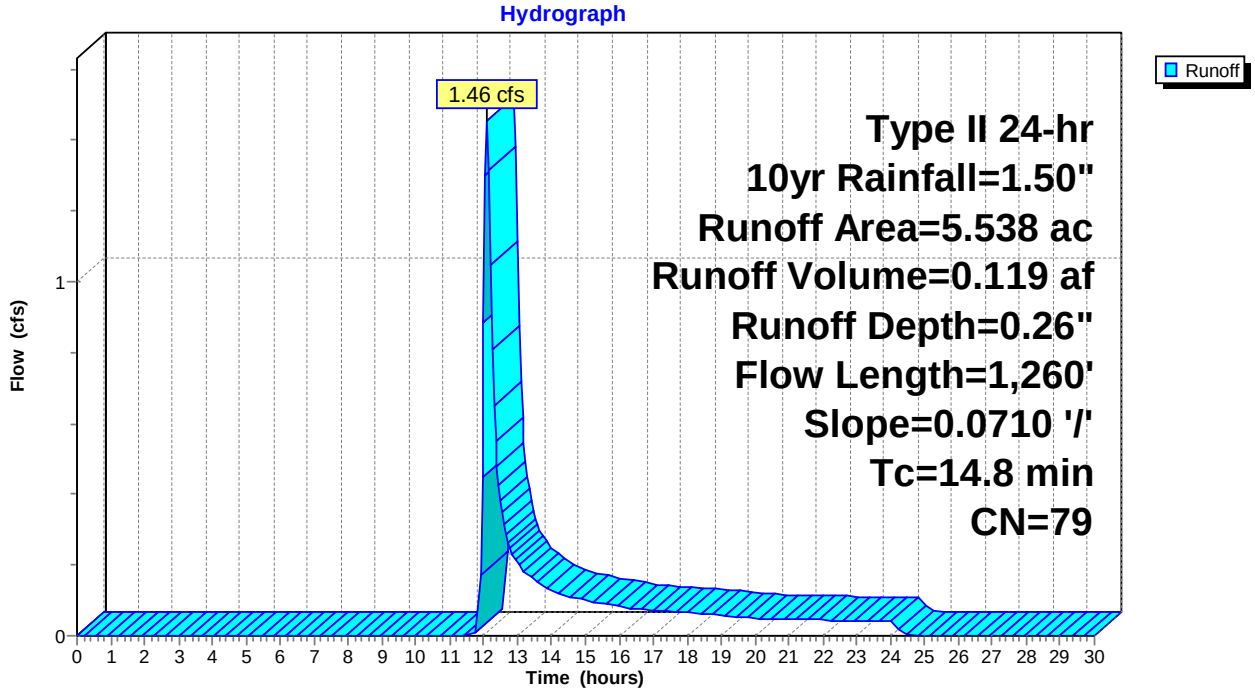
Runoff = 1.46 cfs @ 12.10 hrs, Volume= 0.119 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	5.538	79	
	5.538		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.8	1,260	0.0710	1.42		**Lag/CN Method,**

Subcatchment 5S: DC-061



Summary for Subcatchment 6S: DC-068

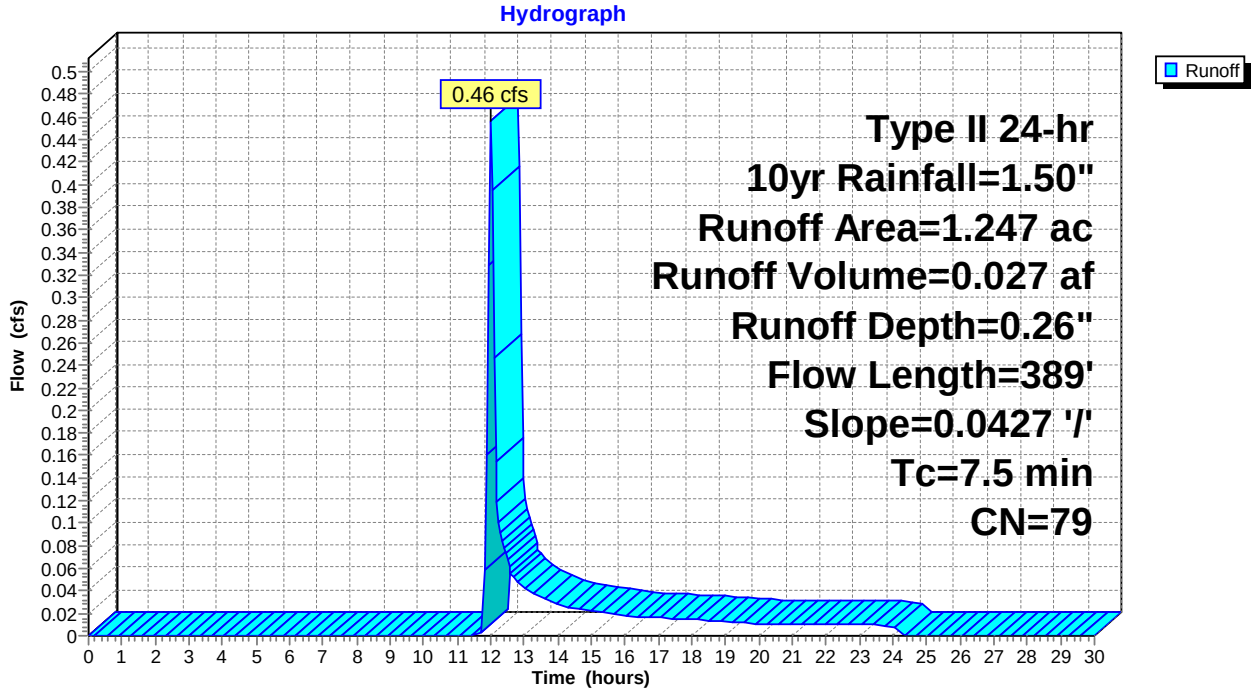
Runoff = 0.46 cfs @ 12.01 hrs, Volume= 0.027 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1.247	79	
	1.247		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.5	389	0.0427	0.87		**Lag/CN Method,**

Subcatchment 6S: DC-068



Summary for Subcatchment 7S: DC-070

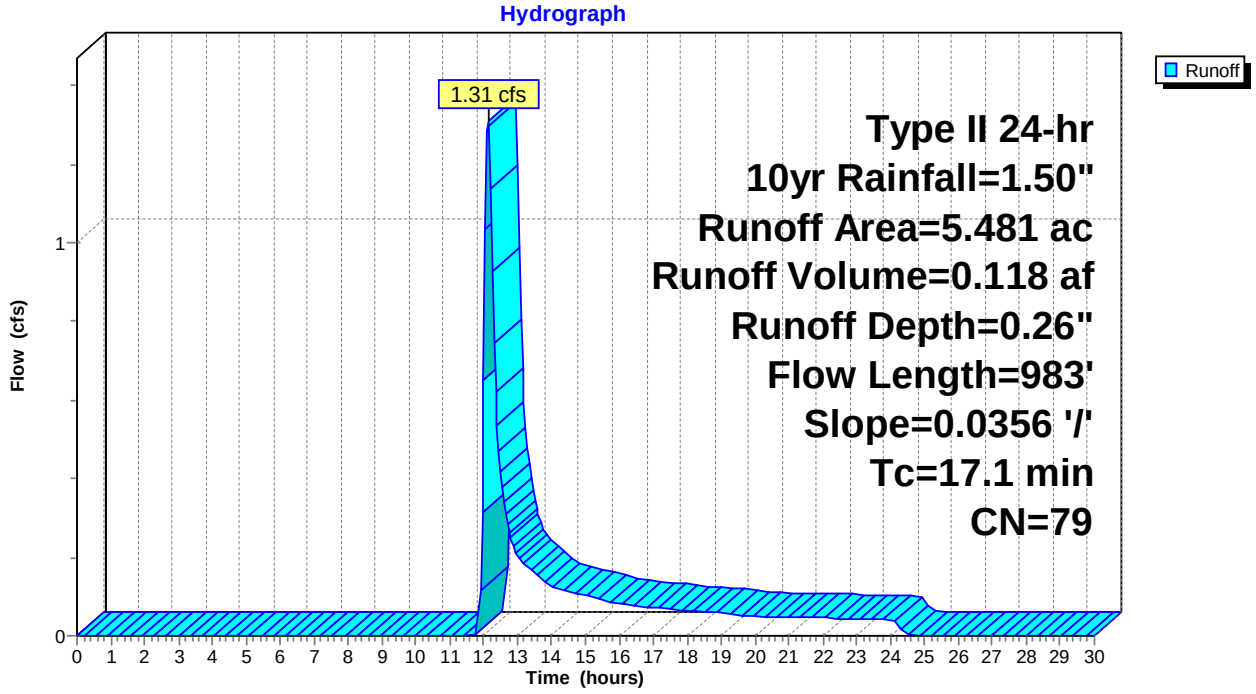
Runoff = 1.31 cfs @ 12.13 hrs, Volume= 0.118 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	5.481	79	
	5.481		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
17.1	983	0.0356	0.96		**Lag/CN Method,**

Subcatchment 7S: DC-070



Summary for Subcatchment 8S: DC-077

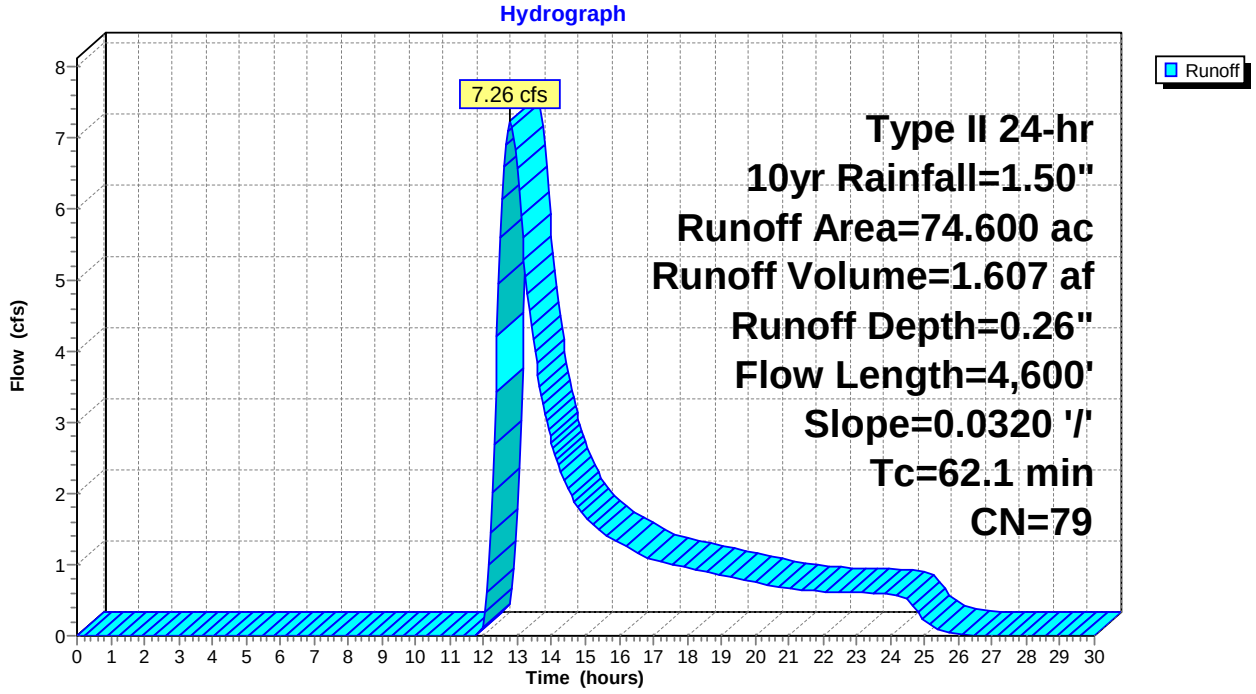
Runoff = 7.26 cfs @ 12.78 hrs, Volume= 1.607 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	74.600	79	
	74.600		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
62.1	4,600	0.0320	1.23		**Lag/CN Method,**

Subcatchment 8S: DC-077



Summary for Subcatchment 9S: DC-094

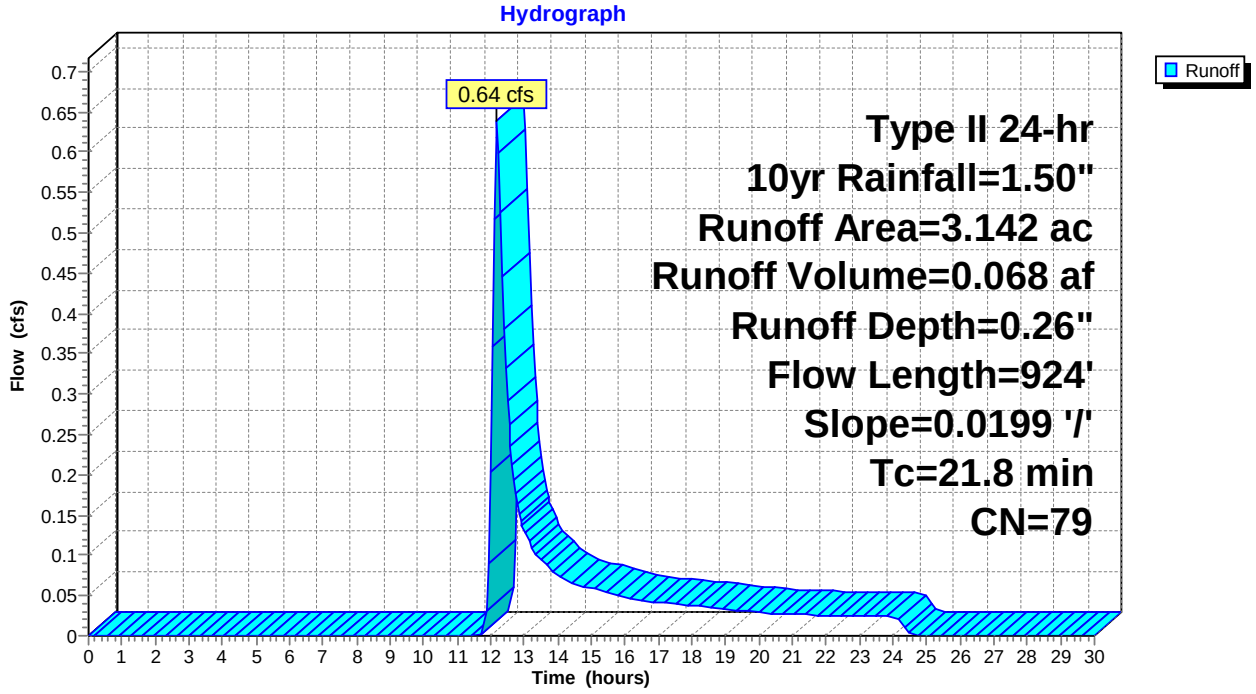
Runoff = 0.64 cfs @ 12.19 hrs, Volume= 0.068 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	3.142	79	
	3.142		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.8	924	0.0199	0.71		**Lag/CN Method,**

Subcatchment 9S: DC-094



Summary for Subcatchment 10S: DC-110

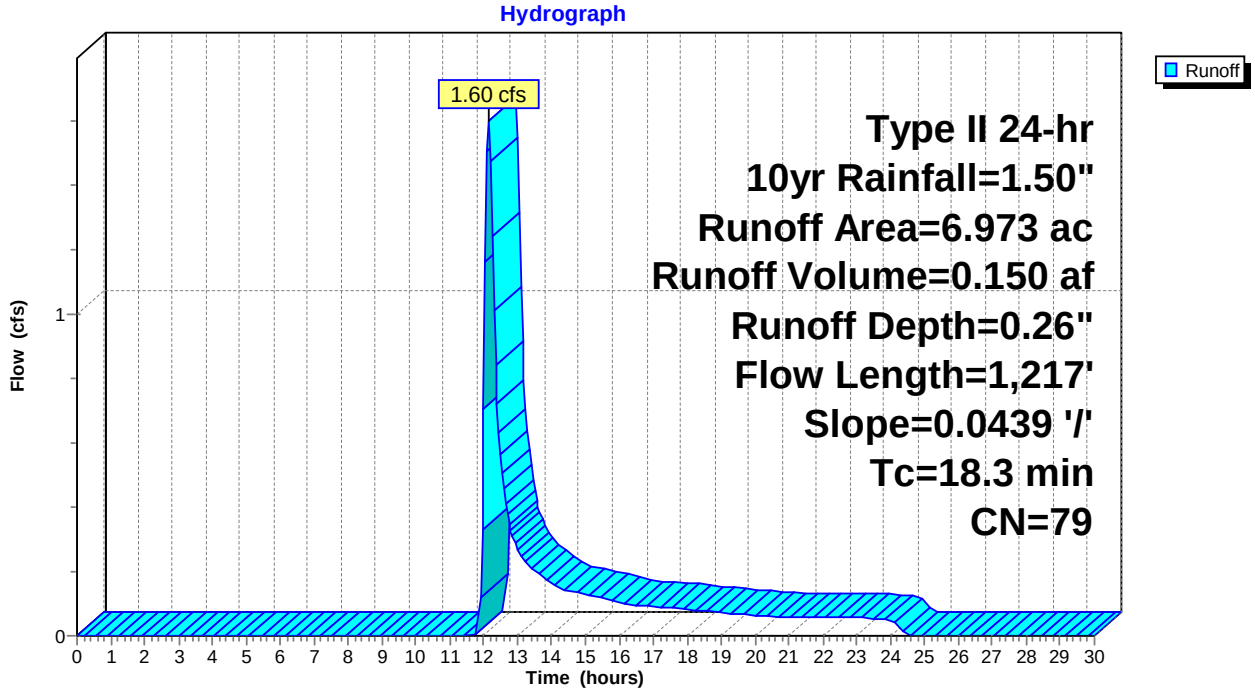
Runoff = 1.60 cfs @ 12.15 hrs, Volume= 0.150 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	6.973	79	
	6.973		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.3	1,217	0.0439	1.11		**Lag/CN Method,**

Subcatchment 10S: DC-110



Summary for Subcatchment 11S: DC-118

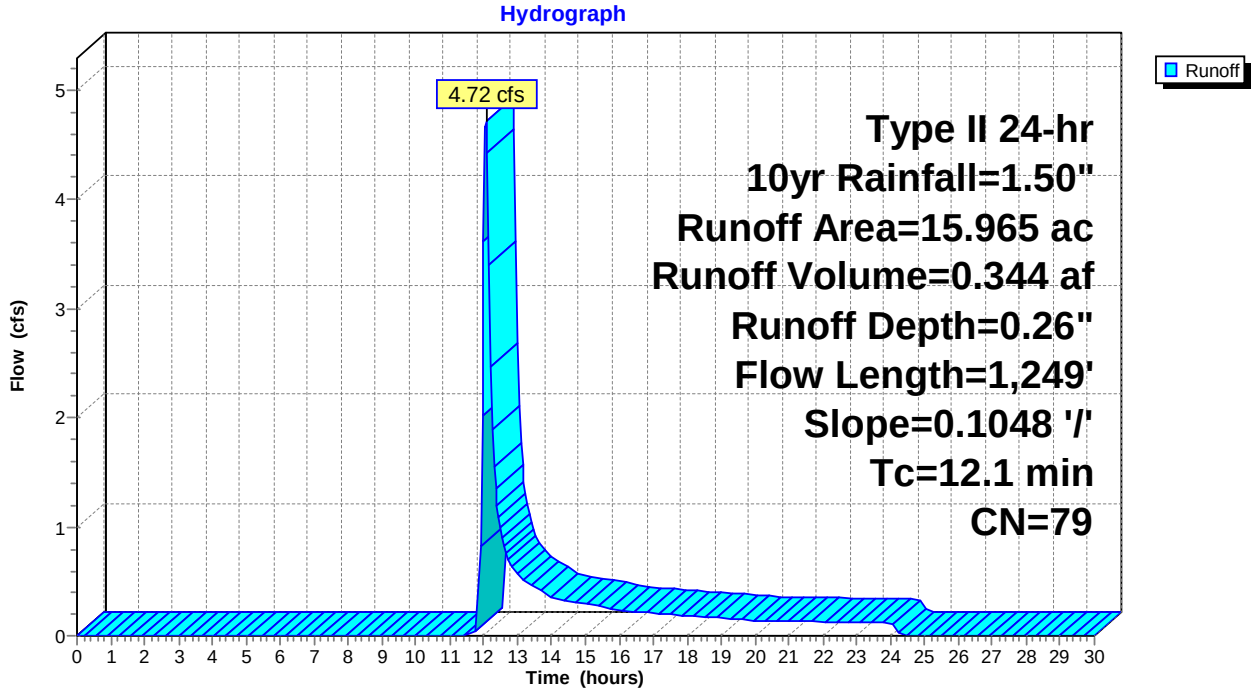
Runoff = 4.72 cfs @ 12.07 hrs, Volume= 0.344 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	15.965	79	
	15.965		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
12.1	1,249	0.1048	1.72		**Lag/CN Method,**

Subcatchment 11S: DC-118



Summary for Subcatchment 12S: DC-119

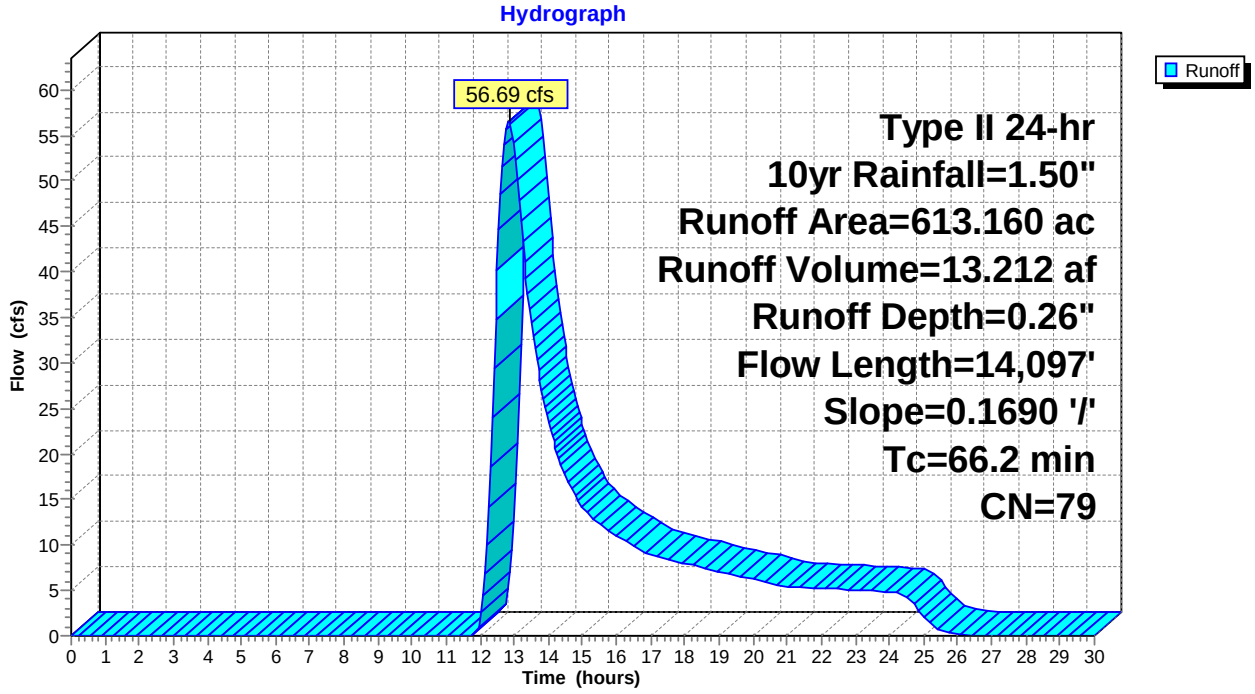
Runoff = 56.69 cfs @ 12.85 hrs, Volume= 13.212 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	613.160	79	
	613.160		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
66.2	14,097	0.1690	3.55		**Lag/CN Method,**

Subcatchment 12S: DC-119



Summary for Subcatchment 13S: DC-120

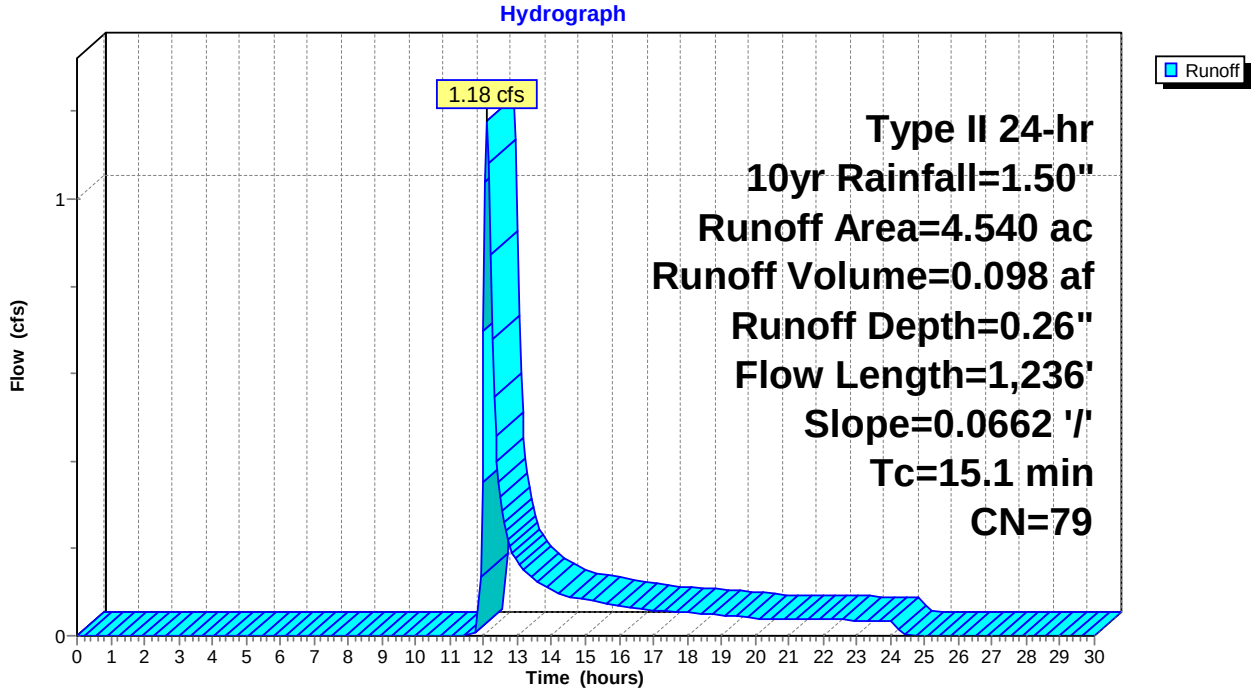
Runoff = 1.18 cfs @ 12.10 hrs, Volume= 0.098 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	4.540	79	
	4.540		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.1	1,236	0.0662	1.37		**Lag/CN Method,**

Subcatchment 13S: DC-120



Summary for Subcatchment 14S: DC-121

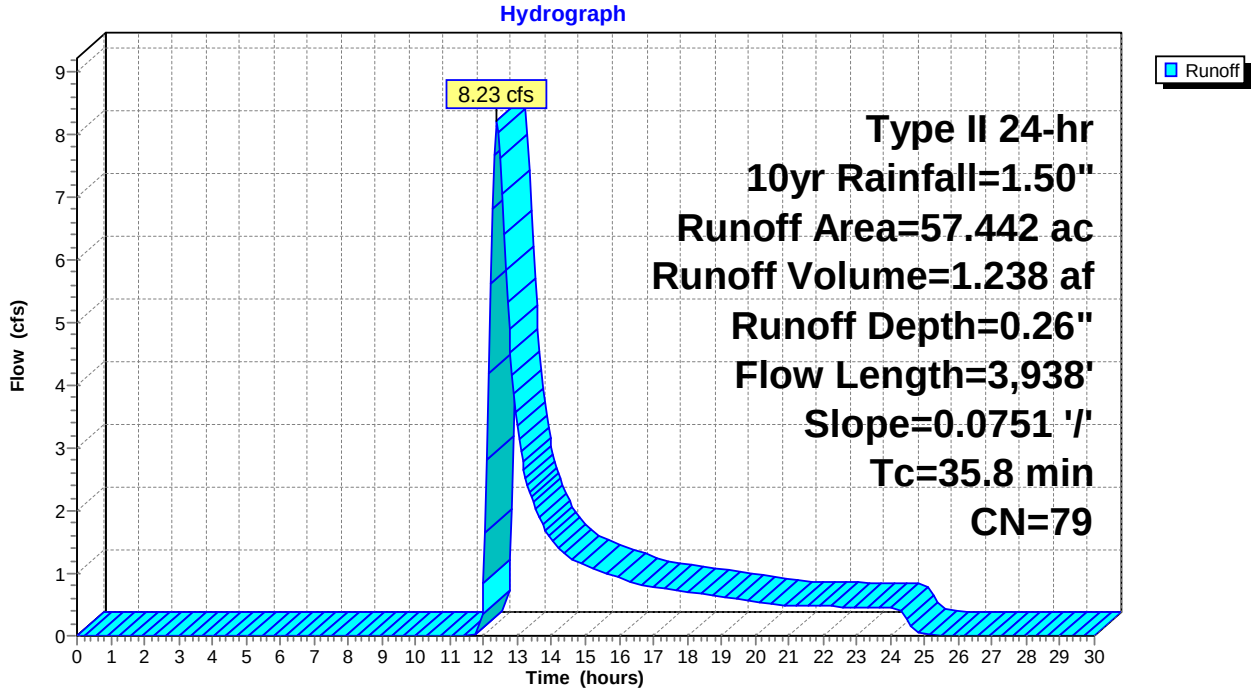
Runoff = 8.23 cfs @ 12.39 hrs, Volume= 1.238 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	57.442	79	
	57.442		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.8	3,938	0.0751	1.83		**Lag/CN Method,**

Subcatchment 14S: DC-121



Summary for Subcatchment 15S: DC-122

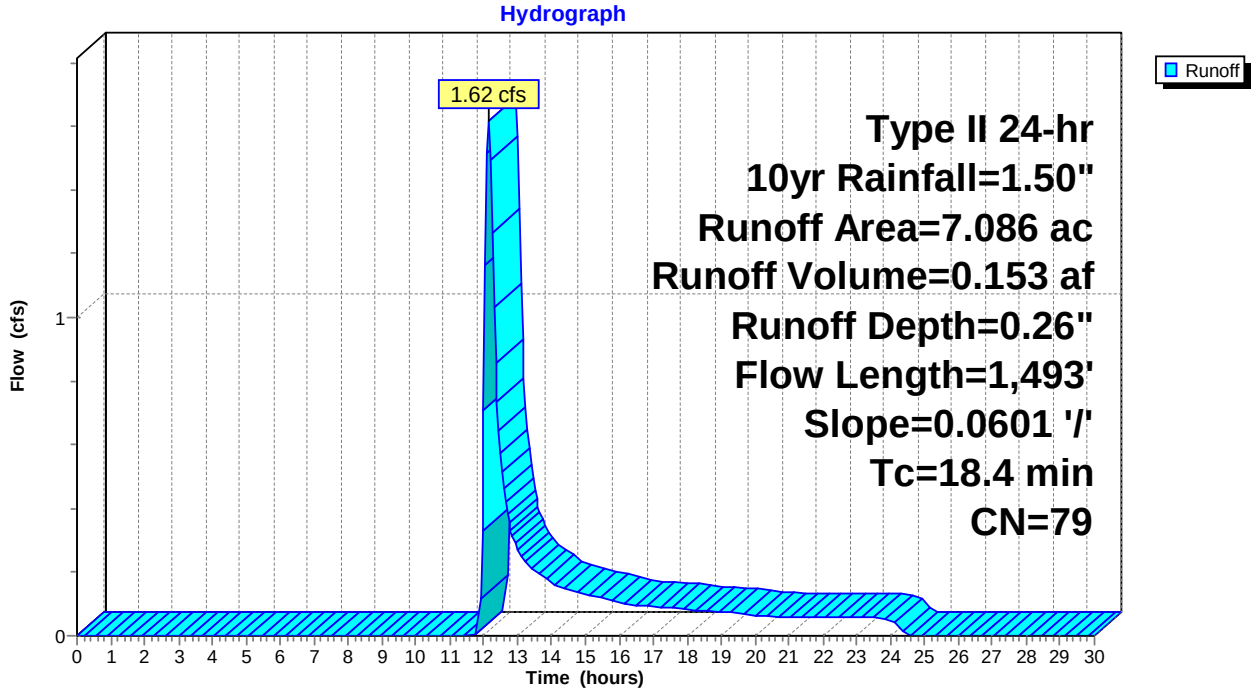
Runoff = 1.62 cfs @ 12.15 hrs, Volume= 0.153 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	7.086	79	
	7.086		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.4	1,493	0.0601	1.35		**Lag/CN Method,**

Subcatchment 15S: DC-122



Summary for Subcatchment 16S: DC-139

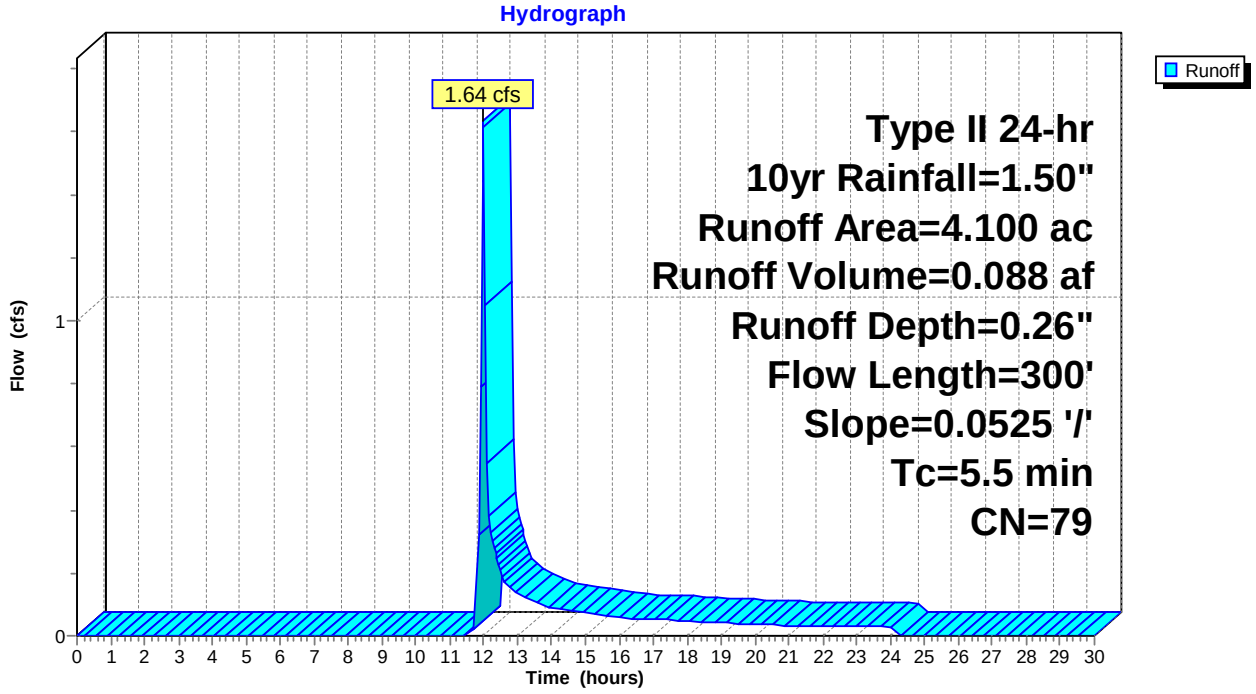
Runoff = 1.64 cfs @ 11.99 hrs, Volume= 0.088 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	4.100	79	
	4.100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.5	300	0.0525	0.92		**Lag/CN Method,**

Subcatchment 16S: DC-139



Summary for Subcatchment 17S: DC-140

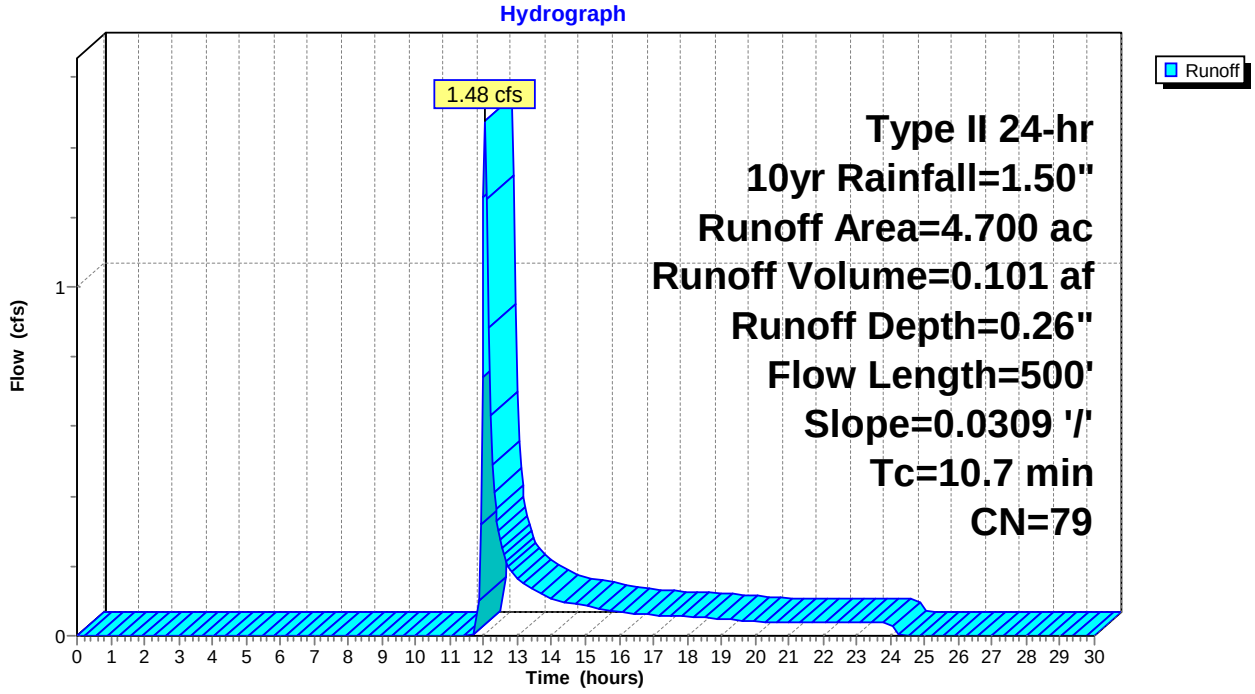
Runoff = 1.48 cfs @ 12.05 hrs, Volume= 0.101 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	4.700	79	
	4.700		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
10.7	500	0.0309	0.78		**Lag/CN Method,**

Subcatchment 17S: DC-140



Summary for Subcatchment 18S: DC-148

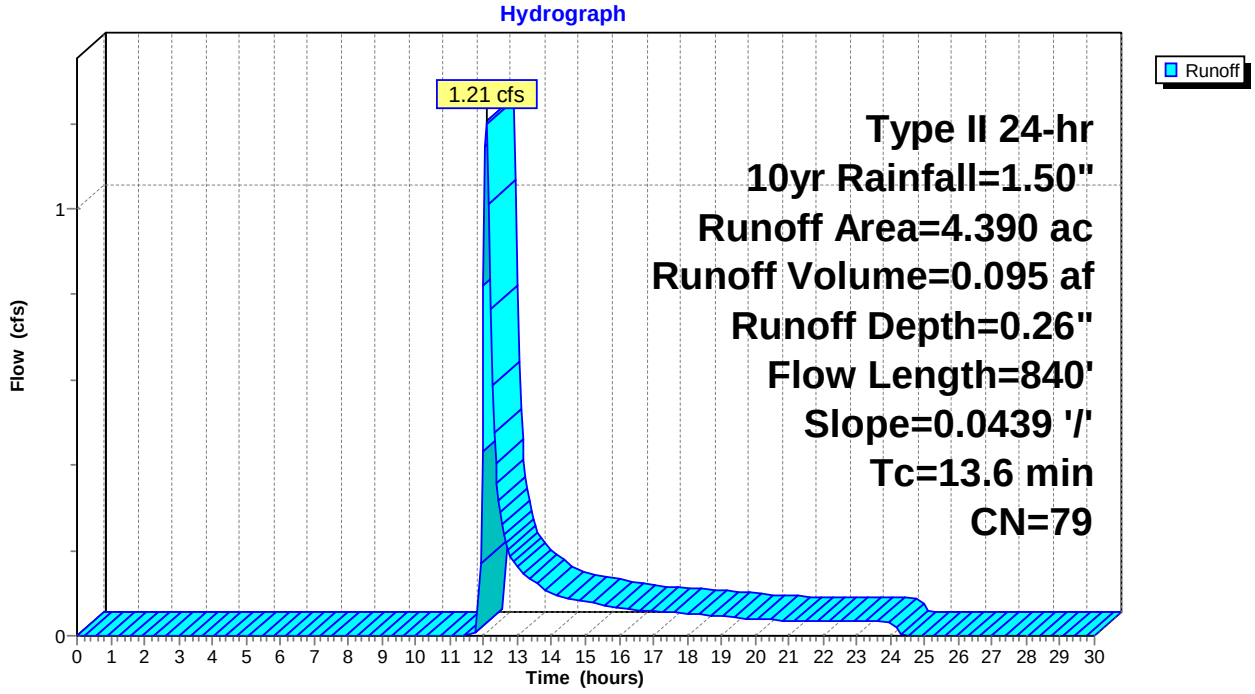
Runoff = 1.21 cfs @ 12.09 hrs, Volume= 0.095 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	4.390	79	
	4.390		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.6	840	0.0439	1.03		**Lag/CN Method,**

Subcatchment 18S: DC-148



Summary for Subcatchment 19S: DC-156

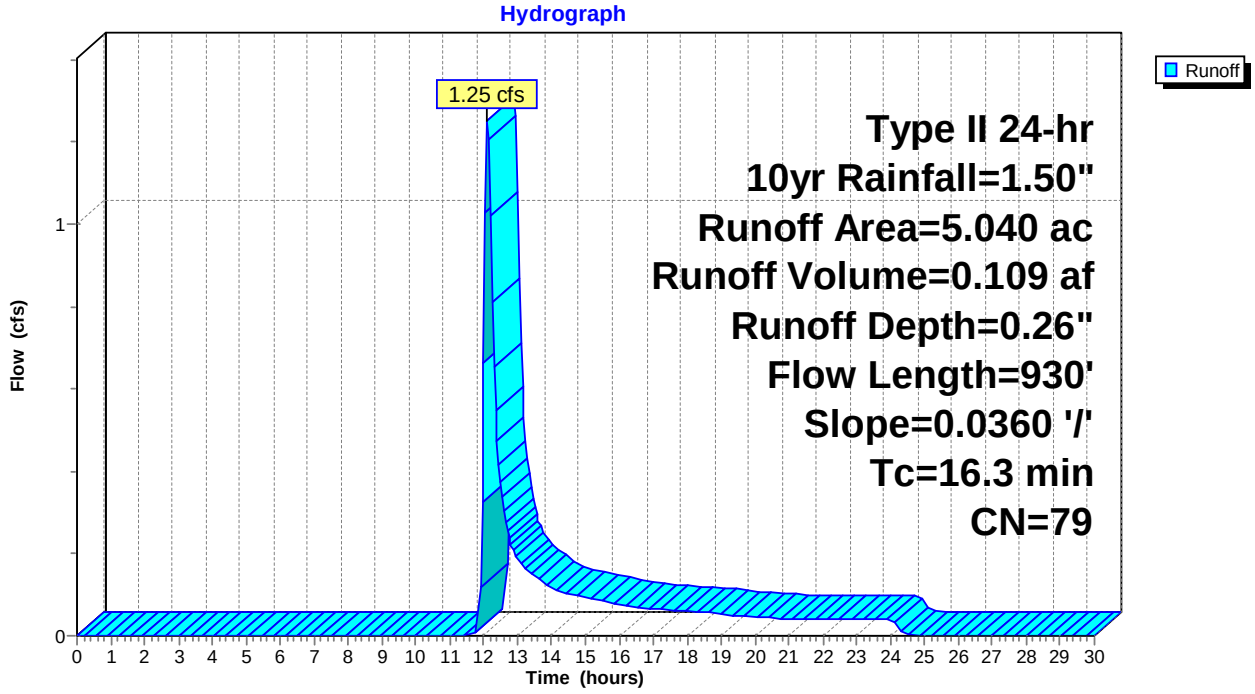
Runoff = 1.25 cfs @ 12.12 hrs, Volume= 0.109 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	5.040	79	
	5.040		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	930	0.0360	0.95		**Lag/CN Method,**

Subcatchment 19S: DC-156



Summary for Subcatchment 20S: DC-164

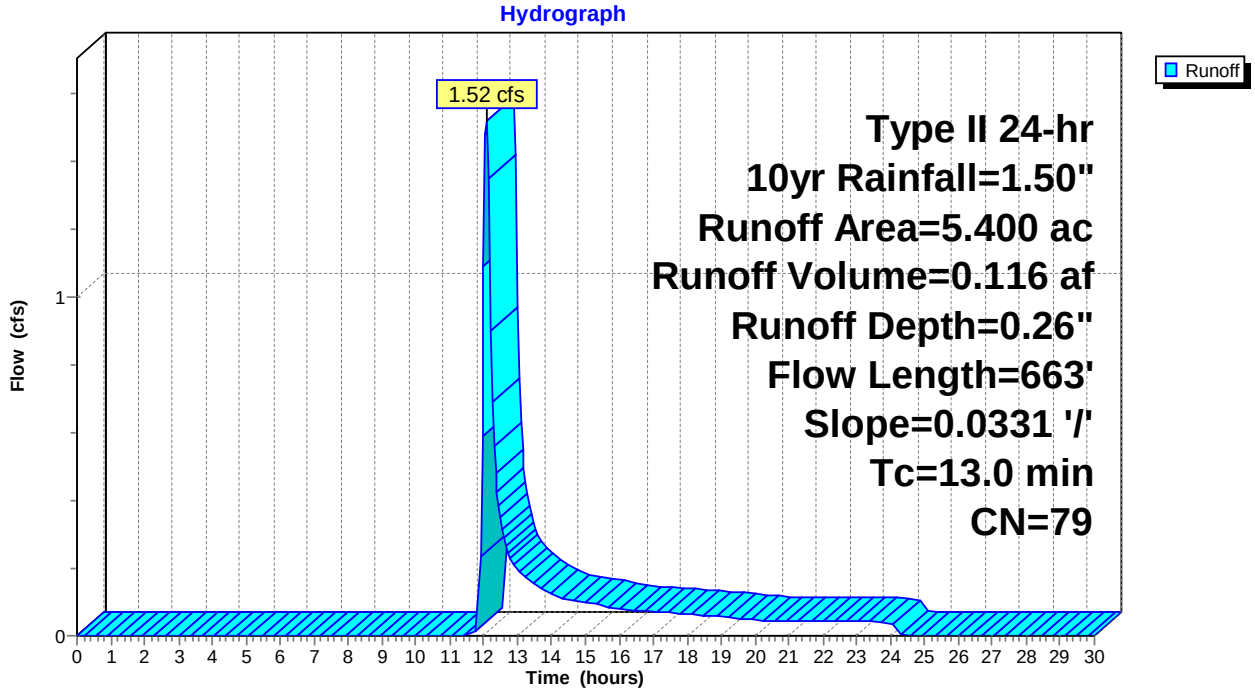
Runoff = 1.52 cfs @ 12.08 hrs, Volume= 0.116 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	5.400	79	
	5.400		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.0	663	0.0331	0.85		**Lag/CN Method,**

Subcatchment 20S: DC-164



Summary for Subcatchment 21S: DC-167

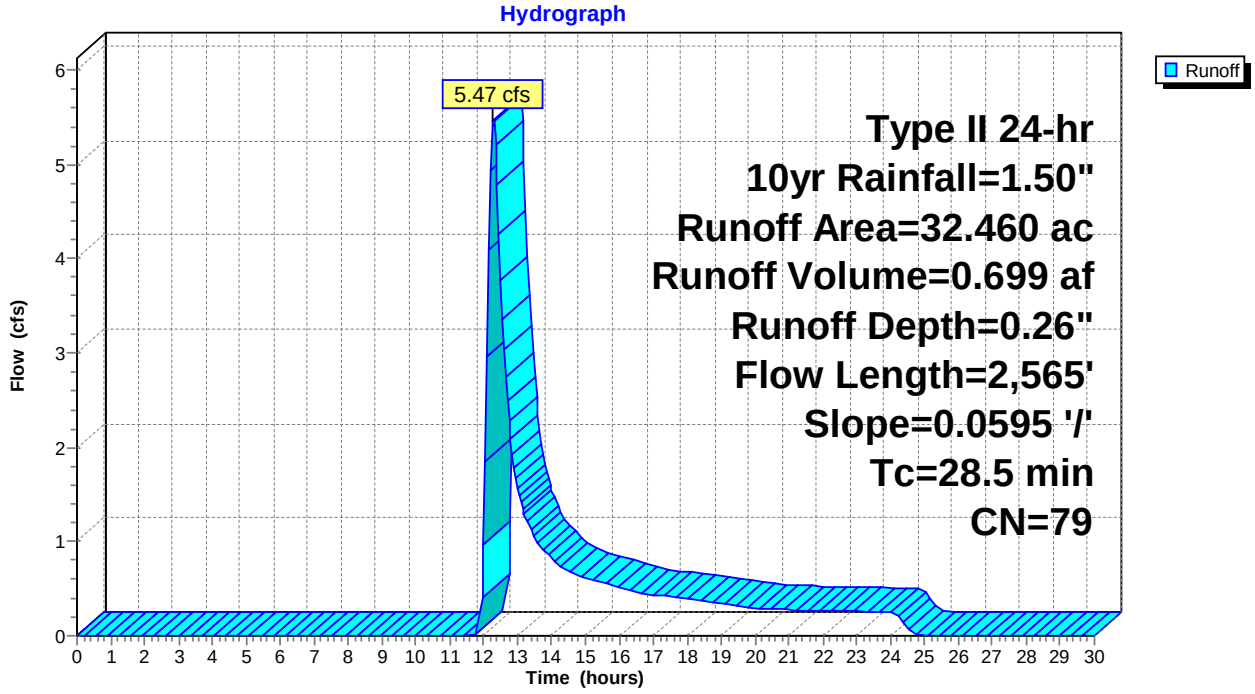
Runoff = 5.47 cfs @ 12.28 hrs, Volume= 0.699 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	32.460	79	
	32.460		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.5	2,565	0.0595	1.50		**Lag/CN Method,**

Subcatchment 21S: DC-167



Summary for Subcatchment 22S: DC-023

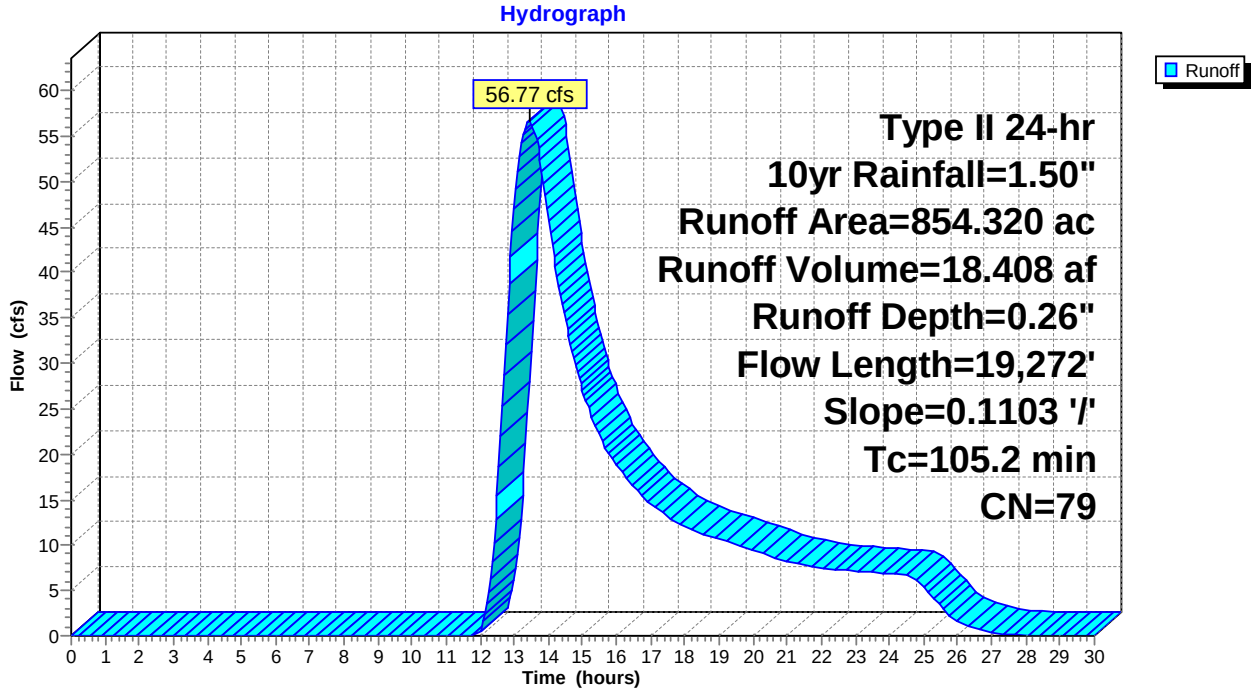
Runoff = 56.77 cfs @ 13.44 hrs, Volume= 18.408 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	854.320	79	
	854.320		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
105.2	19,272	0.1103	3.05		**Lag/CN Method,**

Subcatchment 22S: DC-023



Summary for Subcatchment 23S: DC-052

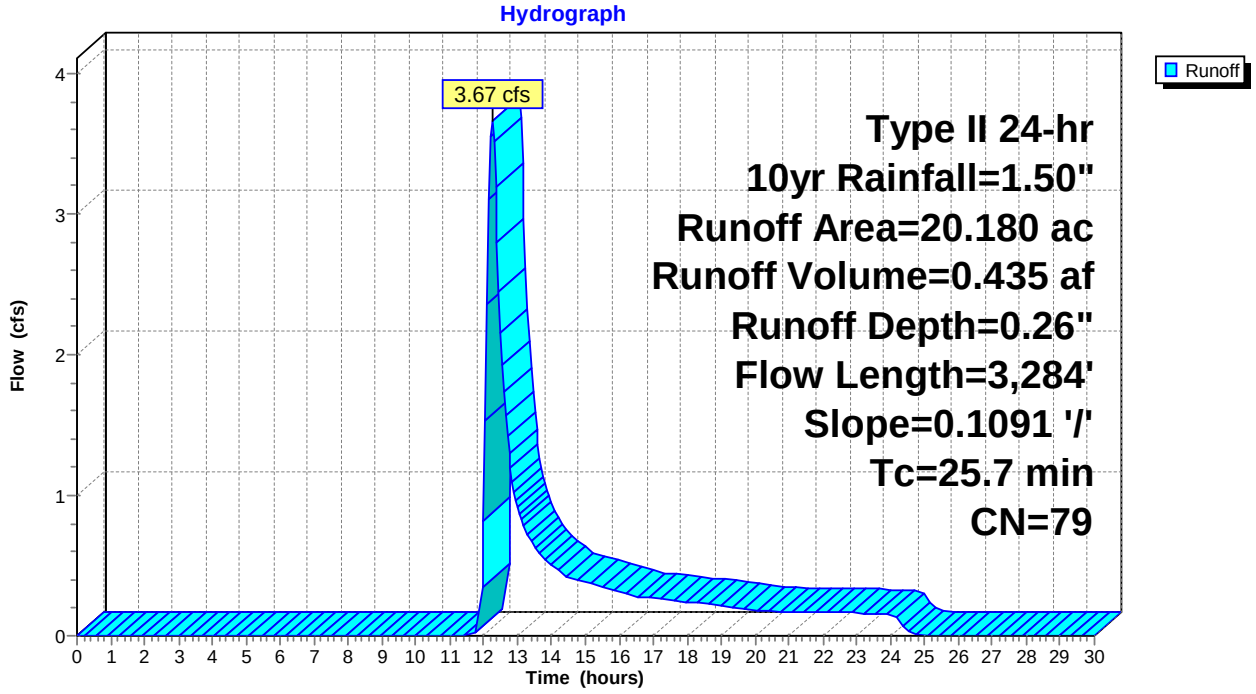
Runoff = 3.67 cfs @ 12.25 hrs, Volume= 0.435 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	20.180	79	
	20.180		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.7	3,284	0.1091	2.13		**Lag/CN Method,**

Subcatchment 23S: DC-052



Summary for Subcatchment 24S: DC-001

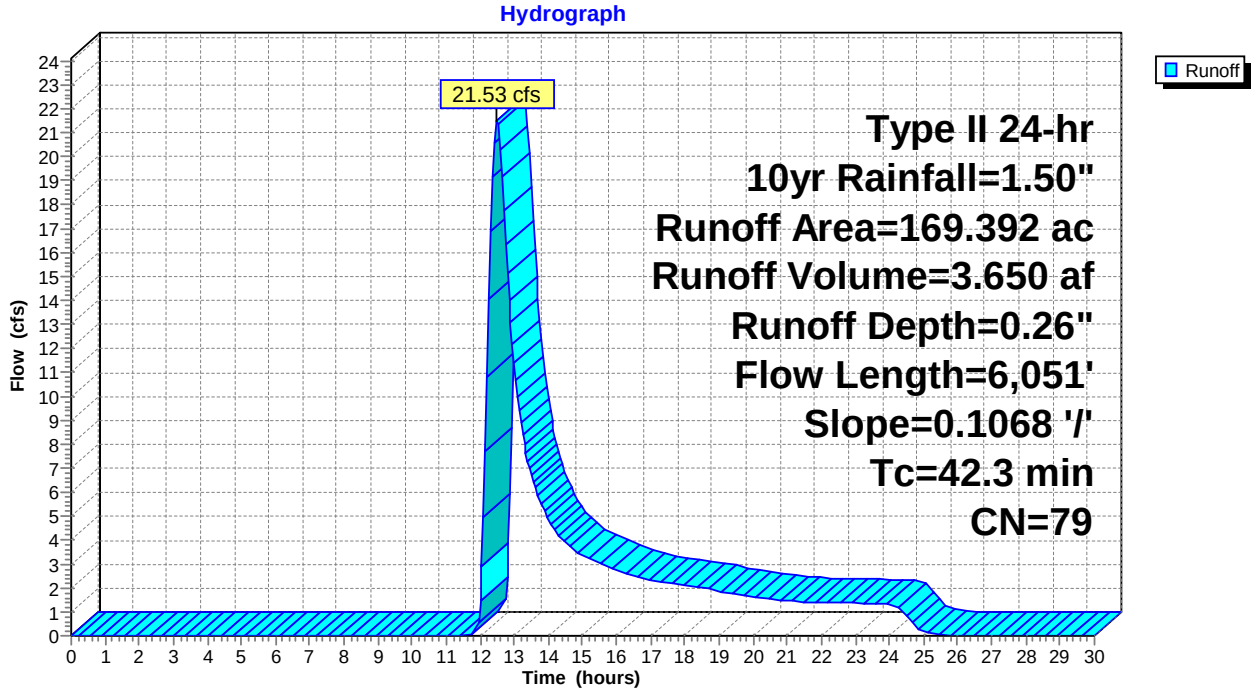
Runoff = 21.53 cfs @ 12.48 hrs, Volume= 3.650 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	169.392	79	
	169.392		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.3	6,051	0.1068	2.38		**Lag/CN Method,**

Subcatchment 24S: DC-001



Summary for Subcatchment 25S: DC-002

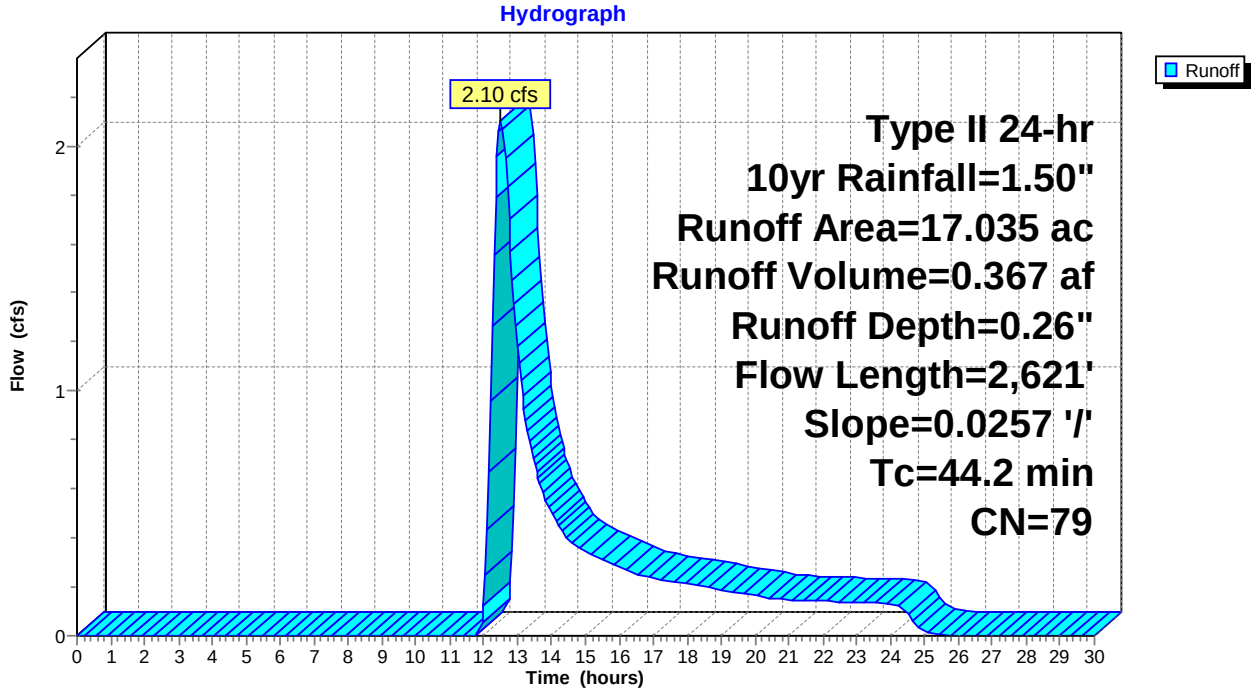
Runoff = 2.10 cfs @ 12.52 hrs, Volume= 0.367 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	17.035	79	
	17.035		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.2	2,621	0.0257	0.99		**Lag/CN Method,**

Subcatchment 25S: DC-002



Summary for Subcatchment 26S: DC-003

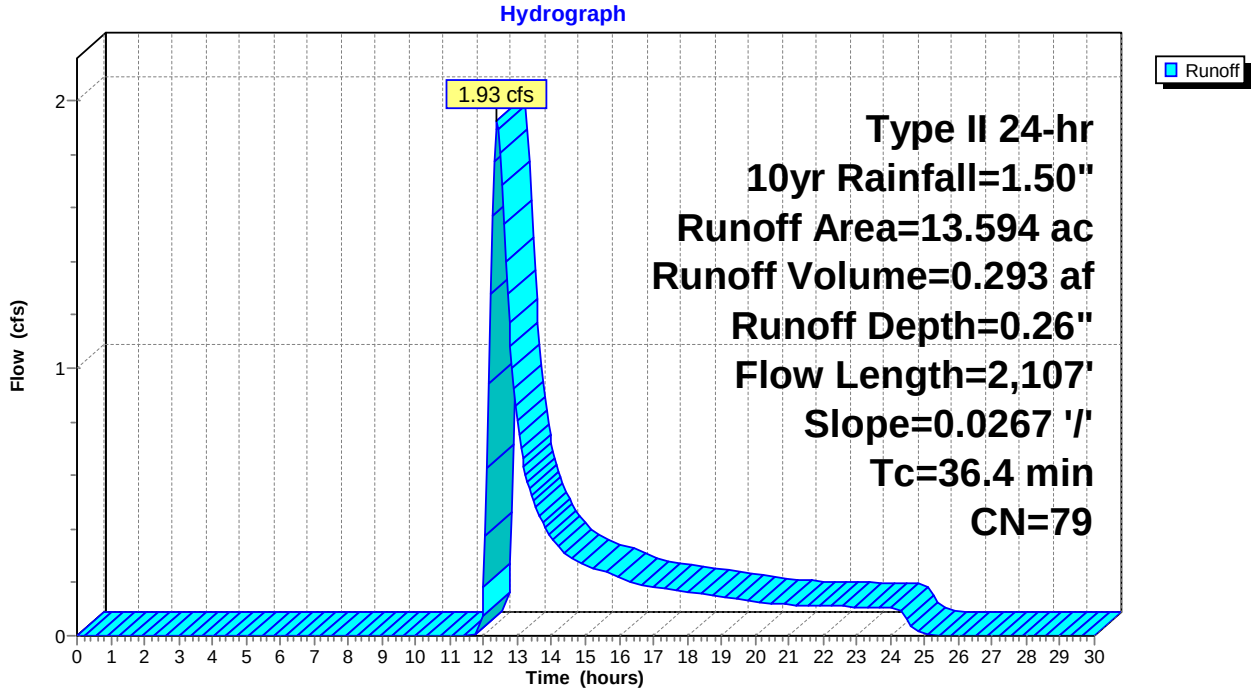
Runoff = 1.93 cfs @ 12.40 hrs, Volume= 0.293 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	13.594	79	
	13.594		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.4	2,107	0.0267	0.96		**Lag/CN Method,**

Subcatchment 26S: DC-003



Summary for Subcatchment 27S: DC-004

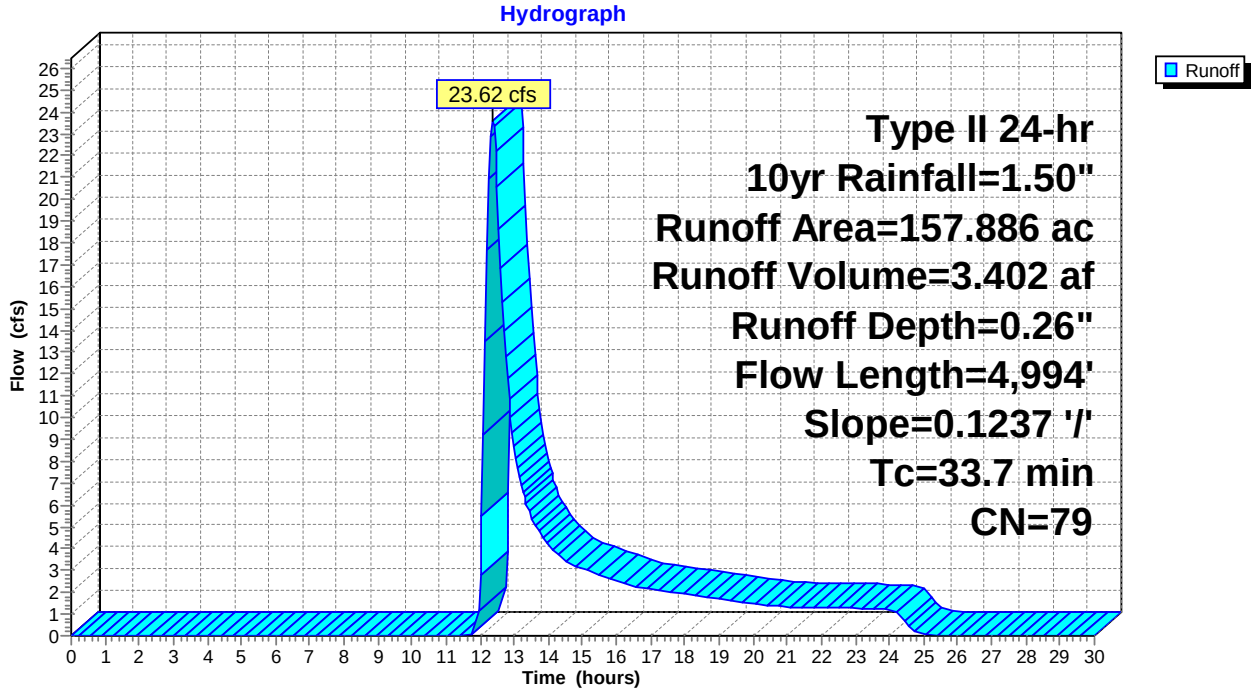
Runoff = 23.62 cfs @ 12.36 hrs, Volume= 3.402 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	157.886	79	
	157.886		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
33.7	4,994	0.1237	2.47		**Lag/CN Method,**

Subcatchment 27S: DC-004



Summary for Subcatchment 28S: DC-005

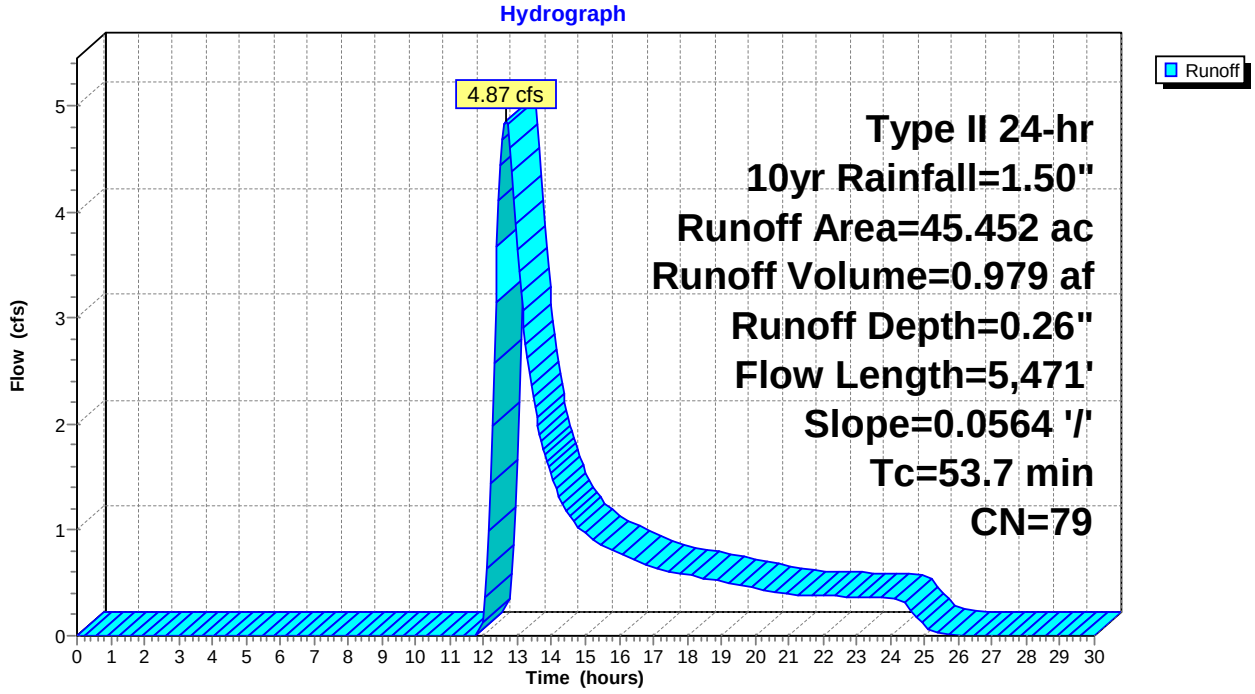
Runoff = 4.87 cfs @ 12.66 hrs, Volume= 0.979 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	45.452	79	
	45.452		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.7	5,471	0.0564	1.70		**Lag/CN Method,**

Subcatchment 28S: DC-005



Summary for Subcatchment 29S: DC-006

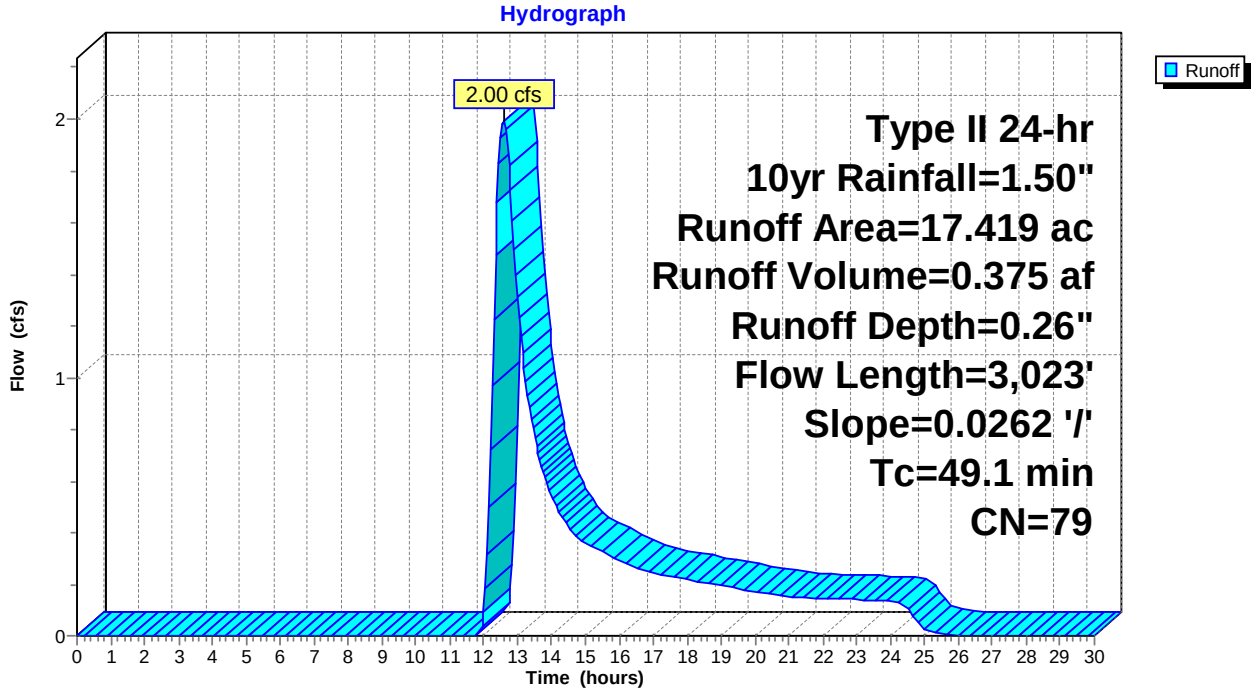
Runoff = 2.00 cfs @ 12.59 hrs, Volume= 0.375 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	17.419	79	
	17.419		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.1	3,023	0.0262	1.03		**Lag/CN Method,**

Subcatchment 29S: DC-006



Summary for Subcatchment 30S: DC-007

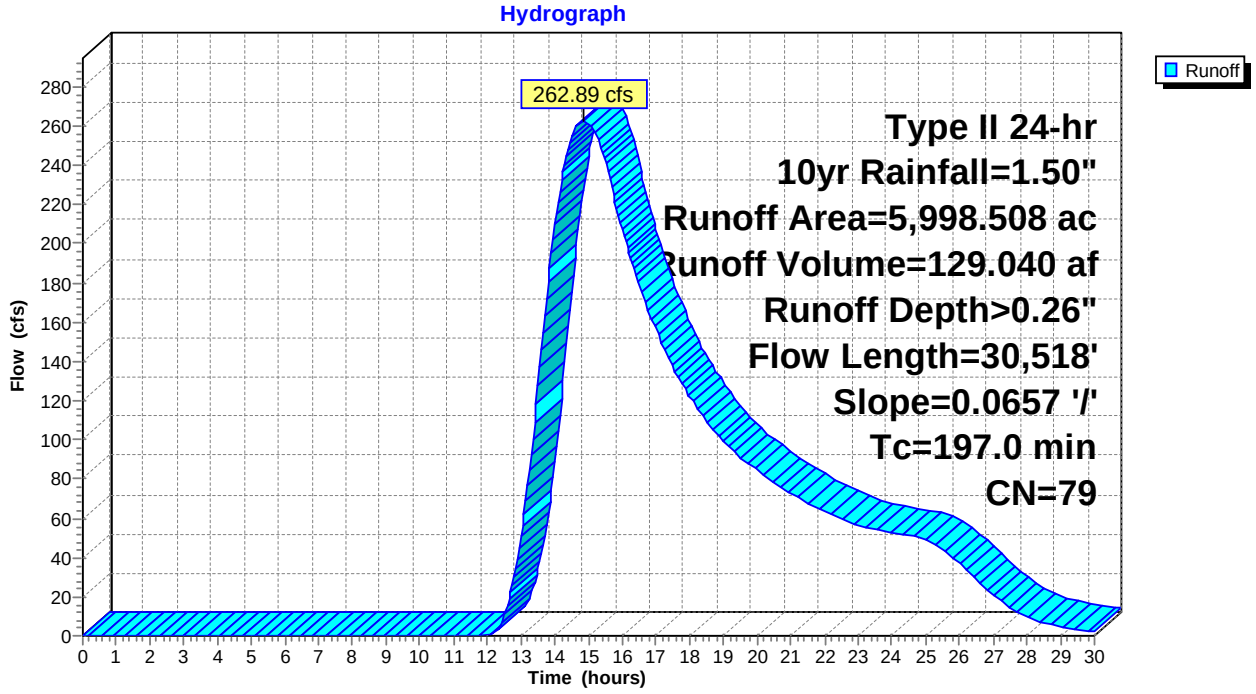
Runoff = 262.89 cfs @ 14.87 hrs, Volume= 129.040 af, Depth> 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	5,998.508	79	
	5,998.508		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
197.0	30,518	0.0657	2.58		**Lag/CN Method,**

Subcatchment 30S: DC-007



Summary for Subcatchment 31S: DC-008

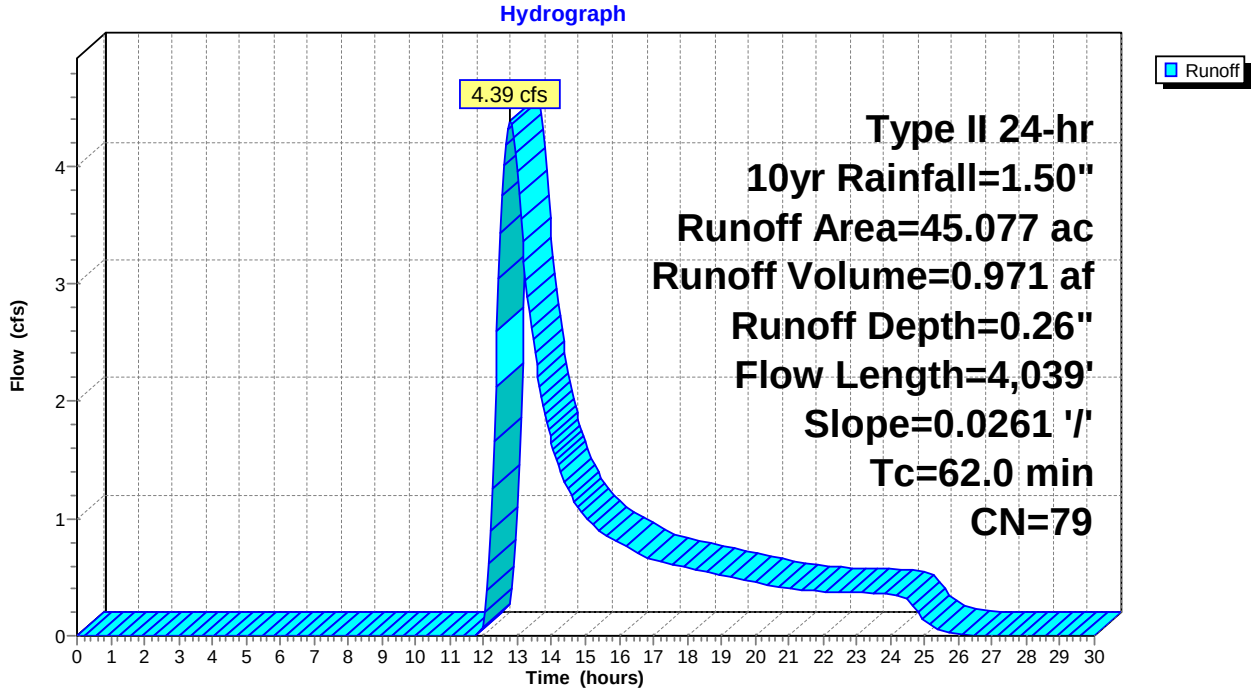
Runoff = 4.39 cfs @ 12.77 hrs, Volume= 0.971 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	45.077	79	
	45.077		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
62.0	4,039	0.0261	1.09		**Lag/CN Method,**

Subcatchment 31S: DC-008



Summary for Subcatchment 32S: DC-009

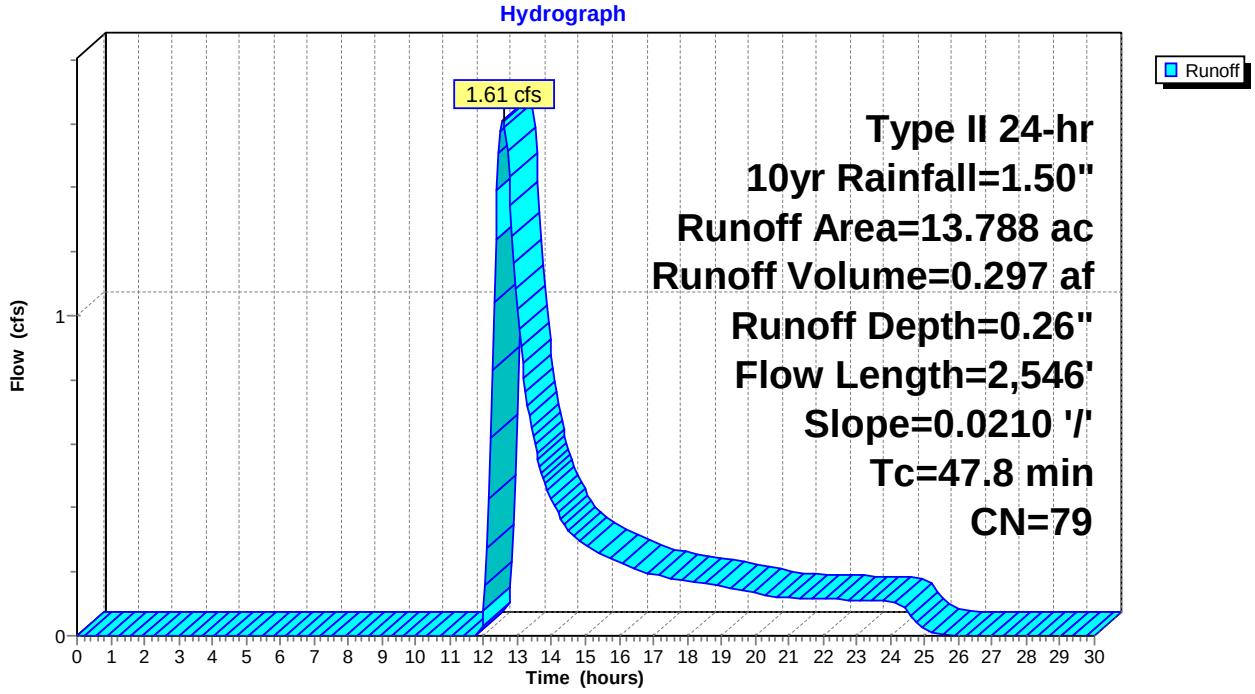
Runoff = 1.61 cfs @ 12.58 hrs, Volume= 0.297 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	13.788	79	
	13.788		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
47.8	2,546	0.0210	0.89		**Lag/CN Method,**

Subcatchment 32S: DC-009



Summary for Subcatchment 33S: DC-010

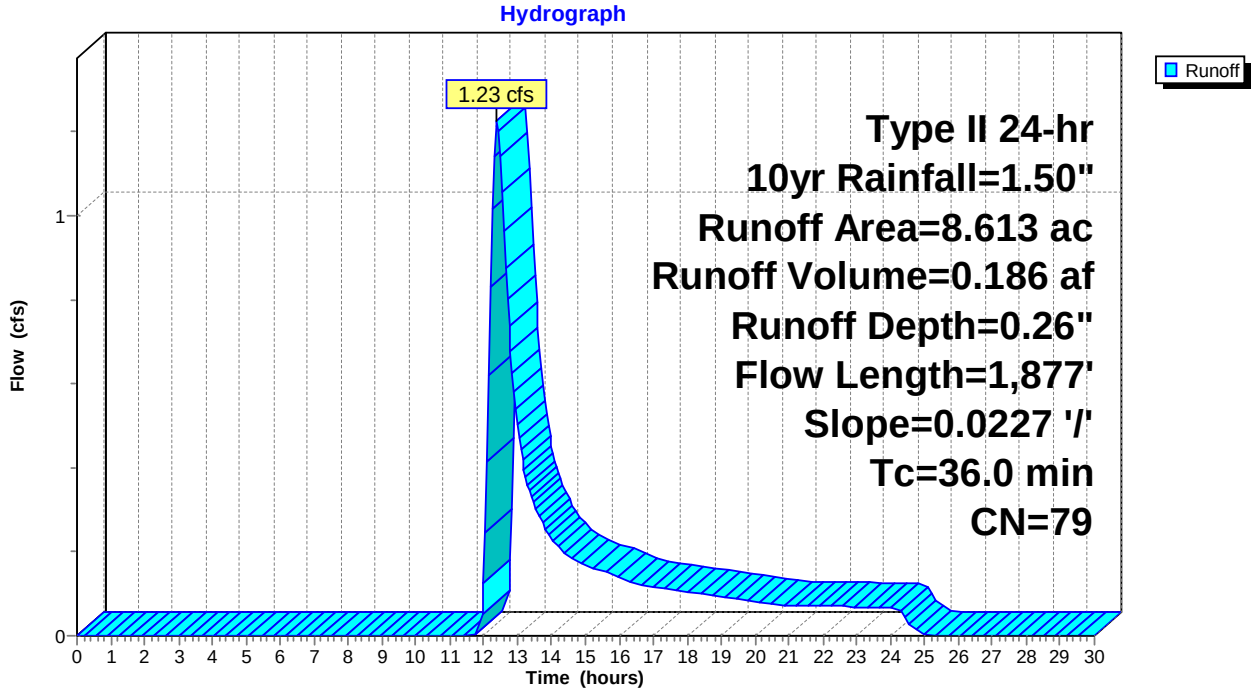
Runoff = 1.23 cfs @ 12.39 hrs, Volume= 0.186 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	8.613	79	
	8.613		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
36.0	1,877	0.0227	0.87		**Lag/CN Method,**

Subcatchment 33S: DC-010



Summary for Subcatchment 34S: DC-011

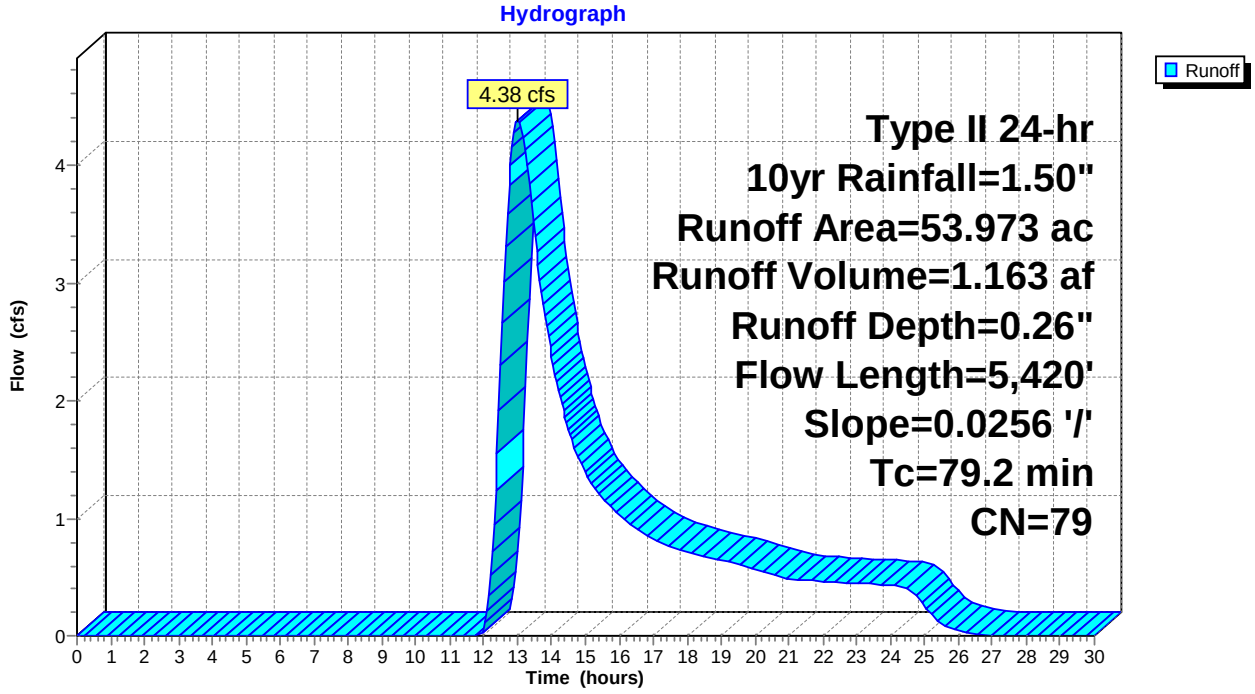
Runoff = 4.38 cfs @ 13.02 hrs, Volume= 1.163 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	53.973	79	
	53.973		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
79.2	5,420	0.0256	1.14		**Lag/CN Method,**

Subcatchment 34S: DC-011



Summary for Subcatchment 35S: DC-012

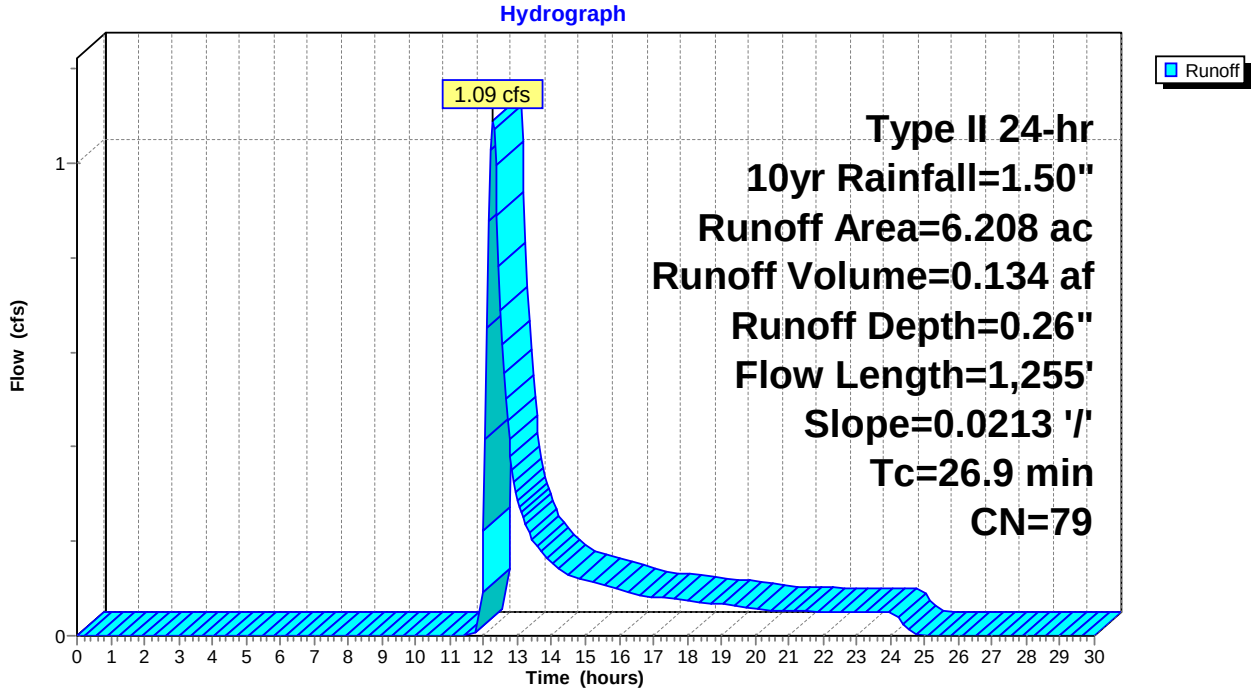
Runoff = 1.09 cfs @ 12.26 hrs, Volume= 0.134 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	6.208	79	
	6.208		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.9	1,255	0.0213	0.78		**Lag/CN Method,**

Subcatchment 35S: DC-012



Summary for Subcatchment 36S: DC-013

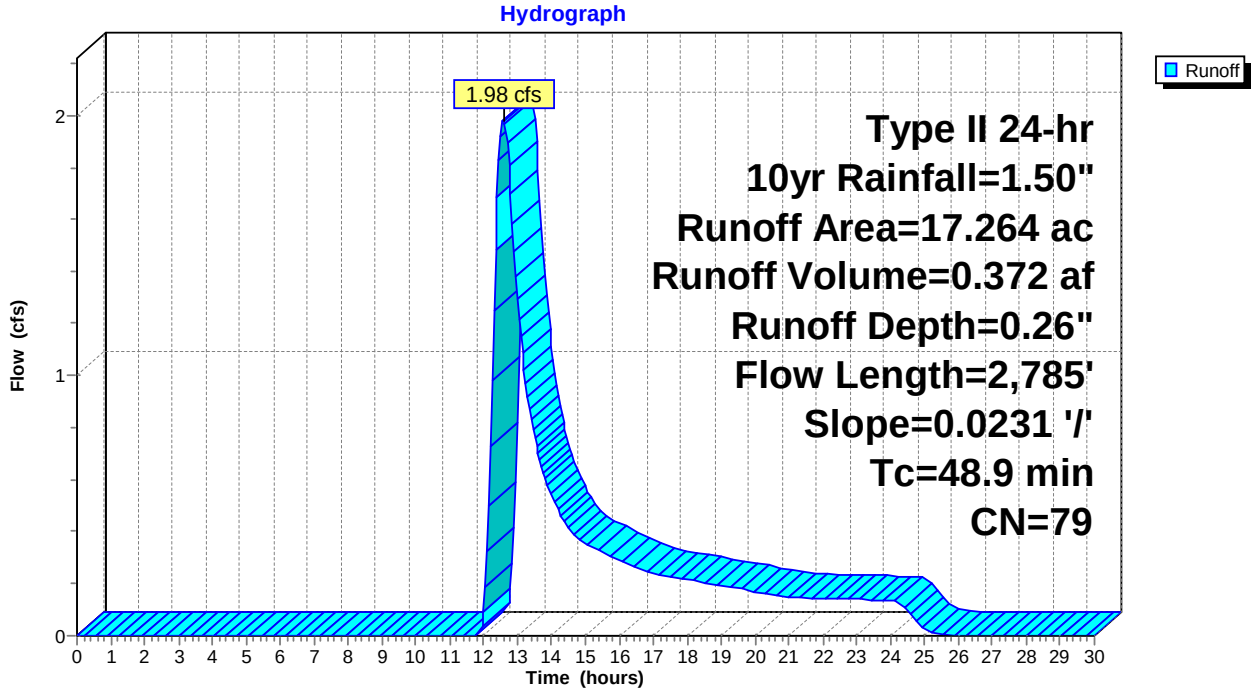
Runoff = 1.98 cfs @ 12.58 hrs, Volume= 0.372 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	17.264	79	
	17.264		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
48.9	2,785	0.0231	0.95		**Lag/CN Method,**

Subcatchment 36S: DC-013



Summary for Subcatchment 37S: DC-014

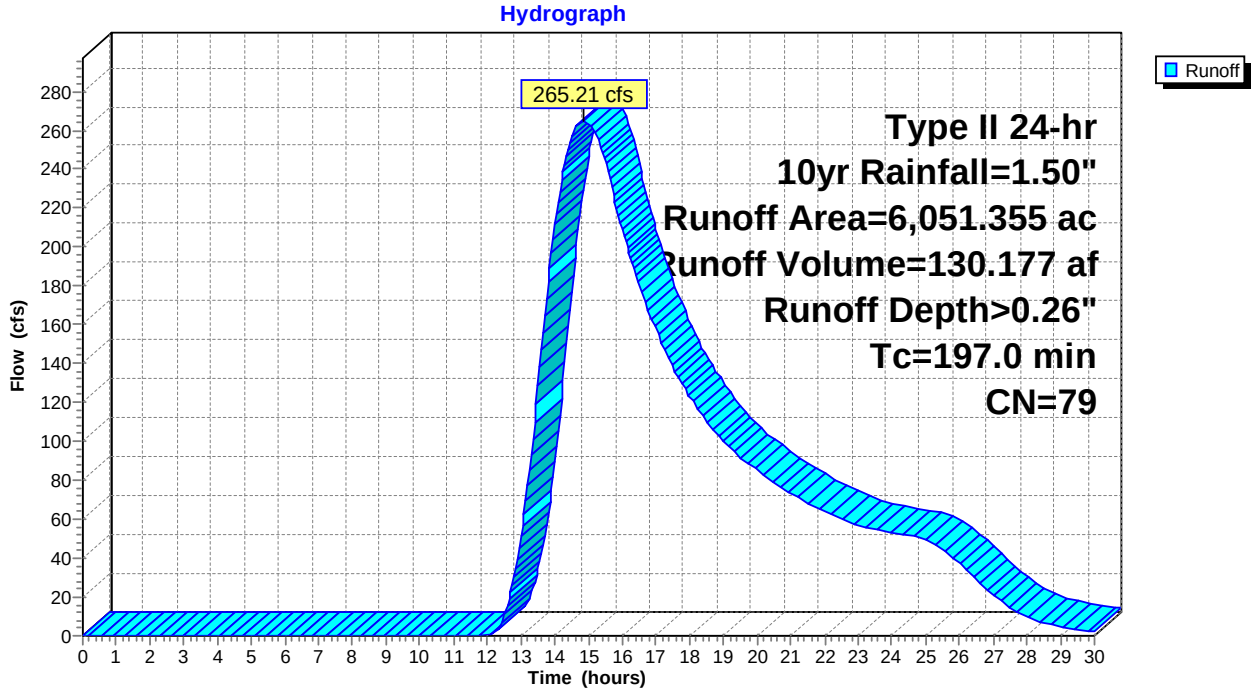
Runoff = 265.21 cfs @ 14.87 hrs, Volume= 130.177 af, Depth> 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	6,051.355	79	
	6,051.355		100.00% Pervious Area

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

Subcatchment 37S: DC-014



Summary for Subcatchment 38S: DC-015

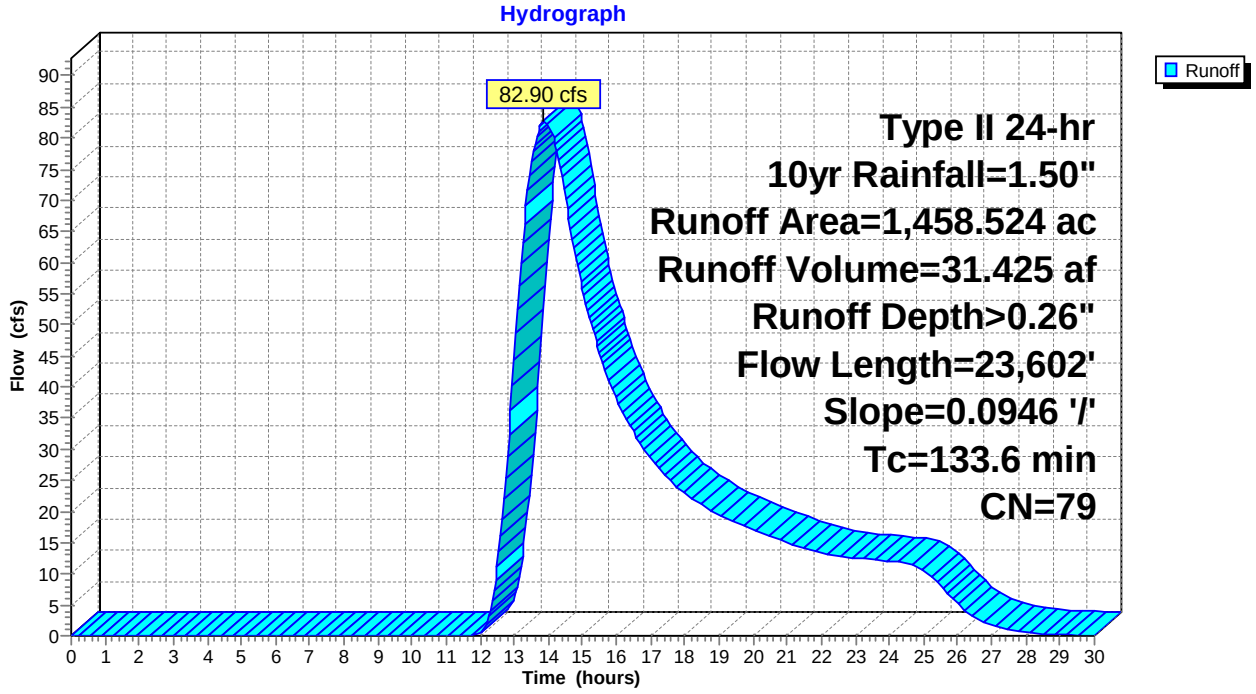
Runoff = 82.90 cfs @ 13.84 hrs, Volume= 31.425 af, Depth> 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1,458.524	79	
	1,458.524		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
133.6	23,602	0.0946	2.94		**Lag/CN Method,**

Subcatchment 38S: DC-015



Summary for Subcatchment 39S: DC-016

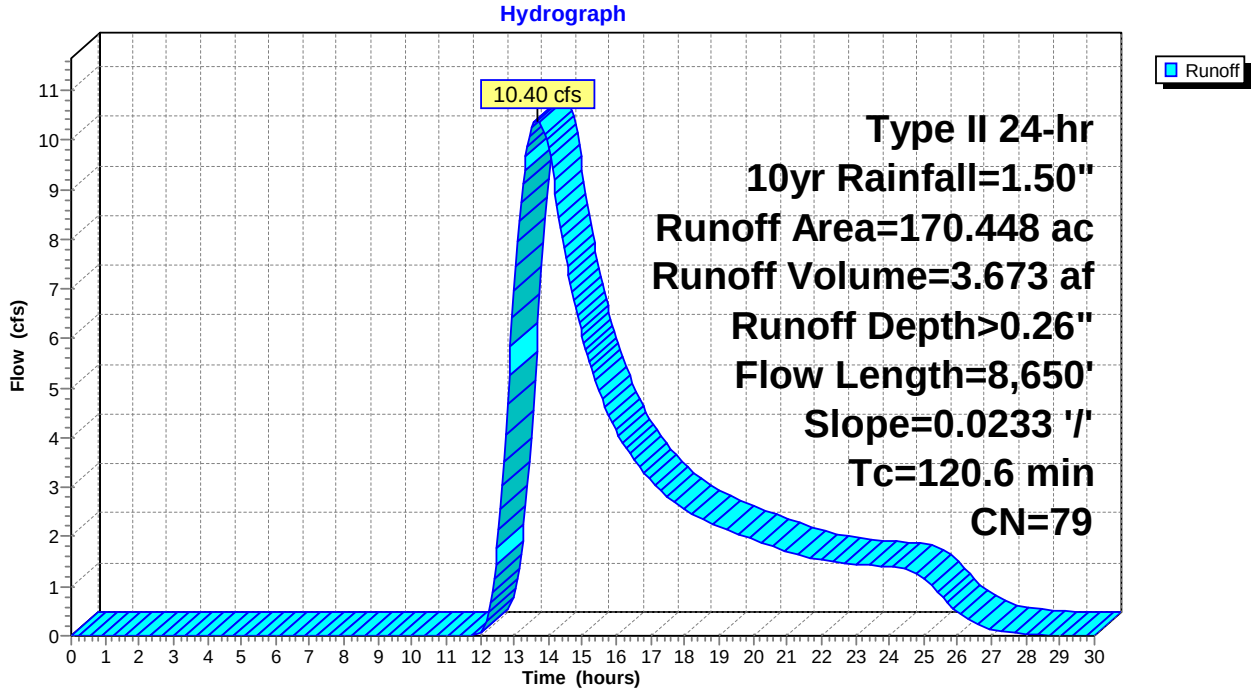
Runoff = 10.40 cfs @ 13.66 hrs, Volume= 3.673 af, Depth> 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	170.448	79	
	170.448		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
120.6	8,650	0.0233	1.20		**Lag/CN Method,**

Subcatchment 39S: DC-016



Summary for Subcatchment 40S: DC-017

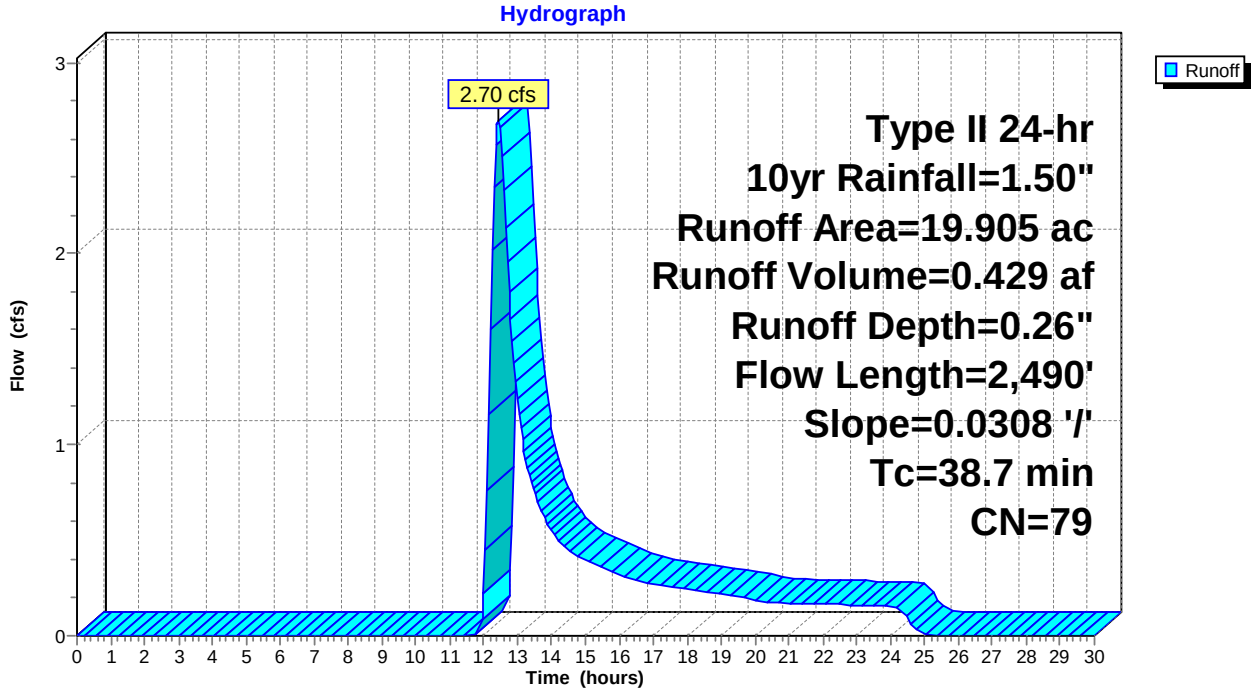
Runoff = 2.70 cfs @ 12.44 hrs, Volume= 0.429 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	19.905	79	
	19.905		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.7	2,490	0.0308	1.07		**Lag/CN Method,**

Subcatchment 40S: DC-017



Summary for Subcatchment 41S: DC-018

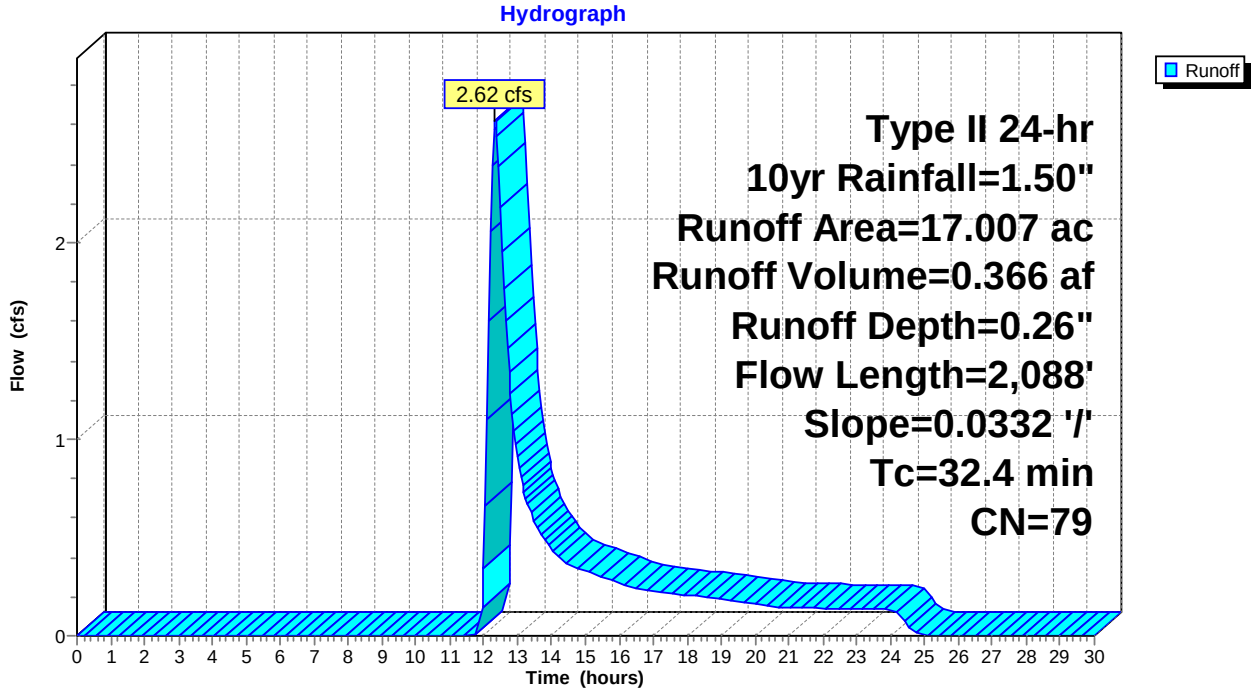
Runoff = 2.62 cfs @ 12.34 hrs, Volume= 0.366 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	17.007	79	
	17.007		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
32.4	2,088	0.0332	1.07		**Lag/CN Method,**

Subcatchment 41S: DC-018



Summary for Subcatchment 42S: DC-020

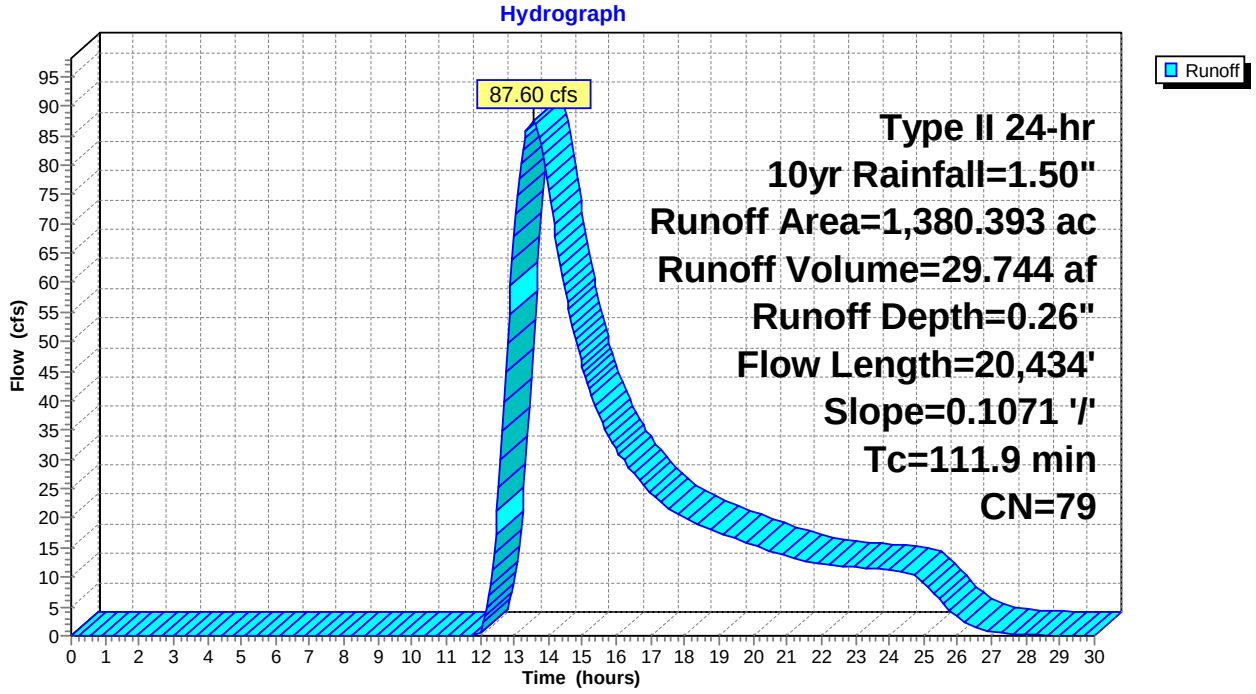
Runoff = 87.60 cfs @ 13.54 hrs, Volume= 29.744 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1,380.393	79	
	1,380.393		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
111.9	20,434	0.1071	3.04		**Lag/CN Method,**

Subcatchment 42S: DC-020



Summary for Subcatchment 43S: DC-021

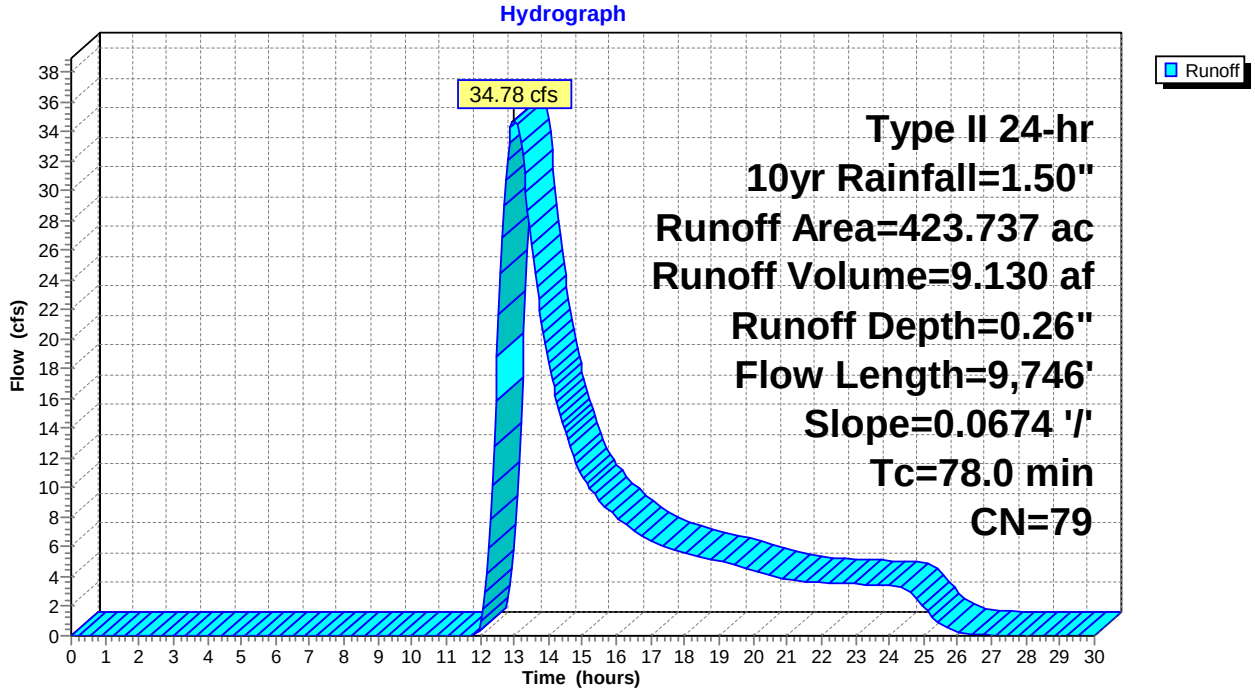
Runoff = 34.78 cfs @ 13.01 hrs, Volume= 9.130 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	423.737	79	
	423.737		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
78.0	9,746	0.0674	2.08		**Lag/CN Method,**

Subcatchment 43S: DC-021



Summary for Subcatchment 44S: DC-022

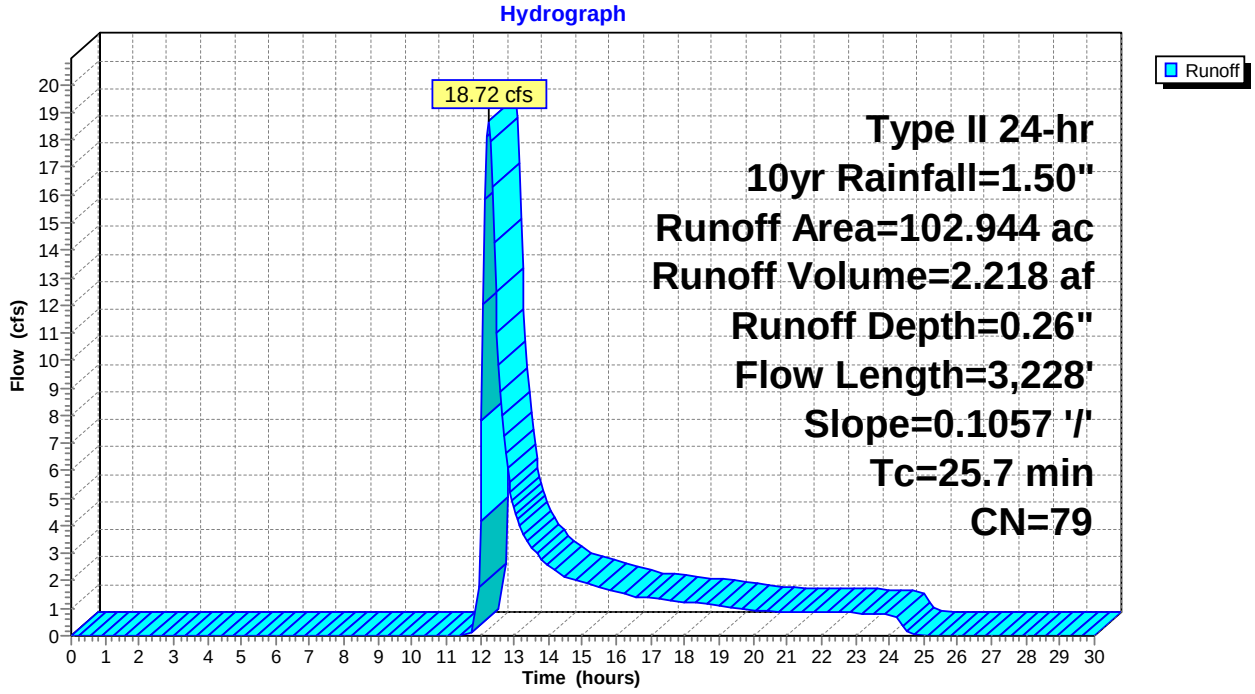
Runoff = 18.72 cfs @ 12.25 hrs, Volume= 2.218 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	102.944	79	
	102.944		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
25.7	3,228	0.1057	2.09		**Lag/CN Method,**

Subcatchment 44S: DC-022



Summary for Subcatchment 45S: DC-024

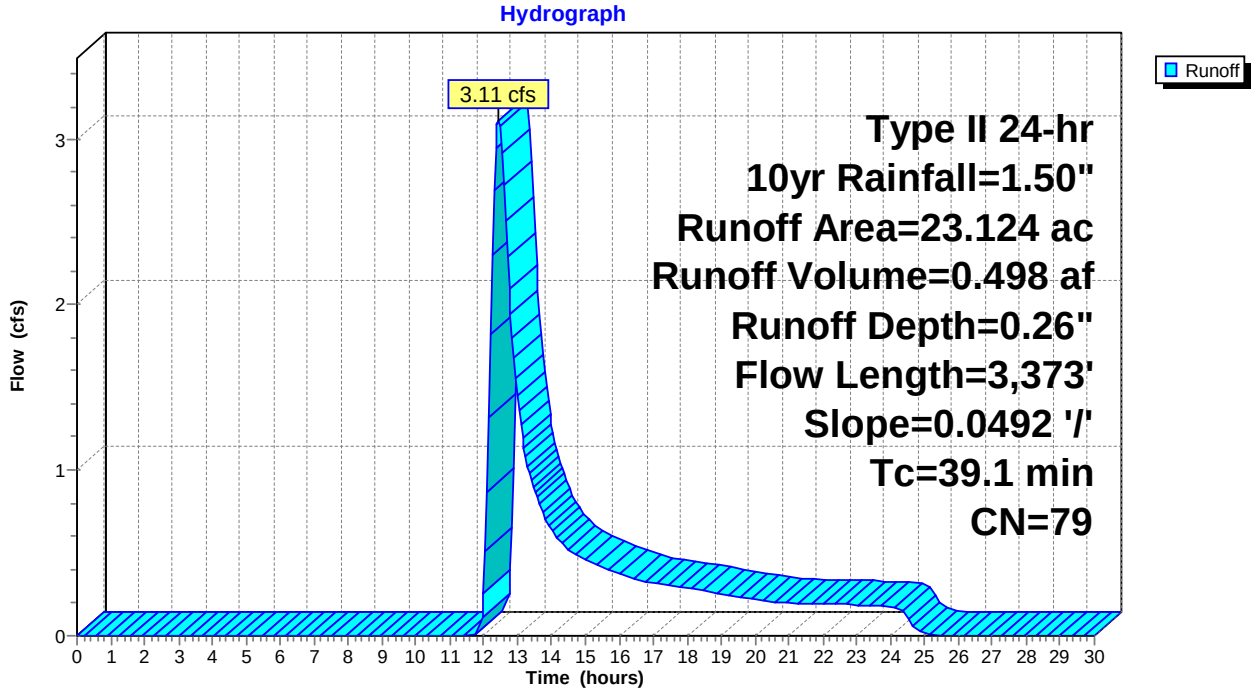
Runoff = 3.11 cfs @ 12.44 hrs, Volume= 0.498 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	23.124	79	
	23.124		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
39.1	3,373	0.0492	1.44		**Lag/CN Method,**

Subcatchment 45S: DC-024



Summary for Subcatchment 46S: DC-025

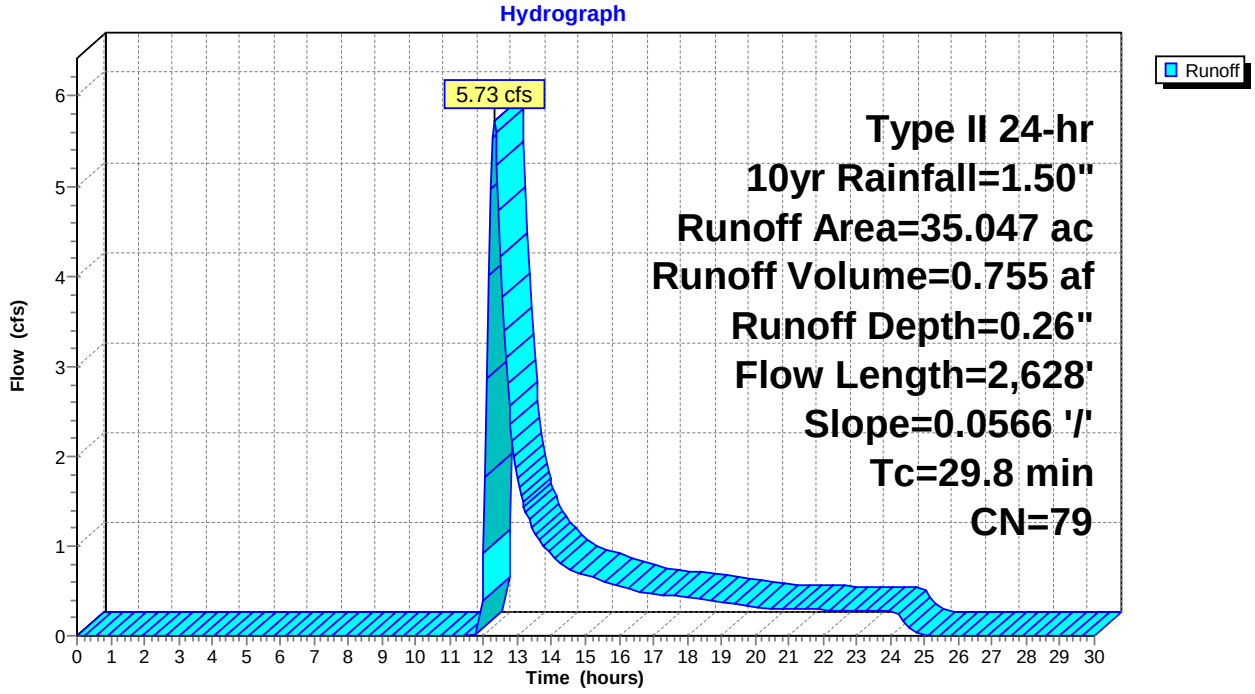
Runoff = 5.73 cfs @ 12.30 hrs, Volume= 0.755 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	35.047	79	
	35.047		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.8	2,628	0.0566	1.47		**Lag/CN Method,**

Subcatchment 46S: DC-025



Summary for Subcatchment 47S: DC-026

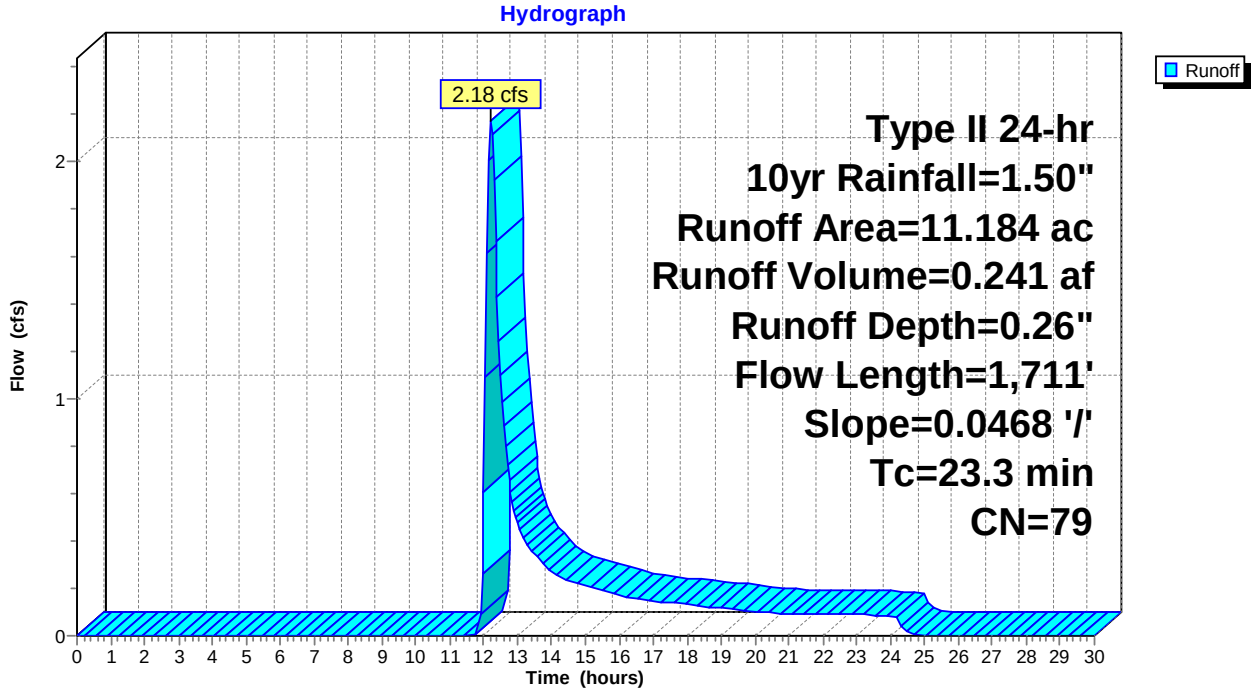
Runoff = 2.18 cfs @ 12.21 hrs, Volume= 0.241 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	11.184	79	
	11.184		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.3	1,711	0.0468	1.22		**Lag/CN Method,**

Subcatchment 47S: DC-026



Summary for Subcatchment 48S: DC-027

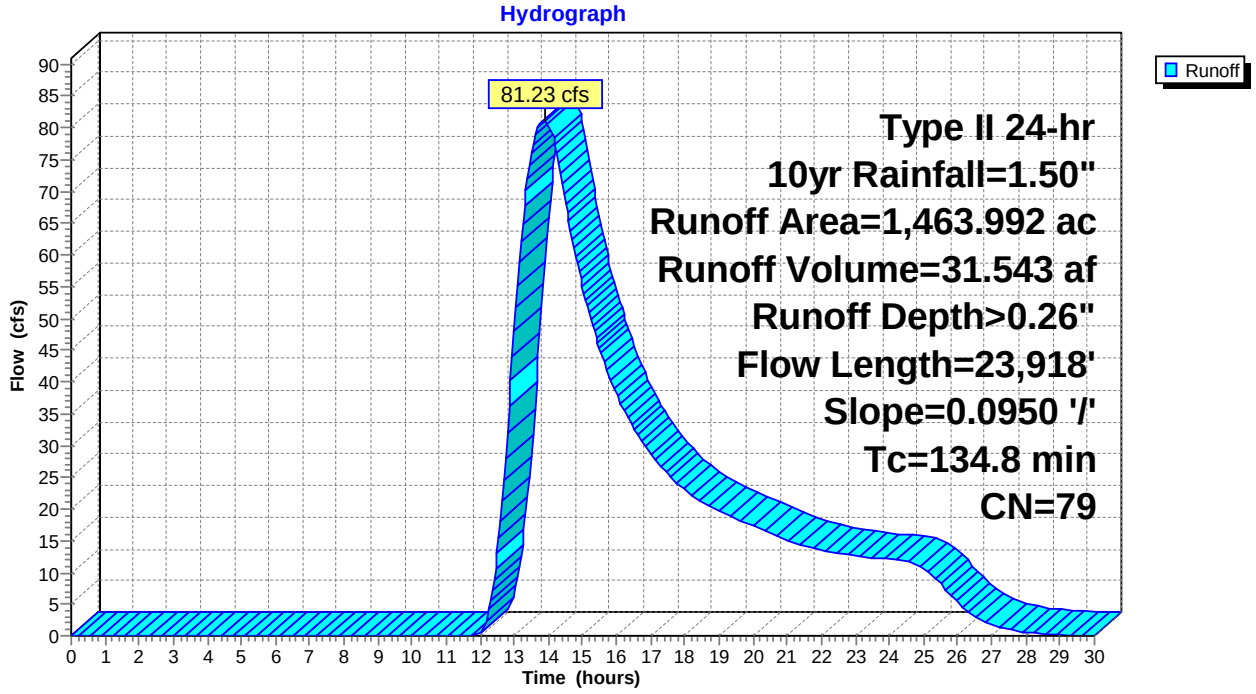
Runoff = 81.23 cfs @ 13.89 hrs, Volume= 31.543 af, Depth> 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1,463.992	79	
	1,463.992		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
134.8	23,918	0.0950	2.96		**Lag/CN Method,**

Subcatchment 48S: DC-027



Summary for Subcatchment 49S: DC-028

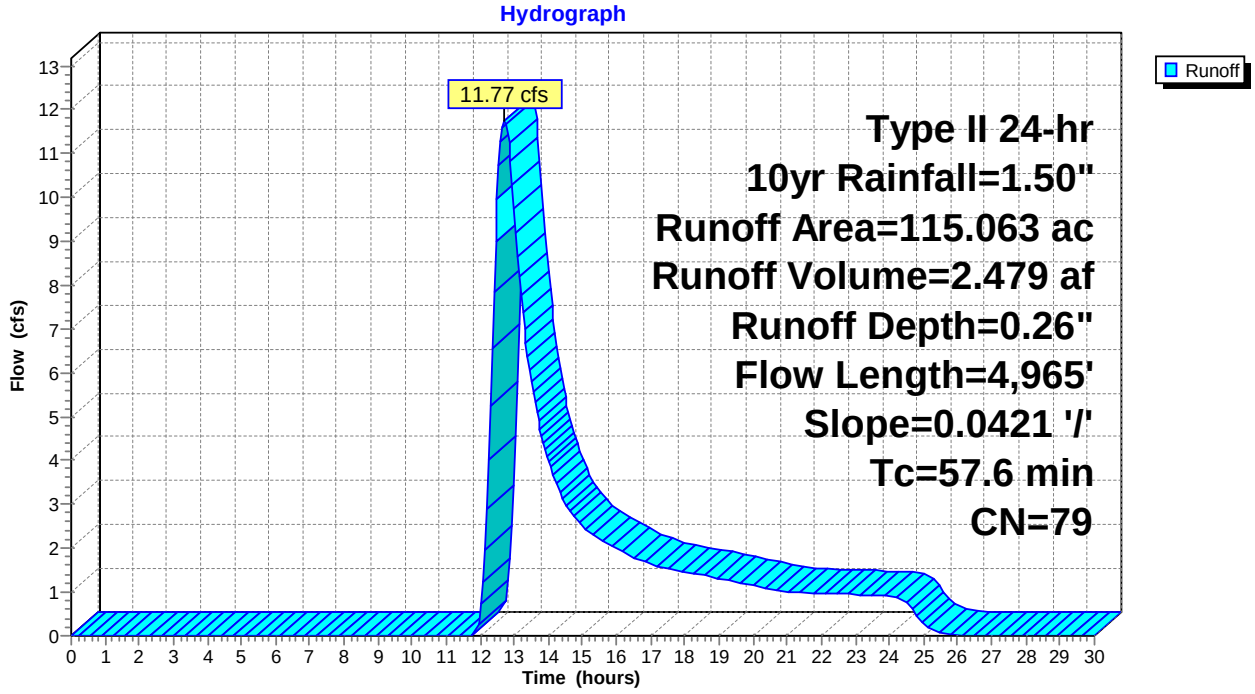
Runoff = 11.77 cfs @ 12.73 hrs, Volume= 2.479 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	115.063	79	
	115.063		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
57.6	4,965	0.0421	1.44		**Lag/CN Method,**

Subcatchment 49S: DC-028



Summary for Subcatchment 50S: DC-029

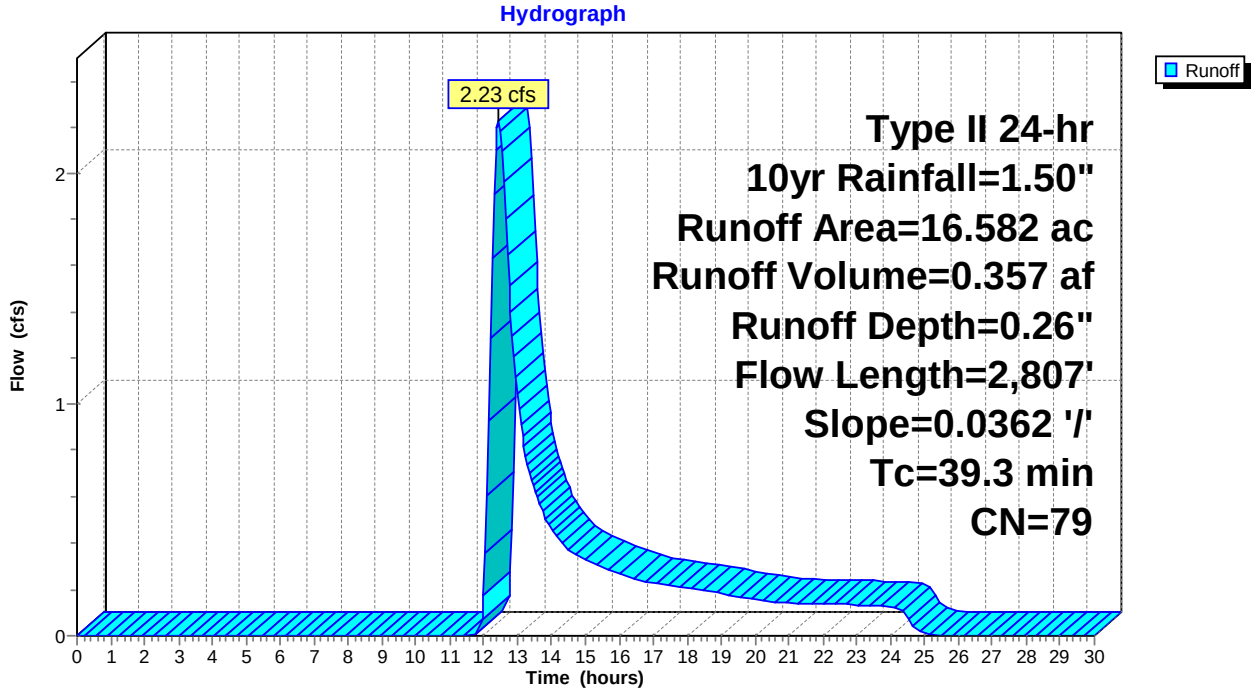
Runoff = 2.23 cfs @ 12.45 hrs, Volume= 0.357 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	16.582	79	
	16.582		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
39.3	2,807	0.0362	1.19		**Lag/CN Method,**

Subcatchment 50S: DC-029



Summary for Subcatchment 51S: DC-030

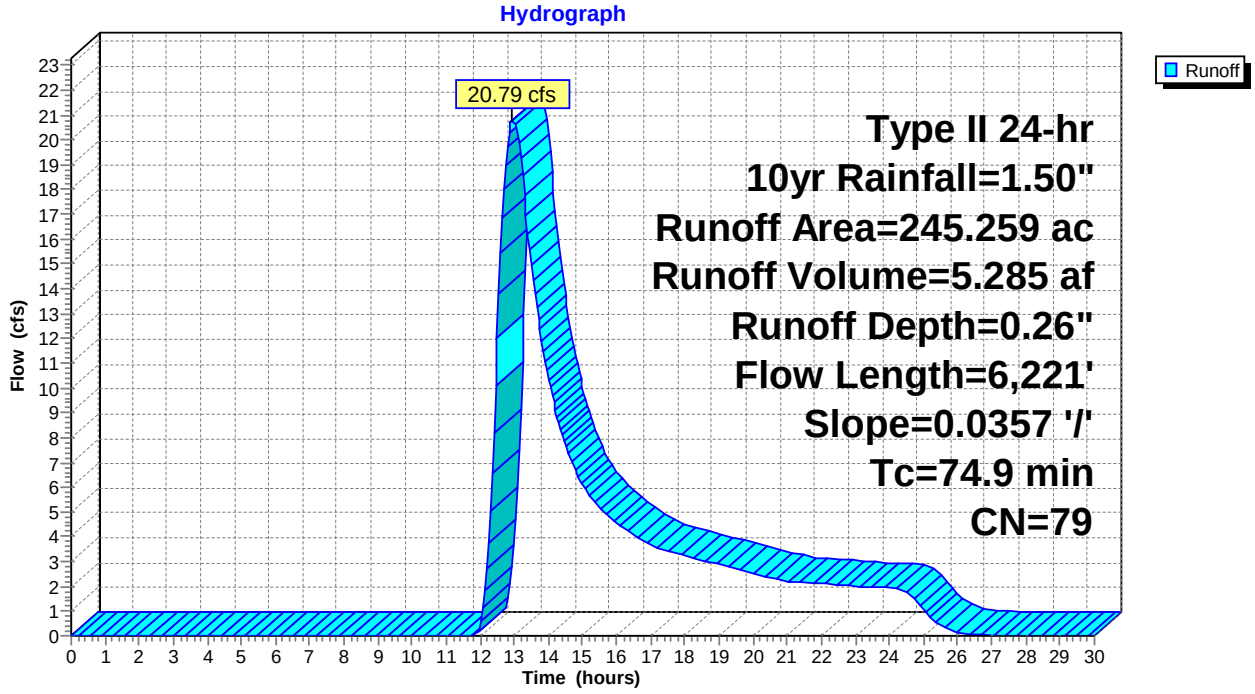
Runoff = 20.79 cfs @ 12.96 hrs, Volume= 5.285 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	245.259	79	
	245.259		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
74.9	6,221	0.0357	1.38		**Lag/CN Method,**

Subcatchment 51S: DC-030



Summary for Subcatchment 52S: DC-031

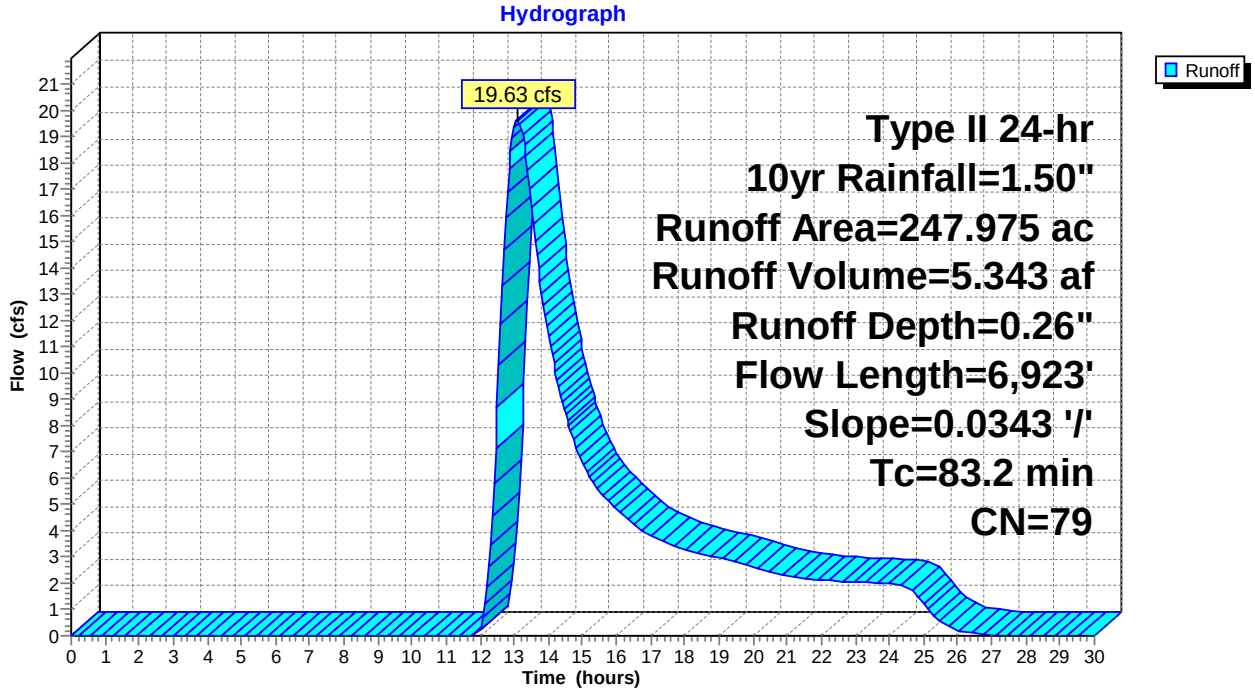
Runoff = 19.63 cfs @ 13.07 hrs, Volume= 5.343 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	247.975	79	
	247.975		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
83.2	6,923	0.0343	1.39		**Lag/CN Method,**

Subcatchment 52S: DC-031



Summary for Subcatchment 53S: DC-032

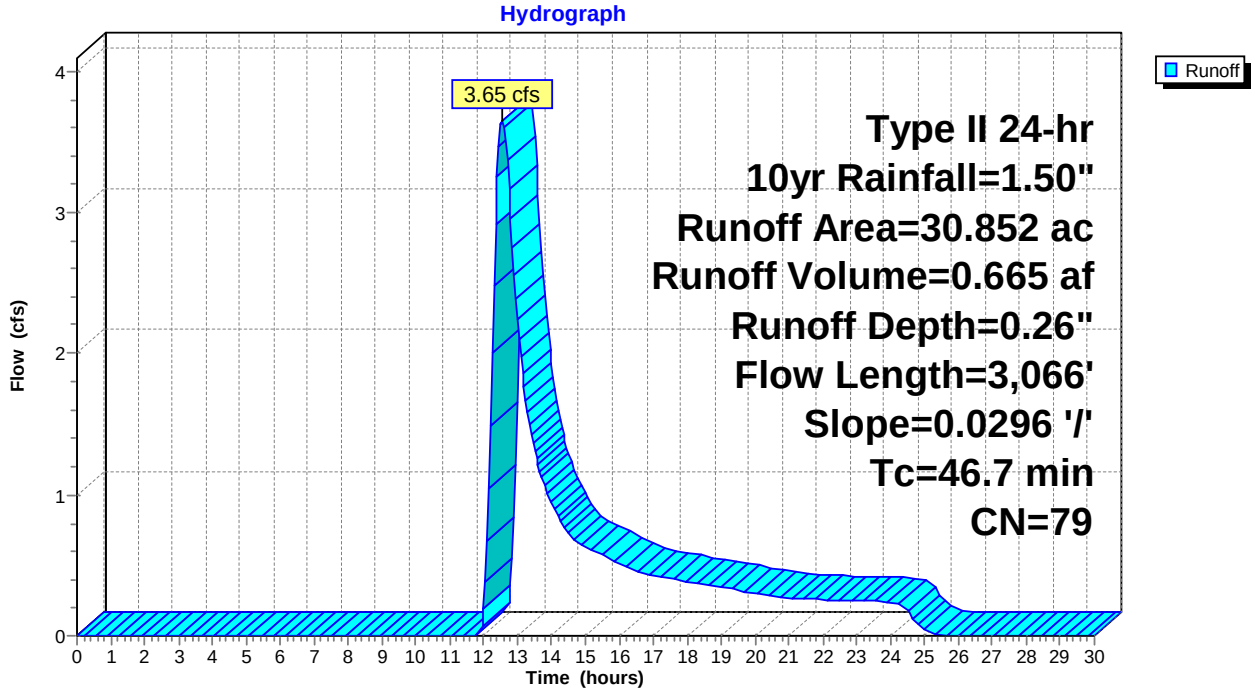
Runoff = 3.65 cfs @ 12.55 hrs, Volume= 0.665 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	30.852	79	
	30.852		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
46.7	3,066	0.0296	1.09		**Lag/CN Method,**

Subcatchment 53S: DC-032



Summary for Subcatchment 54S: DC-033

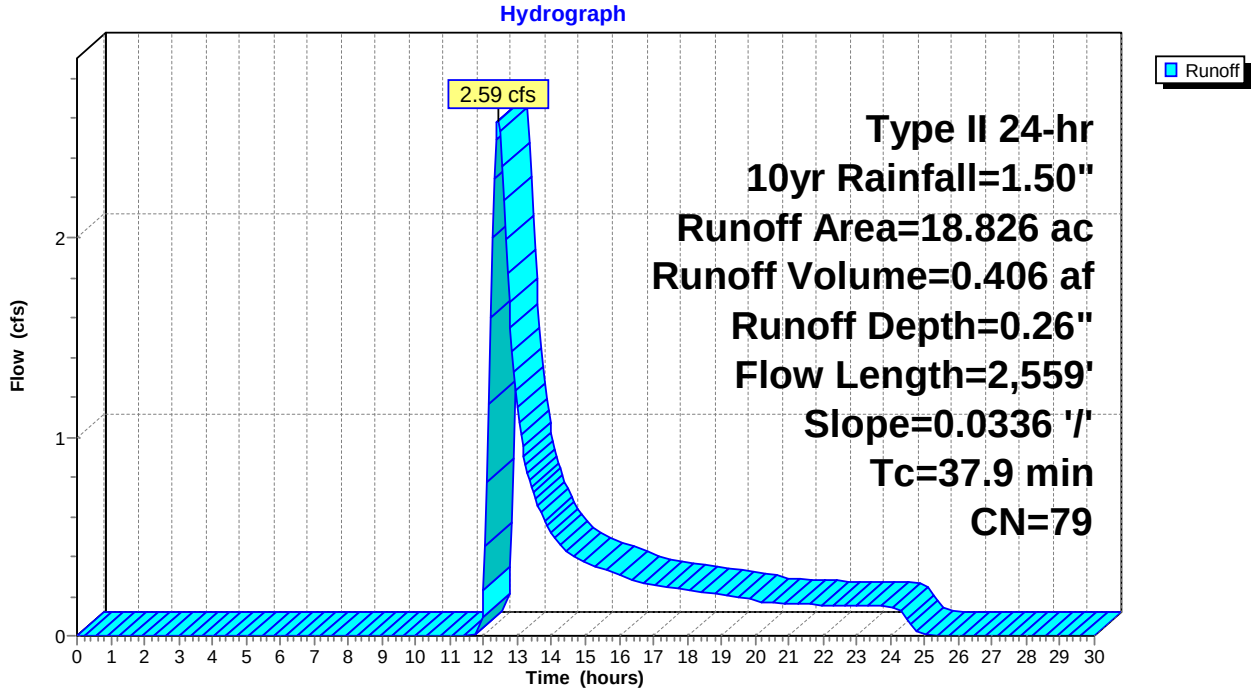
Runoff = 2.59 cfs @ 12.42 hrs, Volume= 0.406 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	18.826	79	
	18.826		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.9	2,559	0.0336	1.12		**Lag/CN Method,**

Subcatchment 54S: DC-033



Summary for Subcatchment 55S: DC-034

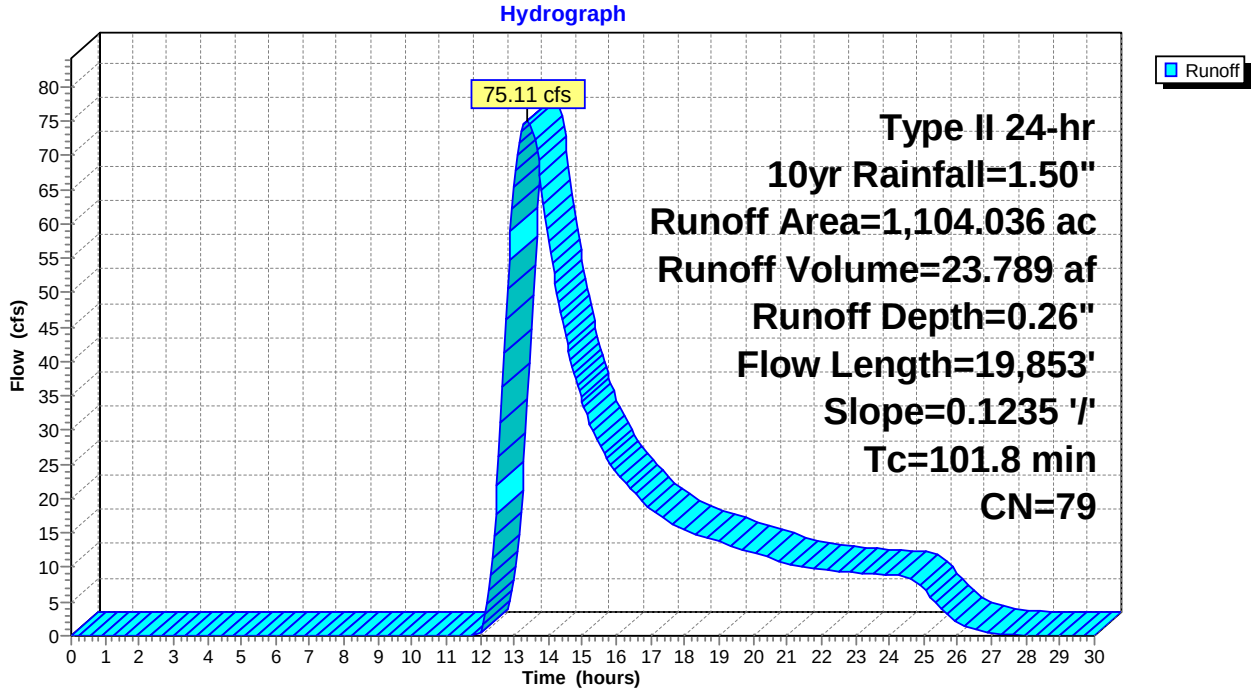
Runoff = 75.11 cfs @ 13.36 hrs, Volume= 23.789 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1,104.036	79	
	1,104.036		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
101.8	19,853	0.1235	3.25		**Lag/CN Method,**

Subcatchment 55S: DC-034



Summary for Subcatchment 56S: DC-035

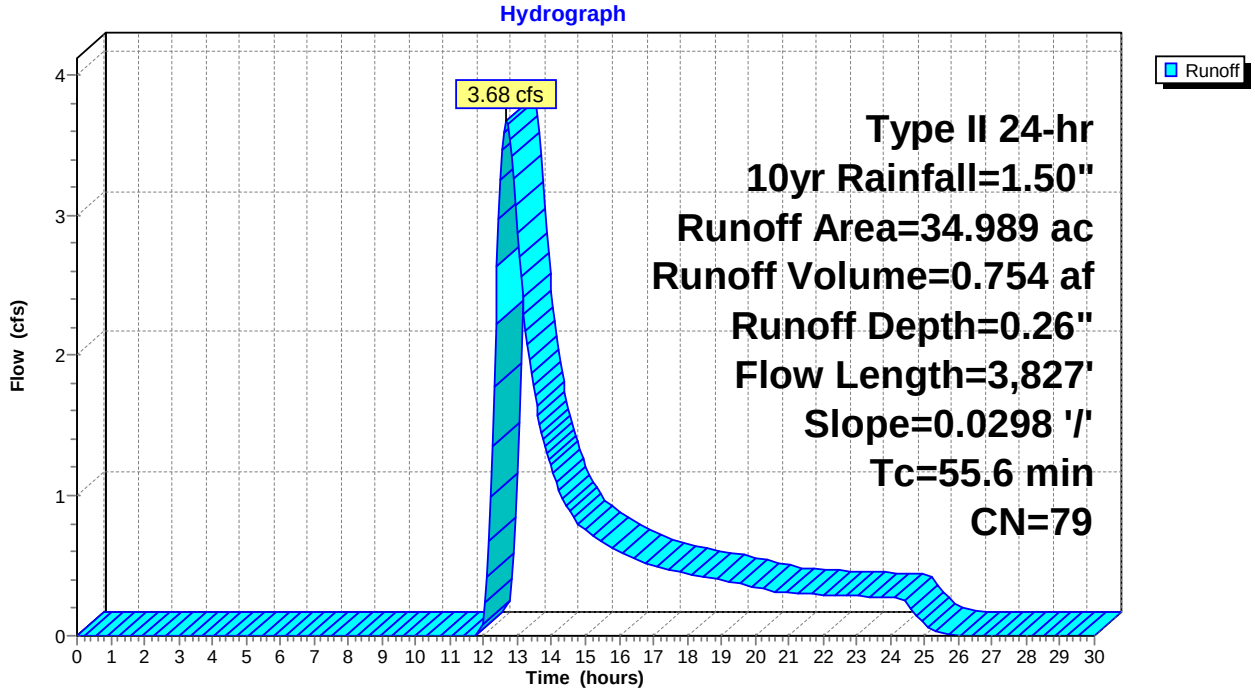
Runoff = 3.68 cfs @ 12.68 hrs, Volume= 0.754 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	34.989	79	
	34.989		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.6	3,827	0.0298	1.15		**Lag/CN Method,**

Subcatchment 56S: DC-035



Summary for Subcatchment 57S: DC-036

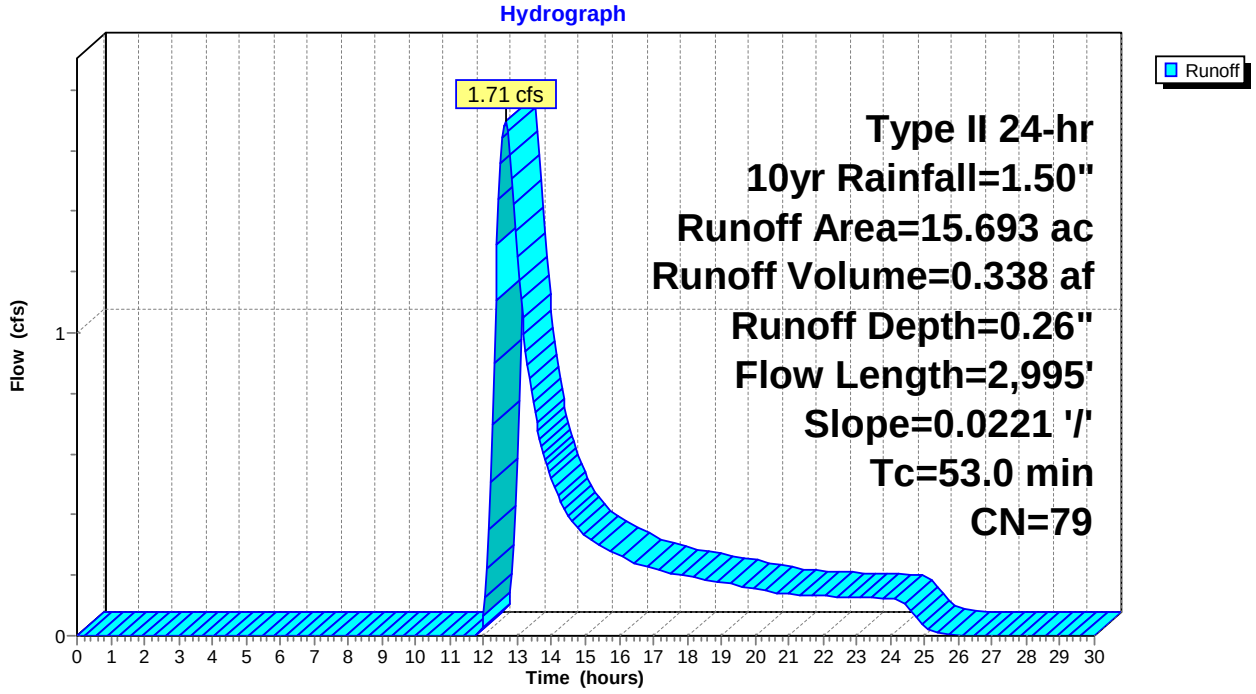
Runoff = 1.71 cfs @ 12.65 hrs, Volume= 0.338 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	15.693	79	
	15.693		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.0	2,995	0.0221	0.94		**Lag/CN Method,**

Subcatchment 57S: DC-036



Summary for Subcatchment 58S: DC-038

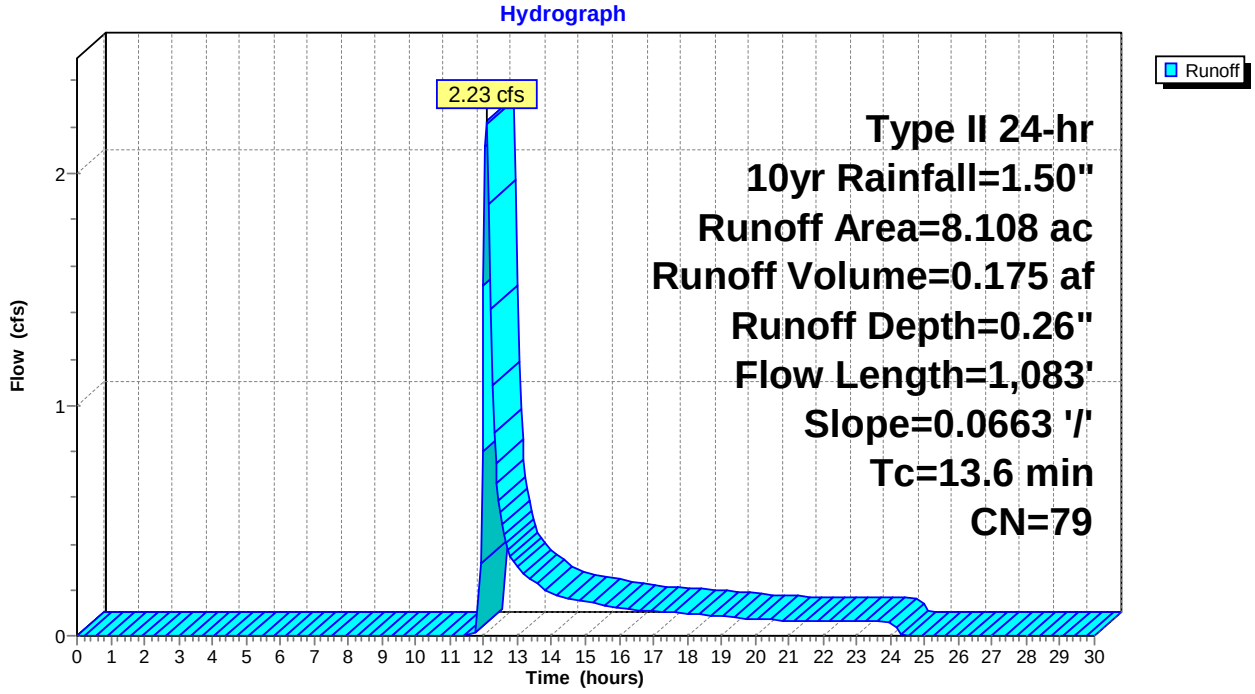
Runoff = 2.23 cfs @ 12.09 hrs, Volume= 0.175 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	8.108	79	
	8.108		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.6	1,083	0.0663	1.33		**Lag/CN Method,**

Subcatchment 58S: DC-038



Summary for Subcatchment 59S: DC-040

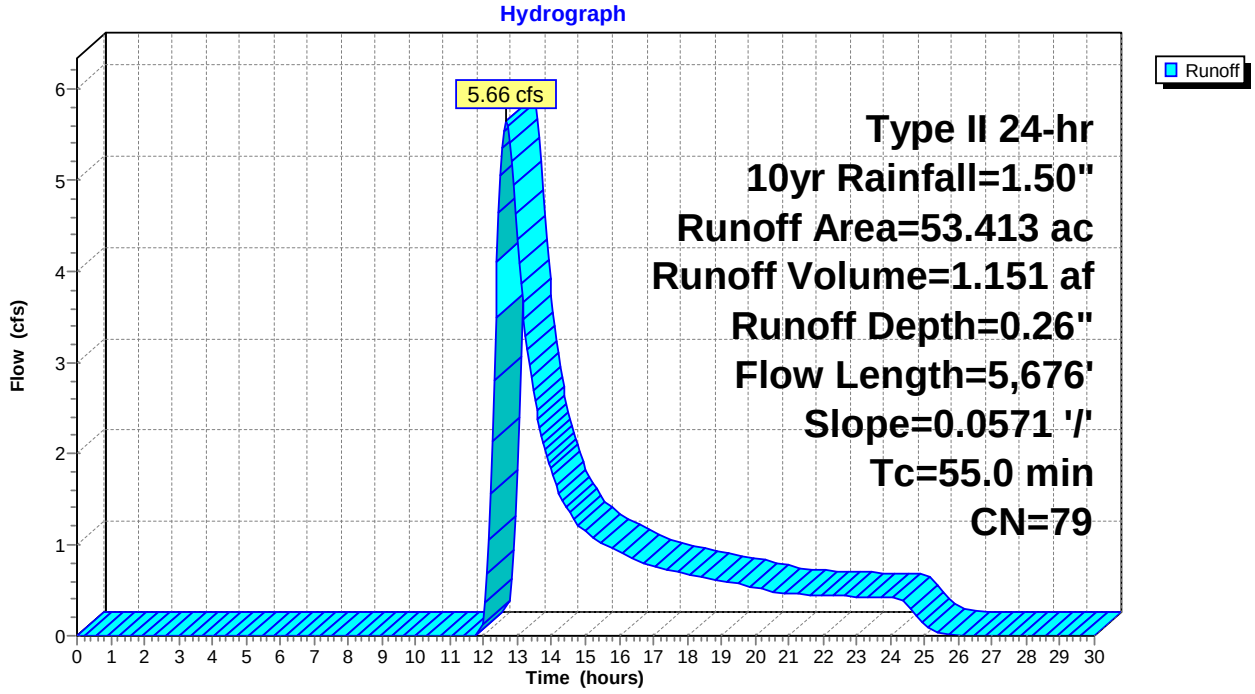
Runoff = 5.66 cfs @ 12.67 hrs, Volume= 1.151 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	53.413	79	
	53.413		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
55.0	5,676	0.0571	1.72		**Lag/CN Method,**

Subcatchment 59S: DC-040



Summary for Subcatchment 60S: DC-041

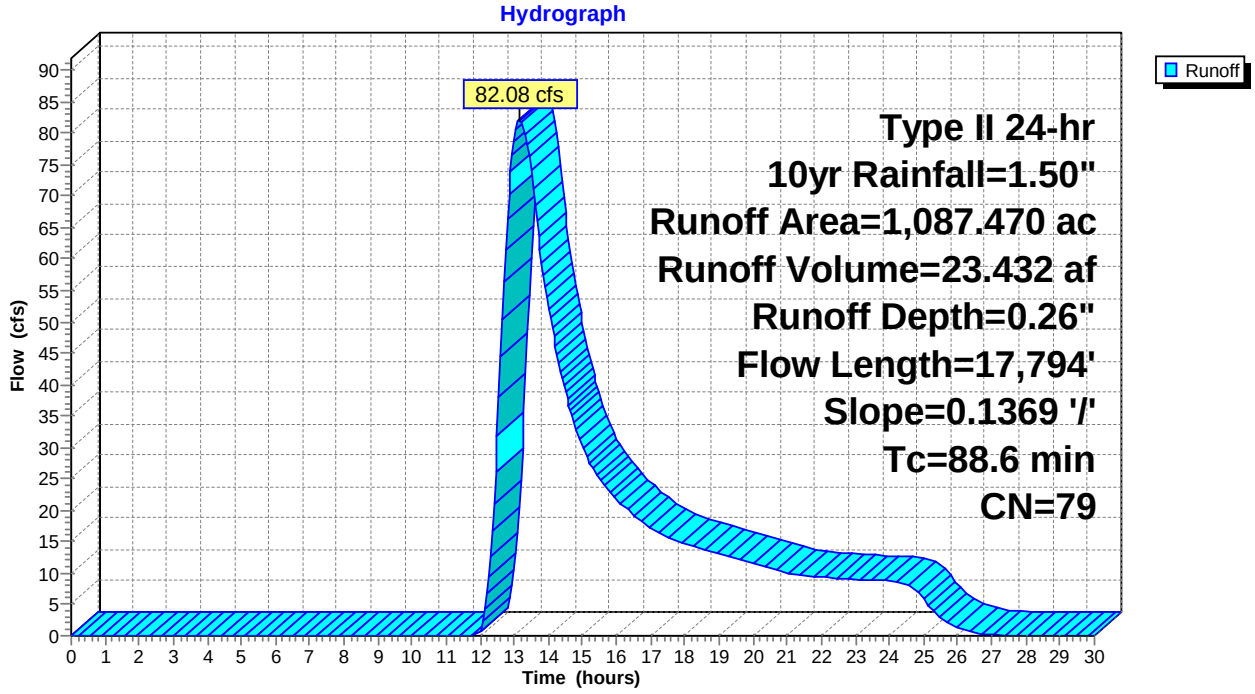
Runoff = 82.08 cfs @ 13.16 hrs, Volume= 23.432 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1,087.470	79	
	1,087.470		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
88.6	17,794	0.1369	3.35		**Lag/CN Method,**

Subcatchment 60S: DC-041



Summary for Subcatchment 61S: DC-042

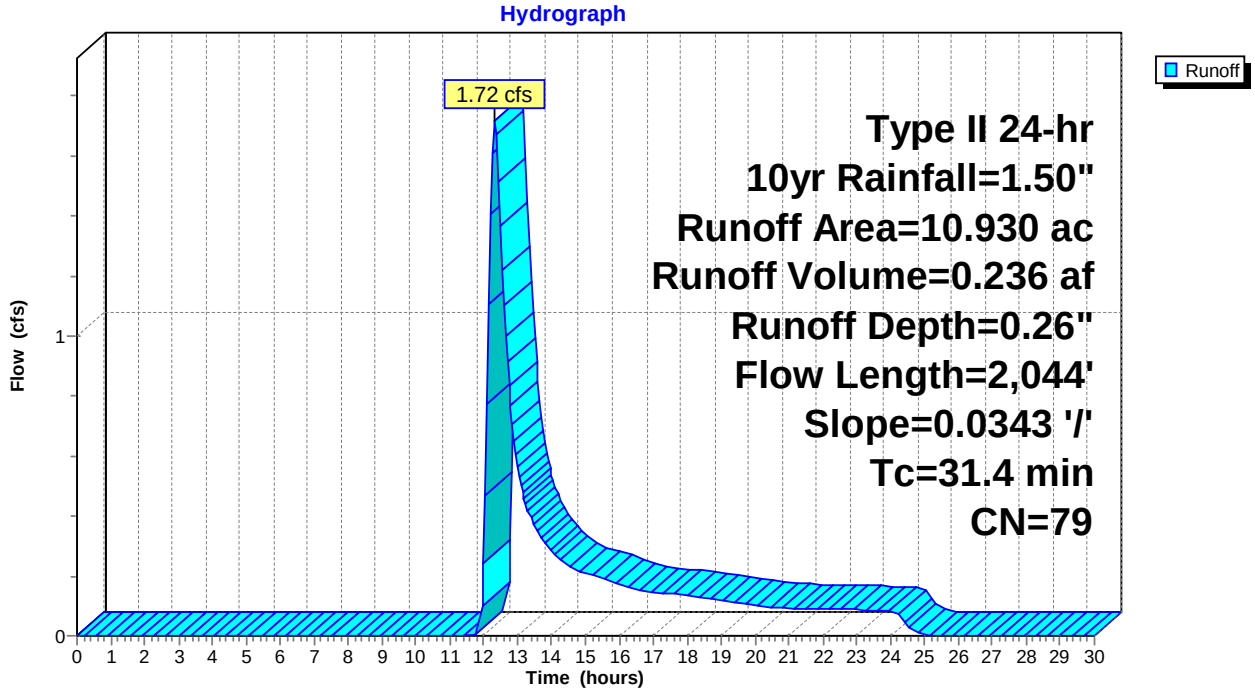
Runoff = 1.72 cfs @ 12.32 hrs, Volume= 0.236 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	10.930	79	
	10.930		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.4	2,044	0.0343	1.09		**Lag/CN Method,**

Subcatchment 61S: DC-042



Summary for Subcatchment 62S: DC-043

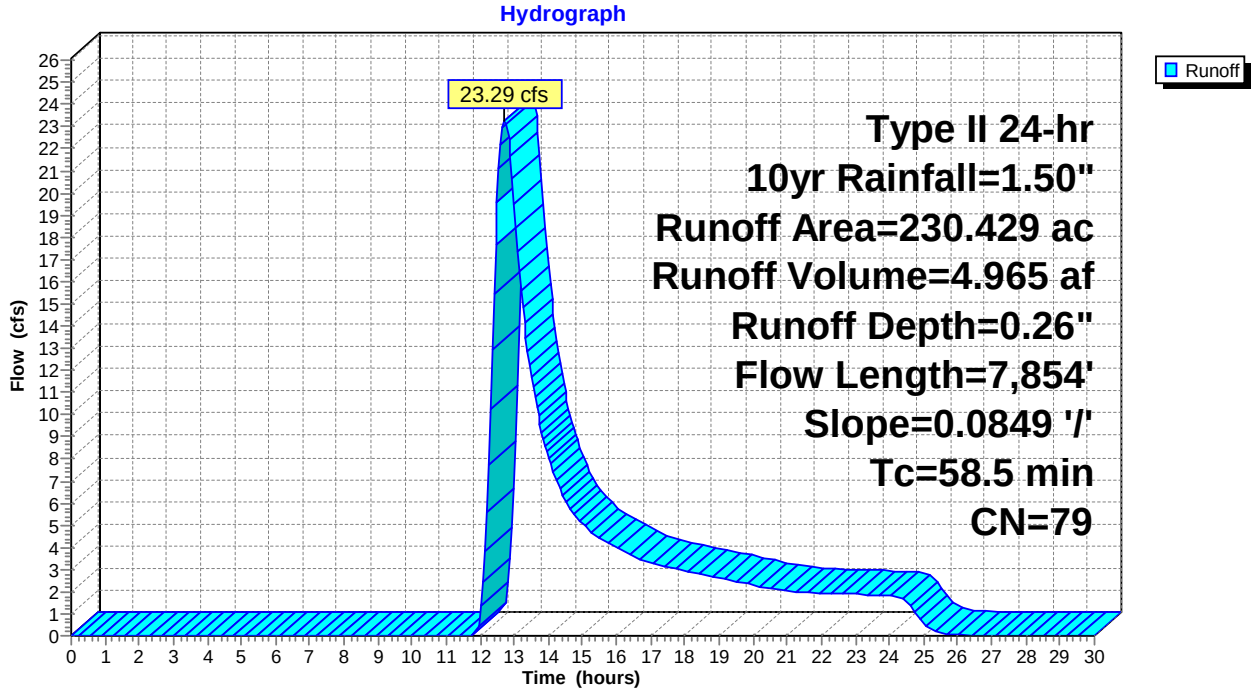
Runoff = 23.29 cfs @ 12.72 hrs, Volume= 4.965 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	230.429	79	
	230.429		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
58.5	7,854	0.0849	2.24		**Lag/CN Method,**

Subcatchment 62S: DC-043



Summary for Subcatchment 63S: DC-044

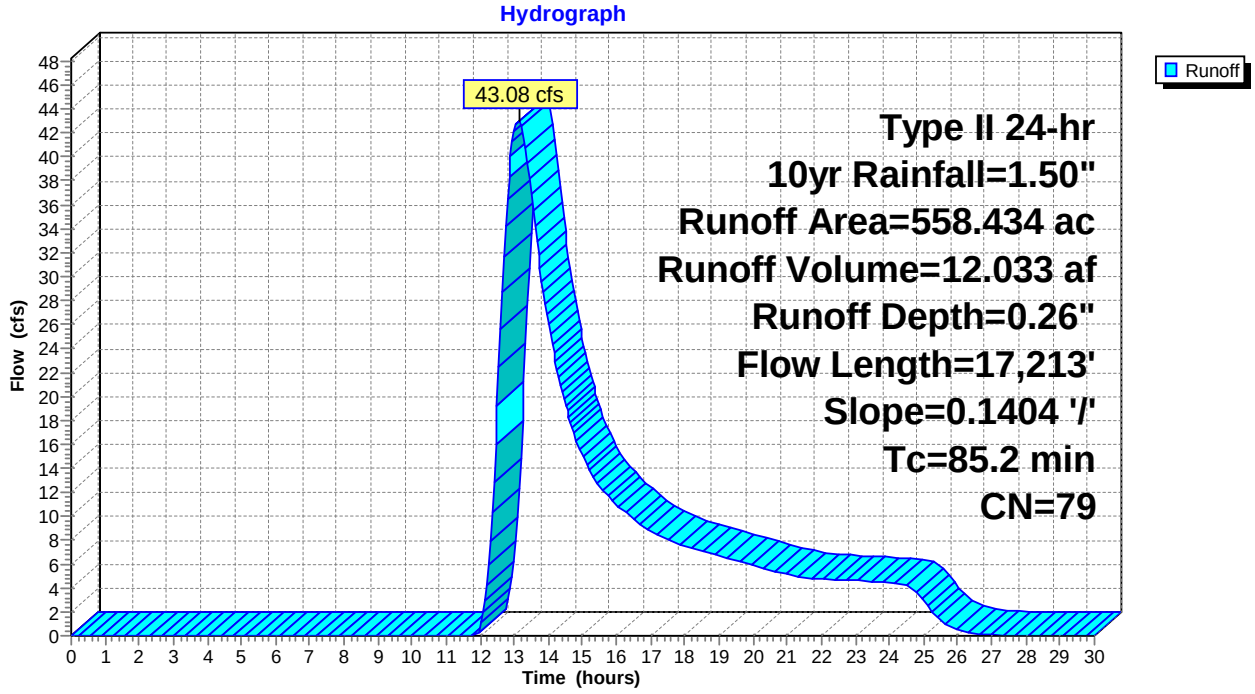
Runoff = 43.08 cfs @ 13.14 hrs, Volume= 12.033 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	558.434	79	
	558.434		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
85.2	17,213	0.1404	3.37		**Lag/CN Method,**

Subcatchment 63S: DC-044



Summary for Subcatchment 64S: DC-045

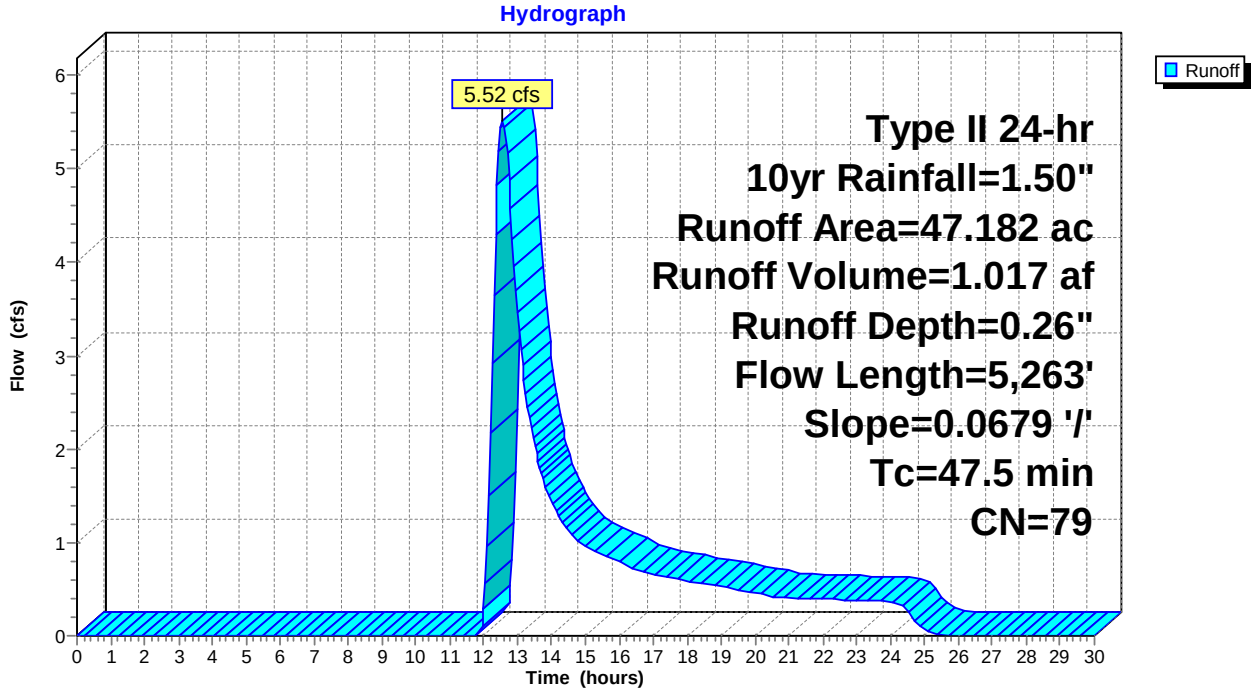
Runoff = 5.52 cfs @ 12.57 hrs, Volume= 1.017 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	47.182	79	
	47.182		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
47.5	5,263	0.0679	1.85		**Lag/CN Method,**

Subcatchment 64S: DC-045



Summary for Subcatchment 65S: DC-046

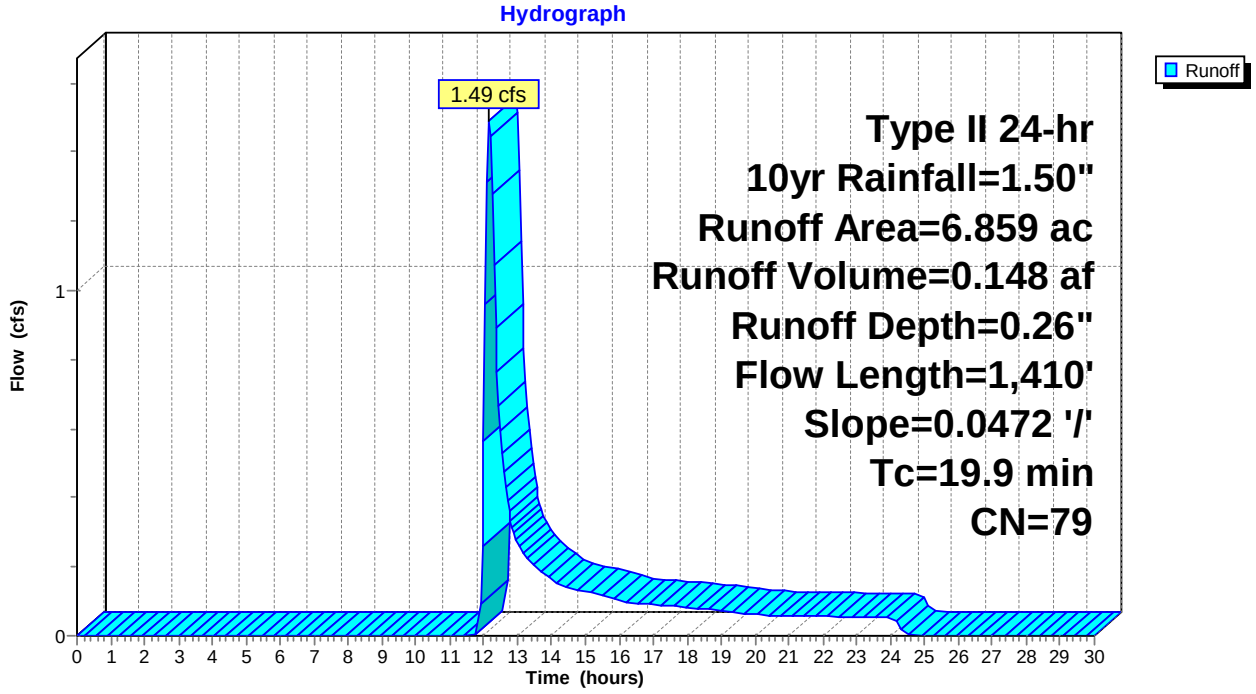
Runoff = 1.49 cfs @ 12.17 hrs, Volume= 0.148 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	6.859	79	
	6.859		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.9	1,410	0.0472	1.18		**Lag/CN Method,**

Subcatchment 65S: DC-046



Summary for Subcatchment 66S: DC-047

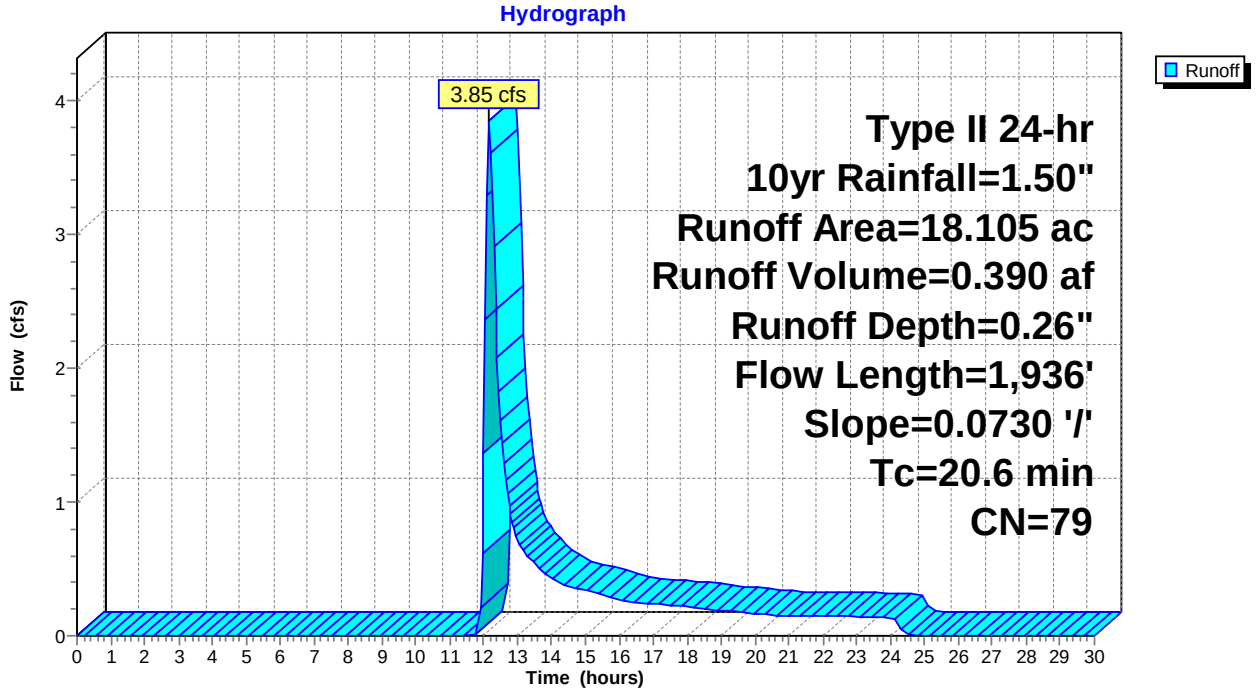
Runoff = 3.85 cfs @ 12.17 hrs, Volume= 0.390 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	18.105	79	
	18.105		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.6	1,936	0.0730	1.57		**Lag/CN Method,**

Subcatchment 66S: DC-047



Summary for Subcatchment 67S: DC-049

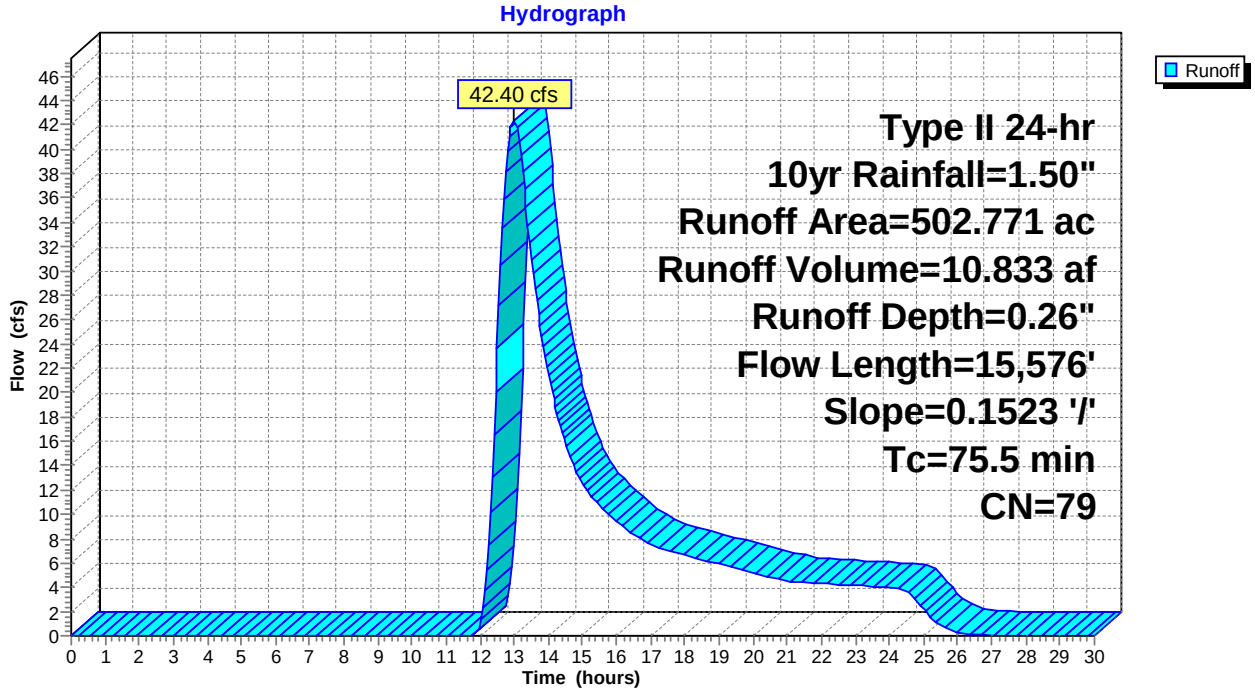
Runoff = 42.40 cfs @ 12.99 hrs, Volume= 10.833 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	502.771	79	
	502.771		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
75.5	15,576	0.1523	3.44		**Lag/CN Method,**

Subcatchment 67S: DC-049



Summary for Subcatchment 68S: DC-050

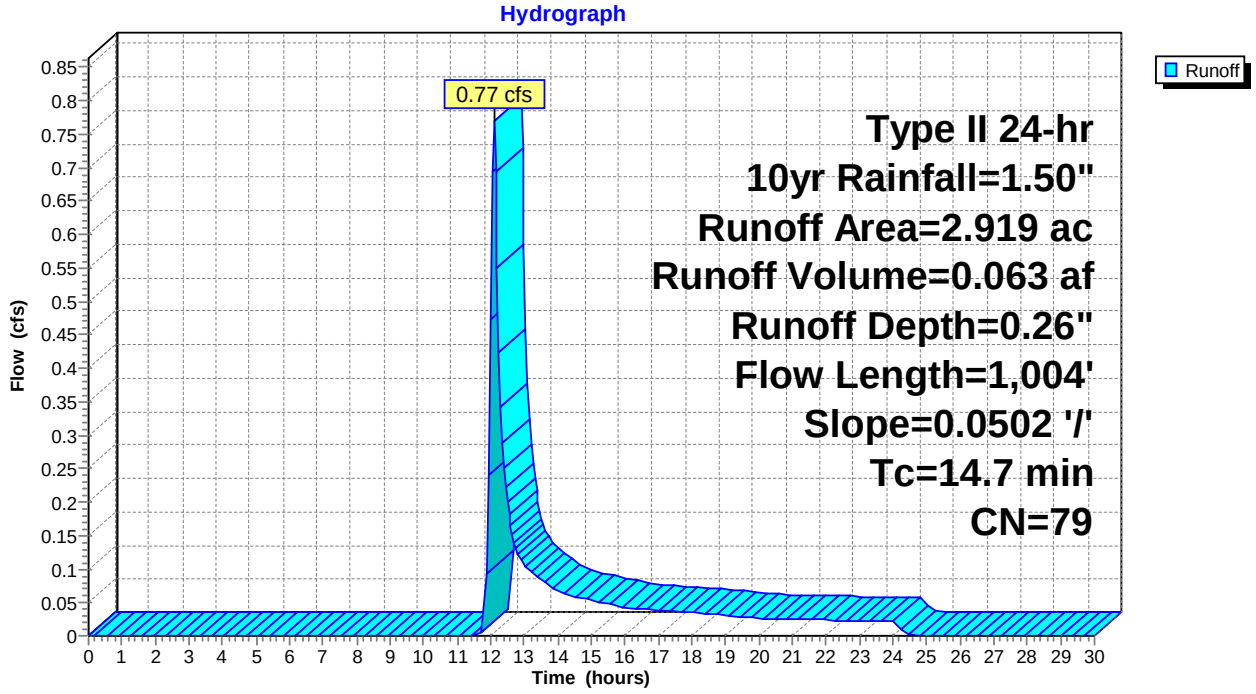
Runoff = 0.77 cfs @ 12.10 hrs, Volume= 0.063 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	2.919	79	
	2.919		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.7	1,004	0.0502	1.14		**Lag/CN Method,**

Subcatchment 68S: DC-050



Summary for Subcatchment 69S: DC-051

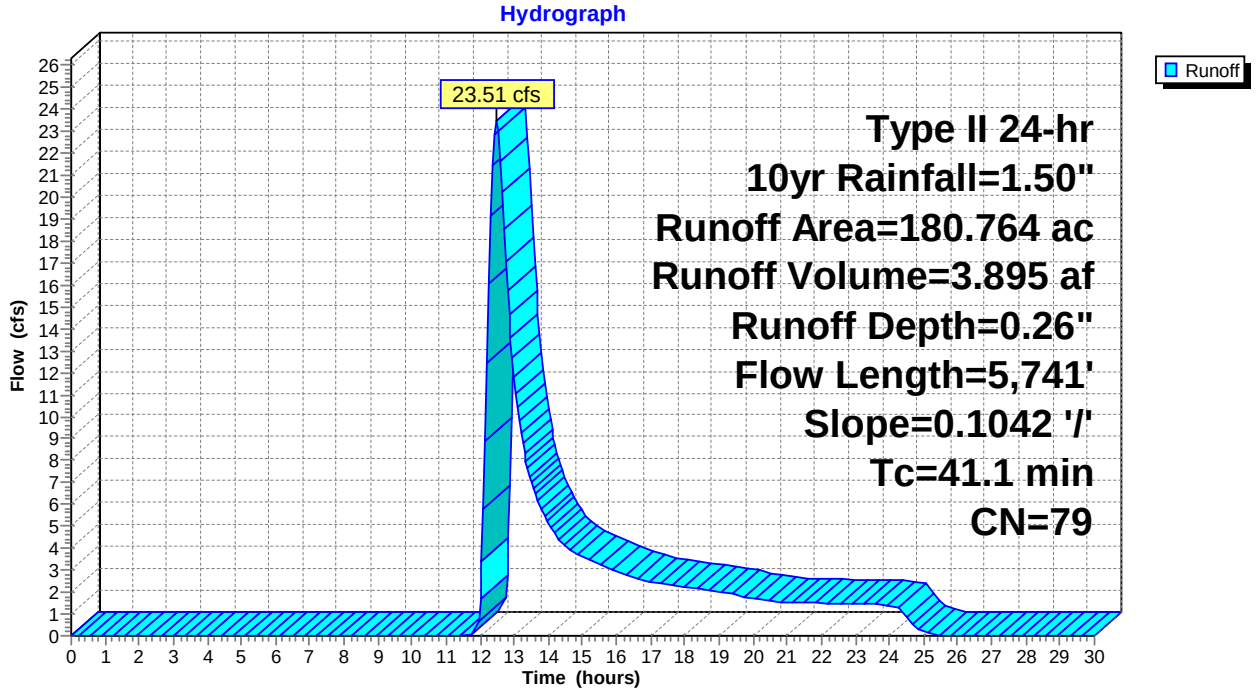
Runoff = 23.51 cfs @ 12.47 hrs, Volume= 3.895 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	180.764	79	
	180.764		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
41.1	5,741	0.1042	2.33		**Lag/CN Method,**

Subcatchment 69S: DC-051



Summary for Subcatchment 70S: DC-053

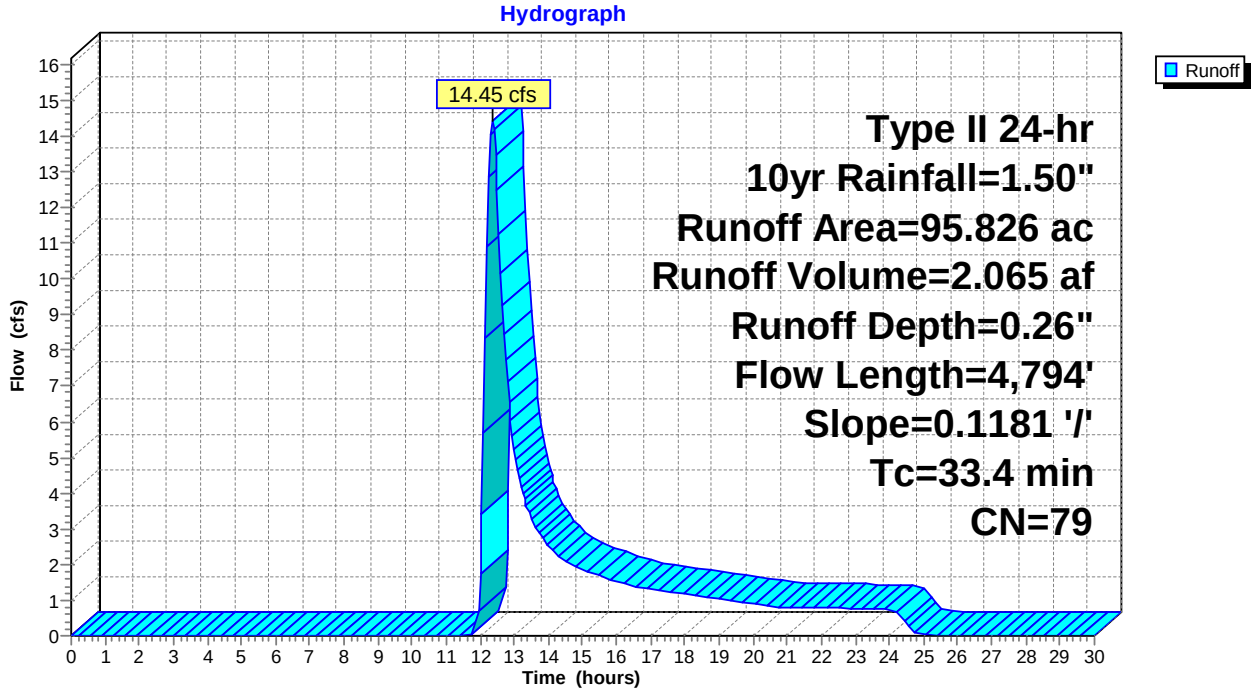
Runoff = 14.45 cfs @ 12.36 hrs, Volume= 2.065 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	95.826	79	
	95.826		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
33.4	4,794	0.1181	2.39		**Lag/CN Method,**

Subcatchment 70S: DC-053



Summary for Subcatchment 71S: DC-054

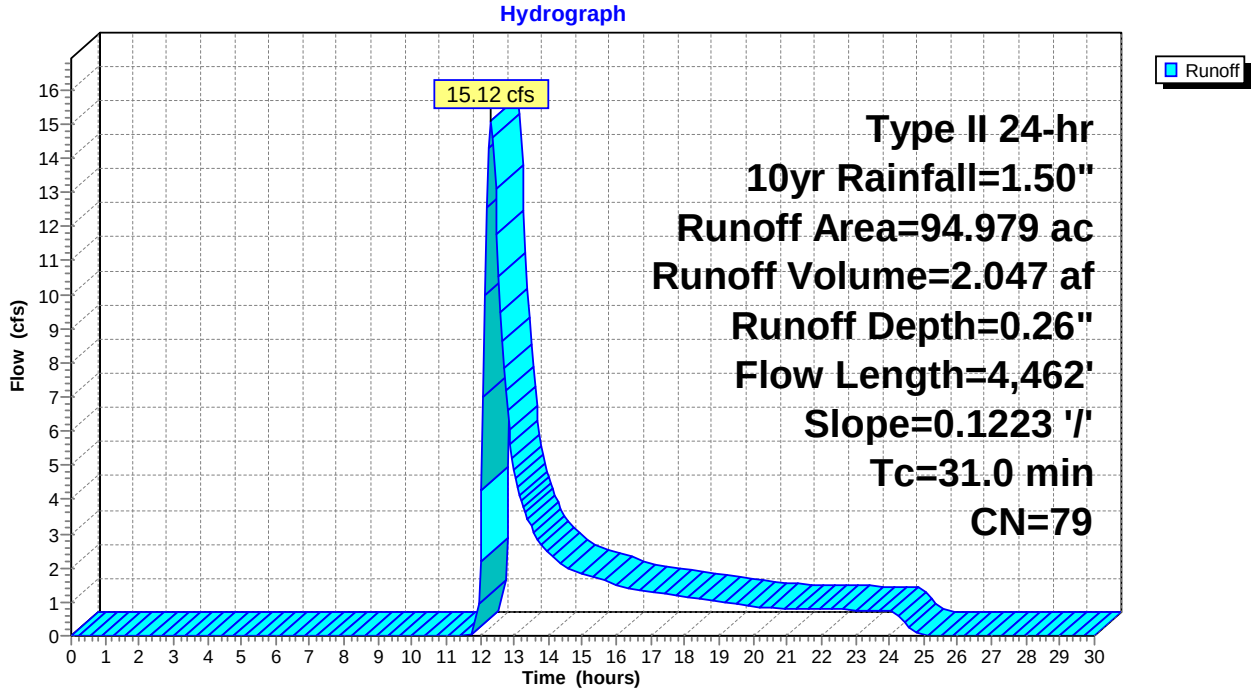
Runoff = 15.12 cfs @ 12.32 hrs, Volume= 2.047 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	94.979	79	
	94.979		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.0	4,462	0.1223	2.40		**Lag/CN Method,**

Subcatchment 71S: DC-054



Summary for Subcatchment 72S: DC-055

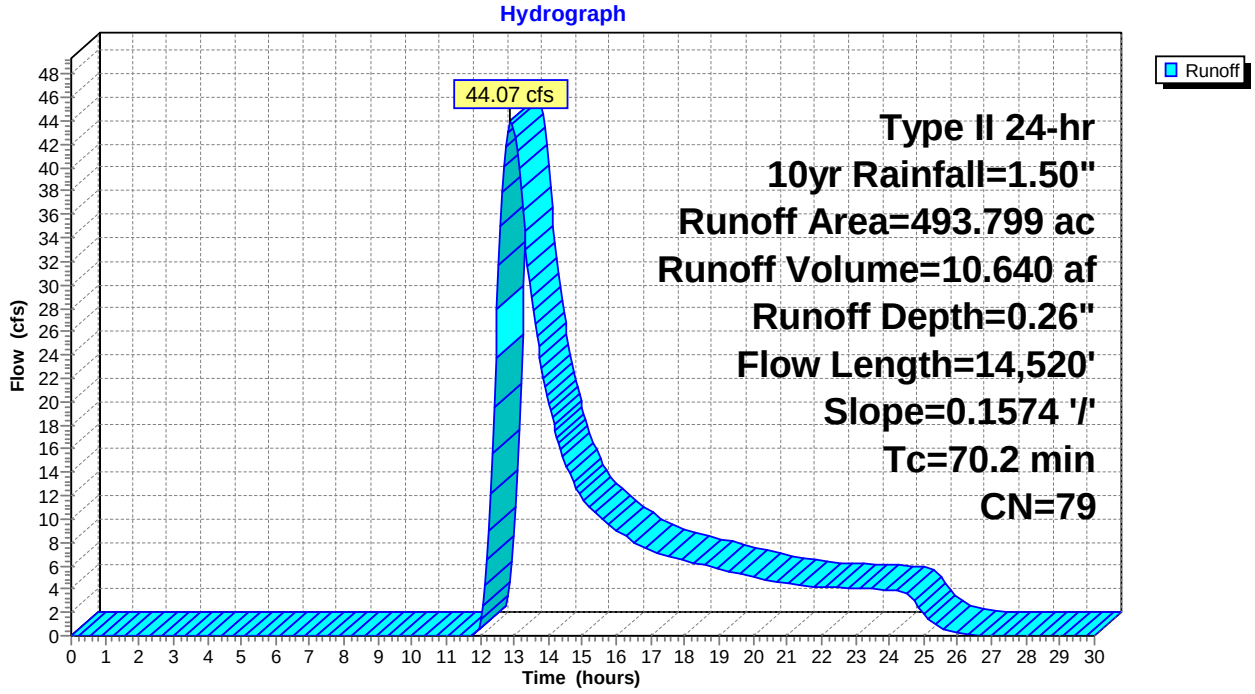
Runoff = 44.07 cfs @ 12.90 hrs, Volume= 10.640 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	493.799	79	
	493.799		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
70.2	14,520	0.1574	3.45		**Lag/CN Method,**

Subcatchment 72S: DC-055



Summary for Subcatchment 73S: DC-056

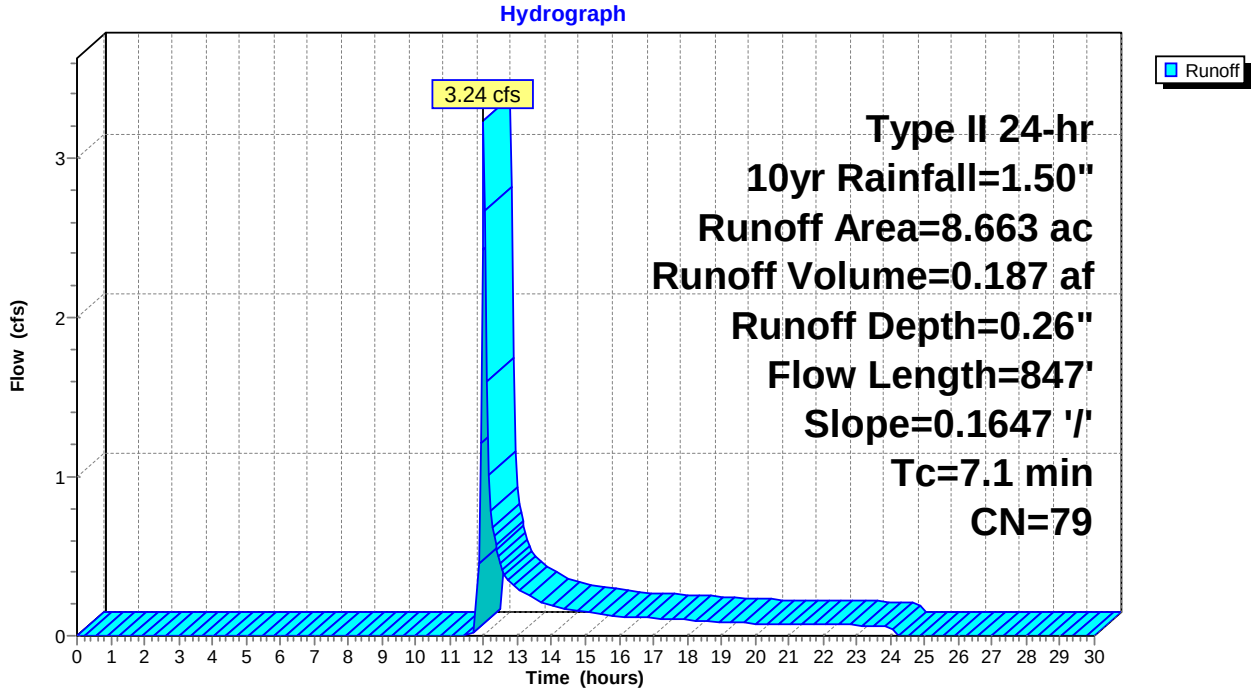
Runoff = 3.24 cfs @ 12.00 hrs, Volume= 0.187 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	8.663	79	
	8.663		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.1	847	0.1647	2.00		**Lag/CN Method,**

Subcatchment 73S: DC-056



Summary for Subcatchment 74S: DC-057

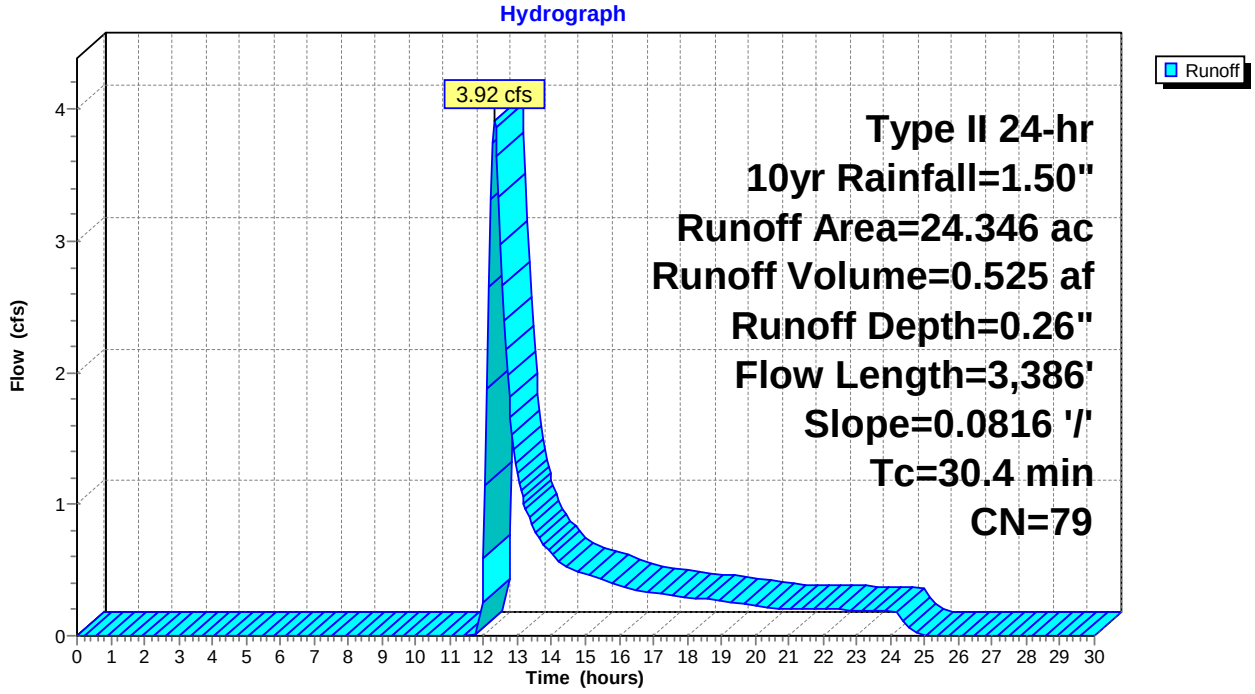
Runoff = 3.92 cfs @ 12.31 hrs, Volume= 0.525 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	24.346	79	
	24.346		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.4	3,386	0.0816	1.85		**Lag/CN Method,**

Subcatchment 74S: DC-057



Summary for Subcatchment 75S: DC-058

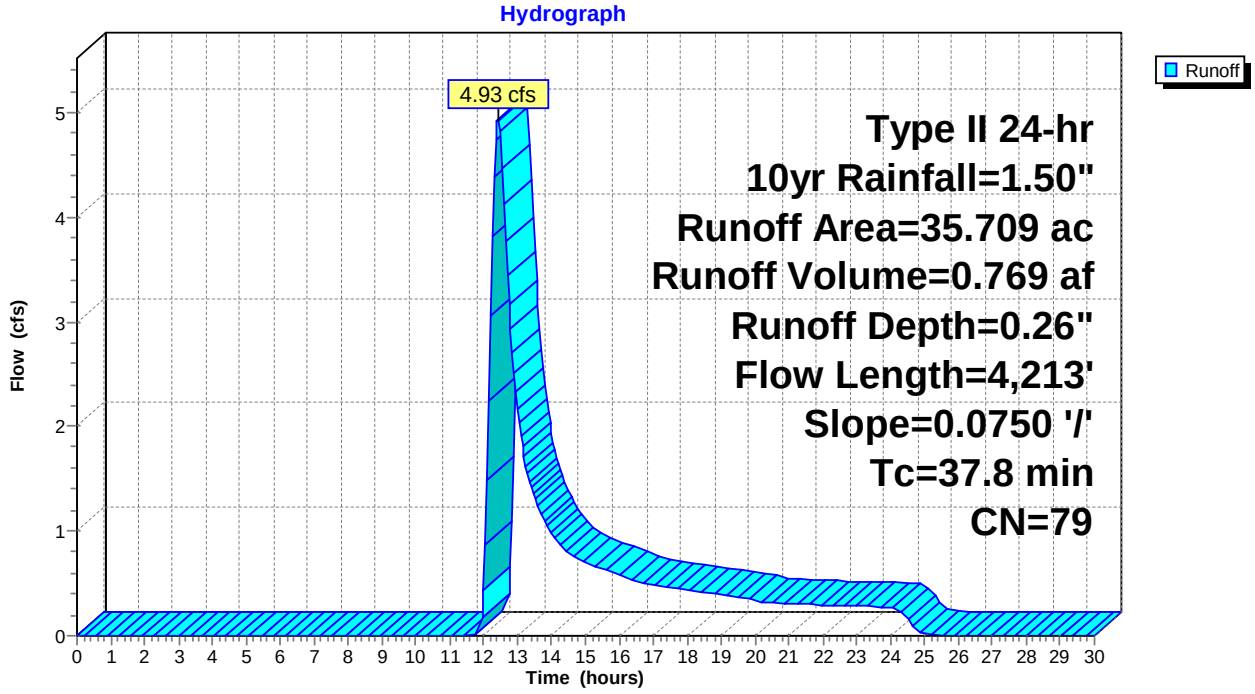
Runoff = 4.93 cfs @ 12.42 hrs, Volume= 0.769 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	35.709	79	
	35.709		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.8	4,213	0.0750	1.86		**Lag/CN Method,**

Subcatchment 75S: DC-058



Summary for Subcatchment 76S: DC-059

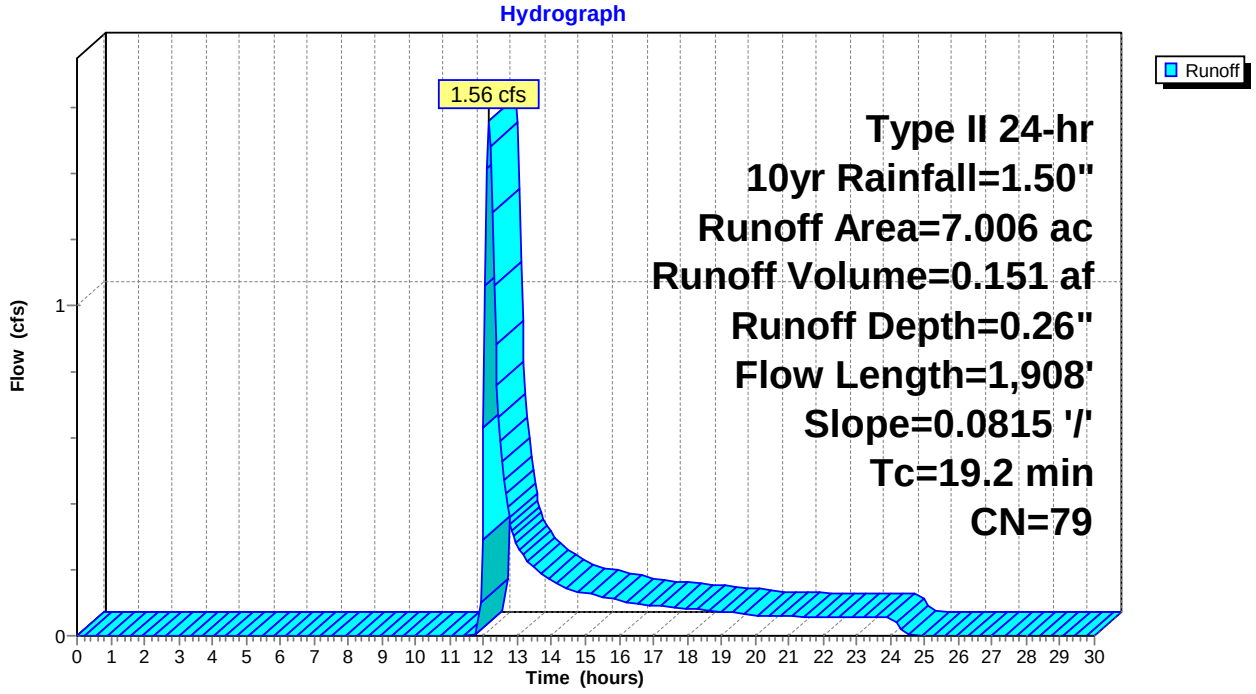
Runoff = 1.56 cfs @ 12.16 hrs, Volume= 0.151 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	7.006	79	
	7.006		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.2	1,908	0.0815	1.65		**Lag/CN Method,**

Subcatchment 76S: DC-059



Summary for Subcatchment 77S: DC-060

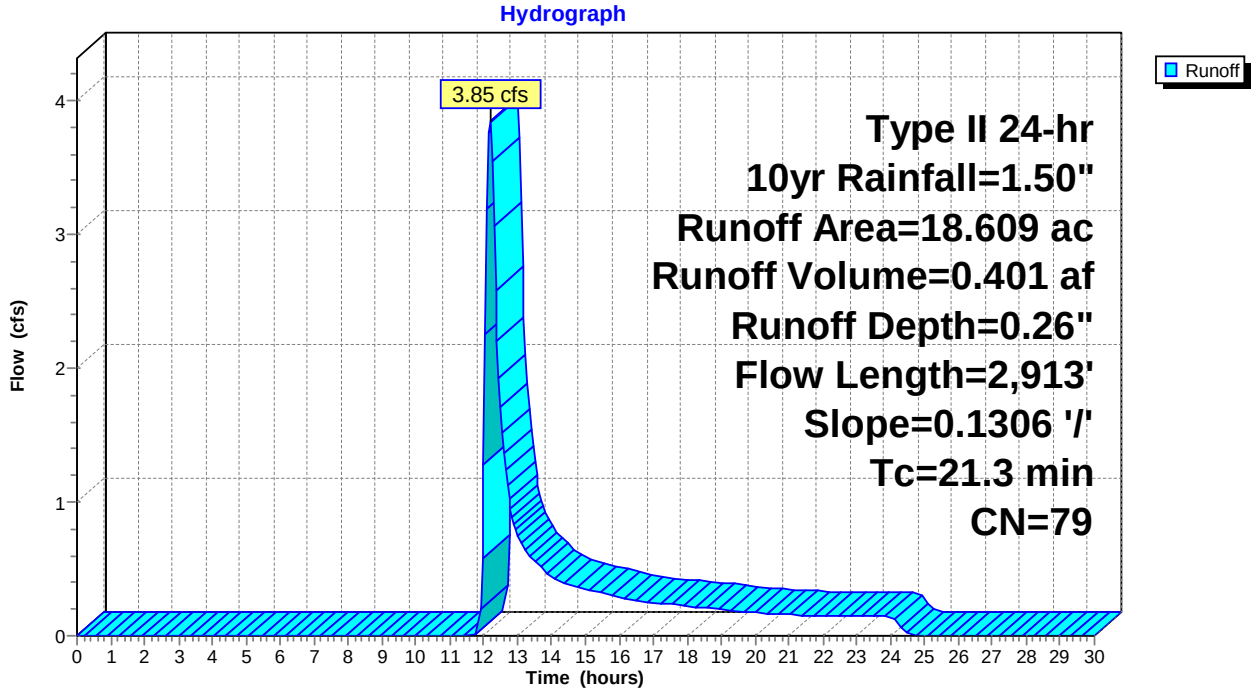
Runoff = 3.85 cfs @ 12.19 hrs, Volume= 0.401 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	18.609	79	
	18.609		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.3	2,913	0.1306	2.28		**Lag/CN Method,**

Subcatchment 77S: DC-060



Summary for Subcatchment 78S: DC-062

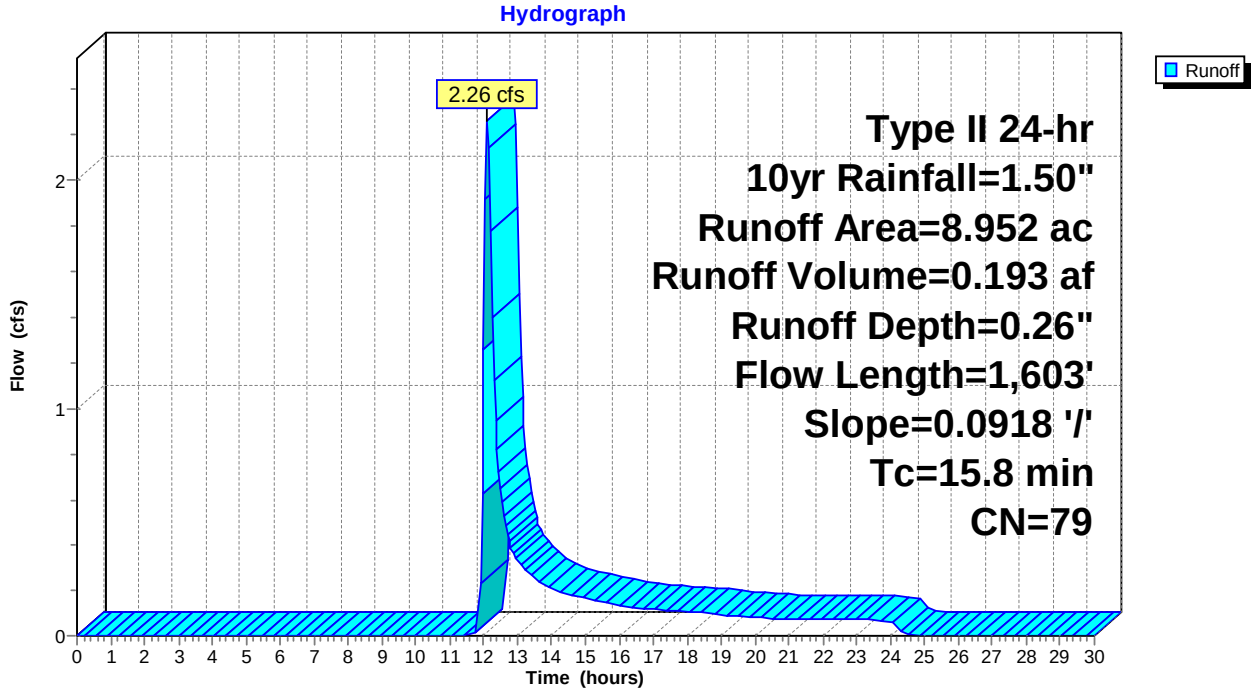
Runoff = 2.26 cfs @ 12.11 hrs, Volume= 0.193 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	8.952	79	
	8.952		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.8	1,603	0.0918	1.69		**Lag/CN Method,**

Subcatchment 78S: DC-062



Summary for Subcatchment 79S: DC-063

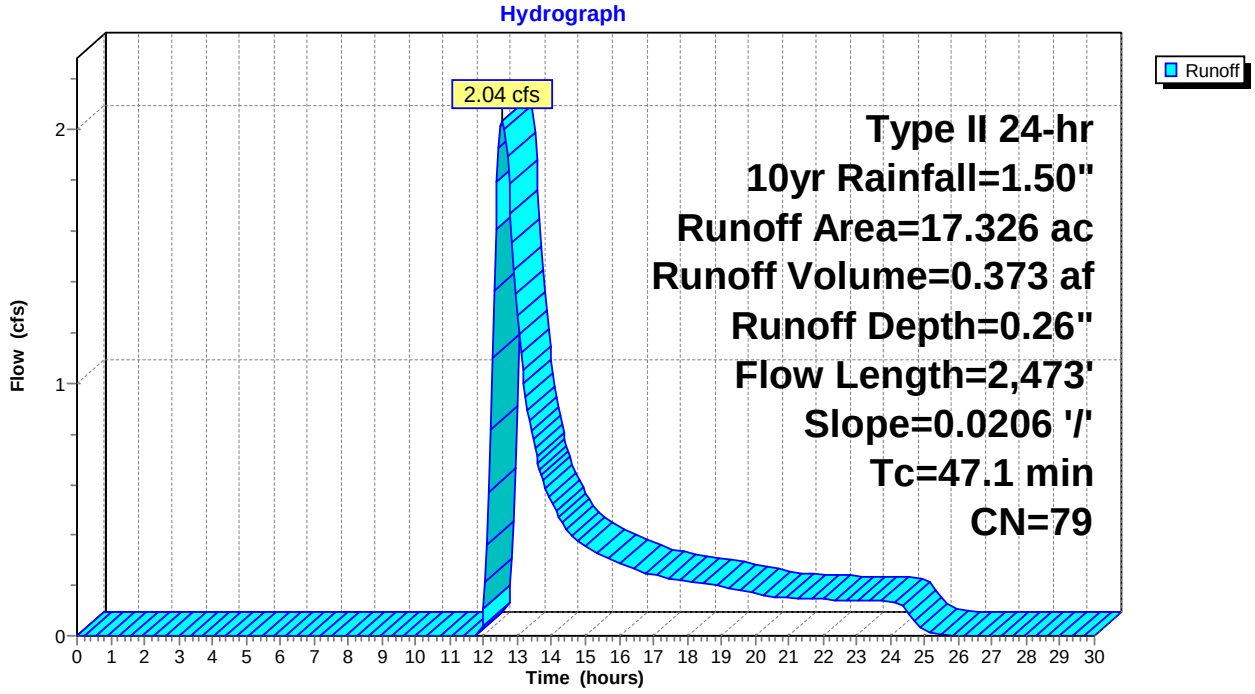
Runoff = 2.04 cfs @ 12.56 hrs, Volume= 0.373 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	17.326	79	
	17.326		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
47.1	2,473	0.0206	0.87		**Lag/CN Method,**

Subcatchment 79S: DC-063



Summary for Subcatchment 80S: DC-064

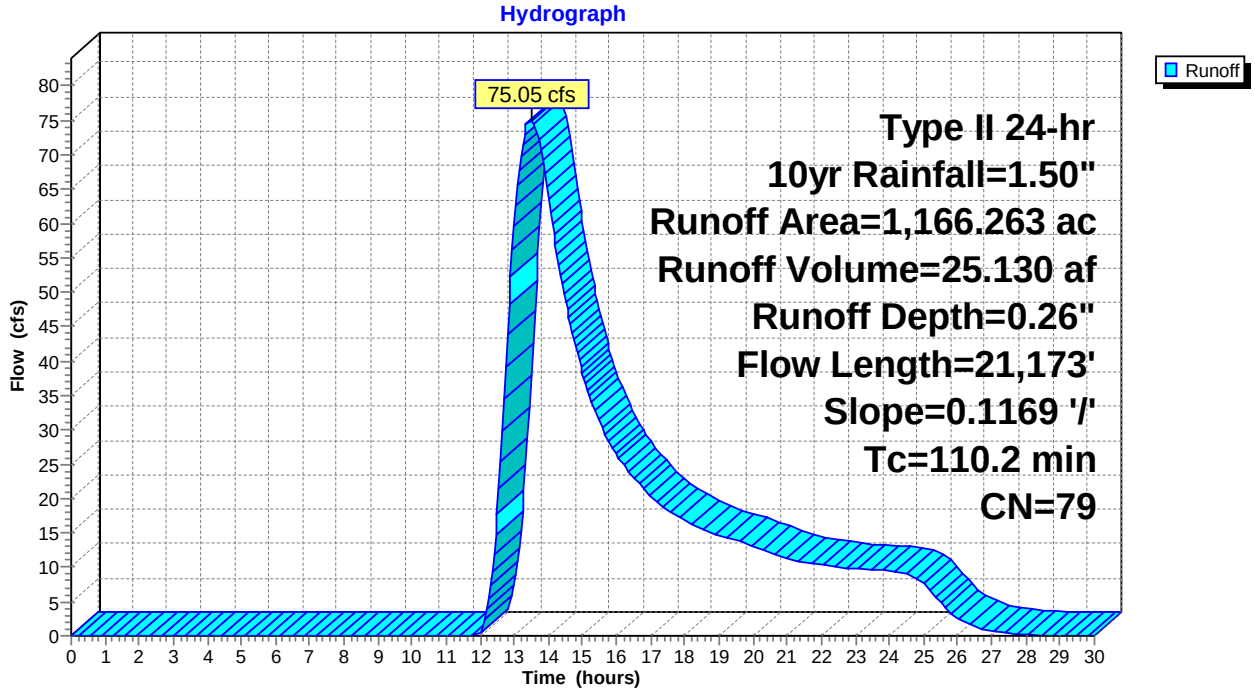
Runoff = 75.05 cfs @ 13.49 hrs, Volume= 25.130 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1,166.263	79	
	1,166.263		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
110.2	21,173	0.1169	3.20		**Lag/CN Method,**

Subcatchment 80S: DC-064



Summary for Subcatchment 81S: DC-065

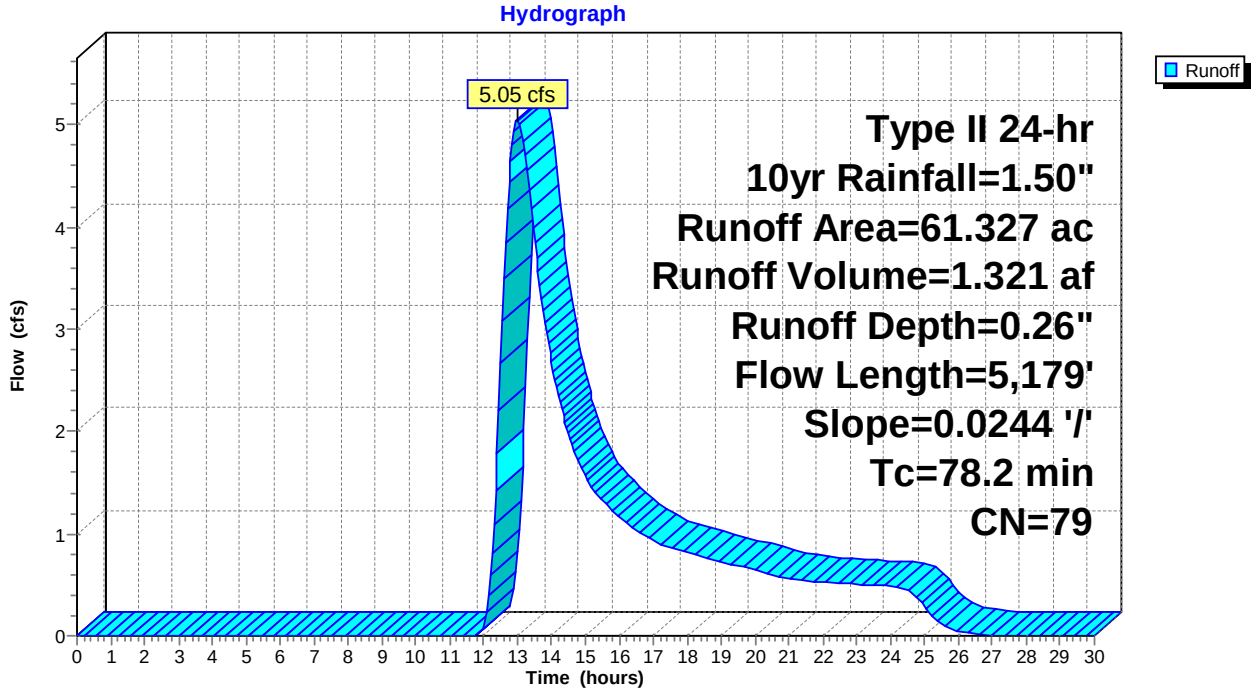
Runoff = 5.05 cfs @ 13.00 hrs, Volume= 1.321 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	61.327	79	
	61.327		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
78.2	5,179	0.0244	1.10		**Lag/CN Method,**

Subcatchment 81S: DC-065



Summary for Subcatchment 82S: DC-066

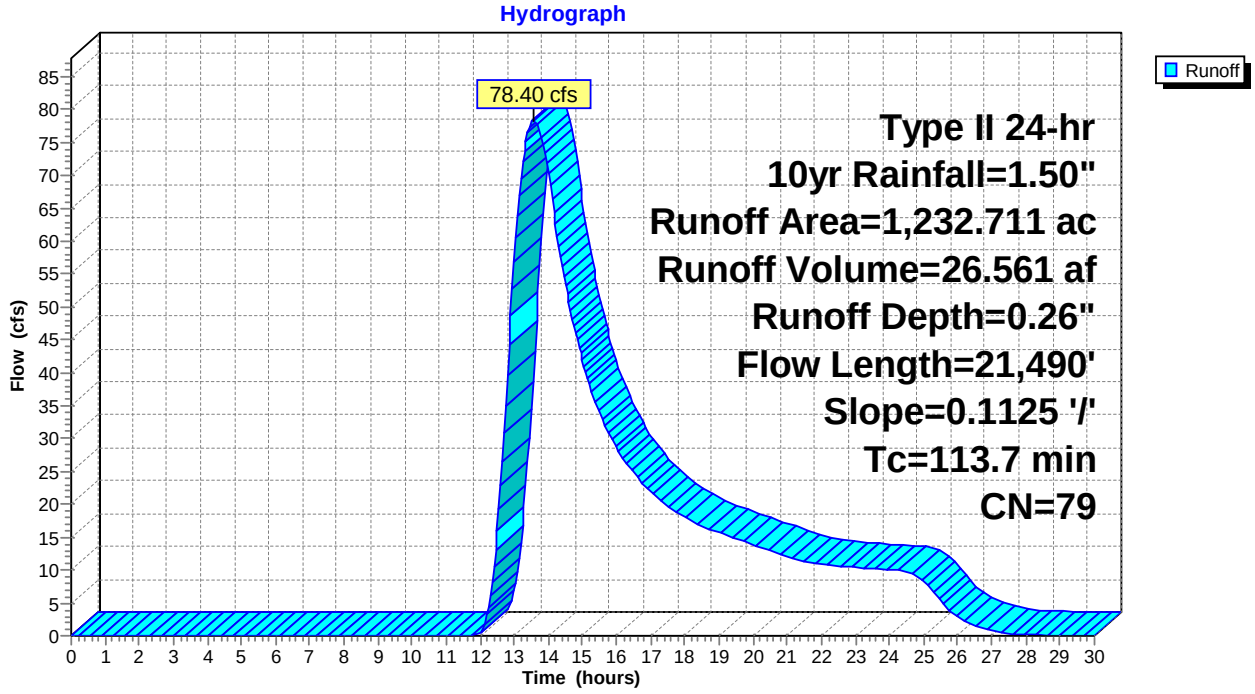
Runoff = 78.40 cfs @ 13.55 hrs, Volume= 26.561 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1,232.711	79	
	1,232.711		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
113.7	21,490	0.1125	3.15		**Lag/CN Method,**

Subcatchment 82S: DC-066



Summary for Subcatchment 83S: DC-067

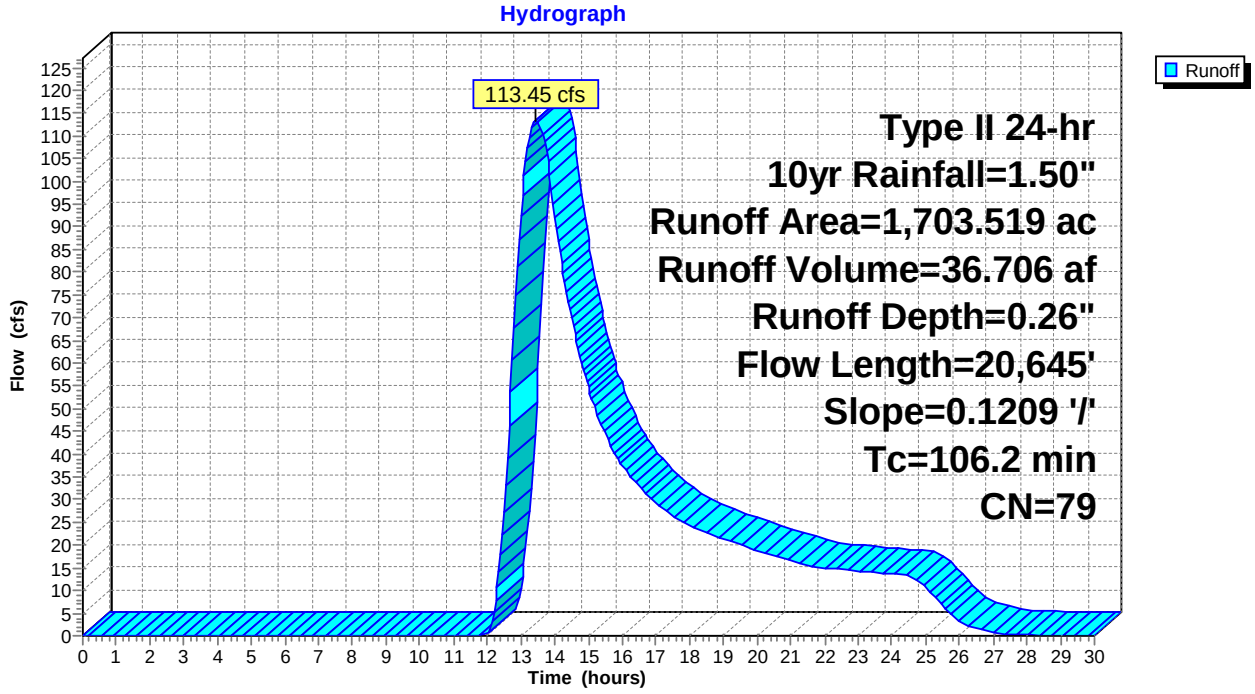
Runoff = 113.45 cfs @ 13.44 hrs, Volume= 36.706 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1,703.519	79	
	1,703.519		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
106.2	20,645	0.1209	3.24		**Lag/CN Method,**

Subcatchment 83S: DC-067



Summary for Subcatchment 84S: DC-069

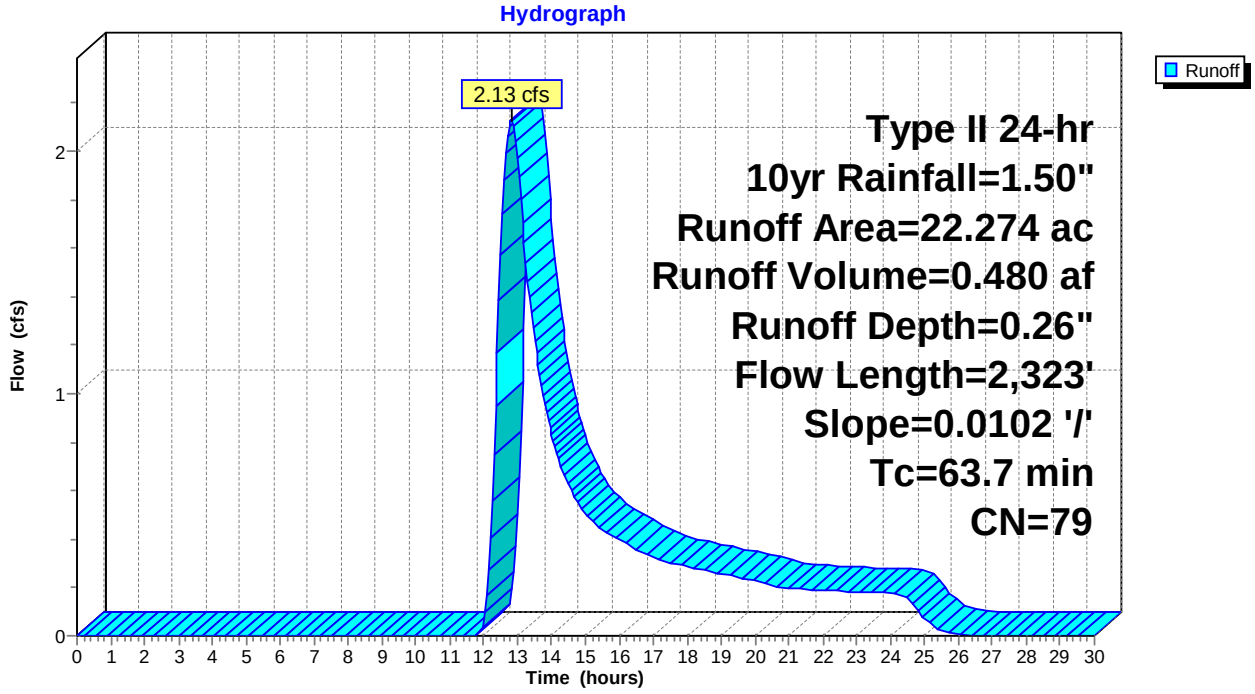
Runoff = 2.13 cfs @ 12.81 hrs, Volume= 0.480 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	22.274	79	
	22.274		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
63.7	2,323	0.0102	0.61		**Lag/CN Method,**

Subcatchment 84S: DC-069



Summary for Subcatchment 85S: DC-071

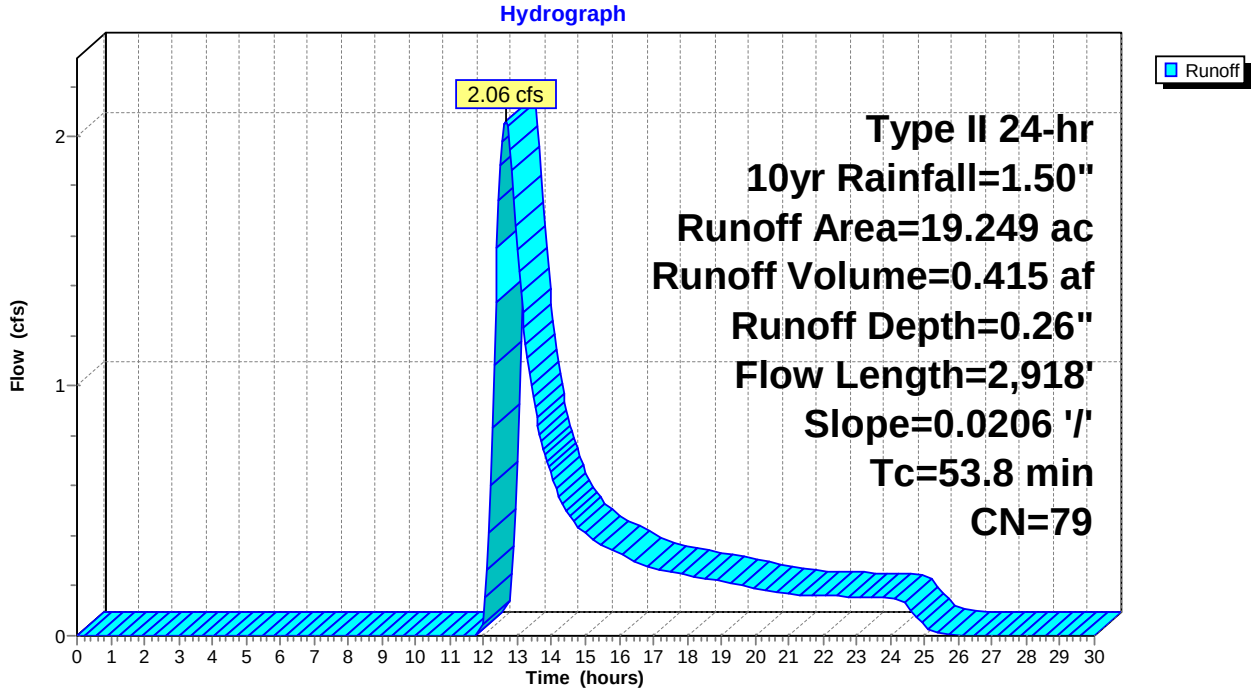
Runoff = 2.06 cfs @ 12.65 hrs, Volume= 0.415 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	19.249	79	
	19.249		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.8	2,918	0.0206	0.90		**Lag/CN Method,**

Subcatchment 85S: DC-071



Summary for Subcatchment 86S: DC-072

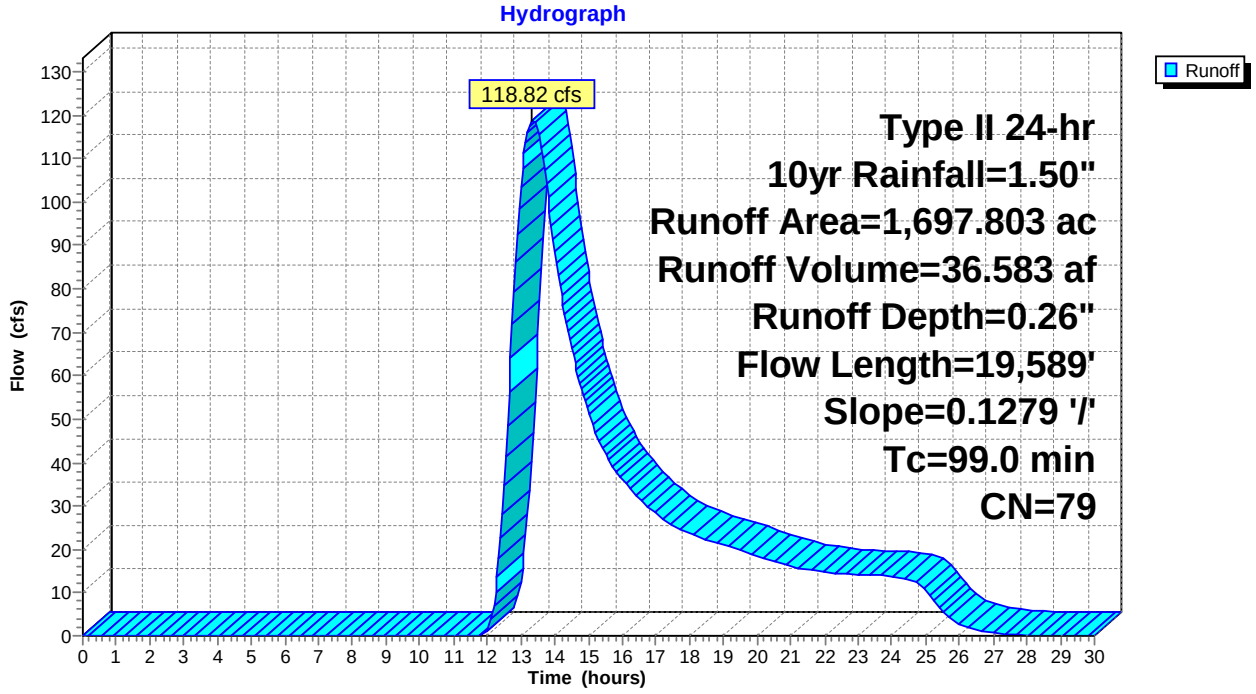
Runoff = 118.82 cfs @ 13.33 hrs, Volume= 36.583 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1,697.803	79	
	1,697.803		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
99.0	19,589	0.1279	3.30		**Lag/CN Method,**

Subcatchment 86S: DC-072



Summary for Subcatchment 87S: DC-073

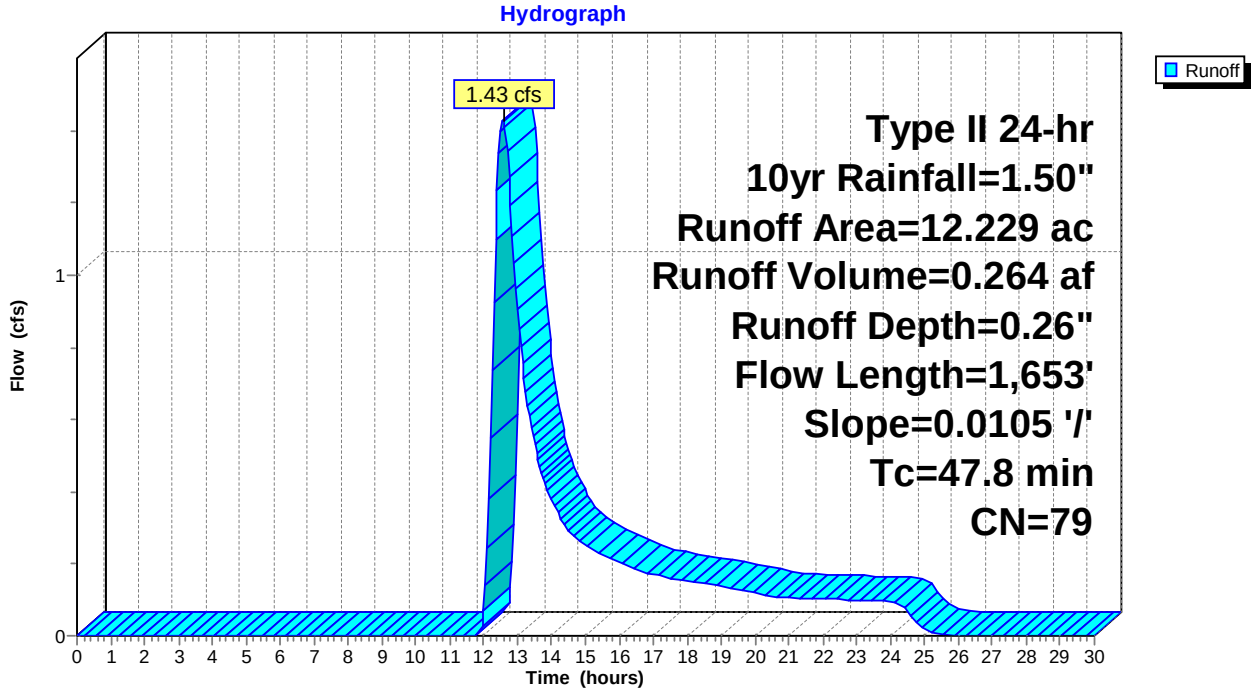
Runoff = 1.43 cfs @ 12.58 hrs, Volume= 0.264 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	12.229	79	
	12.229		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
47.8	1,653	0.0105	0.58		**Lag/CN Method,**

Subcatchment 87S: DC-073



Summary for Subcatchment 88S: DC-074

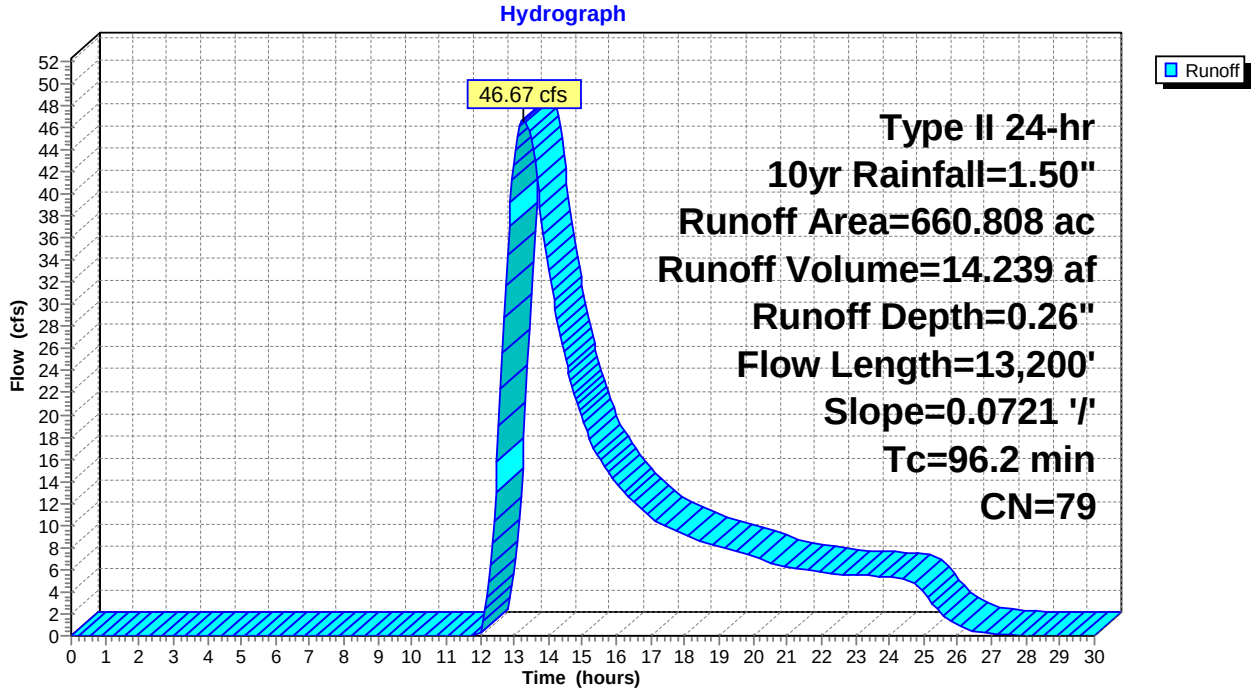
Runoff = 46.67 cfs @ 13.27 hrs, Volume= 14.239 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	660.808	79	
	660.808		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
96.2	13,200	0.0721	2.29		**Lag/CN Method,**

Subcatchment 88S: DC-074



Summary for Subcatchment 89S: DC-075

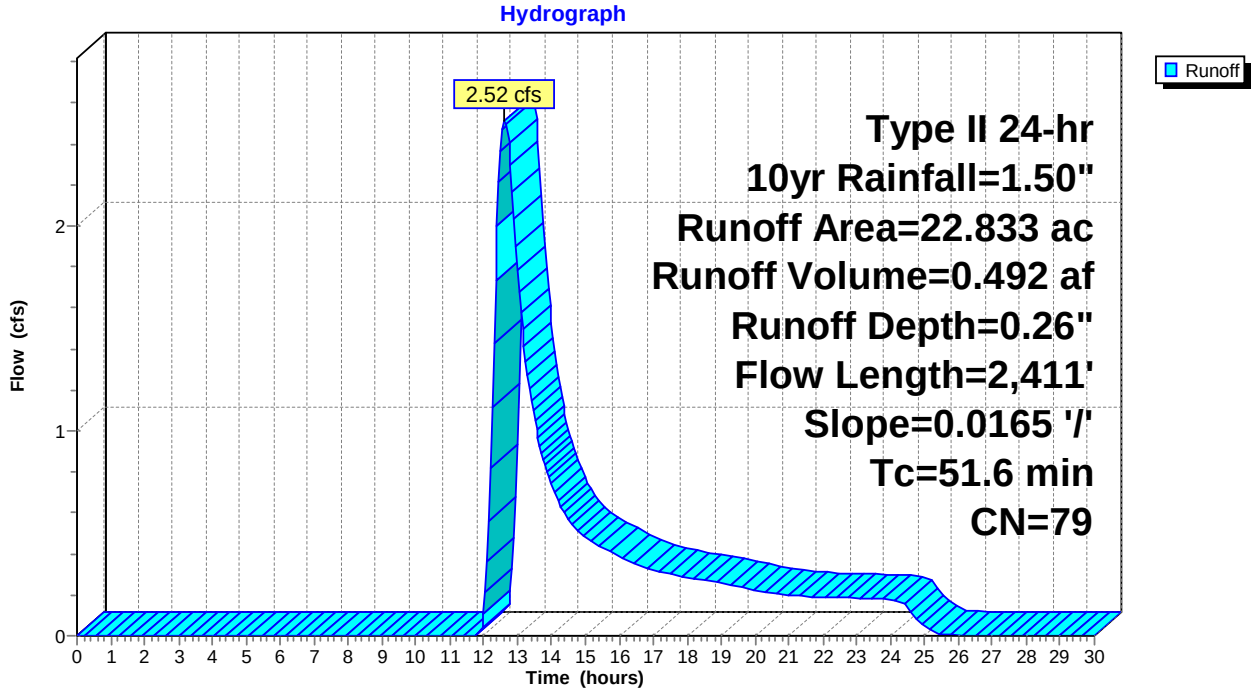
Runoff = 2.52 cfs @ 12.63 hrs, Volume= 0.492 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	22.833	79	
	22.833		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
51.6	2,411	0.0165	0.78		**Lag/CN Method,**

Subcatchment 89S: DC-075



Summary for Subcatchment 90S: DC-076

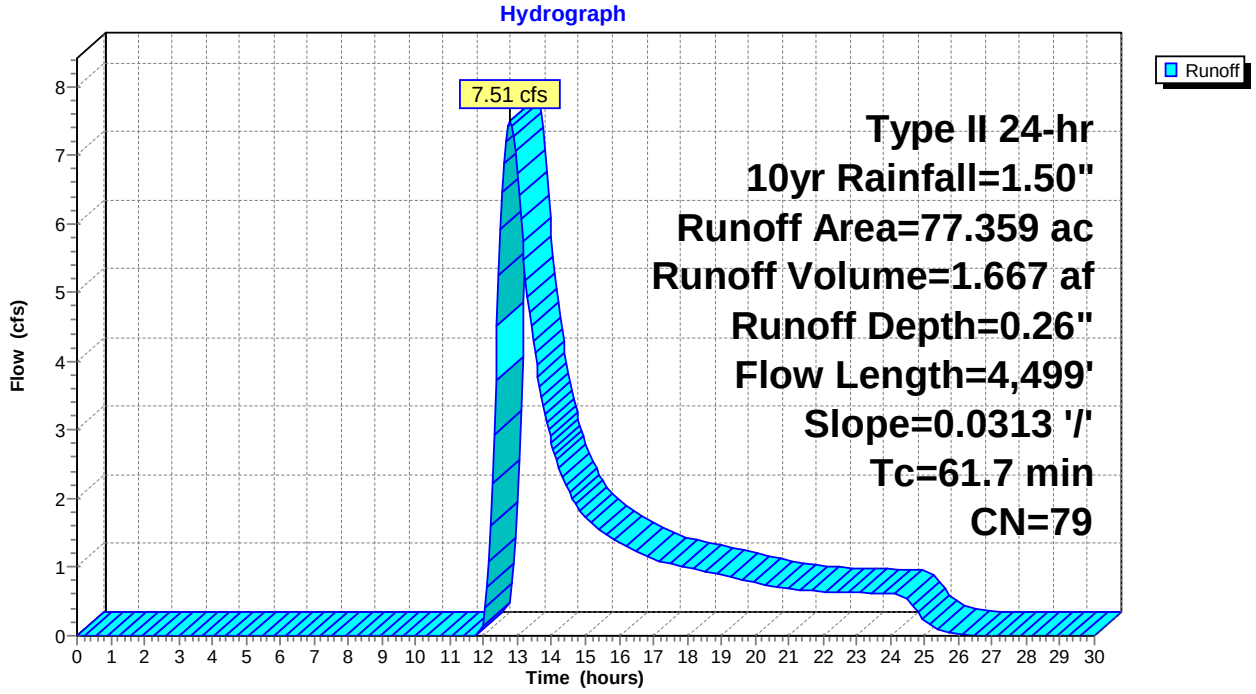
Runoff = 7.51 cfs @ 12.78 hrs, Volume= 1.667 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	77.359	79	
	77.359		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
61.7	4,499	0.0313	1.22		**Lag/CN Method,**

Subcatchment 90S: DC-076



Summary for Subcatchment 91S: DC-078

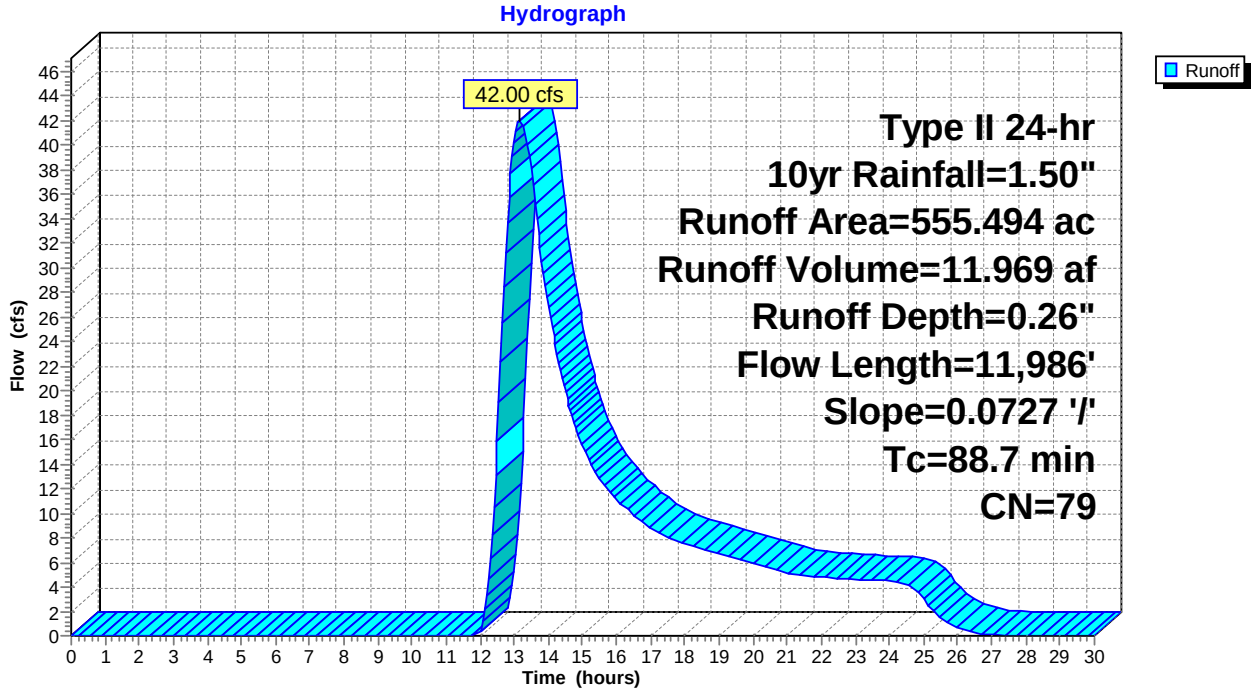
Runoff = 42.00 cfs @ 13.17 hrs, Volume= 11.969 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	555.494	79	
	555.494		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
88.7	11,986	0.0727	2.25		**Lag/CN Method,**

Subcatchment 91S: DC-078



Summary for Subcatchment 92S: DC-079

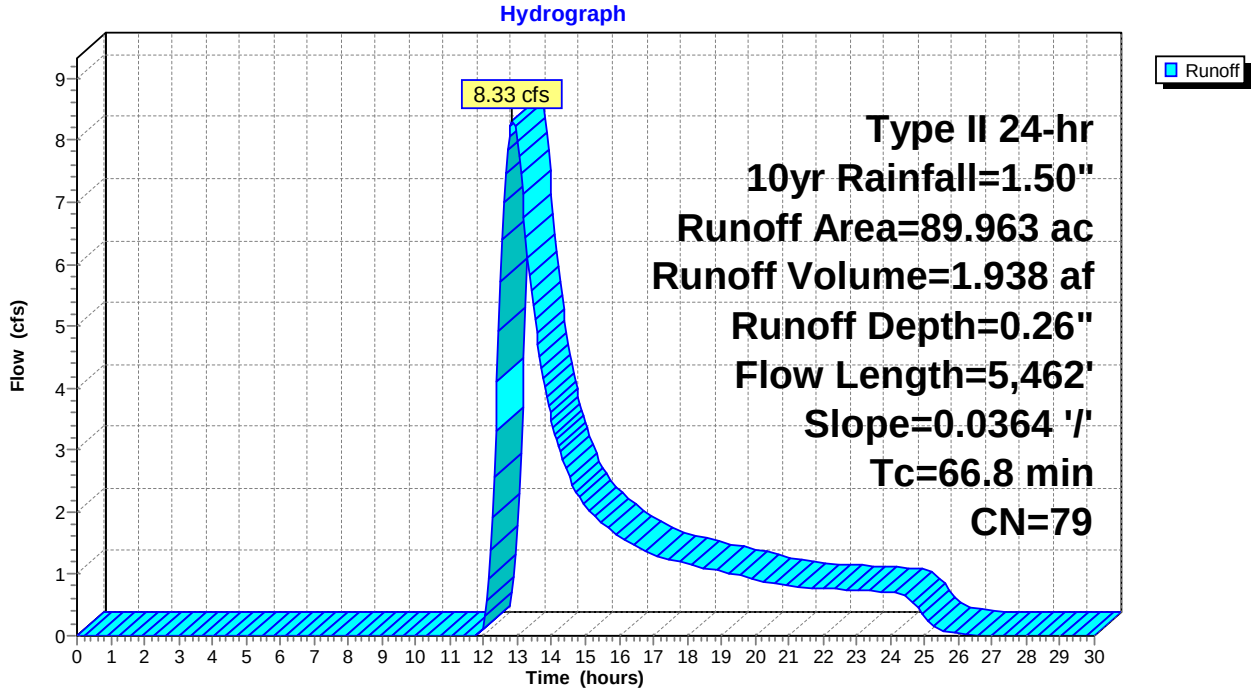
Runoff = 8.33 cfs @ 12.86 hrs, Volume= 1.938 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	89.963	79	
	89.963		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
66.8	5,462	0.0364	1.36		**Lag/CN Method,**

Subcatchment 92S: DC-079



Summary for Subcatchment 93S: DC-080

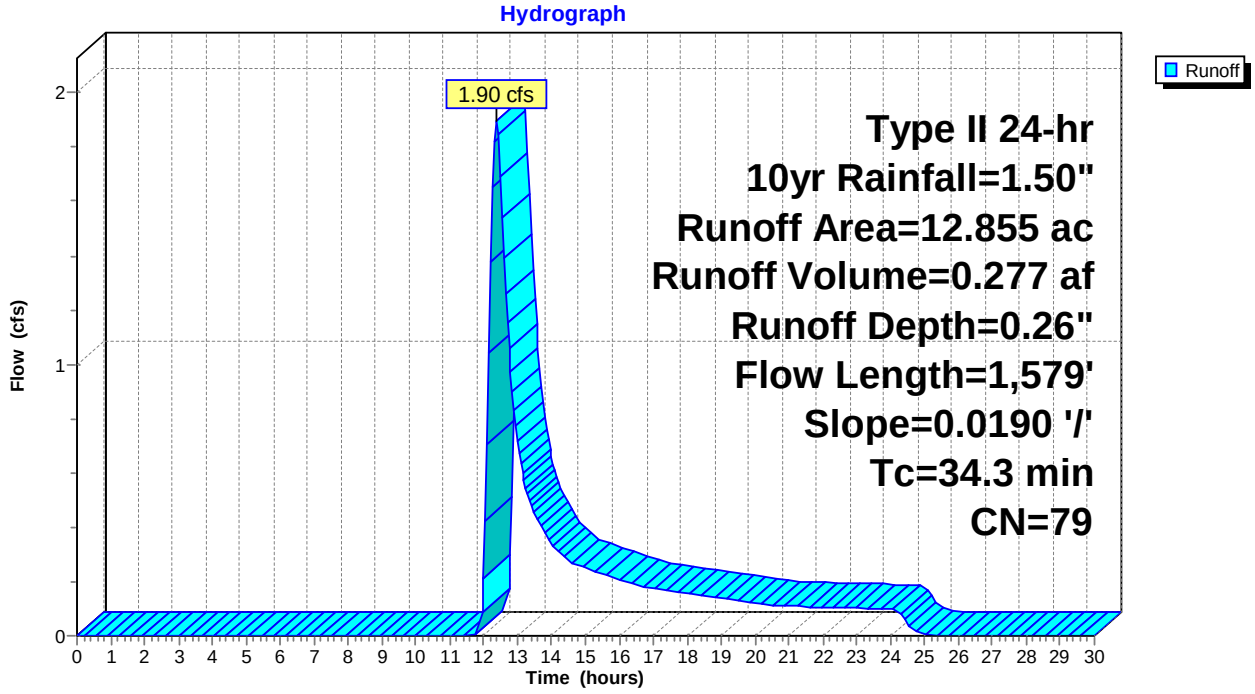
Runoff = 1.90 cfs @ 12.37 hrs, Volume= 0.277 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	12.855	79	
	12.855		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.3	1,579	0.0190	0.77		**Lag/CN Method,**

Subcatchment 93S: DC-080



Summary for Subcatchment 94S: DC-081

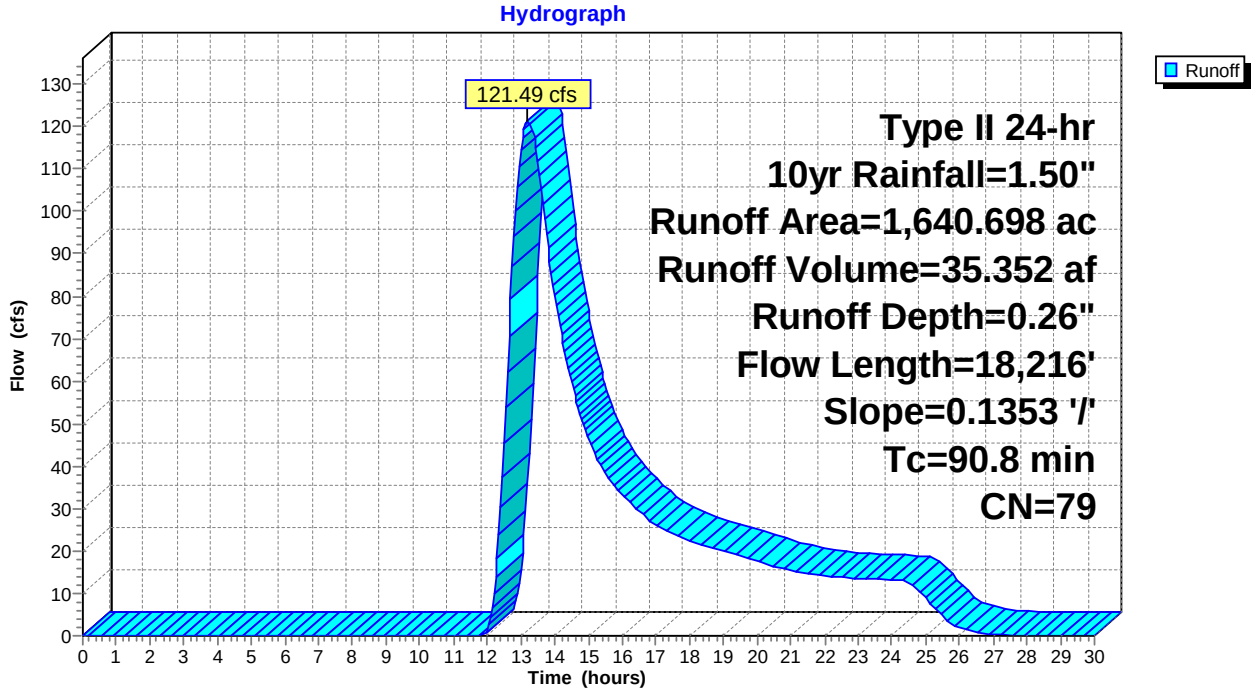
Runoff = 121.49 cfs @ 13.22 hrs, Volume= 35.352 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	1,640.698	79	
	1,640.698		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
90.8	18,216	0.1353	3.34		**Lag/CN Method,**

Subcatchment 94S: DC-081



Summary for Subcatchment 95S: DC-082

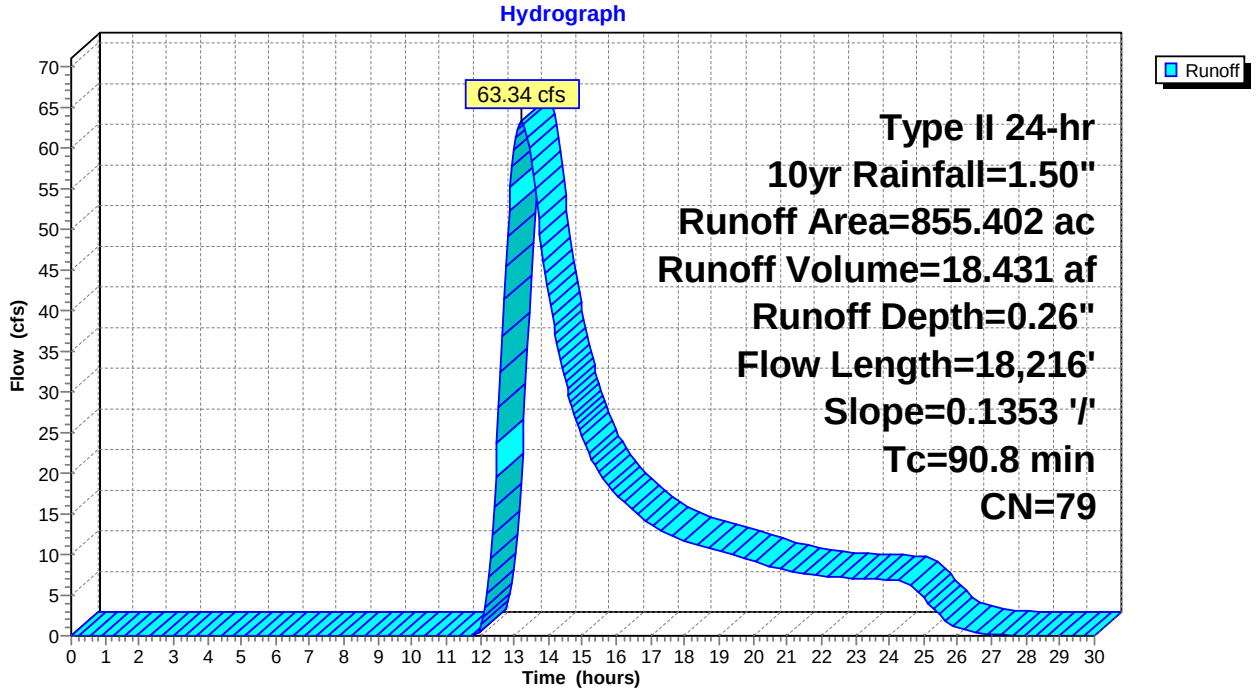
Runoff = 63.34 cfs @ 13.22 hrs, Volume= 18.431 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	855.402	79	
	855.402		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
90.8	18,216	0.1353	3.34		**Lag/CN Method,**

Subcatchment 95S: DC-082



Summary for Subcatchment 96S: DC-083

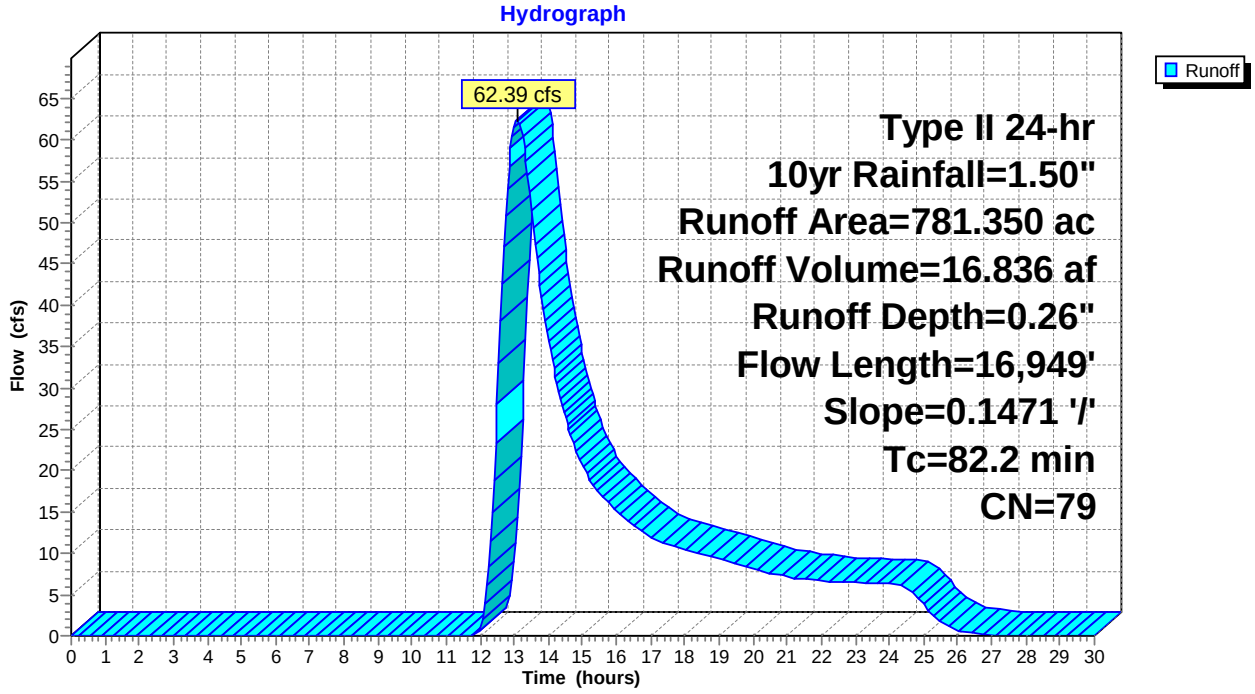
Runoff = 62.39 cfs @ 13.08 hrs, Volume= 16.836 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	781.350	79	
	781.350		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
82.2	16,949	0.1471	3.44		**Lag/CN Method,**

Subcatchment 96S: DC-083



Summary for Subcatchment 97S: DC-084

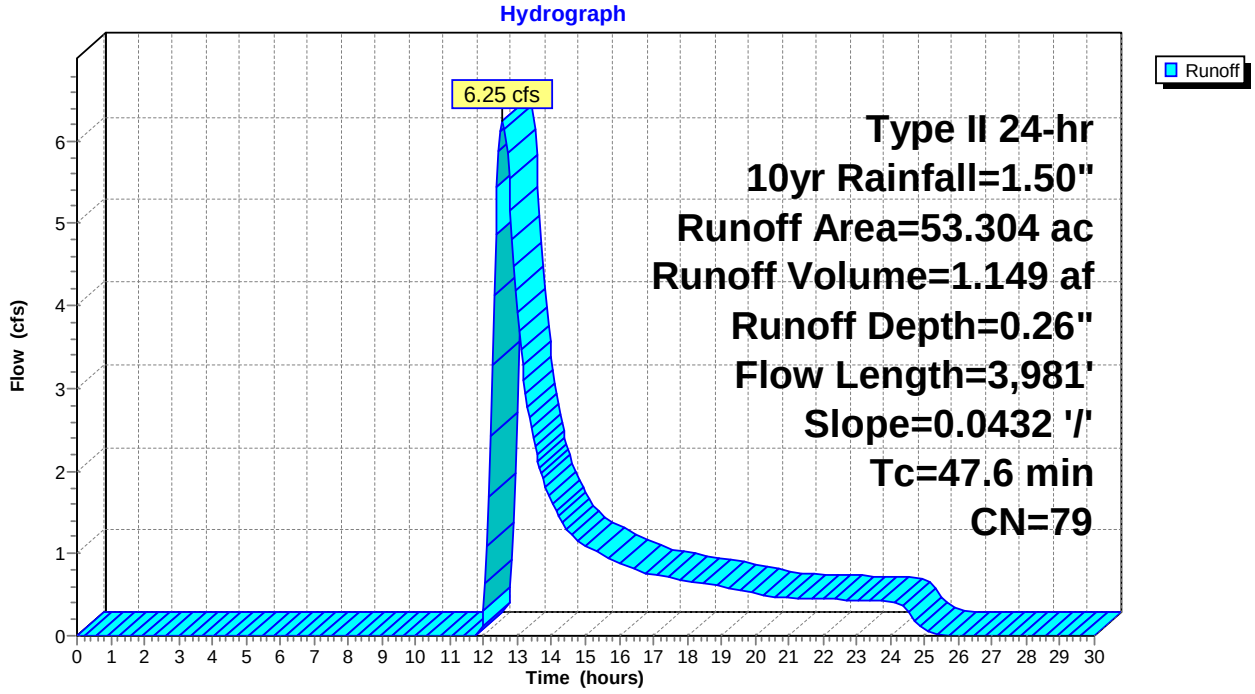
Runoff = 6.25 cfs @ 12.56 hrs, Volume= 1.149 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	53.304	79	
	53.304		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
47.6	3,981	0.0432	1.39		**Lag/CN Method,**

Subcatchment 97S: DC-084



Summary for Subcatchment 98S: DC-085

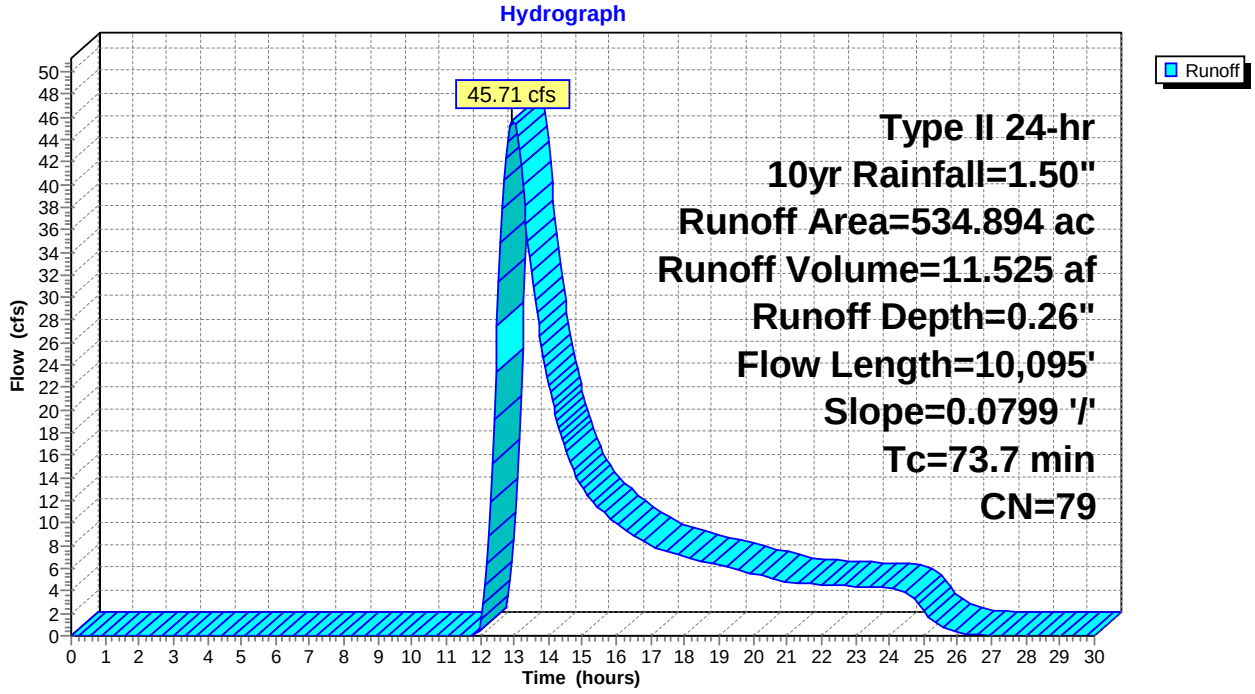
Runoff = 45.71 cfs @ 12.95 hrs, Volume= 11.525 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	534.894	79	
	534.894		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
73.7	10,095	0.0799	2.28		**Lag/CN Method,**

Subcatchment 98S: DC-085



Summary for Subcatchment 99S: DC-086

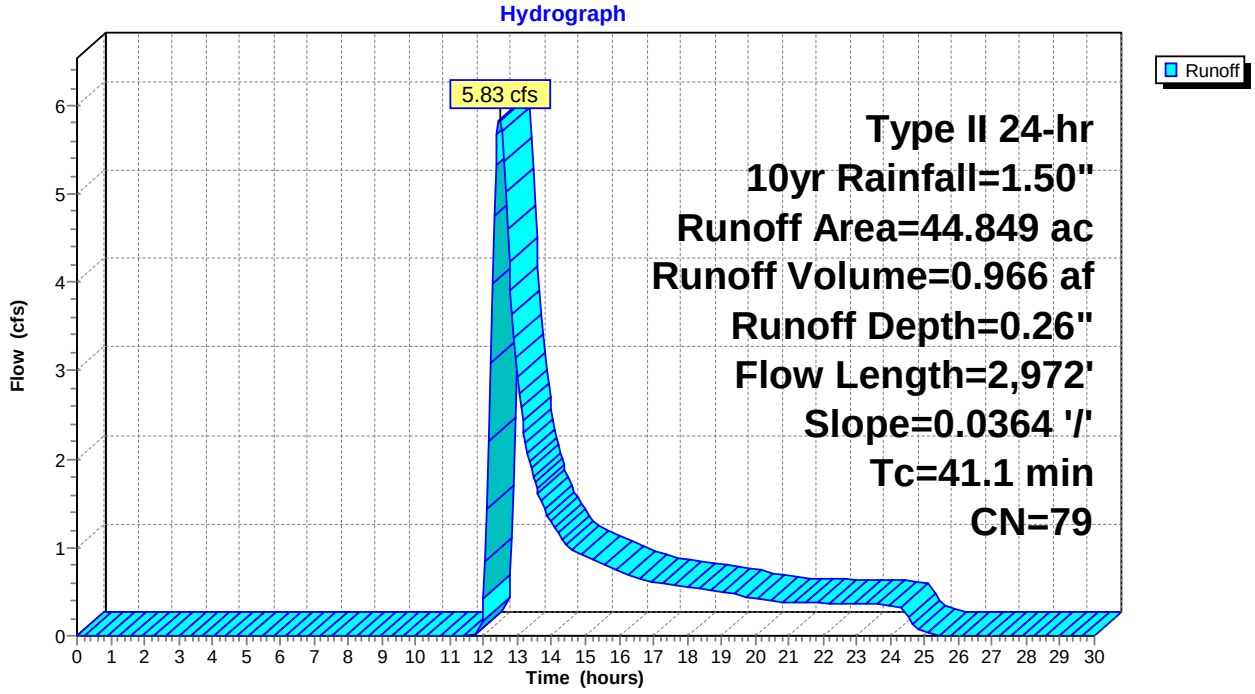
Runoff = 5.83 cfs @ 12.47 hrs, Volume= 0.966 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	44.849	79	
	44.849		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
41.1	2,972	0.0364	1.21		**Lag/CN Method,**

Subcatchment 99S: DC-086



Summary for Subcatchment 100S: DC-087

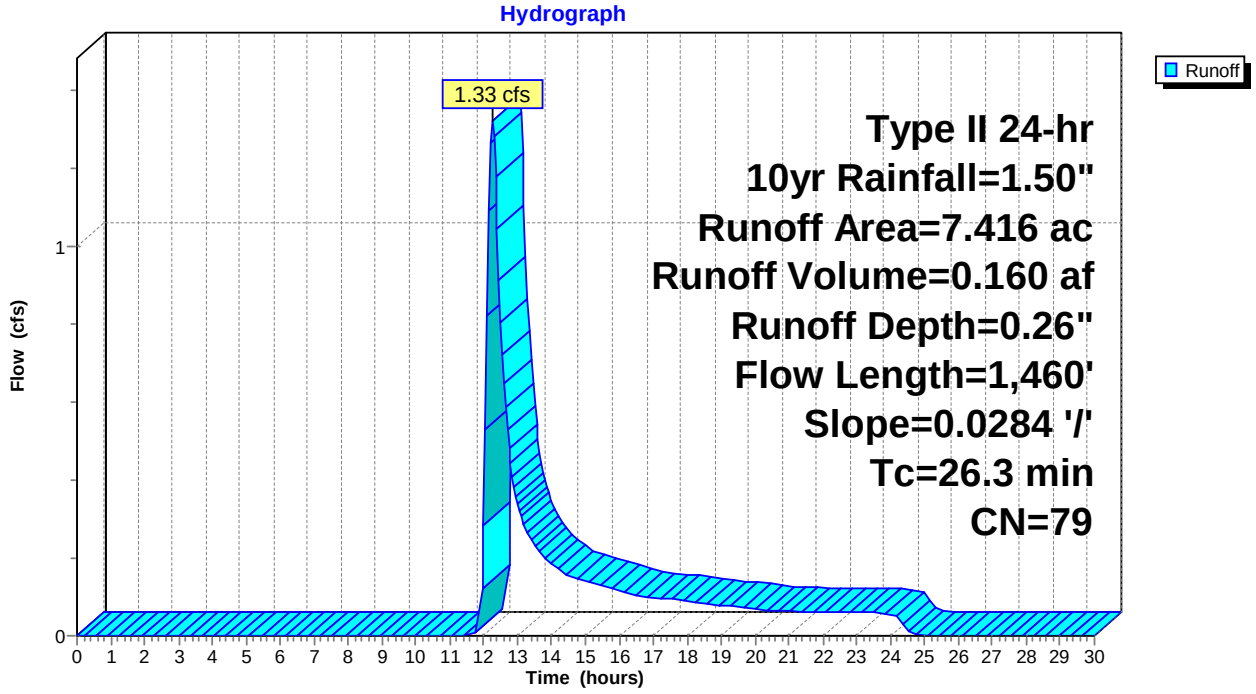
Runoff = 1.33 cfs @ 12.25 hrs, Volume= 0.160 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	7.416	79	
	7.416		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.3	1,460	0.0284	0.92		**Lag/CN Method,**

Subcatchment 100S: DC-087



Summary for Subcatchment 101S: DC-088

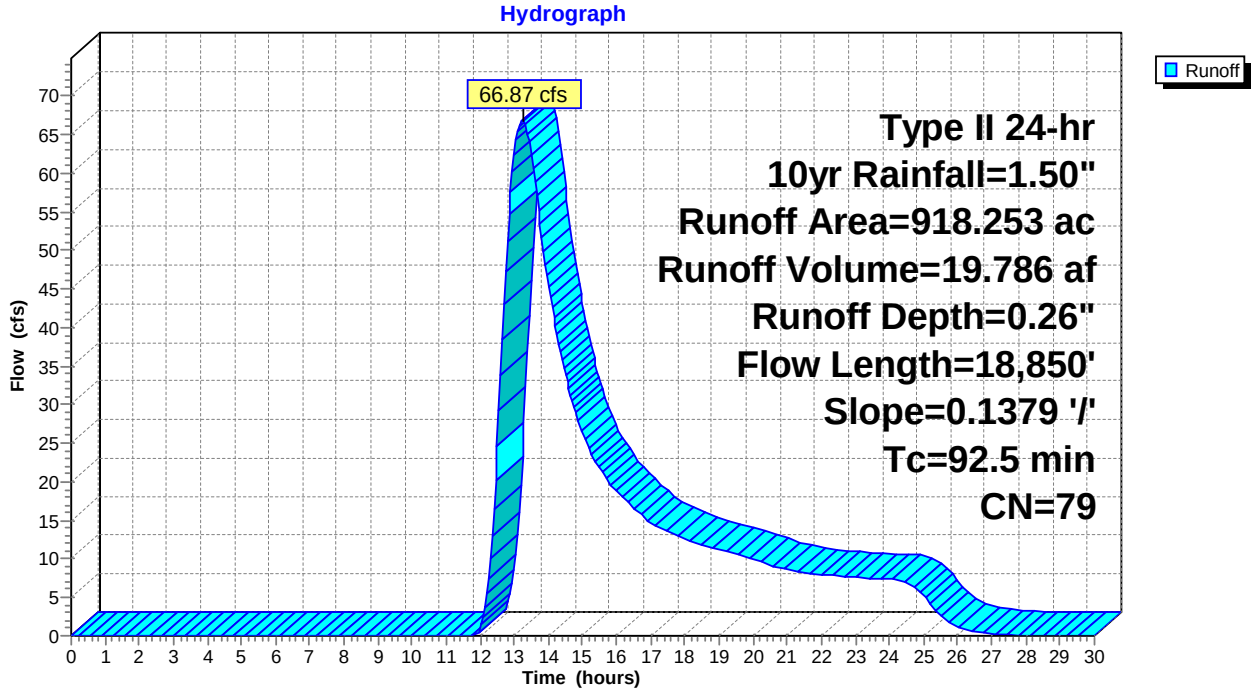
Runoff = 66.87 cfs @ 13.25 hrs, Volume= 19.786 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	918.253	79	
	918.253		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.5	18,850	0.1379	3.40		**Lag/CN Method,**

Subcatchment 101S: DC-088



Summary for Subcatchment 102S: DC-089

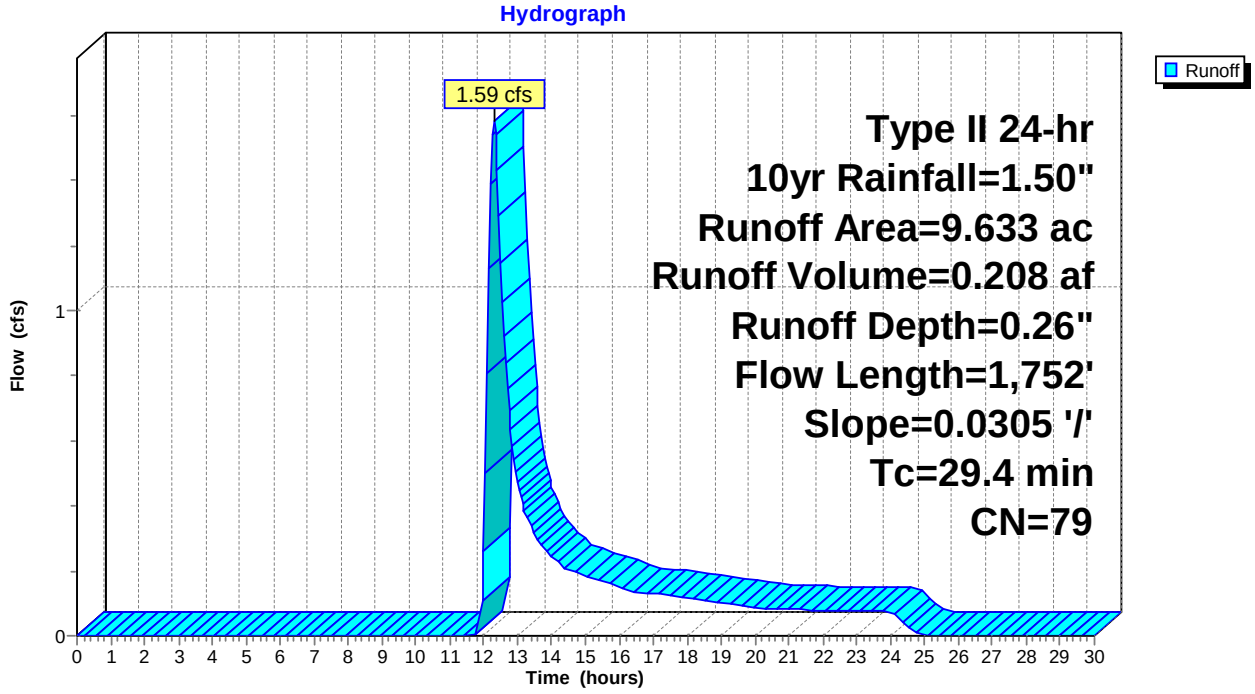
Runoff = 1.59 cfs @ 12.30 hrs, Volume= 0.208 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	9.633	79	
	9.633		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
29.4	1,752	0.0305	0.99		**Lag/CN Method,**

Subcatchment 102S: DC-089



Summary for Subcatchment 103S: DC-090

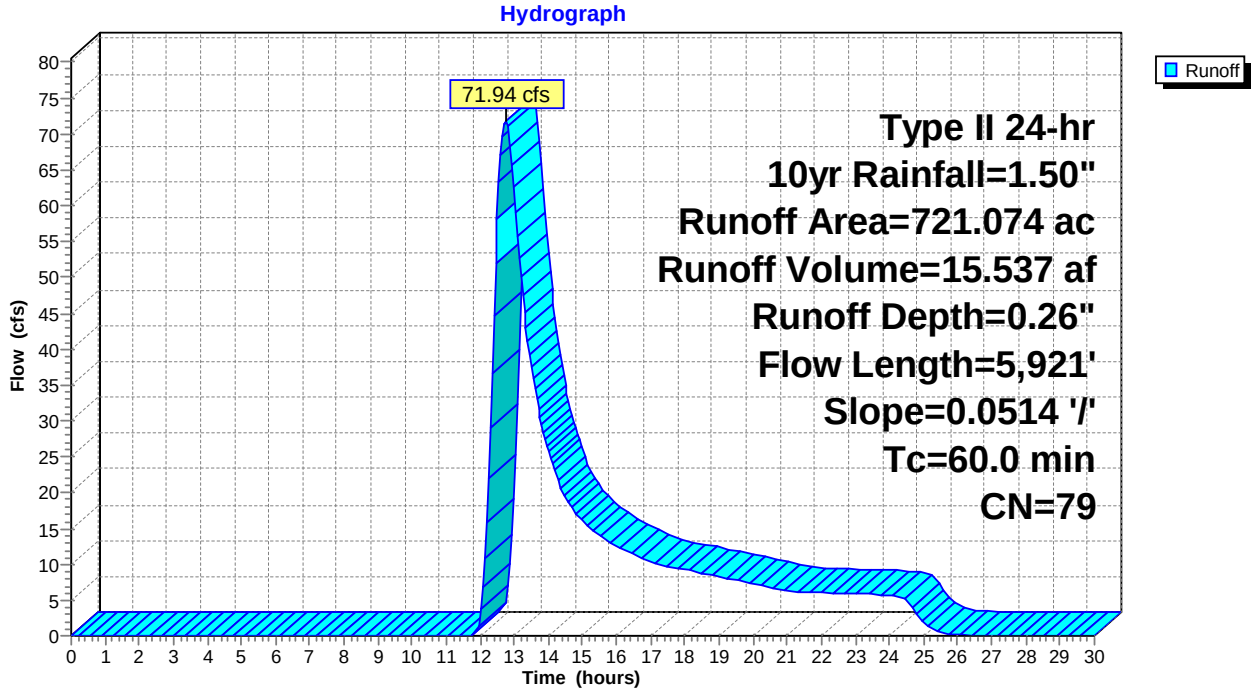
Runoff = 71.94 cfs @ 12.75 hrs, Volume= 15.537 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	721.074	79	
	721.074		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
60.0	5,921	0.0514	1.65		**Lag/CN Method,**

Subcatchment 103S: DC-090



Summary for Subcatchment 104S: DC-091

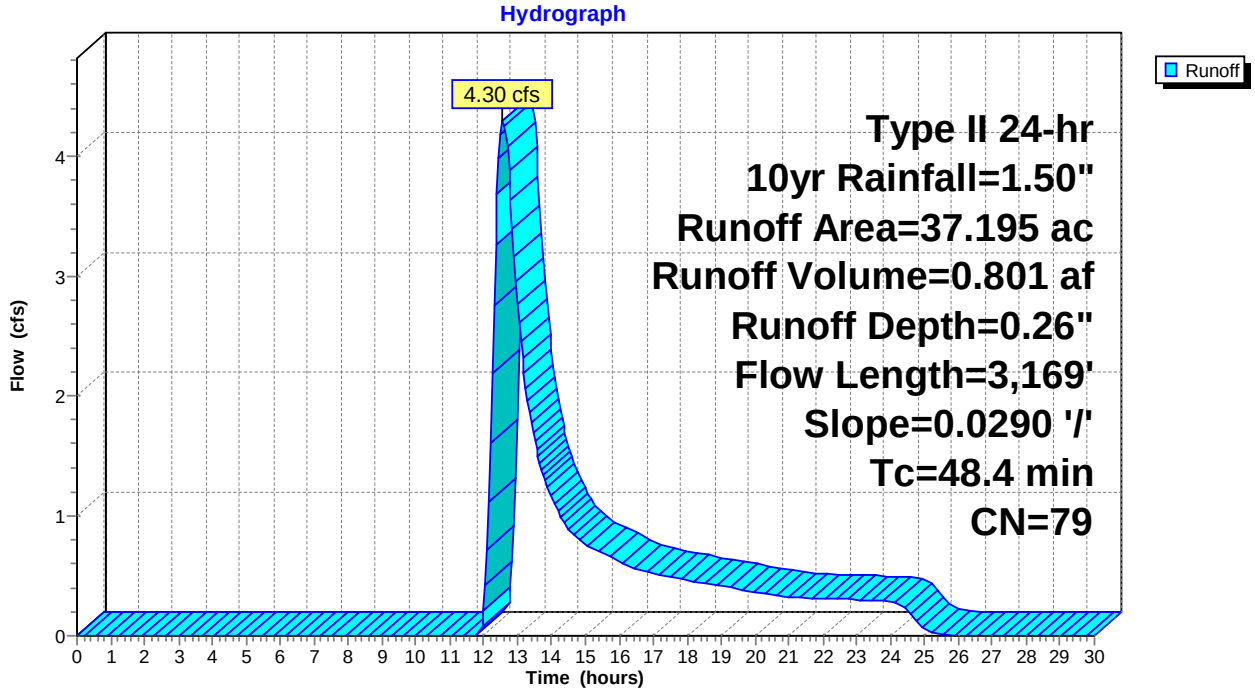
Runoff = 4.30 cfs @ 12.57 hrs, Volume= 0.801 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	37.195	79	
	37.195		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
48.4	3,169	0.0290	1.09		**Lag/CN Method,**

Subcatchment 104S: DC-091



Summary for Subcatchment 105S: DC-092

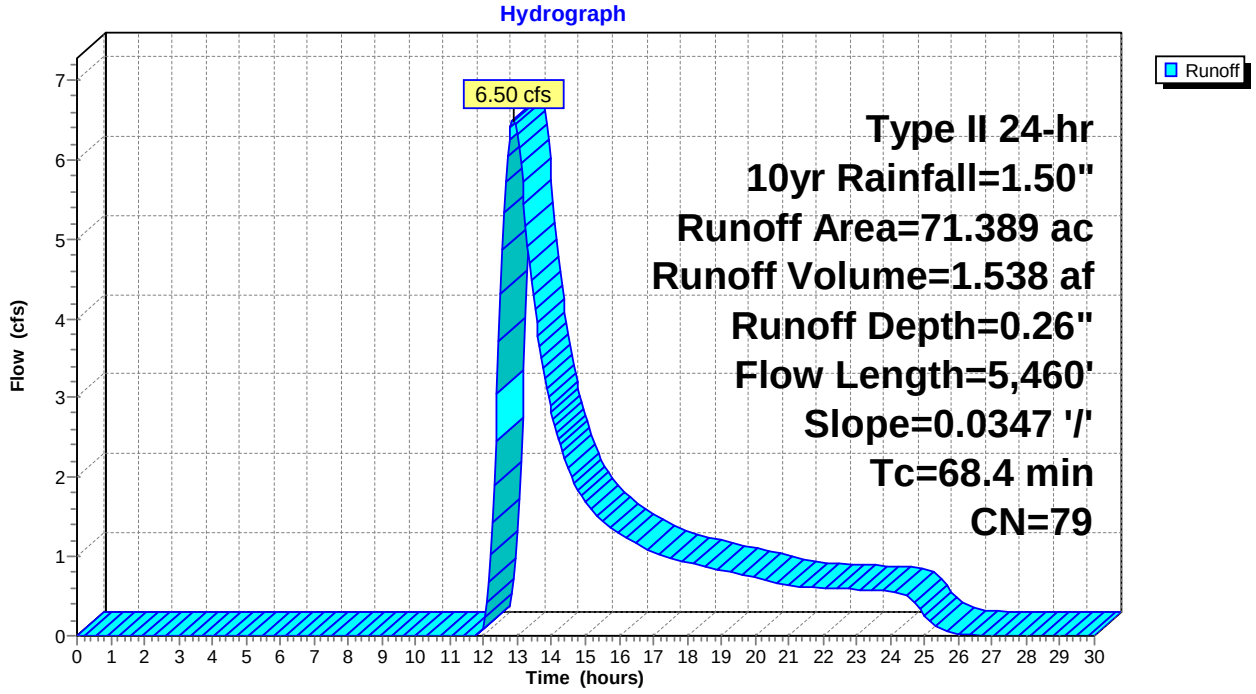
Runoff = 6.50 cfs @ 12.87 hrs, Volume= 1.538 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	71.389	79	
	71.389		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
68.4	5,460	0.0347	1.33		**Lag/CN Method,**

Subcatchment 105S: DC-092



Summary for Subcatchment 106S: DC-093

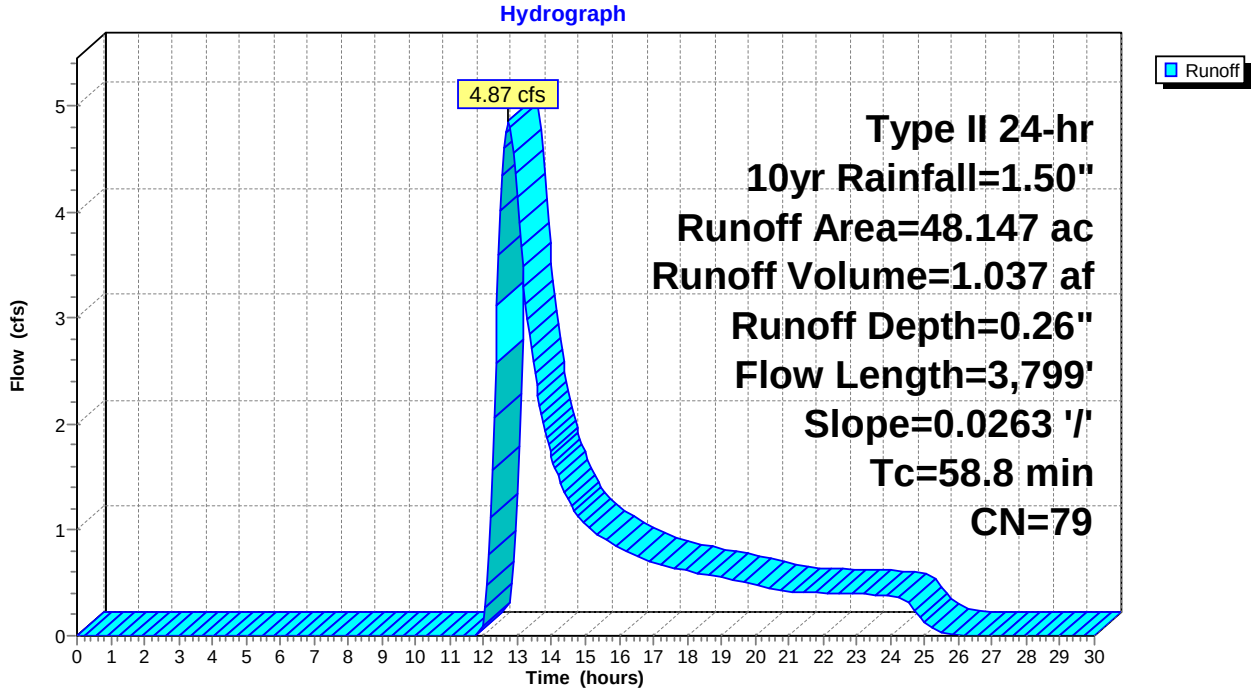
Runoff = 4.87 cfs @ 12.74 hrs, Volume= 1.037 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	48.147	79	
	48.147		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
58.8	3,799	0.0263	1.08		**Lag/CN Method,**

Subcatchment 106S: DC-093



Summary for Subcatchment 107S: DC-095

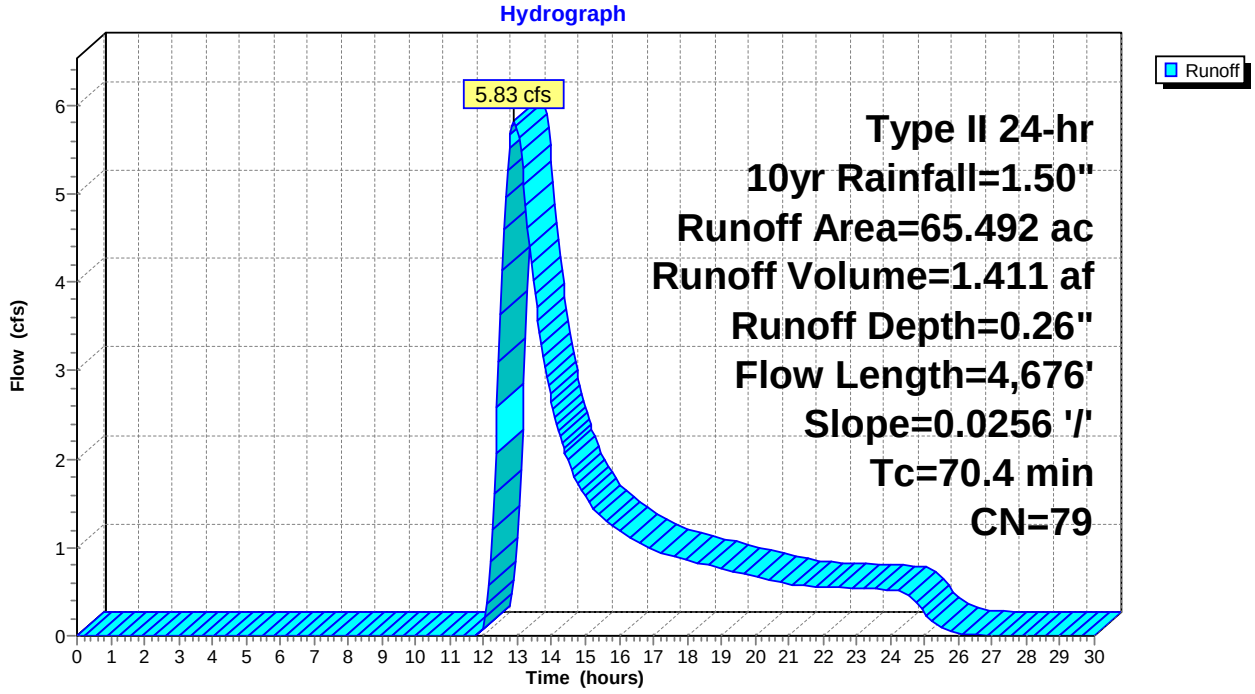
Runoff = 5.83 cfs @ 12.91 hrs, Volume= 1.411 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	65.492	79	
	65.492		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
70.4	4,676	0.0256	1.11		**Lag/CN Method,**

Subcatchment 107S: DC-095



Summary for Subcatchment 108S: DC-096

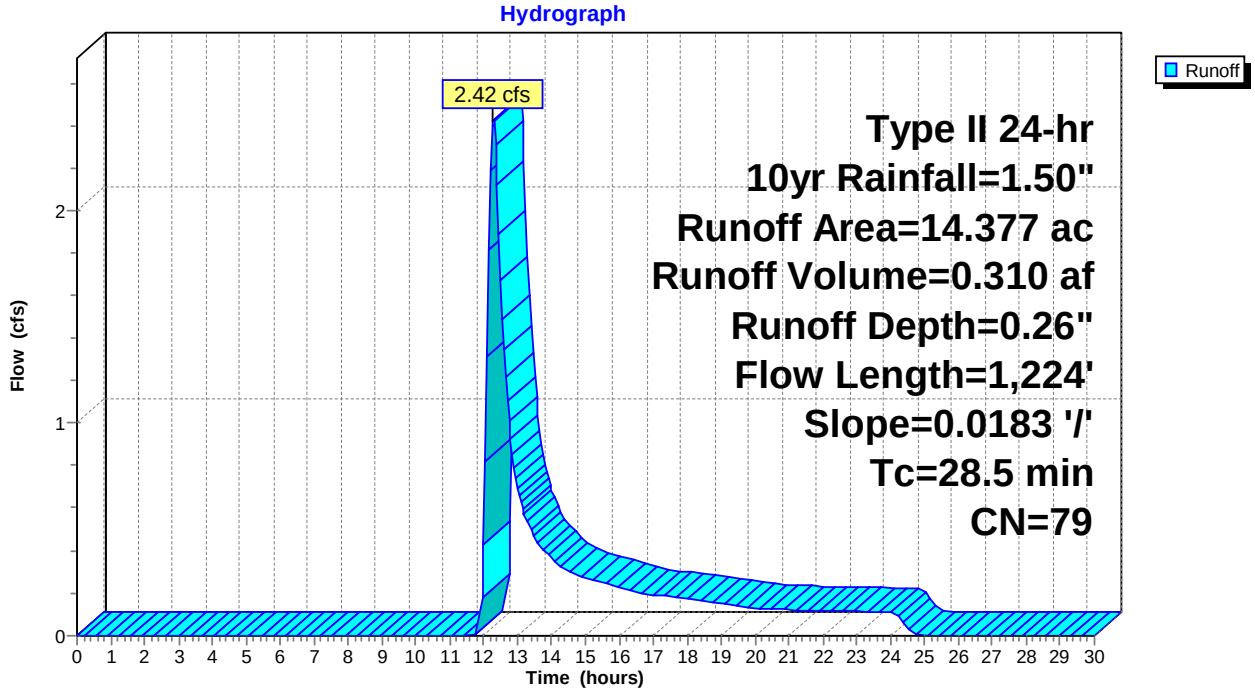
Runoff = 2.42 cfs @ 12.28 hrs, Volume= 0.310 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	14.377	79	
	14.377		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.5	1,224	0.0183	0.72		**Lag/CN Method,**

Subcatchment 108S: DC-096



Summary for Subcatchment 109S: DC-097

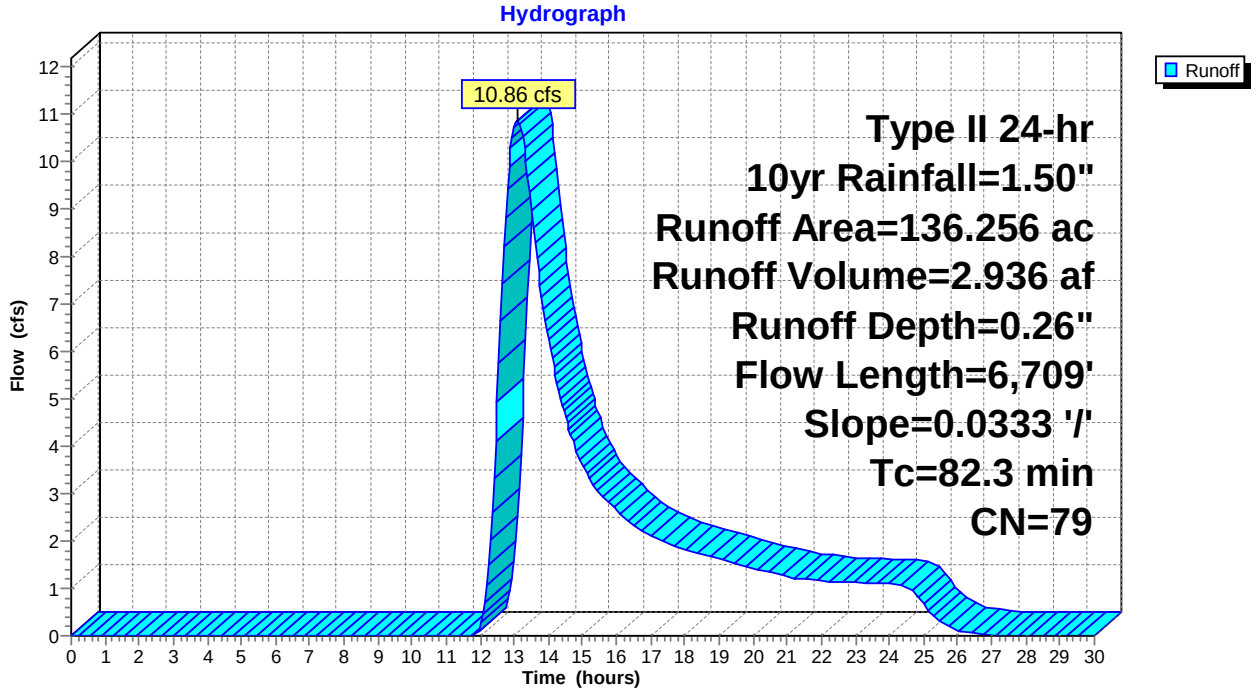
Runoff = 10.86 cfs @ 13.09 hrs, Volume= 2.936 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	136.256	79	
	136.256		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
82.3	6,709	0.0333	1.36		**Lag/CN Method,**

Subcatchment 109S: DC-097



Summary for Subcatchment 110S: DC-098

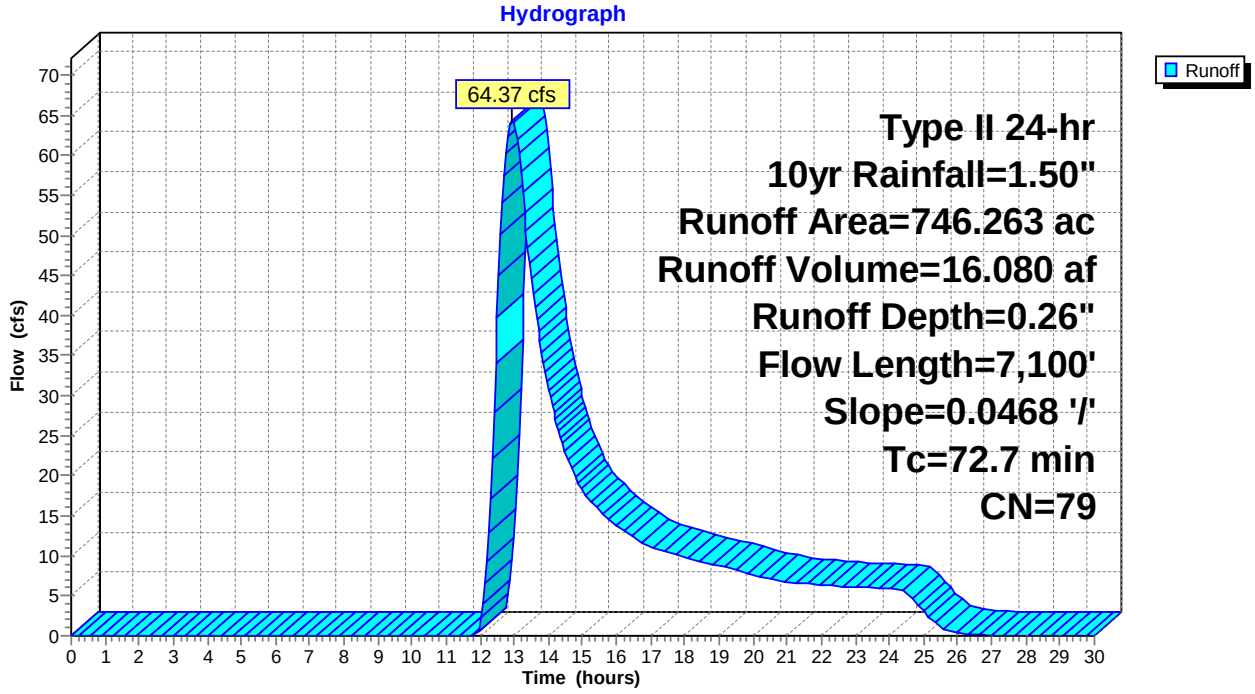
Runoff = 64.37 cfs @ 12.93 hrs, Volume= 16.080 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	746.263	79	
	746.263		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
72.7	7,100	0.0468	1.63		**Lag/CN Method,**

Subcatchment 110S: DC-098



Summary for Subcatchment 111S: DC-099

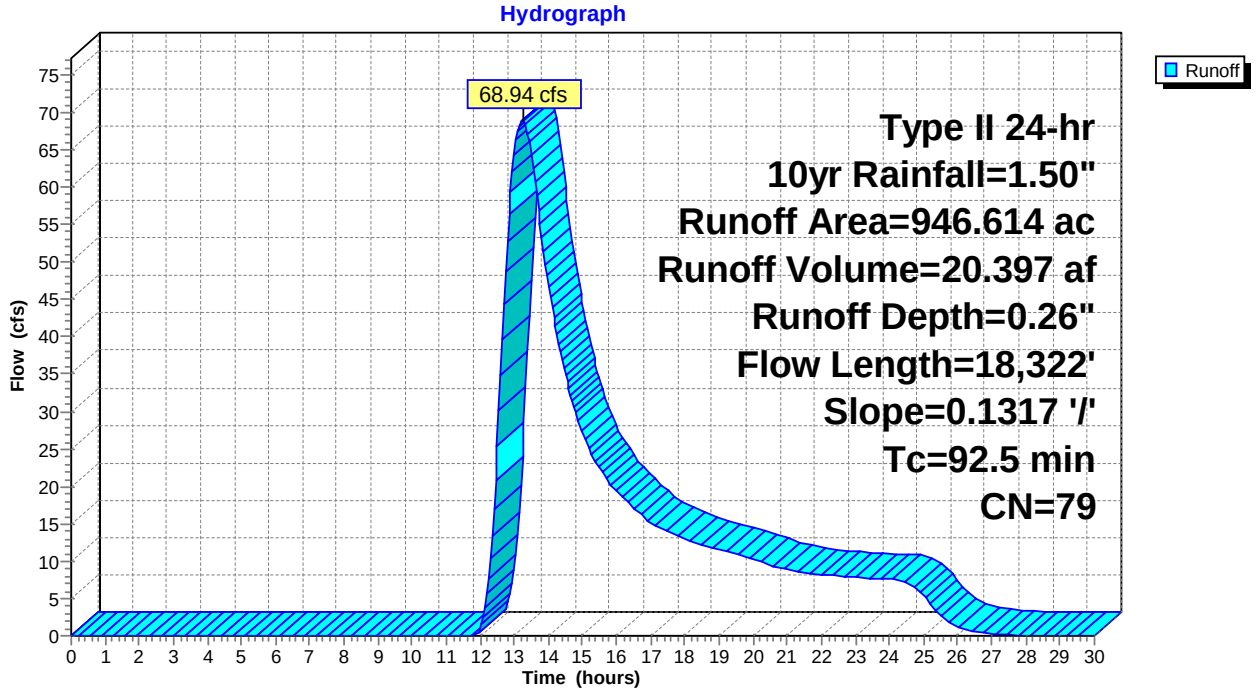
Runoff = 68.94 cfs @ 13.25 hrs, Volume= 20.397 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	946.614	79	
	946.614		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
92.5	18,322	0.1317	3.30		**Lag/CN Method,**

Subcatchment 111S: DC-099



Summary for Subcatchment 112S: DC-100

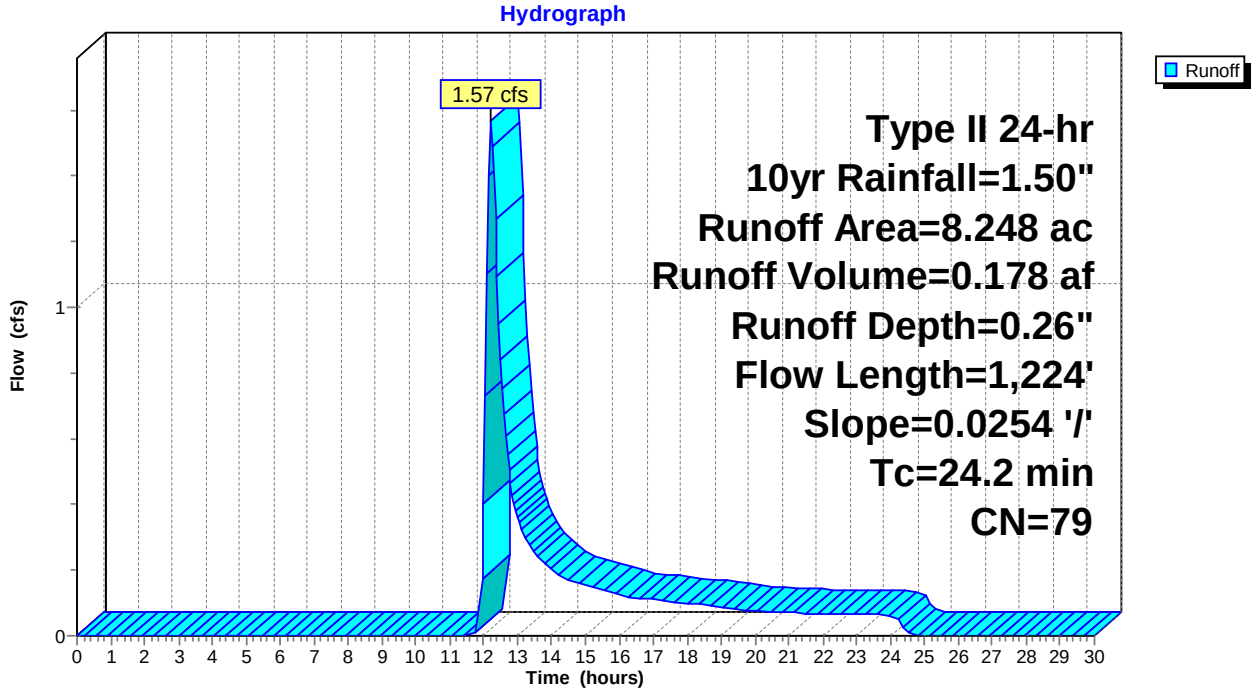
Runoff = 1.57 cfs @ 12.22 hrs, Volume= 0.178 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	8.248	79	
	8.248		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.2	1,224	0.0254	0.84		**Lag/CN Method,**

Subcatchment 112S: DC-100



Summary for Subcatchment 113S: DC-101

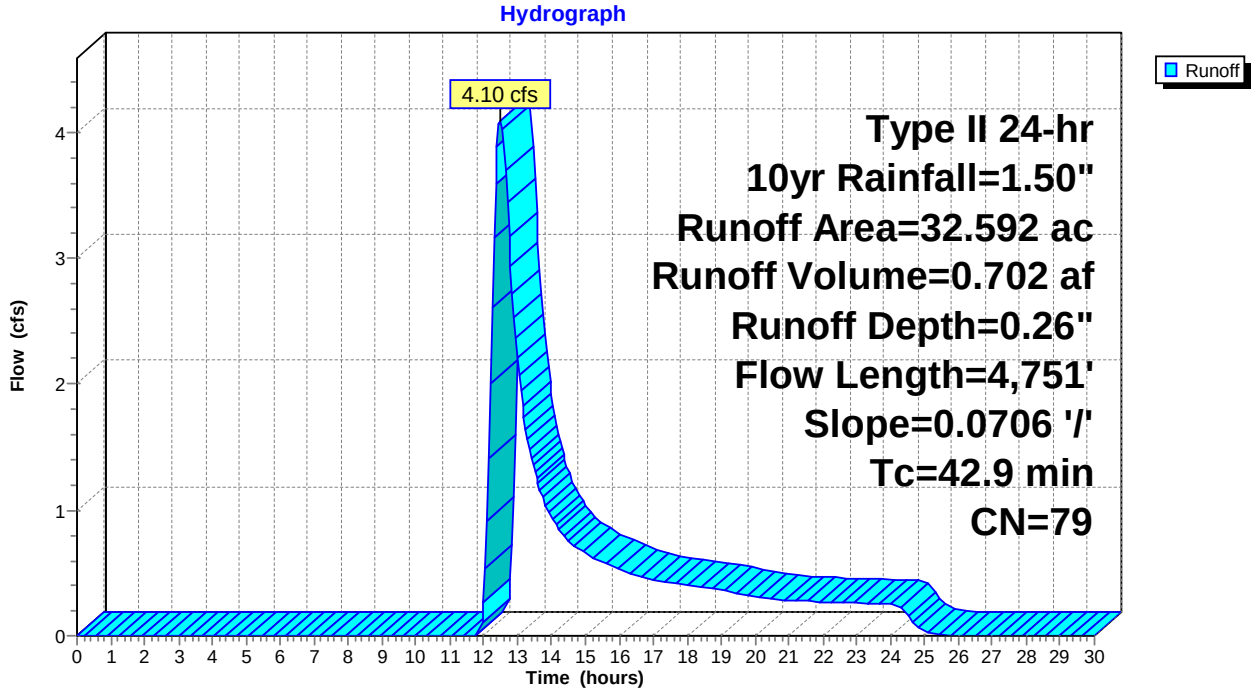
Runoff = 4.10 cfs @ 12.50 hrs, Volume= 0.702 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	32.592	79	
	32.592		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.9	4,751	0.0706	1.85		**Lag/CN Method,**

Subcatchment 113S: DC-101



Summary for Subcatchment 114S: DC-102

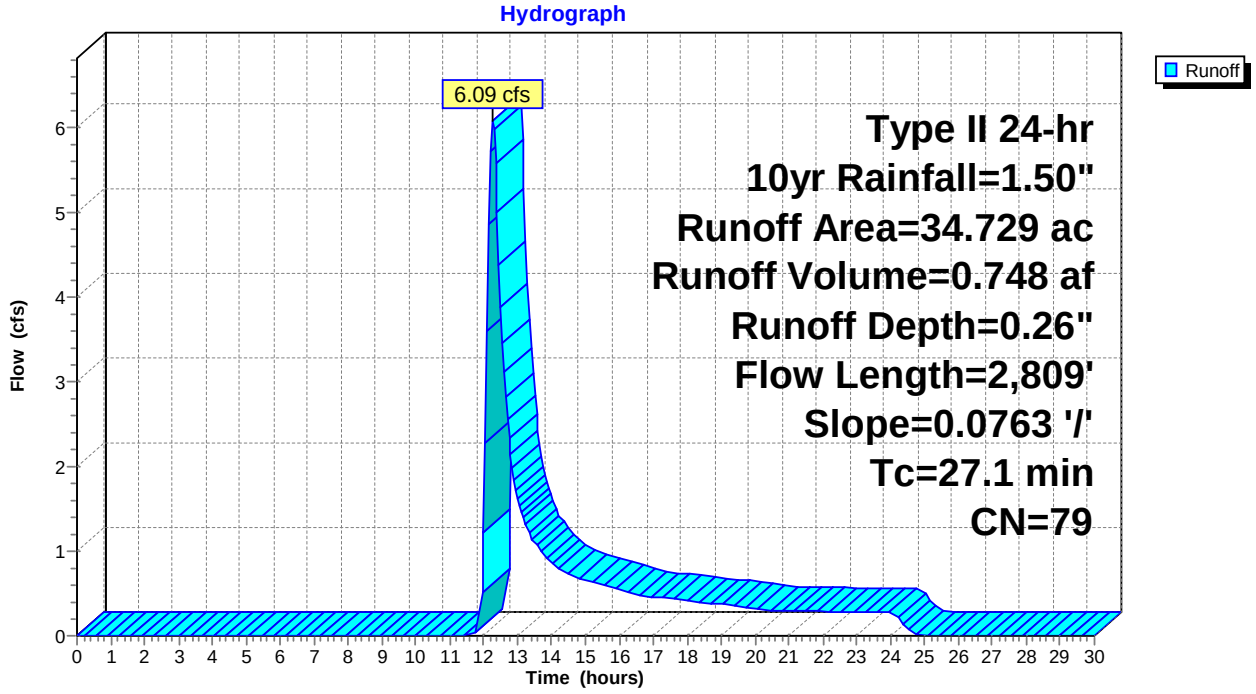
Runoff = 6.09 cfs @ 12.26 hrs, Volume= 0.748 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	34.729	79	
	34.729		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.1	2,809	0.0763	1.73		**Lag/CN Method,**

Subcatchment 114S: DC-102



Summary for Subcatchment 115S: DC-103

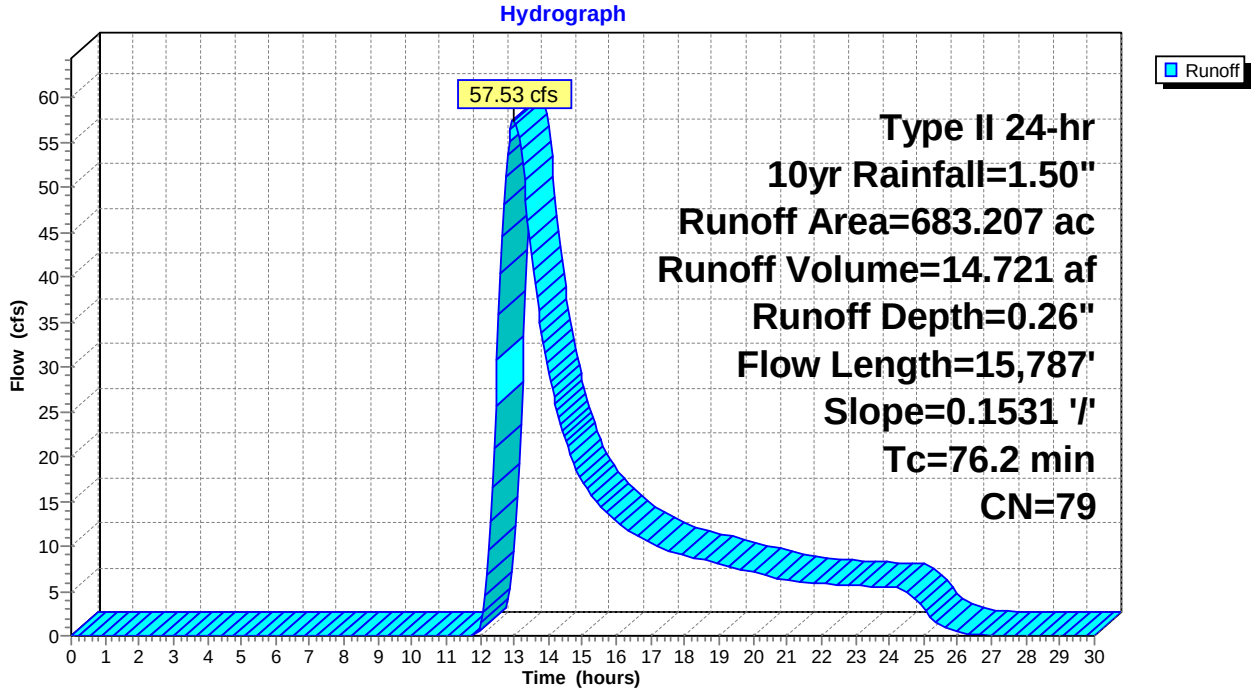
Runoff = 57.53 cfs @ 12.98 hrs, Volume= 14.721 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	683.207	79	
	683.207		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
76.2	15,787	0.1531	3.46		**Lag/CN Method,**

Subcatchment 115S: DC-103



Summary for Subcatchment 116S: DC-104

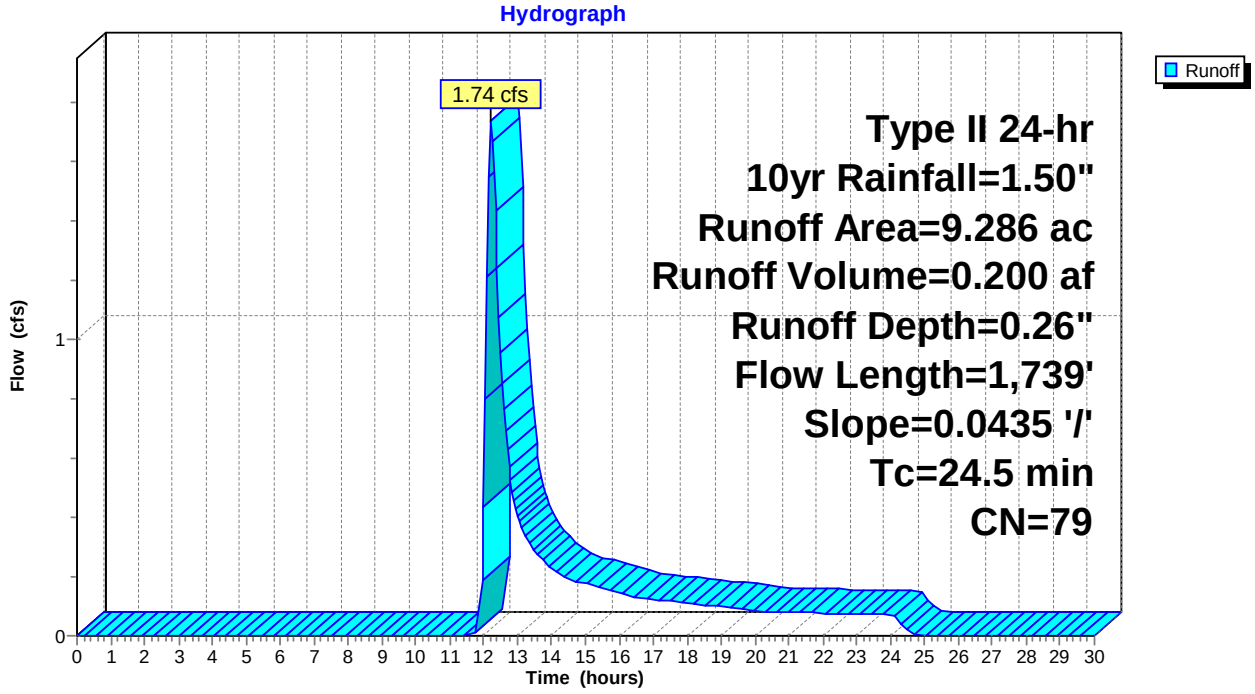
Runoff = 1.74 cfs @ 12.23 hrs, Volume= 0.200 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	9.286	79	
	9.286		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.5	1,739	0.0435	1.18		**Lag/CN Method,**

Subcatchment 116S: DC-104



Summary for Subcatchment 117S: DC-105

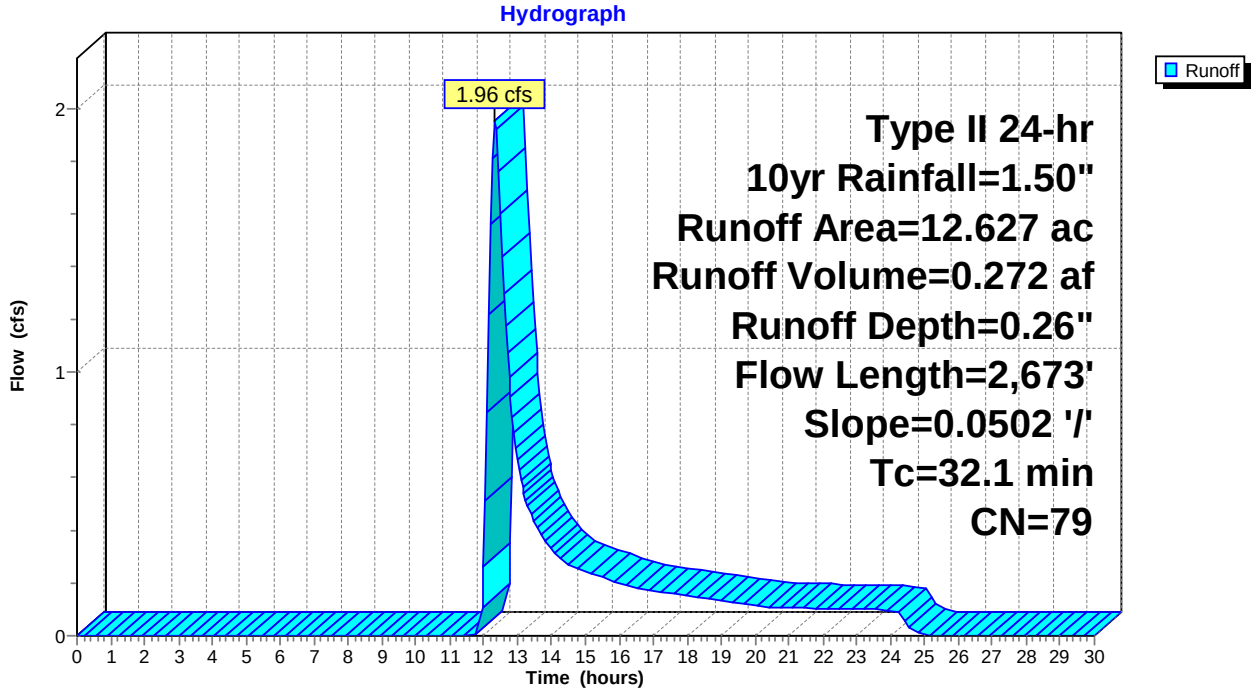
Runoff = 1.96 cfs @ 12.34 hrs, Volume= 0.272 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	12.627	79	
	12.627		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
32.1	2,673	0.0502	1.39		**Lag/CN Method,**

Subcatchment 117S: DC-105



Summary for Subcatchment 118S: DC-106

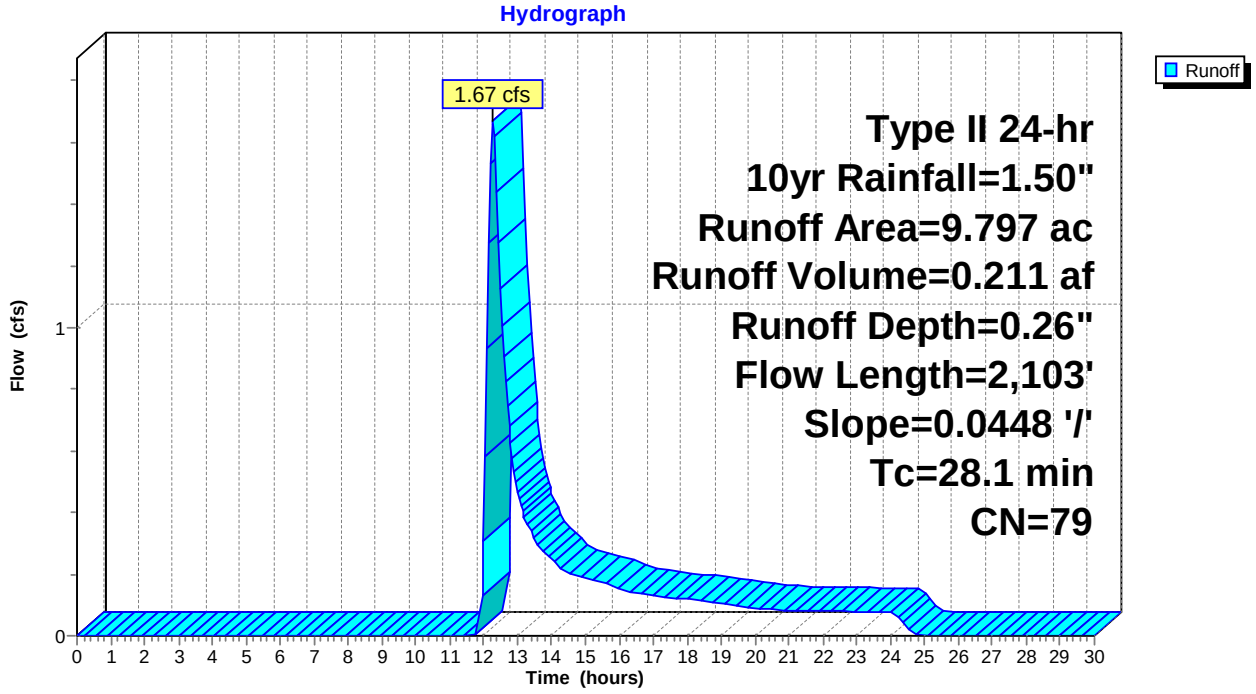
Runoff = 1.67 cfs @ 12.28 hrs, Volume= 0.211 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	9.797	79	
	9.797		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.1	2,103	0.0448	1.25		**Lag/CN Method,**

Subcatchment 118S: DC-106



Summary for Subcatchment 119S: DC-107

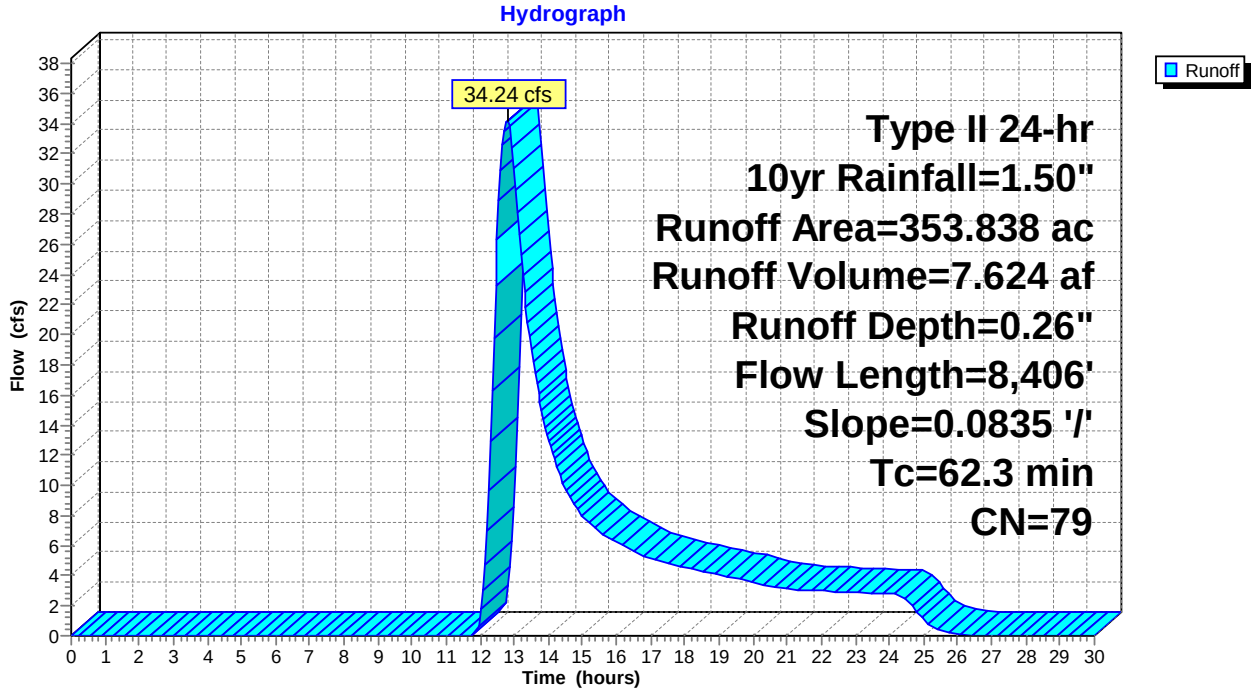
Runoff = 34.24 cfs @ 12.80 hrs, Volume= 7.624 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	353.838	79	
	353.838		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
62.3	8,406	0.0835	2.25		**Lag/CN Method,**

Subcatchment 119S: DC-107



Summary for Subcatchment 120S: DC-108

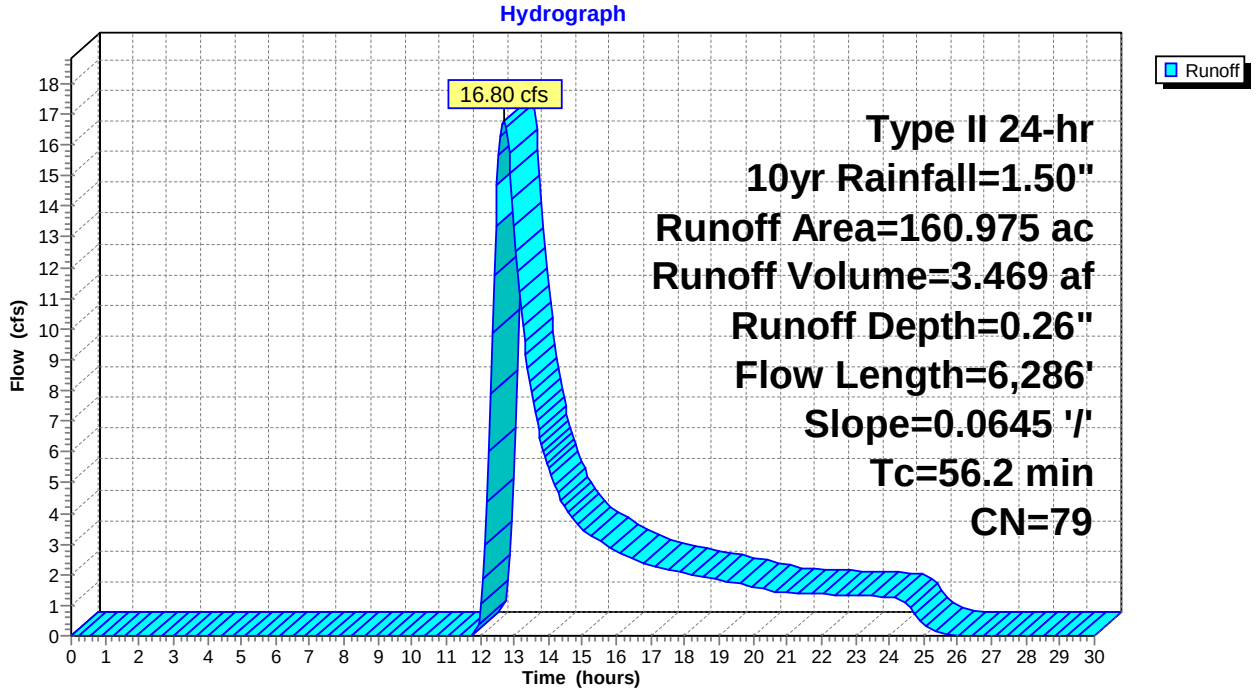
Runoff = 16.80 cfs @ 12.69 hrs, Volume= 3.469 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	160.975	79	
	160.975		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
56.2	6,286	0.0645	1.87		**Lag/CN Method,**

Subcatchment 120S: DC-108



Summary for Subcatchment 121S: DC-109

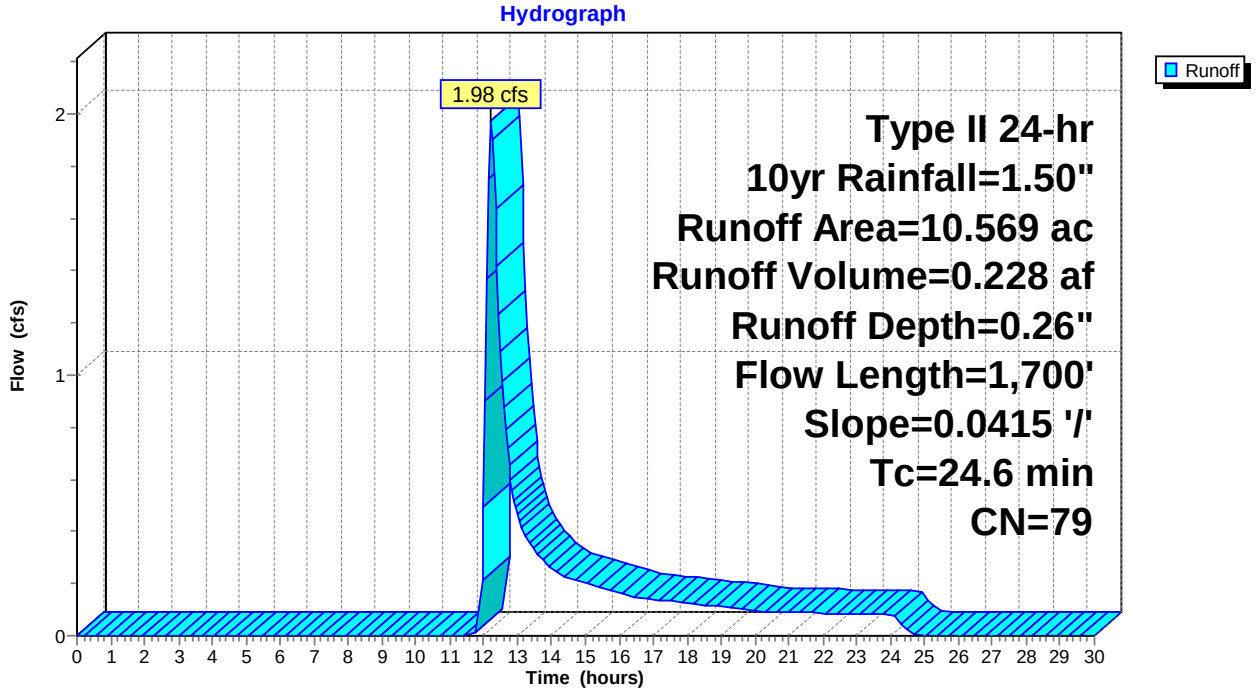
Runoff = 1.98 cfs @ 12.23 hrs, Volume= 0.228 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	10.569	79	
	10.569		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
24.6	1,700	0.0415	1.15		**Lag/CN Method,**

Subcatchment 121S: DC-109



Summary for Subcatchment 122S: DC-111

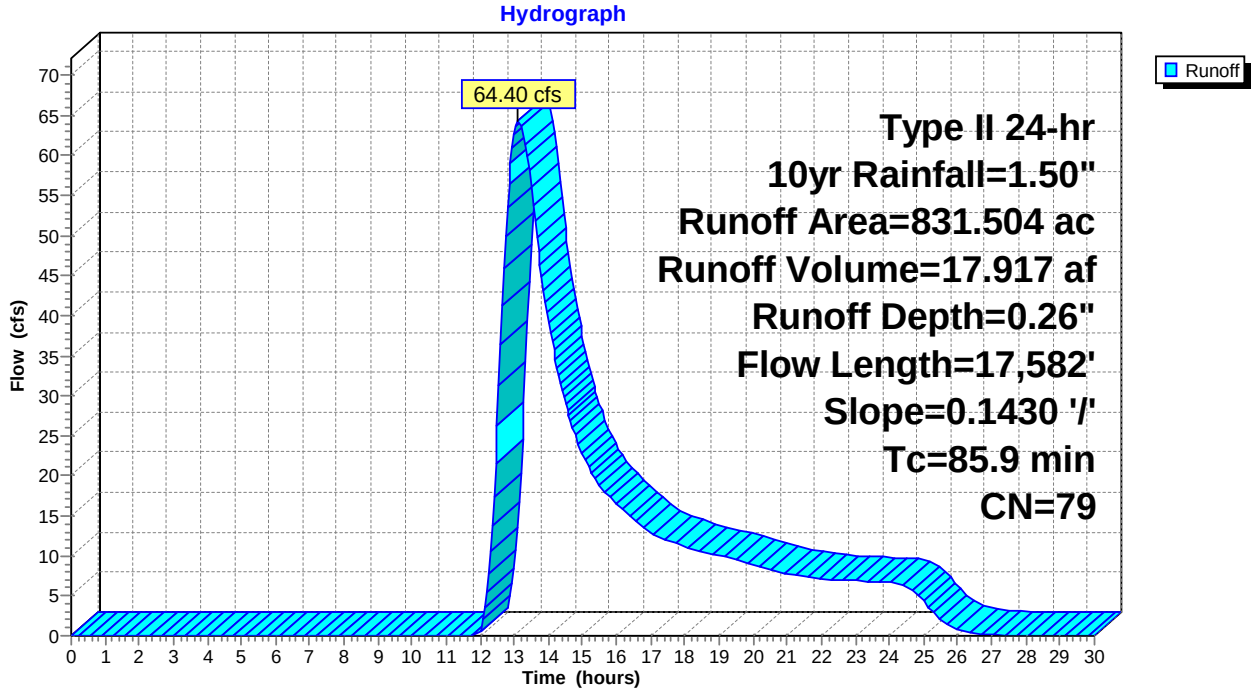
Runoff = 64.40 cfs @ 13.12 hrs, Volume= 17.917 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	831.504	79	
	831.504		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
85.9	17,582	0.1430	3.41		**Lag/CN Method,**

Subcatchment 122S: DC-111



Summary for Subcatchment 123S: DC-112

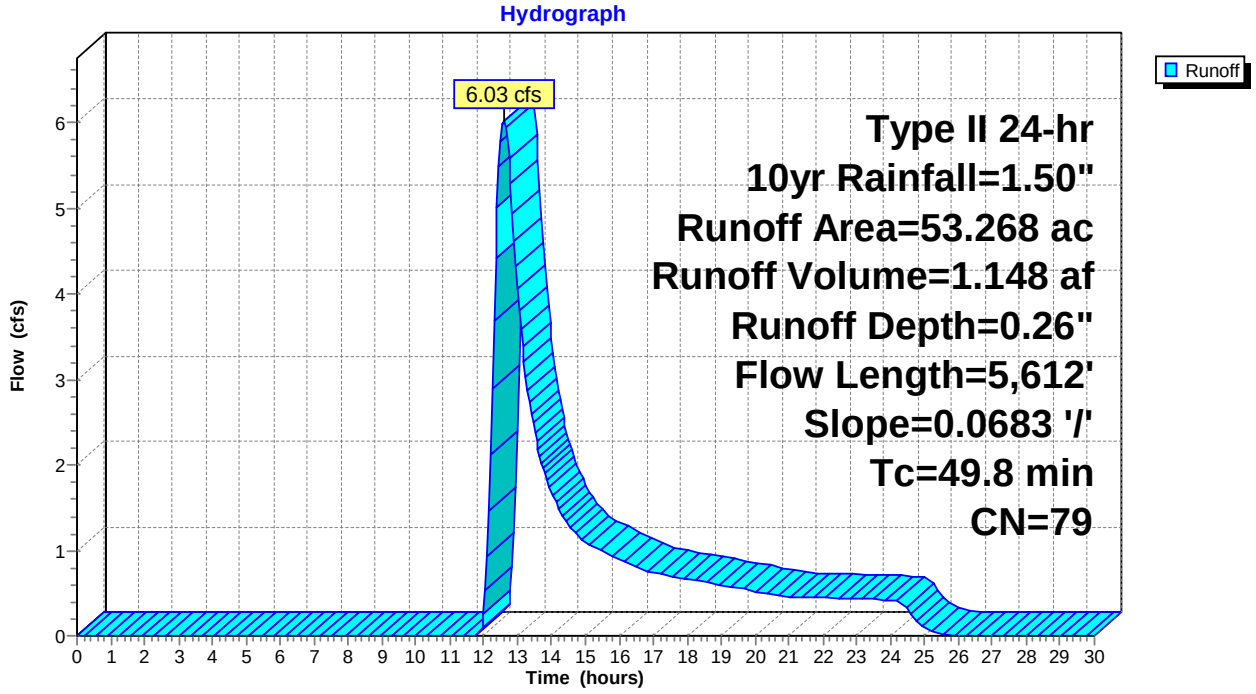
Runoff = 6.03 cfs @ 12.60 hrs, Volume= 1.148 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	53.268	79	
	53.268		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
49.8	5,612	0.0683	1.88		**Lag/CN Method,**

Subcatchment 123S: DC-112



Summary for Subcatchment 124S: DC-113

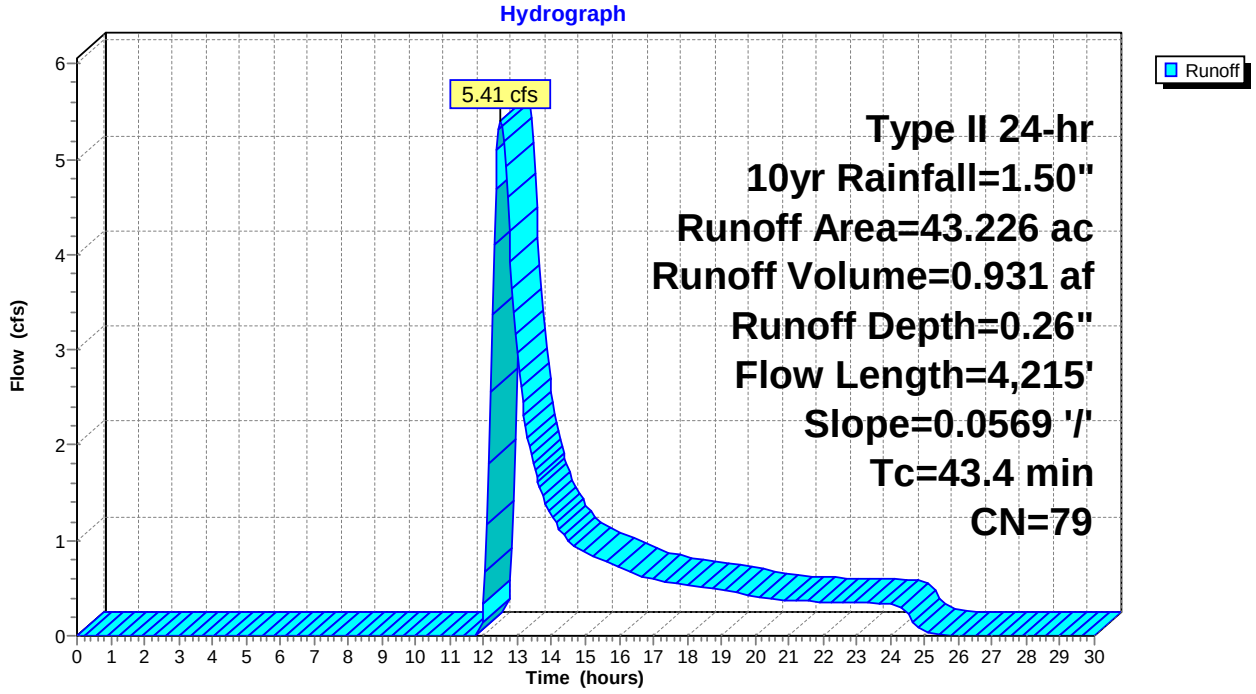
Runoff = 5.41 cfs @ 12.50 hrs, Volume= 0.931 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	43.226	79	
	43.226		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
43.4	4,215	0.0569	1.62		**Lag/CN Method,**

Subcatchment 124S: DC-113



Summary for Subcatchment 125S: DC-114

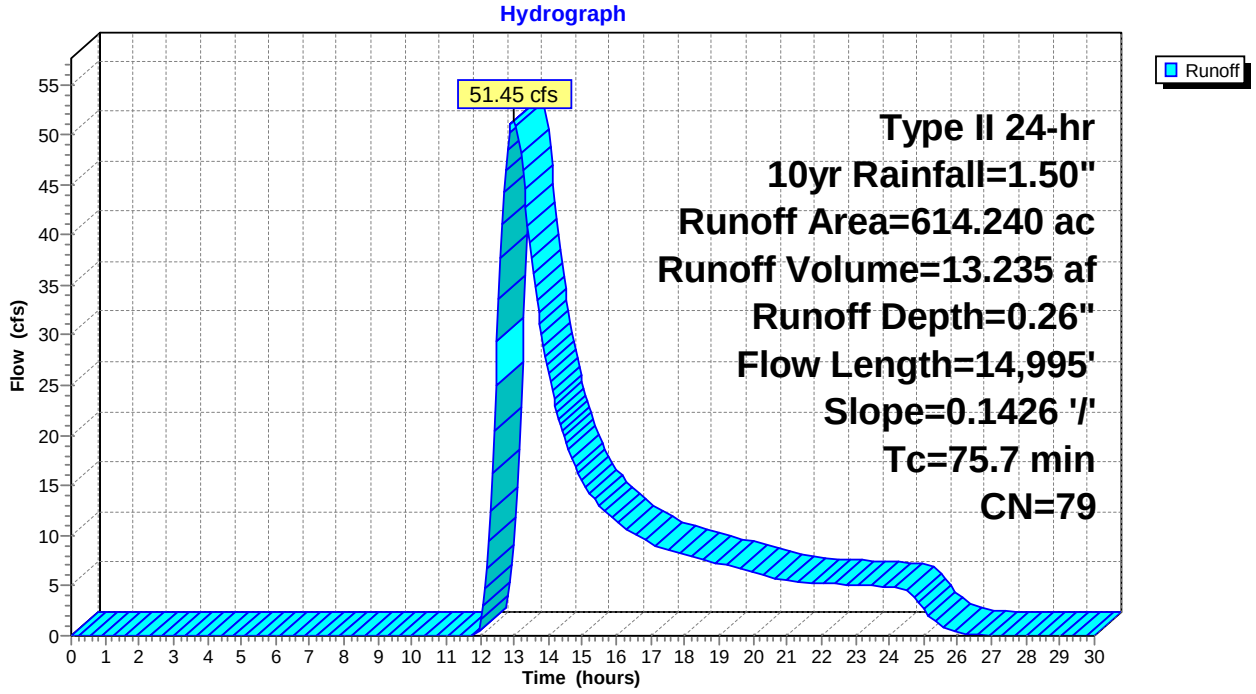
Runoff = 51.45 cfs @ 12.98 hrs, Volume= 13.235 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	614.240	79	
	614.240		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
75.7	14,995	0.1426	3.30		**Lag/CN Method,**

Subcatchment 125S: DC-114



Summary for Subcatchment 126S: DC-115

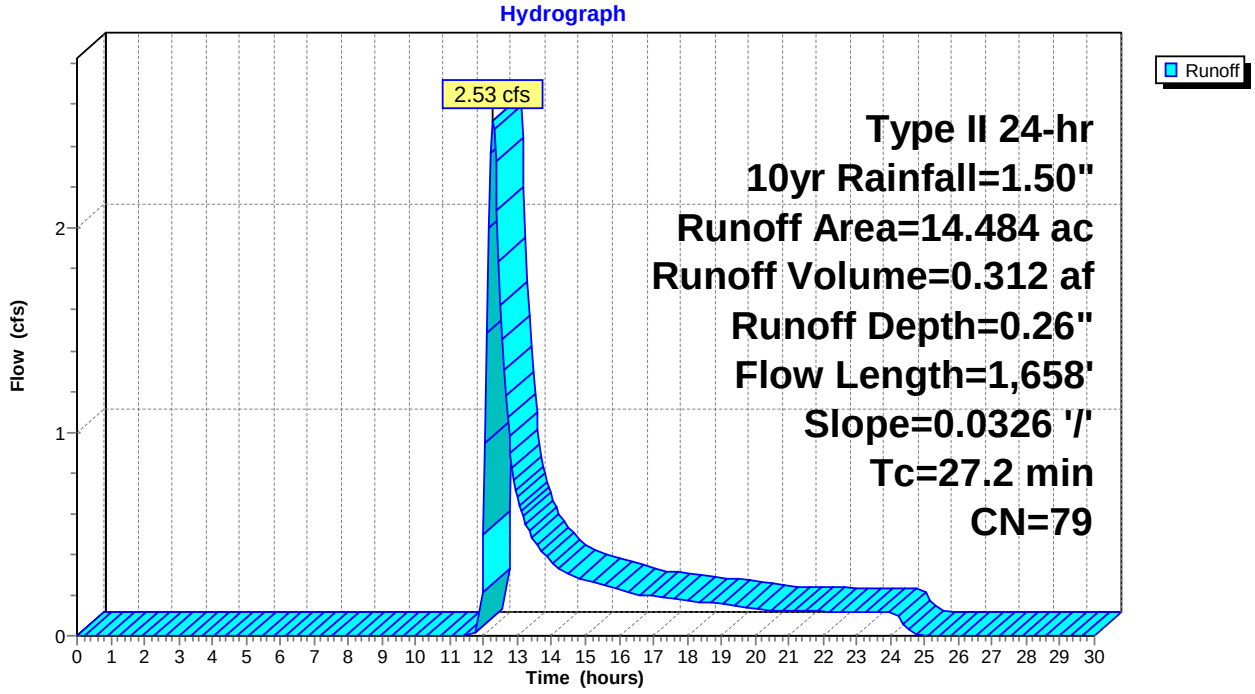
Runoff = 2.53 cfs @ 12.27 hrs, Volume= 0.312 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	14.484	79	
	14.484		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.2	1,658	0.0326	1.02		**Lag/CN Method,**

Subcatchment 126S: DC-115



Summary for Subcatchment 127S: DC-116

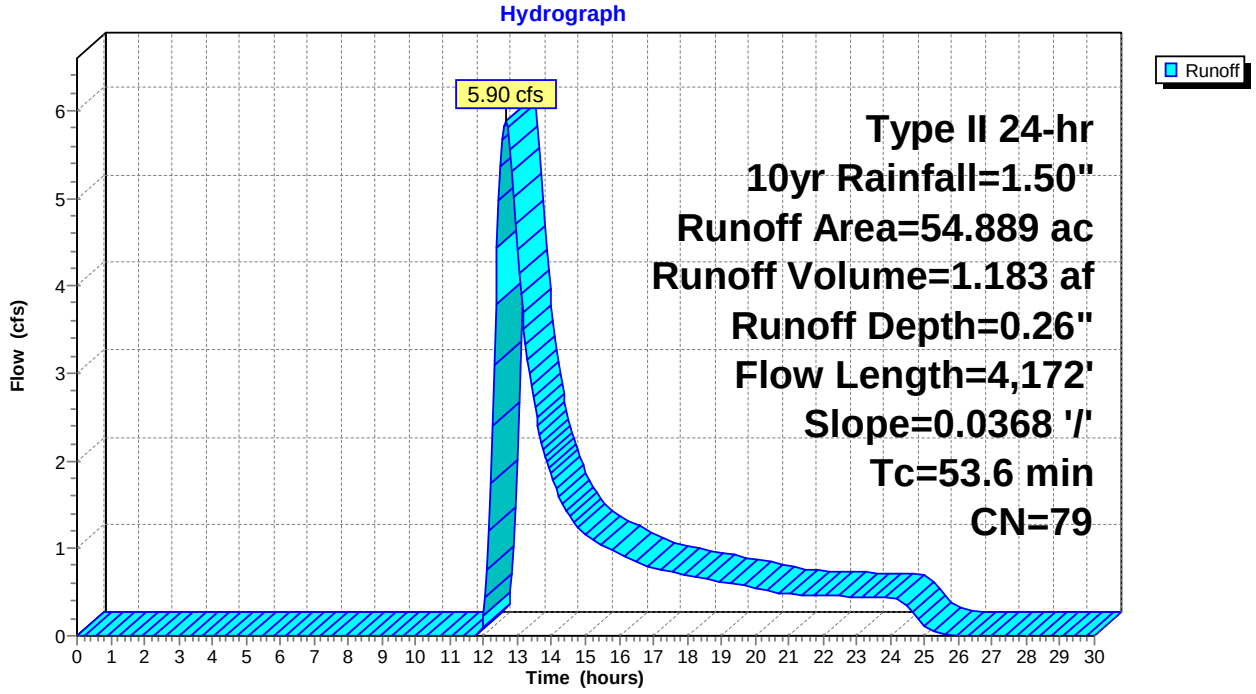
Runoff = 5.90 cfs @ 12.66 hrs, Volume= 1.183 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	54.889	79	
	54.889		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.6	4,172	0.0368	1.30		**Lag/CN Method,**

Subcatchment 127S: DC-116



Summary for Subcatchment 128S: DC-117

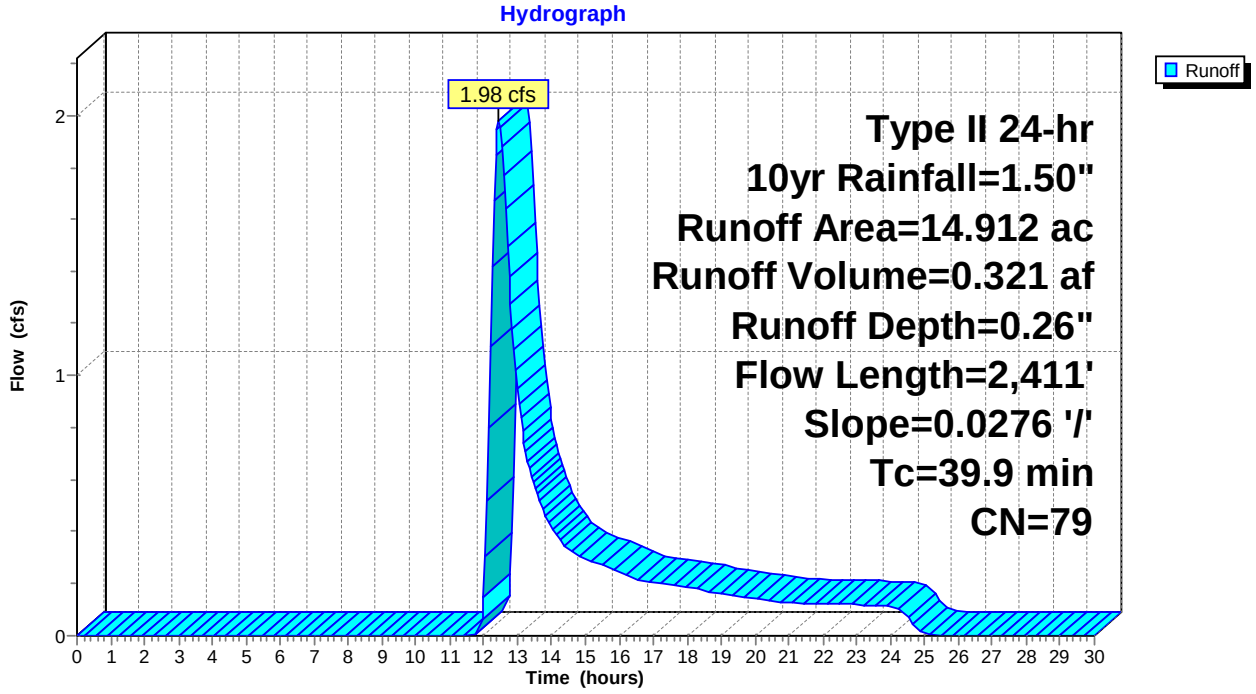
Runoff = 1.98 cfs @ 12.45 hrs, Volume= 0.321 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	14.912	79	
	14.912		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
39.9	2,411	0.0276	1.01		**Lag/CN Method,**

Subcatchment 128S: DC-117



Summary for Subcatchment 129S: DC-123

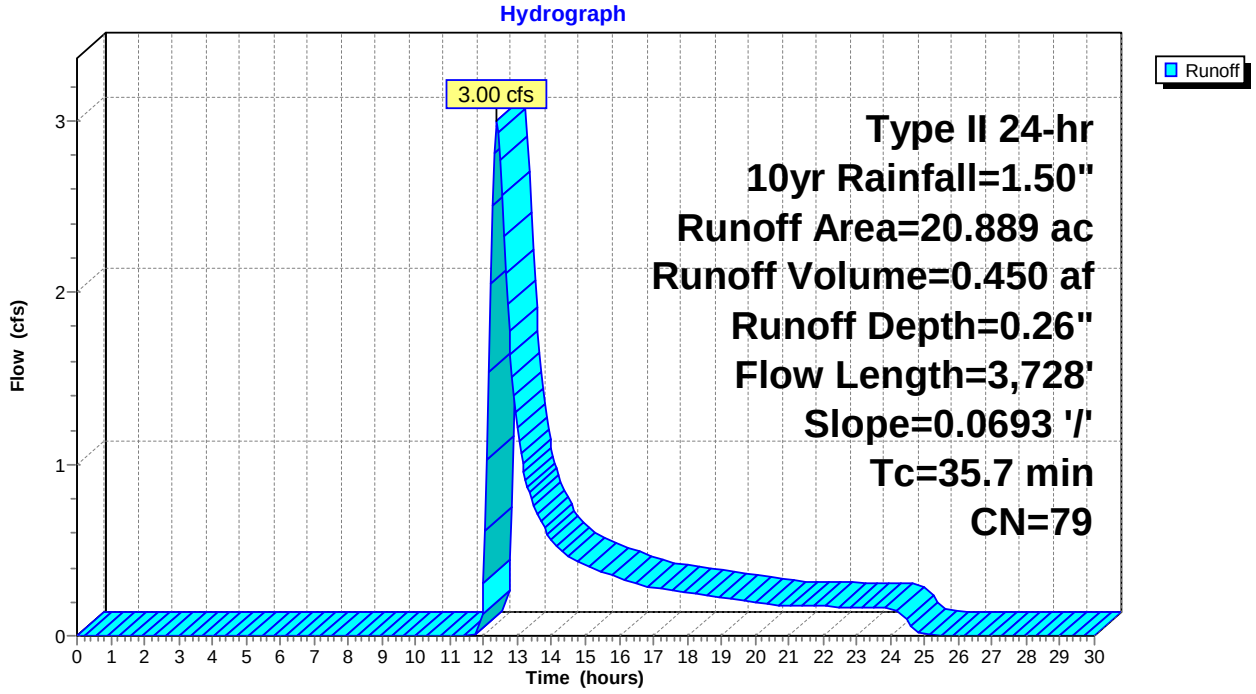
Runoff = 3.00 cfs @ 12.39 hrs, Volume= 0.450 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	20.889	79	
	20.889		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
35.7	3,728	0.0693	1.74		**Lag/CN Method,**

Subcatchment 129S: DC-123



Summary for Subcatchment 130S: DC-124

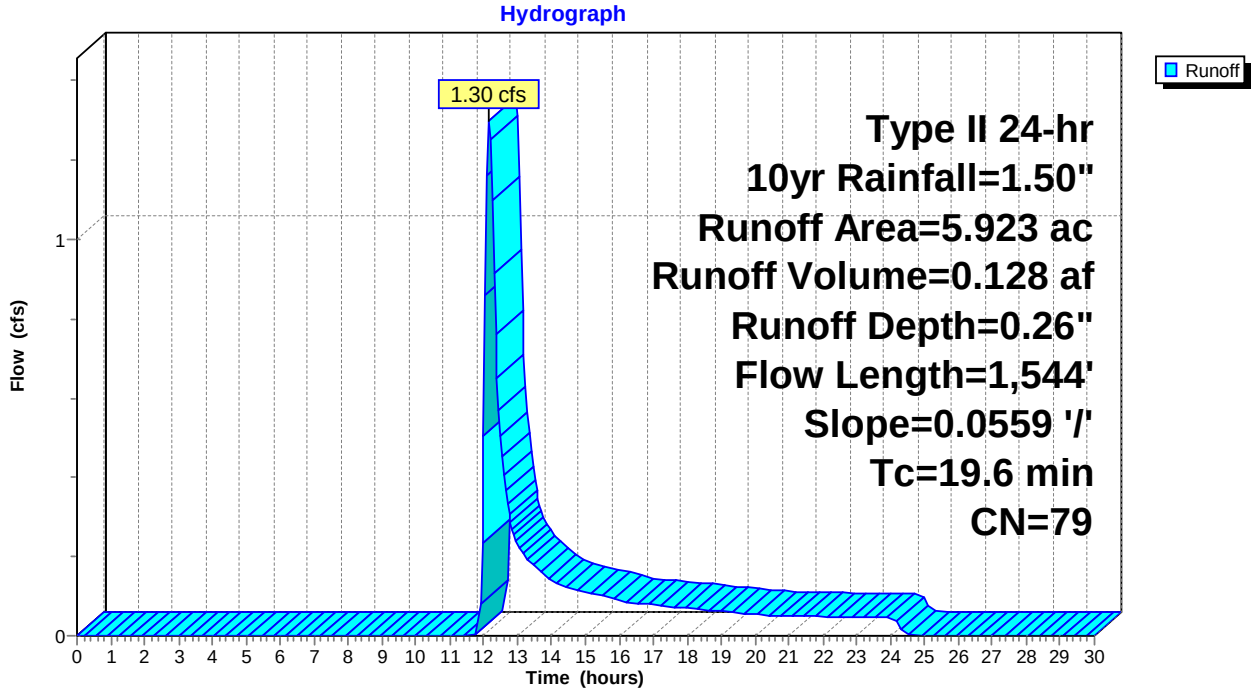
Runoff = 1.30 cfs @ 12.16 hrs, Volume= 0.128 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	5.923	79	
	5.923		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
19.6	1,544	0.0559	1.31		**Lag/CN Method,**

Subcatchment 130S: DC-124



Summary for Subcatchment 131S: DC-125

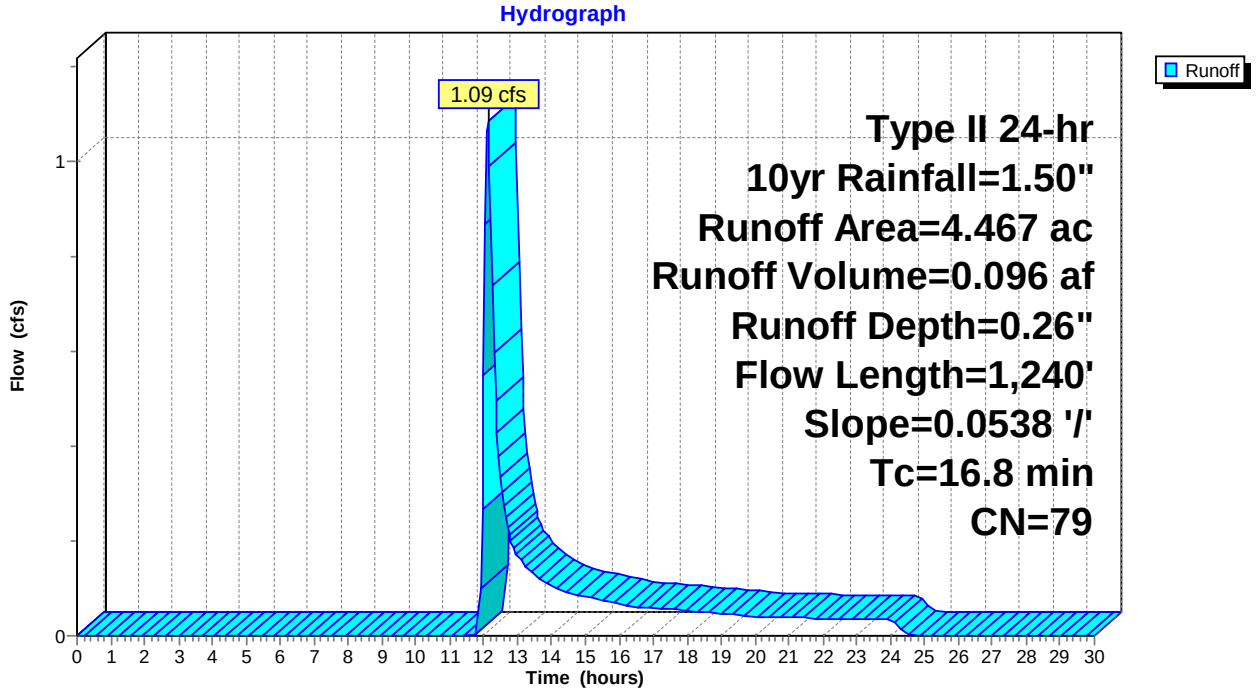
Runoff = 1.09 cfs @ 12.12 hrs, Volume= 0.096 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	4.467	79	
	4.467		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	1,240	0.0538	1.23		**Lag/CN Method,**

Subcatchment 131S: DC-125



Summary for Subcatchment 132S: DC-126

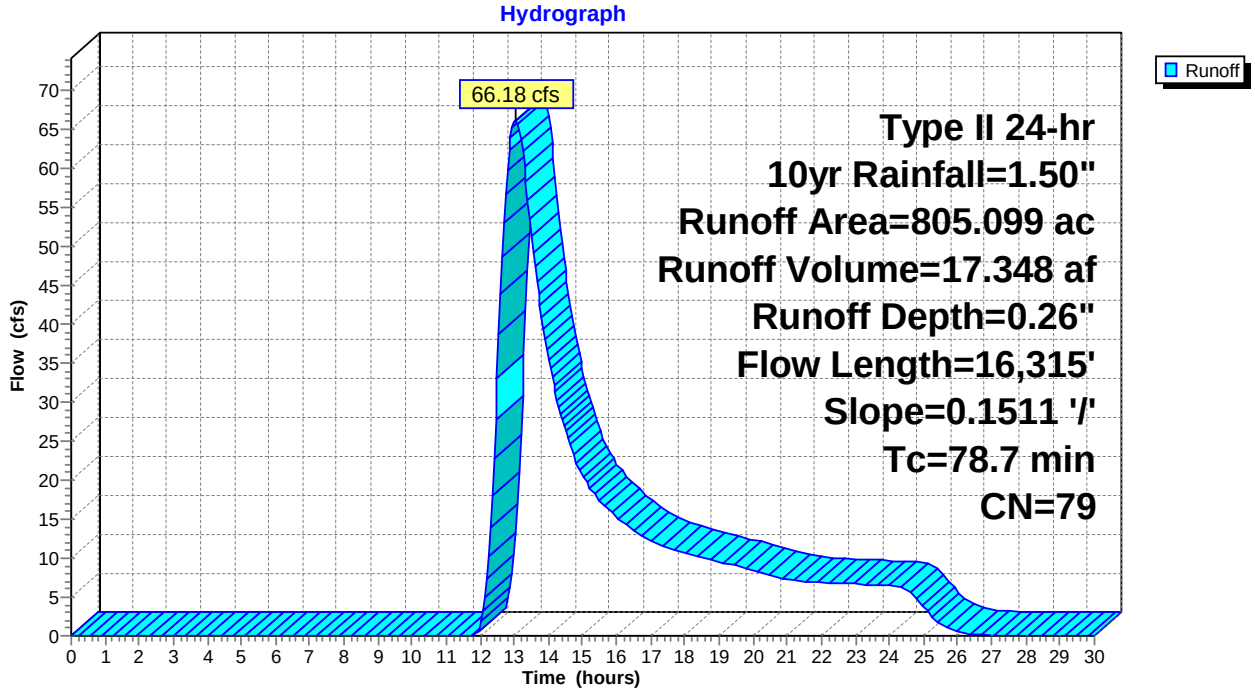
Runoff = 66.18 cfs @ 13.04 hrs, Volume= 17.348 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	805.099	79	
	805.099		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
78.7	16,315	0.1511	3.46		**Lag/CN Method,**

Subcatchment 132S: DC-126



Summary for Subcatchment 133S: DC-127

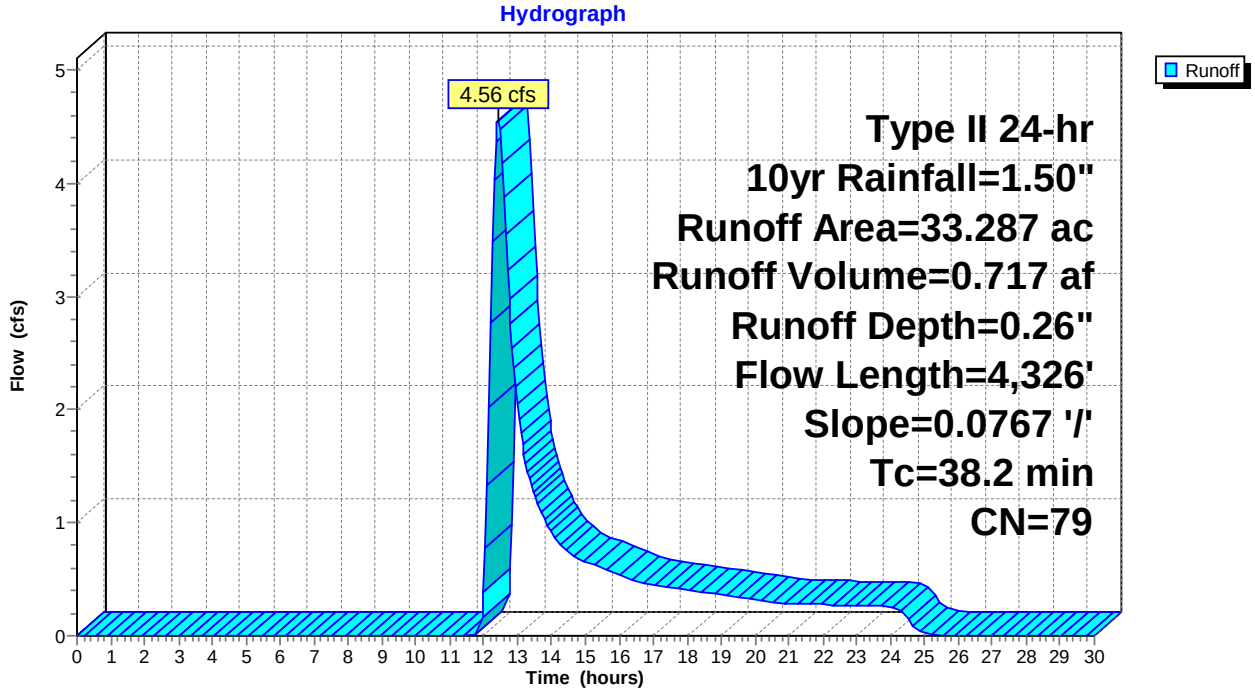
Runoff = 4.56 cfs @ 12.43 hrs, Volume= 0.717 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	33.287	79	
	33.287		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.2	4,326	0.0767	1.89		**Lag/CN Method,**

Subcatchment 133S: DC-127



Summary for Subcatchment 134S: DC-128

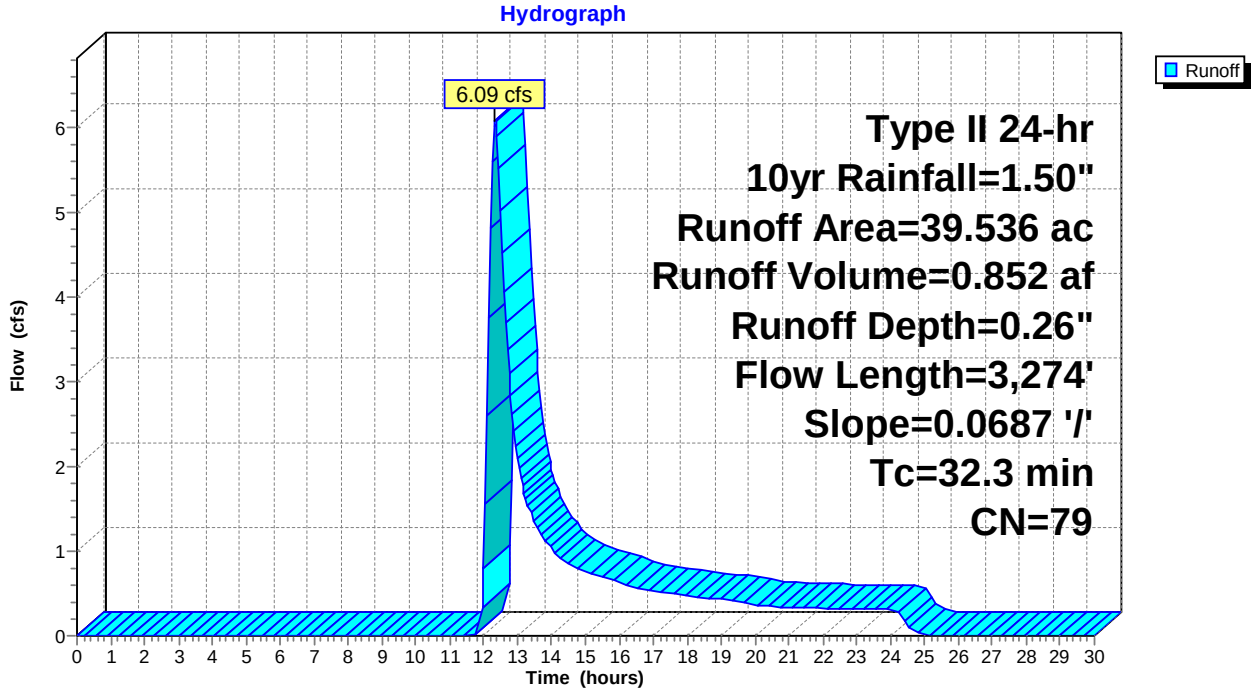
Runoff = 6.09 cfs @ 12.34 hrs, Volume= 0.852 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	39.536	79	
	39.536		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
32.3	3,274	0.0687	1.69		**Lag/CN Method,**

Subcatchment 134S: DC-128



Summary for Subcatchment 135S: DC-129

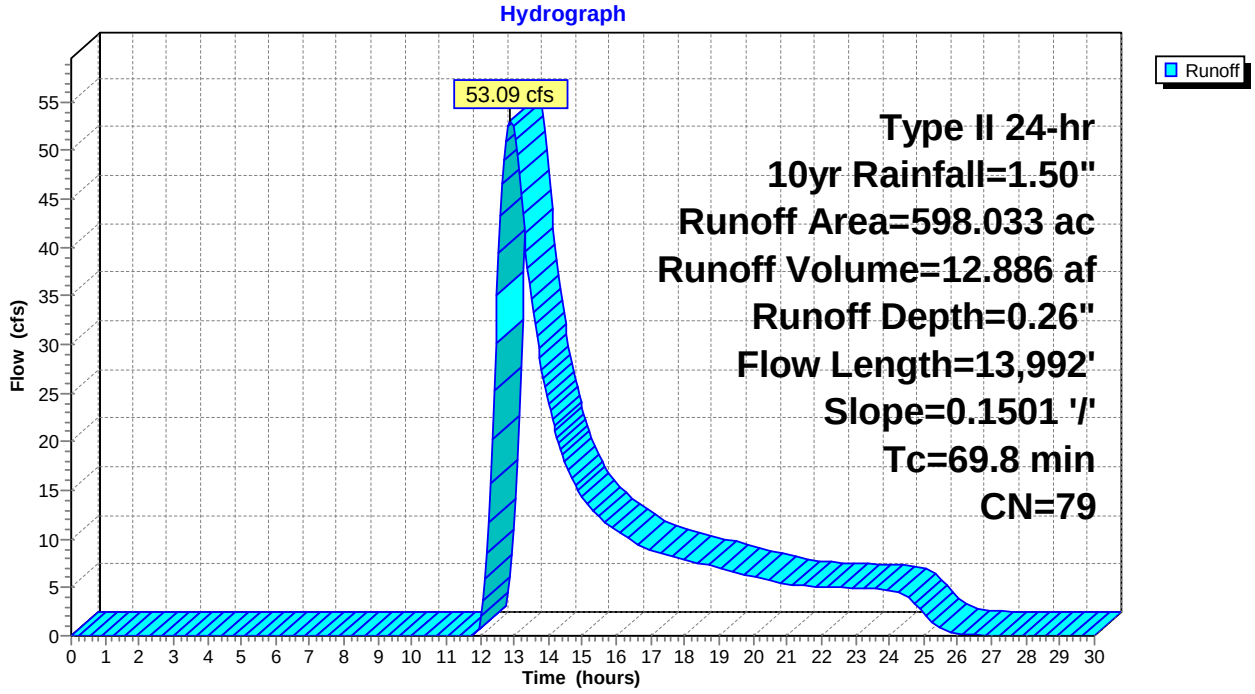
Runoff = 53.09 cfs @ 12.90 hrs, Volume= 12.886 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	598.033	79	
	598.033		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
69.8	13,992	0.1501	3.34		**Lag/CN Method,**

Subcatchment 135S: DC-129



Summary for Subcatchment 136S: DC-130

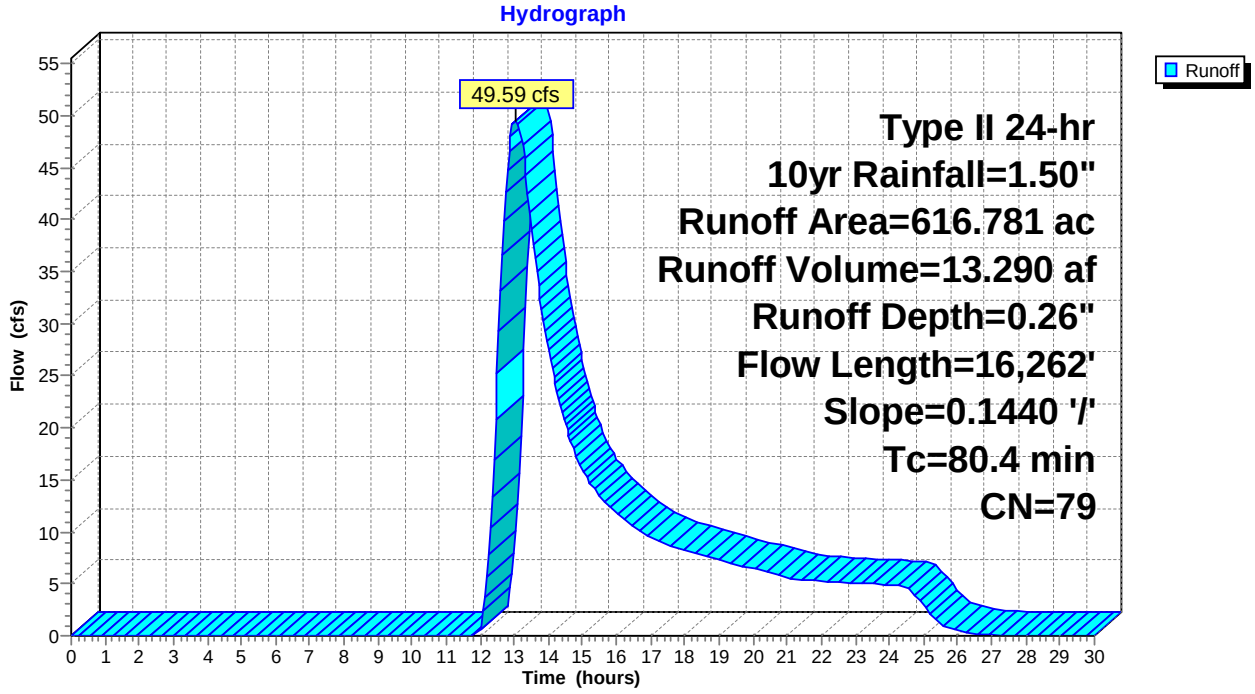
Runoff = 49.59 cfs @ 13.04 hrs, Volume= 13.290 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	616.781	79	
	616.781		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
80.4	16,262	0.1440	3.37		**Lag/CN Method,**

Subcatchment 136S: DC-130



Summary for Subcatchment 137S: DC-131

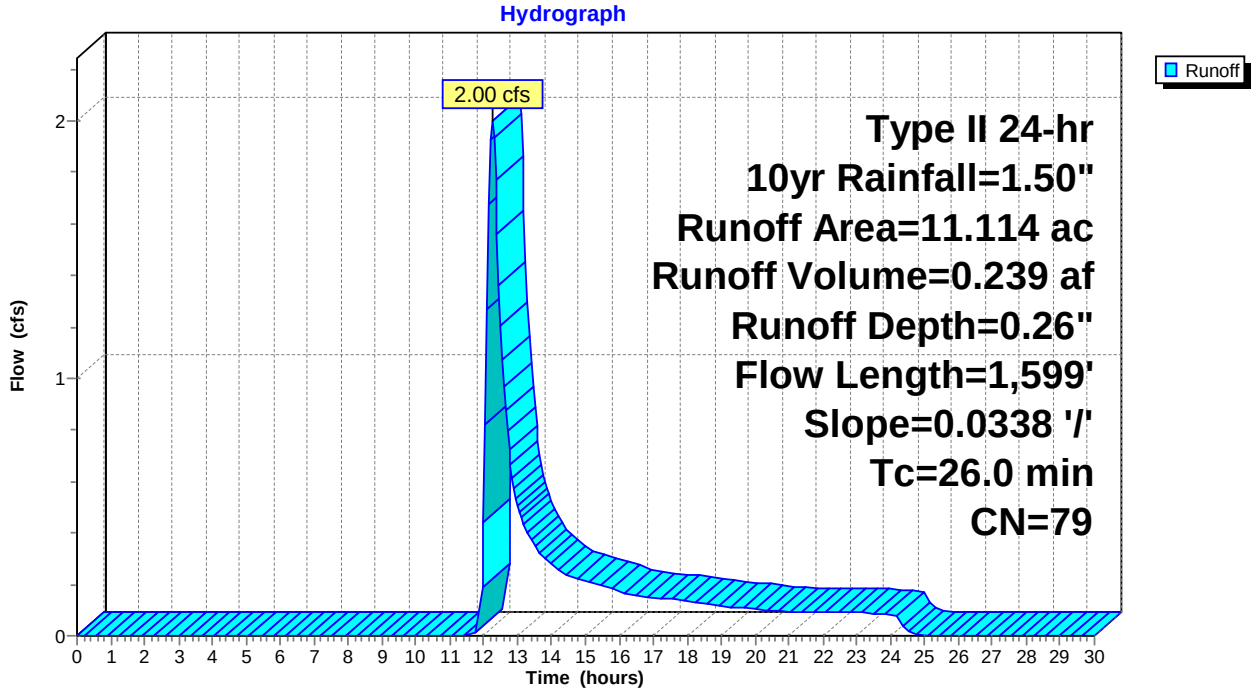
Runoff = 2.00 cfs @ 12.25 hrs, Volume= 0.239 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	11.114	79	
	11.114		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.0	1,599	0.0338	1.03		**Lag/CN Method,**

Subcatchment 137S: DC-131



Summary for Subcatchment 138S: DC-132

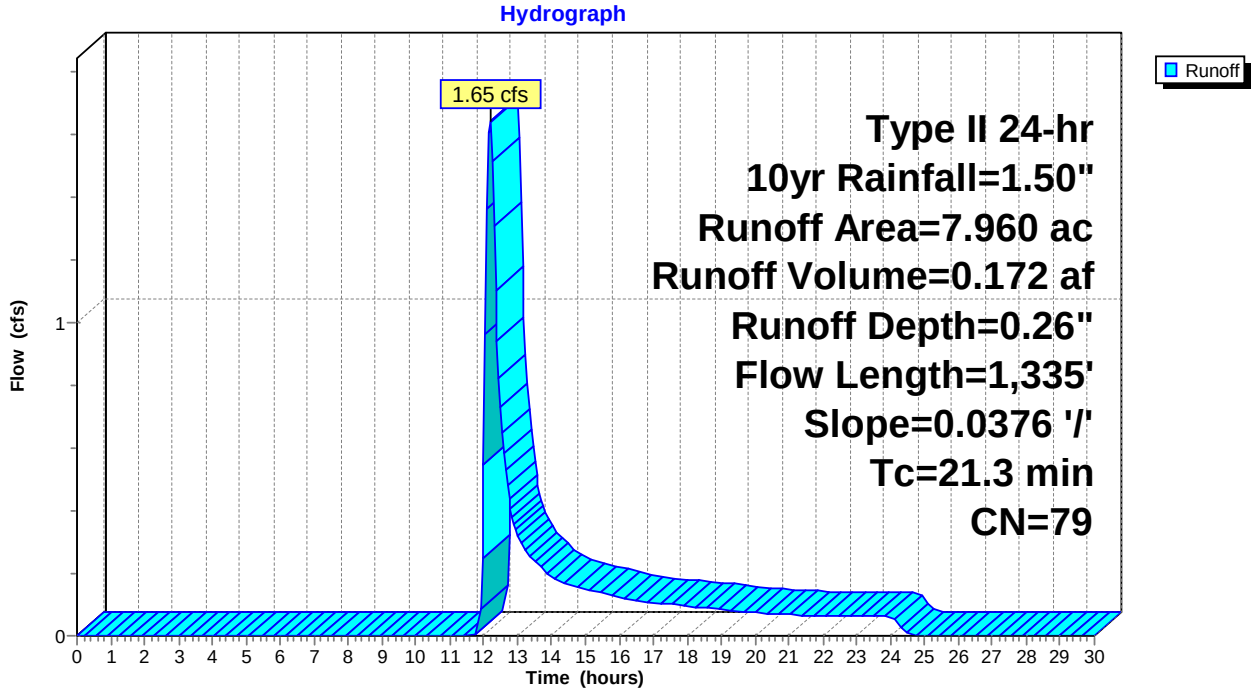
Runoff = 1.65 cfs @ 12.19 hrs, Volume= 0.172 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	7.960	79	
	7.960		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.3	1,335	0.0376	1.04		**Lag/CN Method,**

Subcatchment 138S: DC-132



Summary for Subcatchment 139S: DC-133

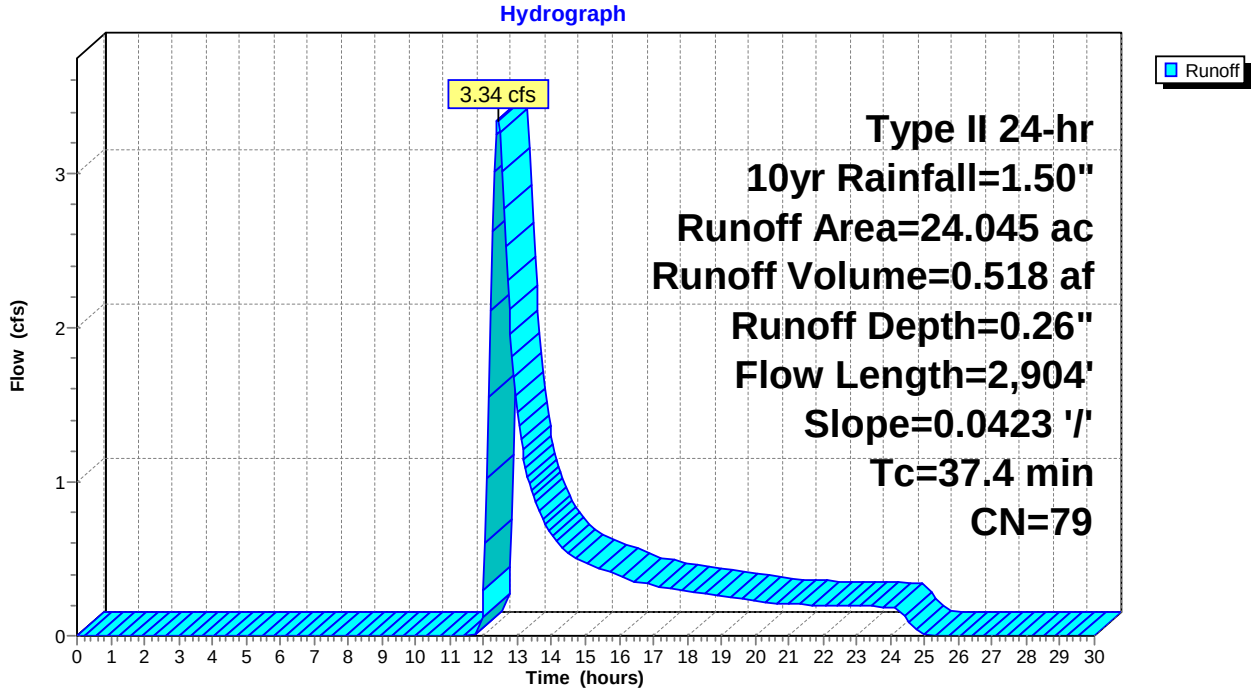
Runoff = 3.34 cfs @ 12.42 hrs, Volume= 0.518 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	24.045	79	
	24.045		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
37.4	2,904	0.0423	1.29		**Lag/CN Method,**

Subcatchment 139S: DC-133



Summary for Subcatchment 140S: DC-134

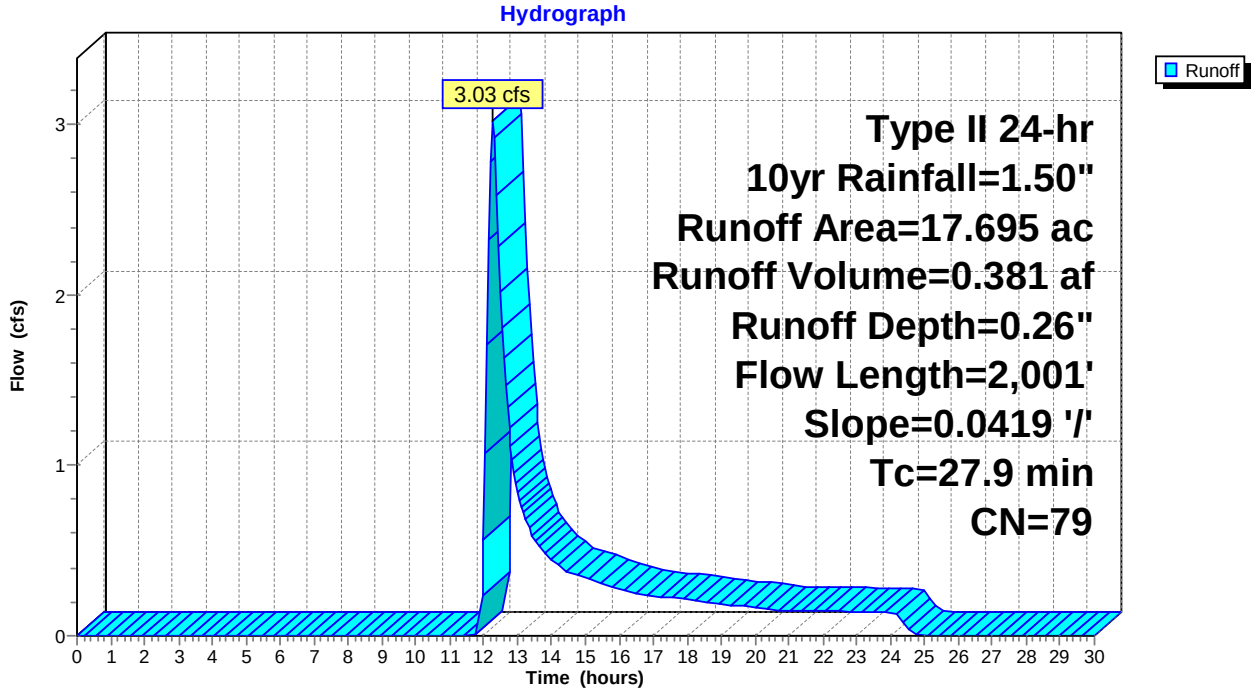
Runoff = 3.03 cfs @ 12.28 hrs, Volume= 0.381 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	17.695	79	
	17.695		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.9	2,001	0.0419	1.20		**Lag/CN Method,**

Subcatchment 140S: DC-134



Summary for Subcatchment 141S: DC-135

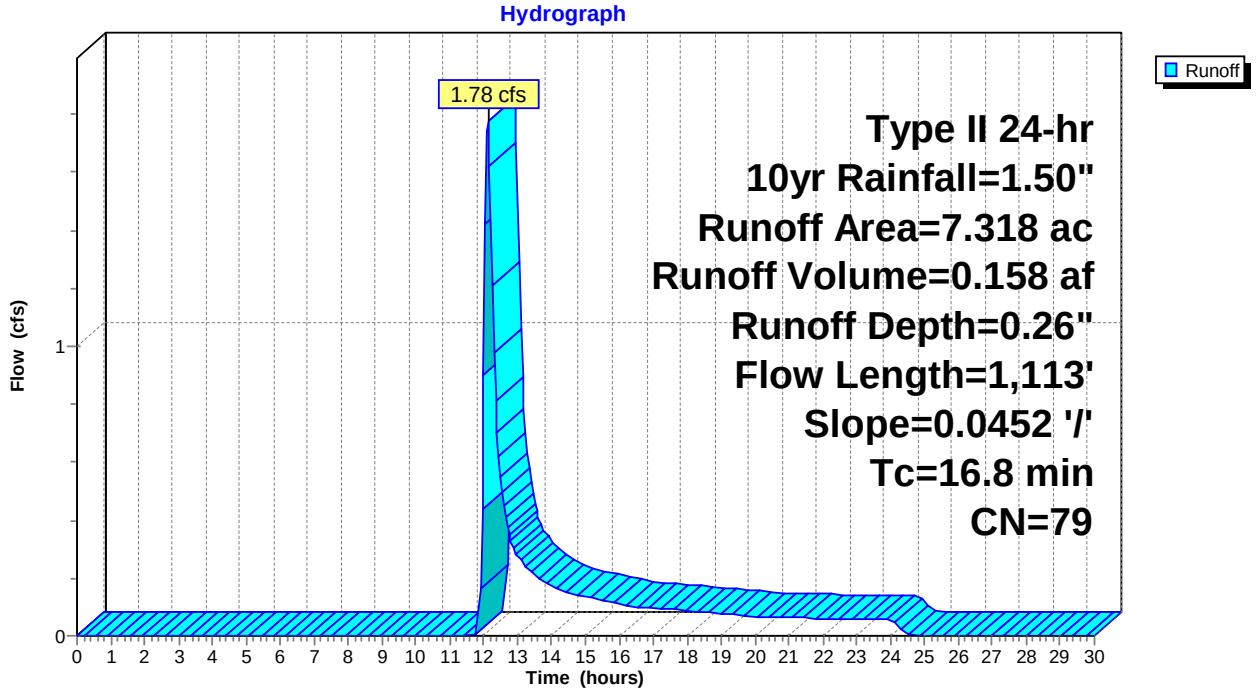
Runoff = 1.78 cfs @ 12.12 hrs, Volume= 0.158 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	7.318	79	
	7.318		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	1,113	0.0452	1.10		**Lag/CN Method,**

Subcatchment 141S: DC-135



Summary for Subcatchment 142S: DC-136

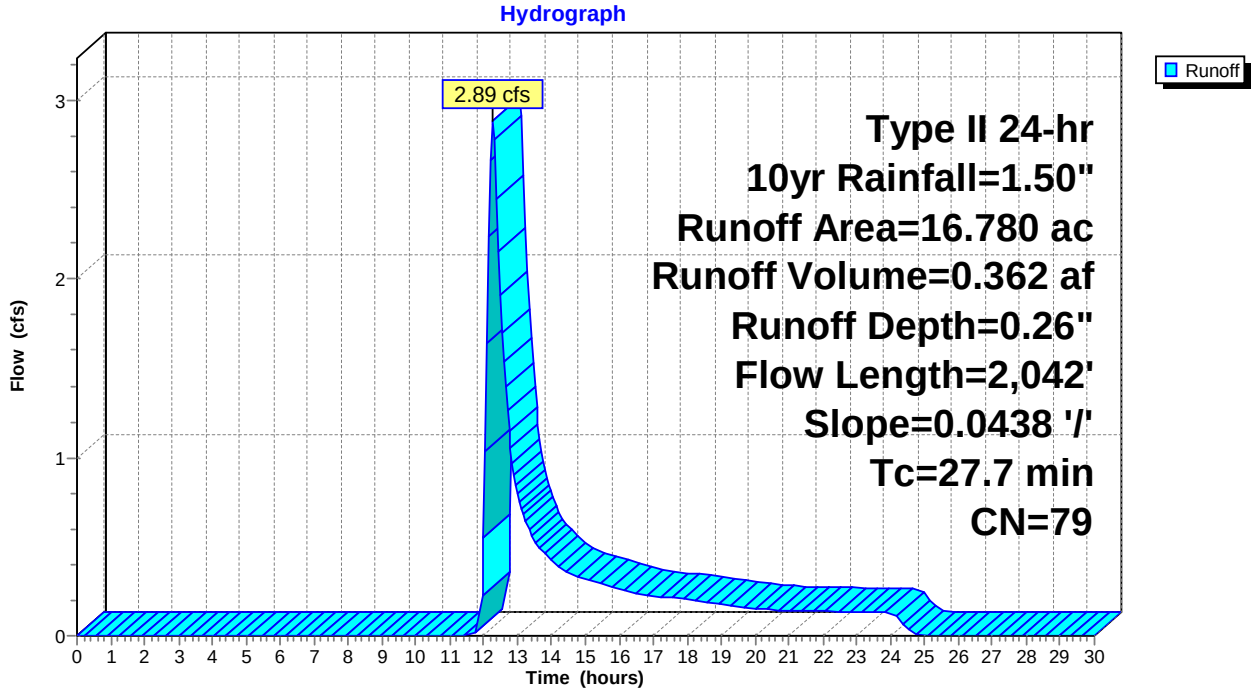
Runoff = 2.89 cfs @ 12.27 hrs, Volume= 0.362 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	16.780	79	
	16.780		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.7	2,042	0.0438	1.23		**Lag/CN Method,**

Subcatchment 142S: DC-136



Summary for Subcatchment 143S: DC-137

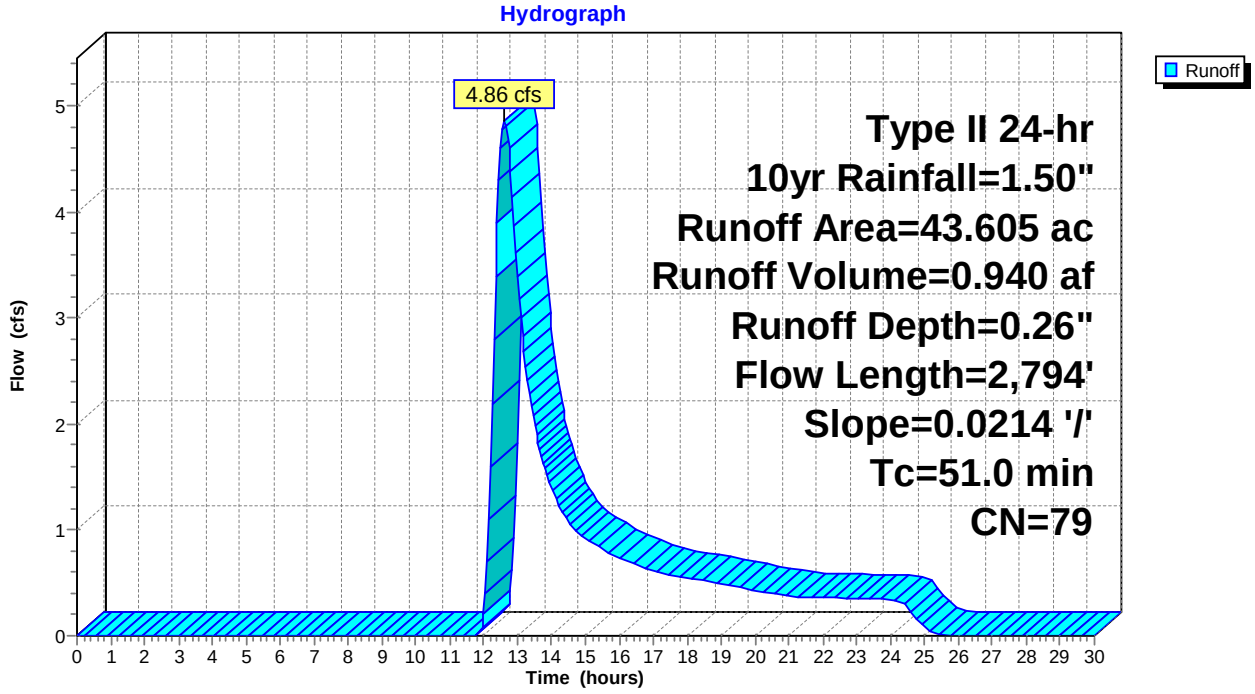
Runoff = 4.86 cfs @ 12.63 hrs, Volume= 0.940 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	43.605	79	
	43.605		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
51.0	2,794	0.0214	0.91		**Lag/CN Method,**

Subcatchment 143S: DC-137



Summary for Subcatchment 144S: DC-138

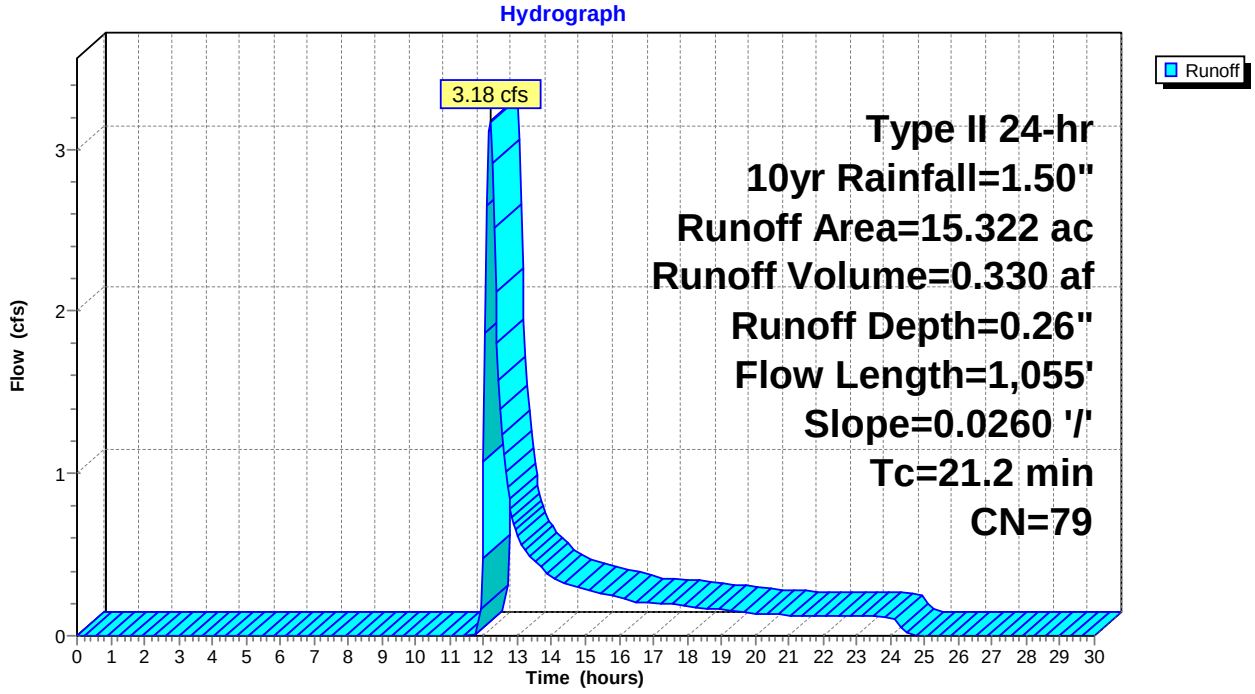
Runoff = 3.18 cfs @ 12.18 hrs, Volume= 0.330 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	15.322	79	
	15.322		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.2	1,055	0.0260	0.83		**Lag/CN Method,**

Subcatchment 144S: DC-138



Summary for Subcatchment 145S: DC-141

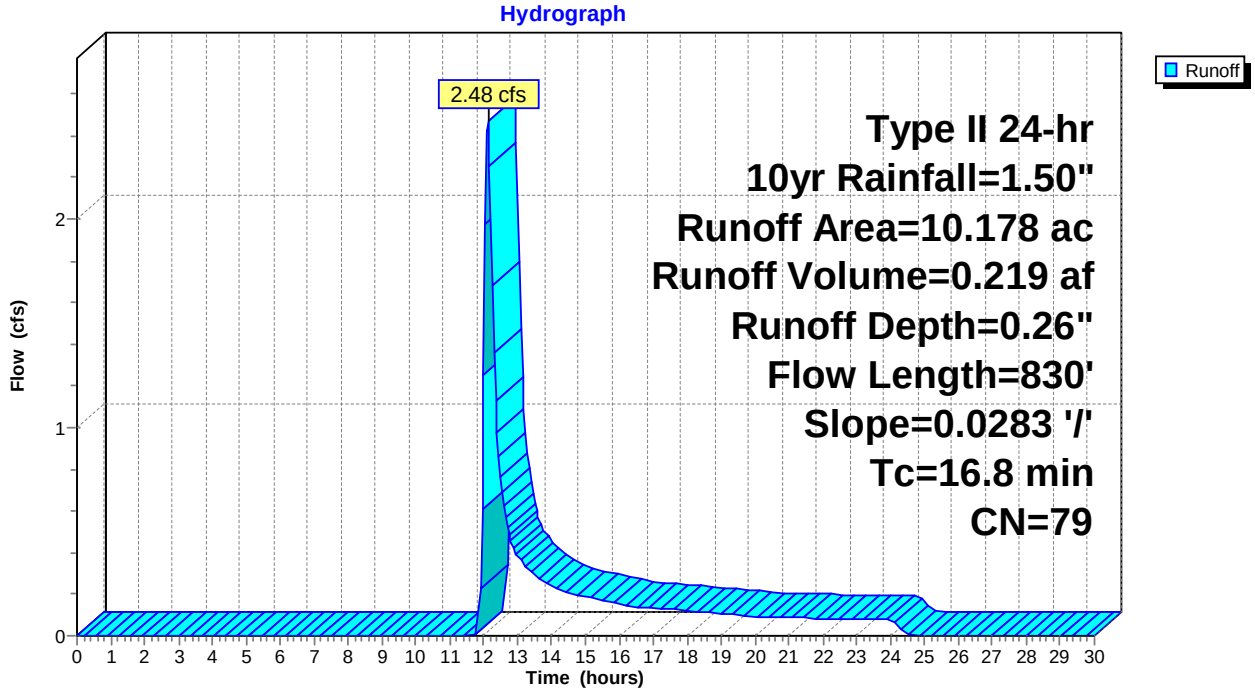
Runoff = 2.48 cfs @ 12.12 hrs, Volume= 0.219 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	10.178	79	
	10.178		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.8	830	0.0283	0.82		**Lag/CN Method,**

Subcatchment 145S: DC-141



Summary for Subcatchment 146S: DC-142

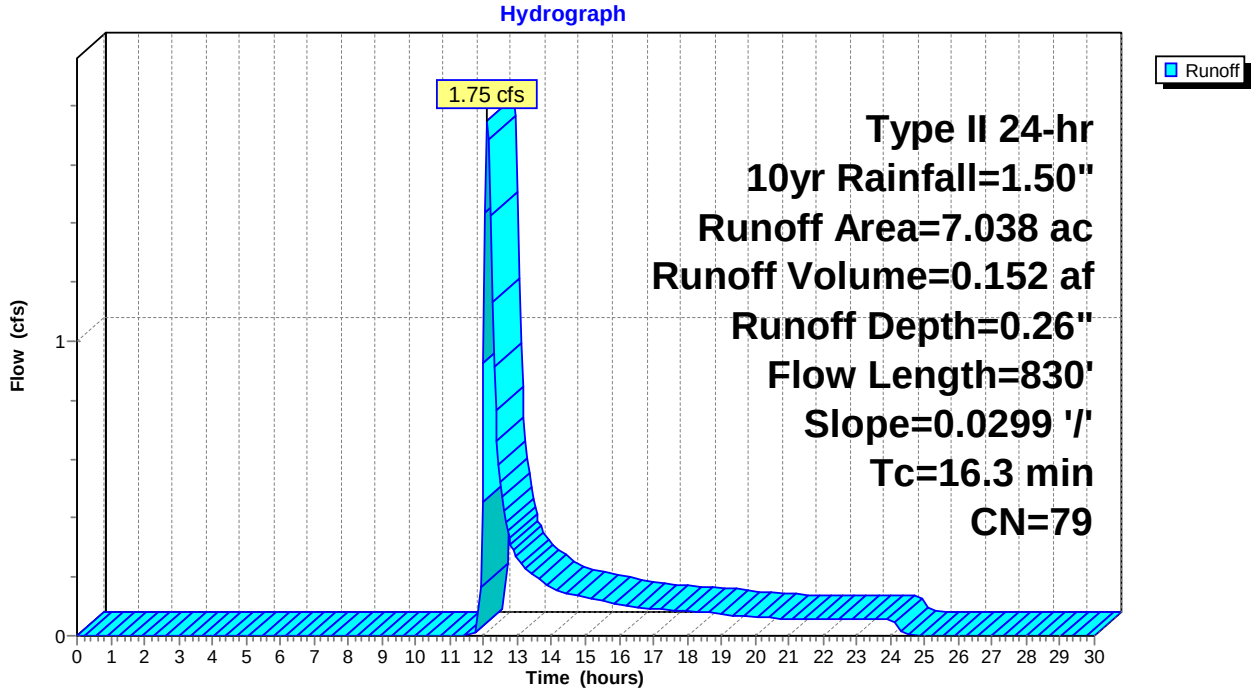
Runoff = 1.75 cfs @ 12.12 hrs, Volume= 0.152 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	7.038	79	
	7.038		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.3	830	0.0299	0.85		**Lag/CN Method,**

Subcatchment 146S: DC-142



Summary for Subcatchment 147S: DC-143

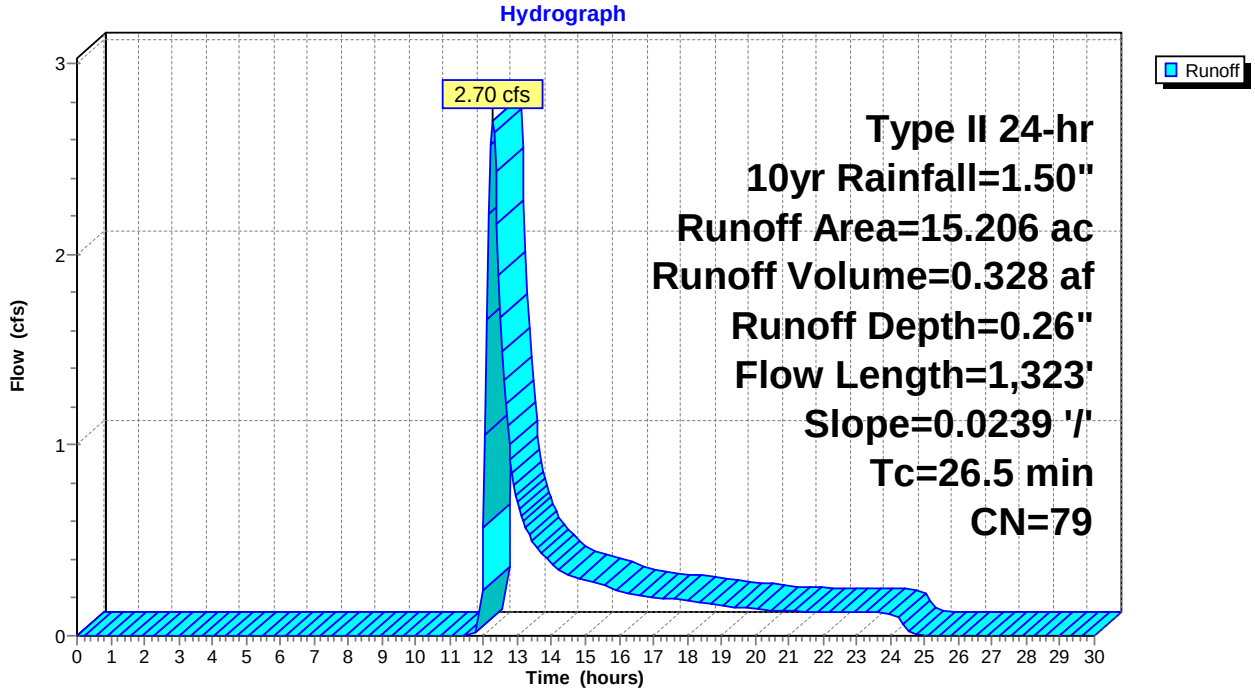
Runoff = 2.70 cfs @ 12.26 hrs, Volume= 0.328 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	15.206	79	
	15.206		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
26.5	1,323	0.0239	0.83		**Lag/CN Method,**

Subcatchment 147S: DC-143



Summary for Subcatchment 148S: DC-144

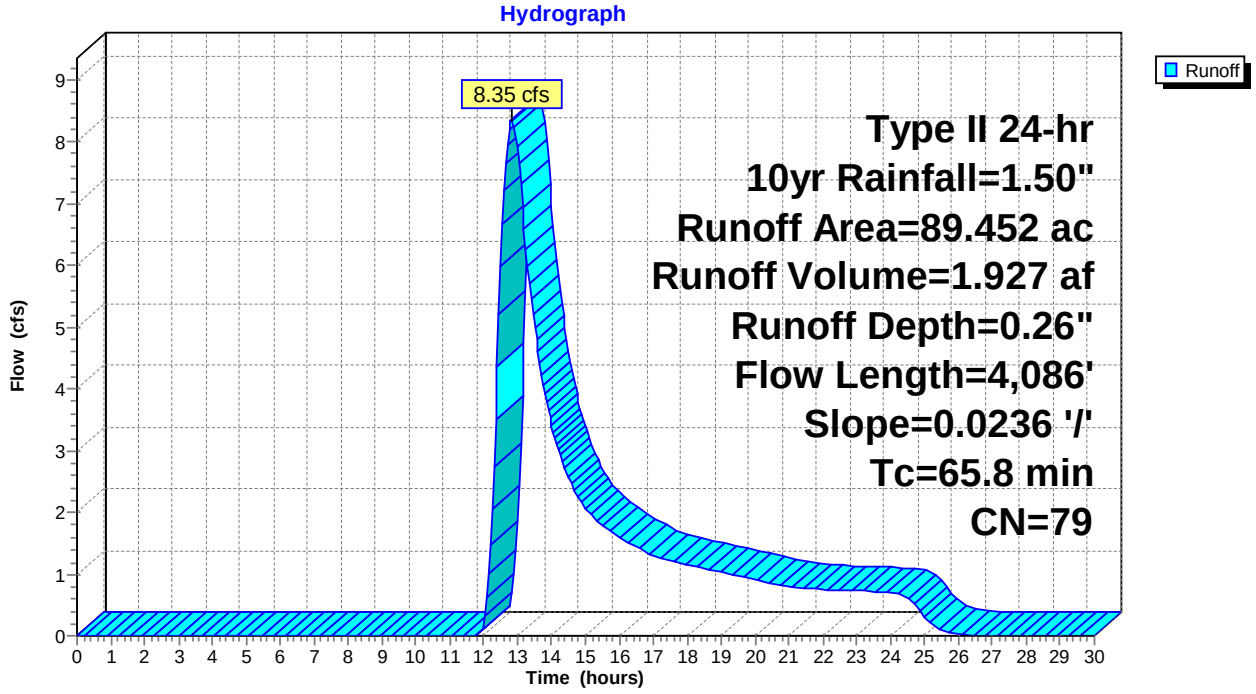
Runoff = 8.35 cfs @ 12.82 hrs, Volume= 1.927 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	89.452	79	
	89.452		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
65.8	4,086	0.0236	1.04		**Lag/CN Method,**

Subcatchment 148S: DC-144



Summary for Subcatchment 149S: DC-145

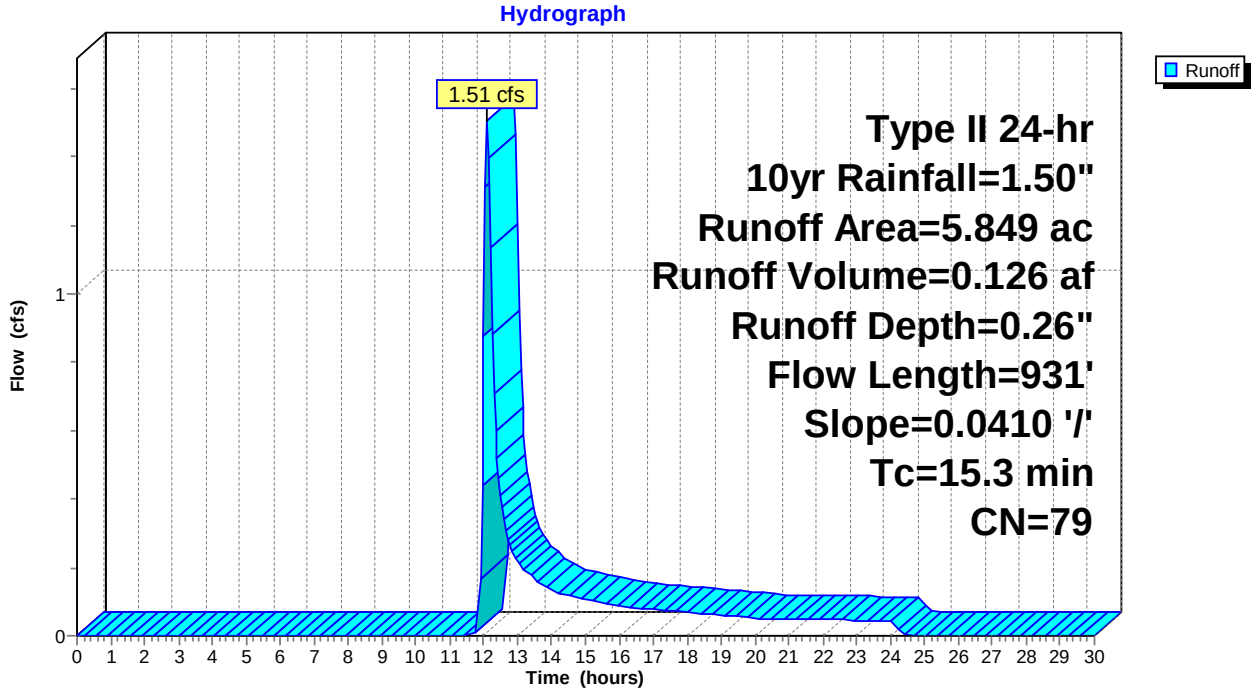
Runoff = 1.51 cfs @ 12.11 hrs, Volume= 0.126 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	5.849	79	
	5.849		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.3	931	0.0410	1.02		**Lag/CN Method,**

Subcatchment 149S: DC-145



Summary for Subcatchment 150S: DC-146

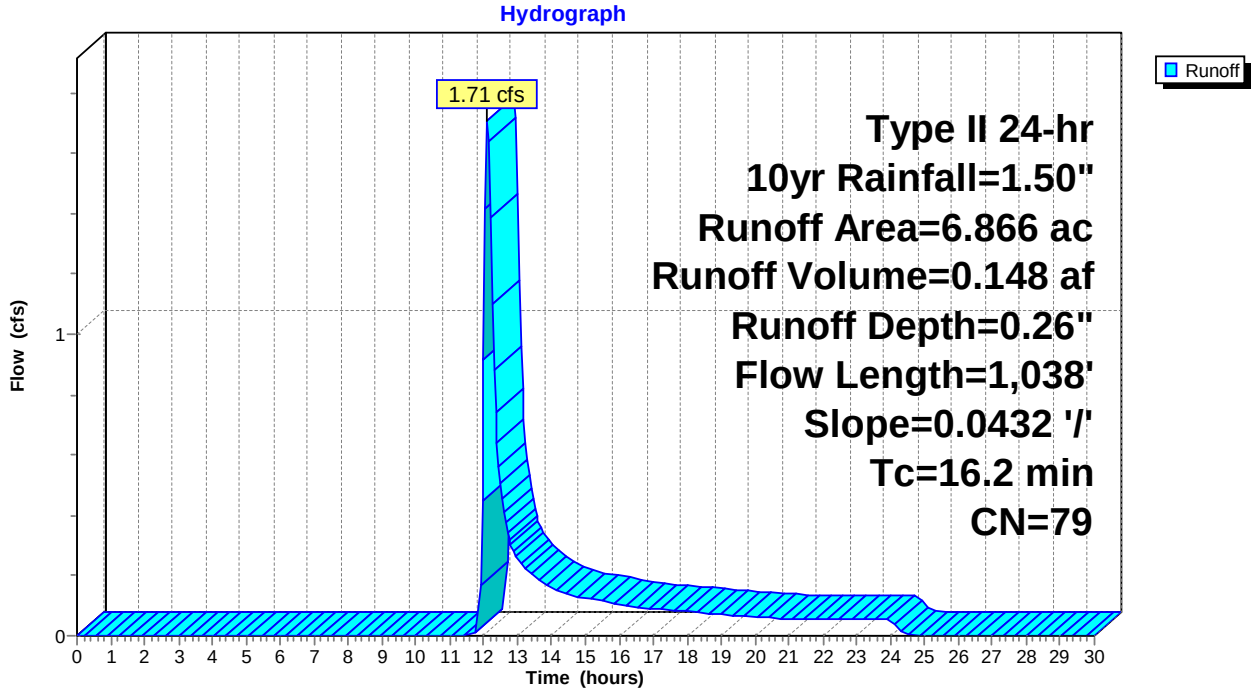
Runoff = 1.71 cfs @ 12.12 hrs, Volume= 0.148 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	6.866	79	
	6.866		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.2	1,038	0.0432	1.06		**Lag/CN Method,**

Subcatchment 150S: DC-146



Summary for Subcatchment 151S: DC-147

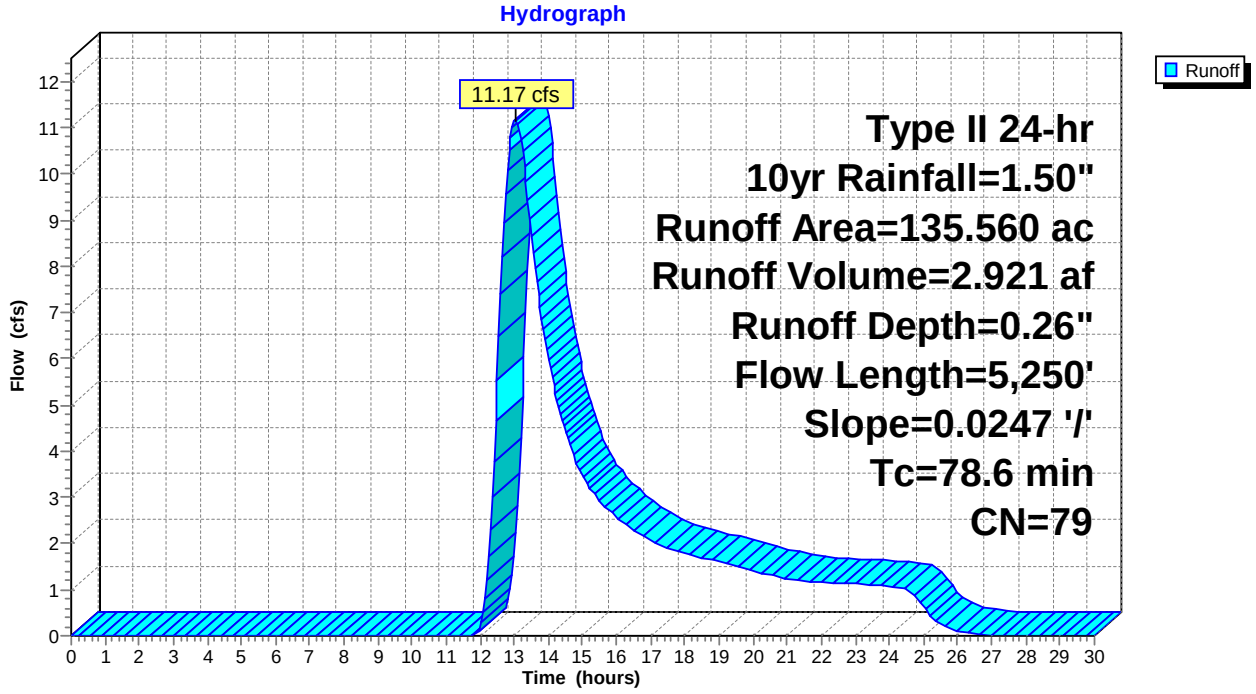
Runoff = 11.17 cfs @ 13.03 hrs, Volume= 2.921 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	135.560	79	
	135.560		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
78.6	5,250	0.0247	1.11		**Lag/CN Method,**

Subcatchment 151S: DC-147



Summary for Subcatchment 152S: DC-149

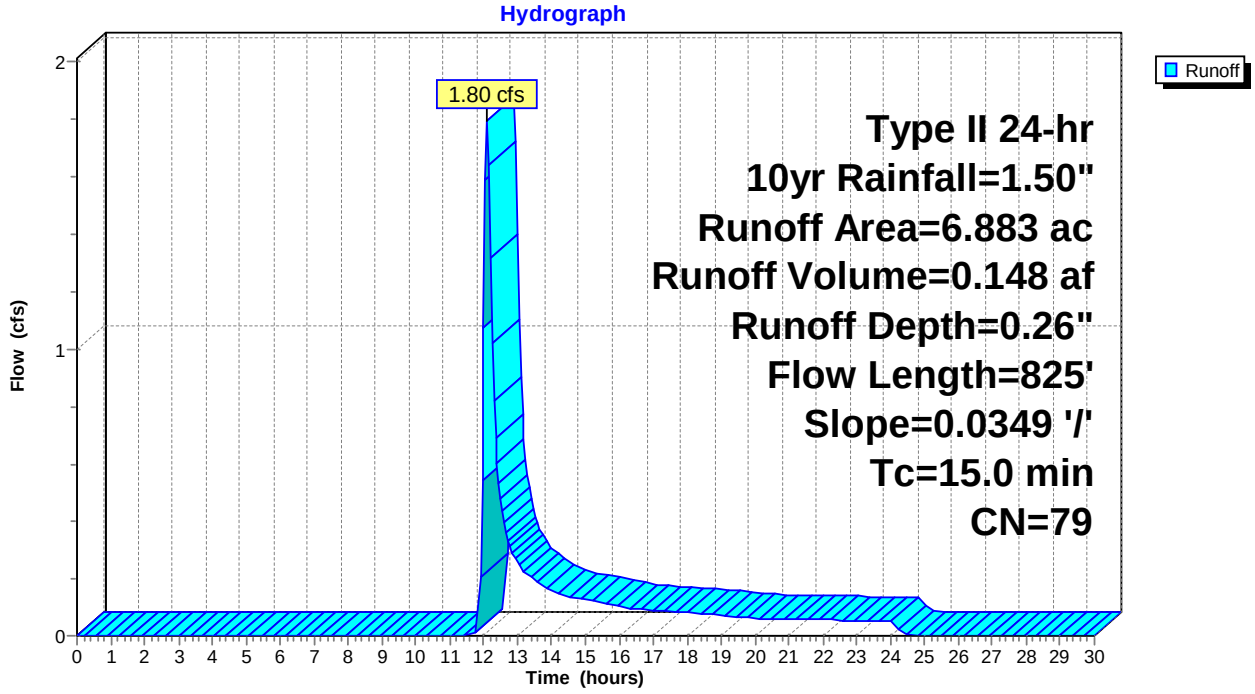
Runoff = 1.80 cfs @ 12.10 hrs, Volume= 0.148 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	6.883	79	
	6.883		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.0	825	0.0349	0.91		**Lag/CN Method,**

Subcatchment 152S: DC-149



Summary for Subcatchment 153S: DC-150

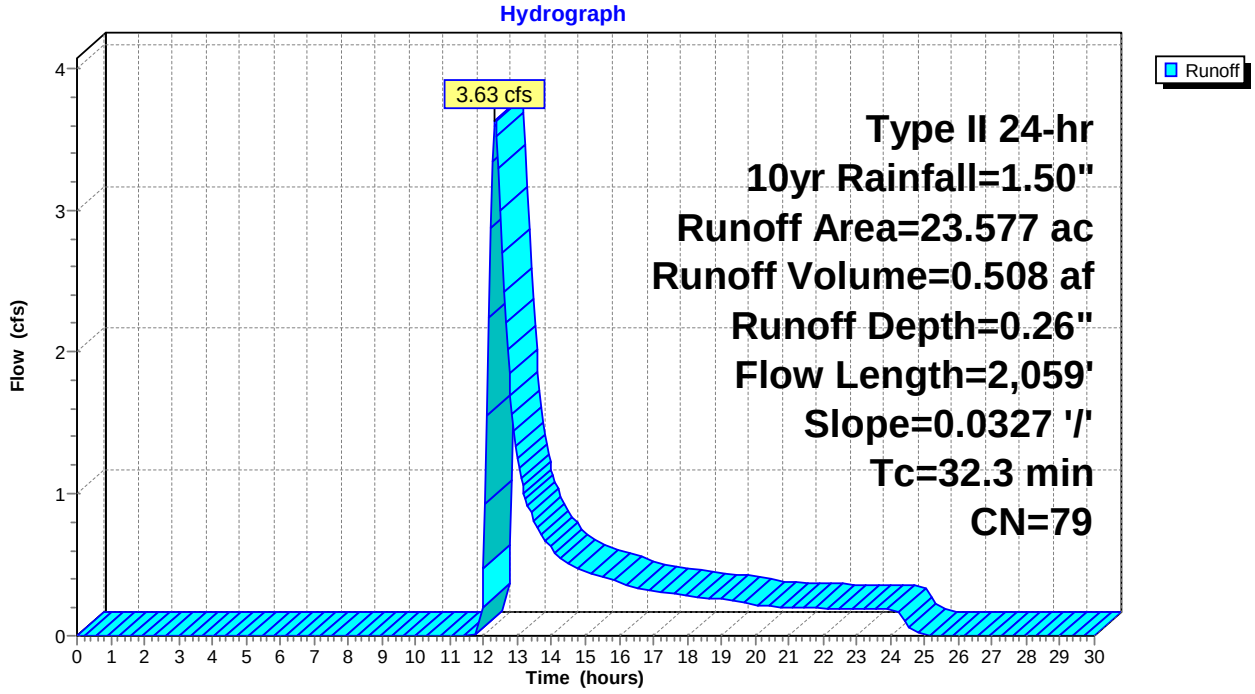
Runoff = 3.63 cfs @ 12.34 hrs, Volume= 0.508 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	23.577	79	
	23.577		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
32.3	2,059	0.0327	1.06		**Lag/CN Method,**

Subcatchment 153S: DC-150



Summary for Subcatchment 154S: DC-151

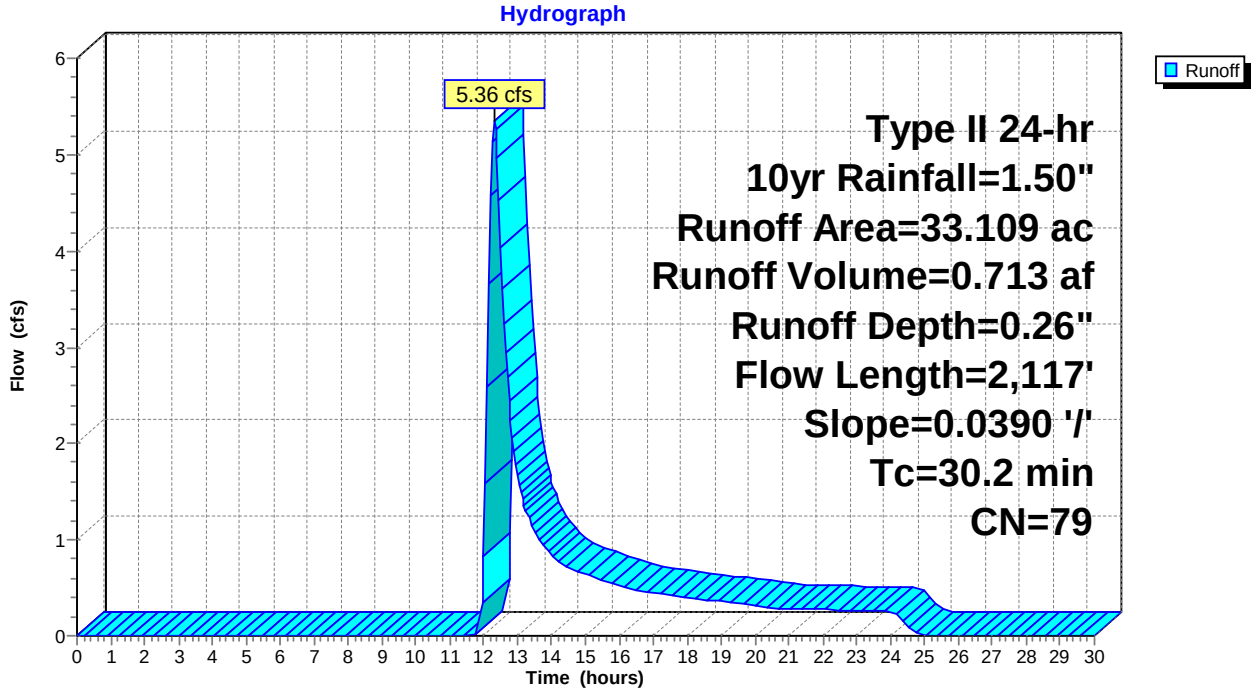
Runoff = 5.36 cfs @ 12.31 hrs, Volume= 0.713 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	33.109	79	
	33.109		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
30.2	2,117	0.0390	1.17		**Lag/CN Method,**

Subcatchment 154S: DC-151



Summary for Subcatchment 155S: DC-152

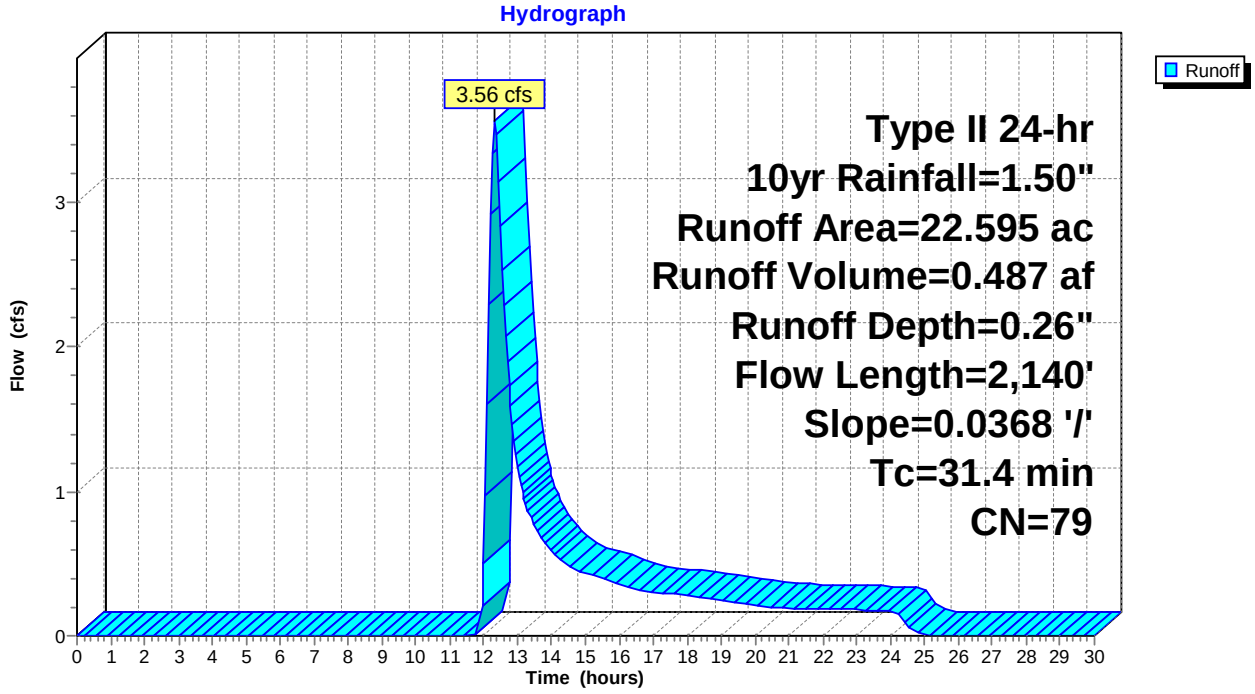
Runoff = 3.56 cfs @ 12.32 hrs, Volume= 0.487 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	22.595	79	
	22.595		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
31.4	2,140	0.0368	1.14		**Lag/CN Method,**

Subcatchment 155S: DC-152



Summary for Subcatchment 156S: DC-153

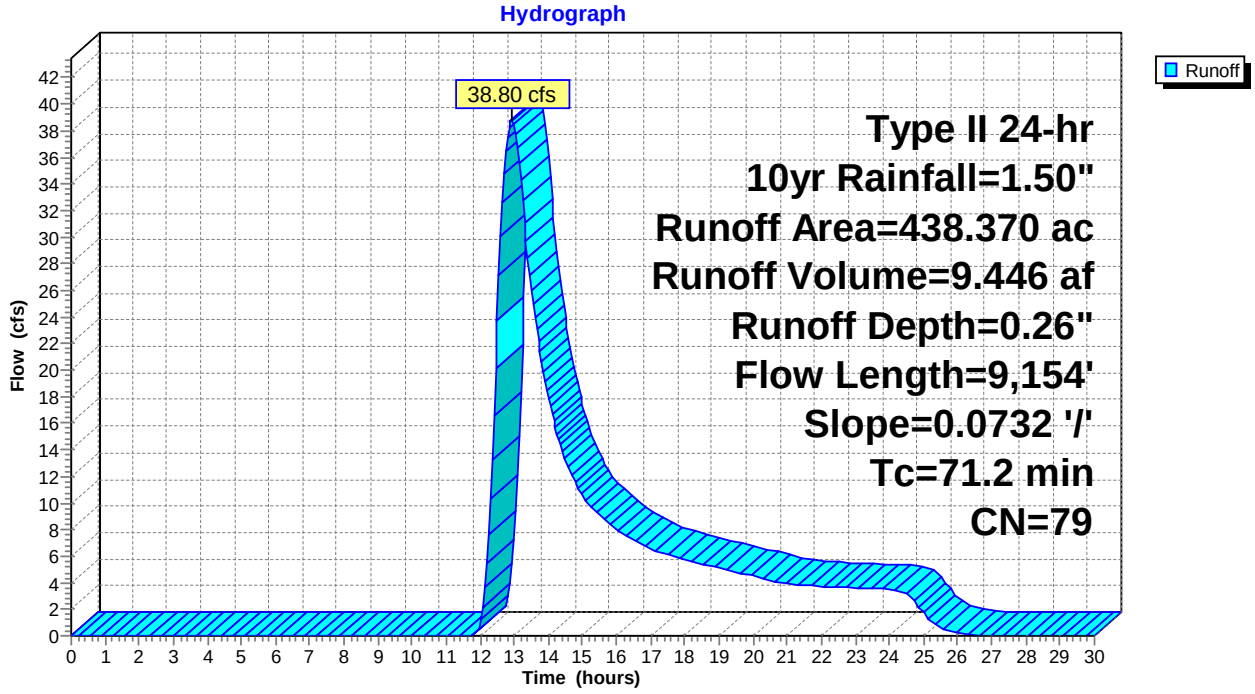
Runoff = 38.80 cfs @ 12.92 hrs, Volume= 9.446 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	438.370	79	
	438.370		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
71.2	9,154	0.0732	2.14		**Lag/CN Method,**

Subcatchment 156S: DC-153



Summary for Subcatchment 157S: DC-154

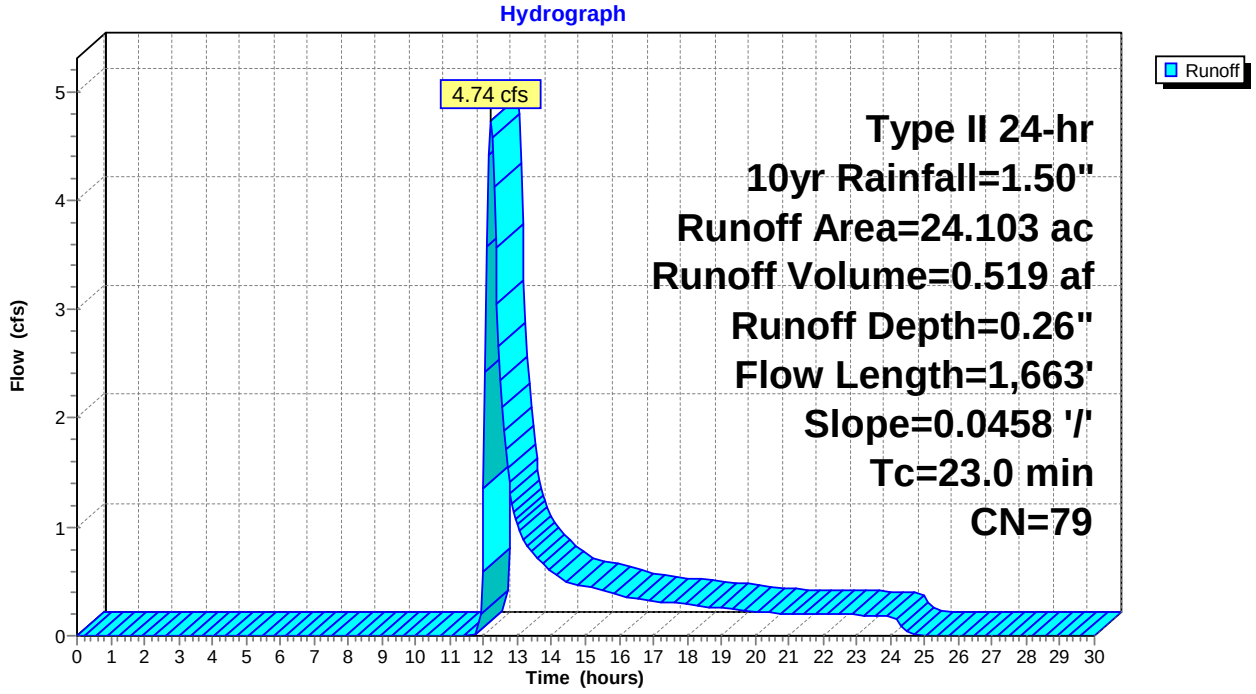
Runoff = 4.74 cfs @ 12.21 hrs, Volume= 0.519 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	24.103	79	
	24.103		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.0	1,663	0.0458	1.20		**Lag/CN Method,**

Subcatchment 157S: DC-154



Summary for Subcatchment 158S: DC-155

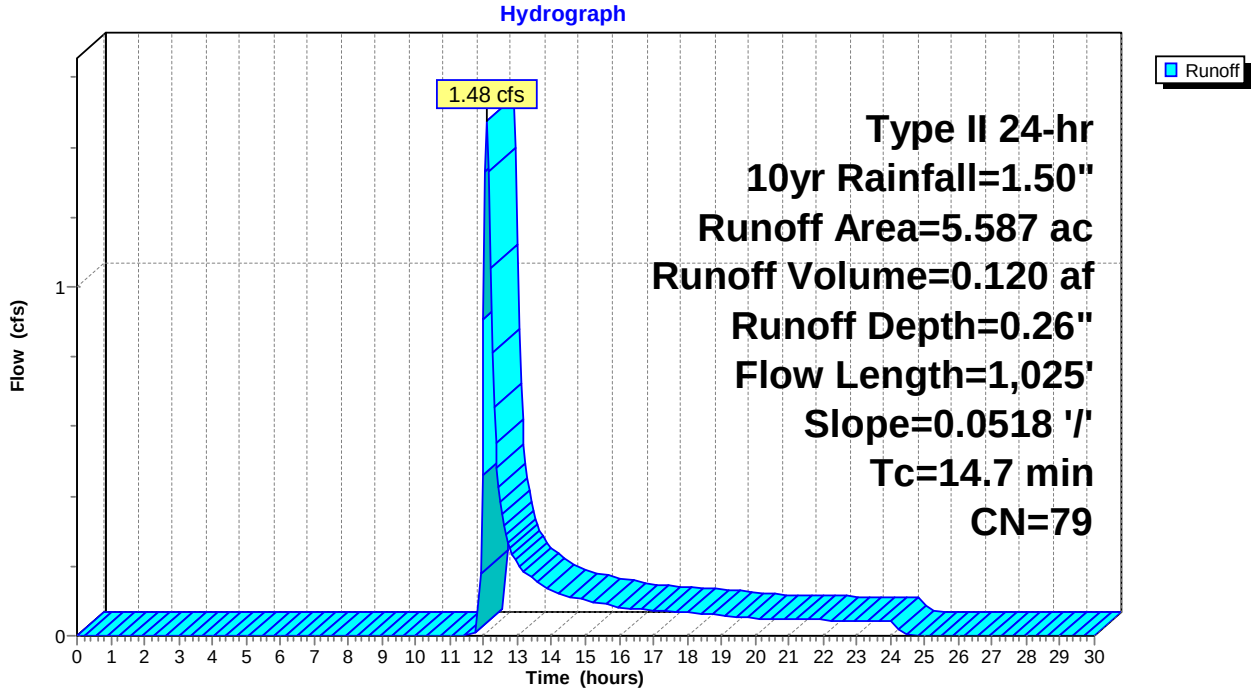
Runoff = 1.48 cfs @ 12.10 hrs, Volume= 0.120 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	5.587	79	
	5.587		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.7	1,025	0.0518	1.16		**Lag/CN Method,**

Subcatchment 158S: DC-155



Summary for Subcatchment 159S: DC-157

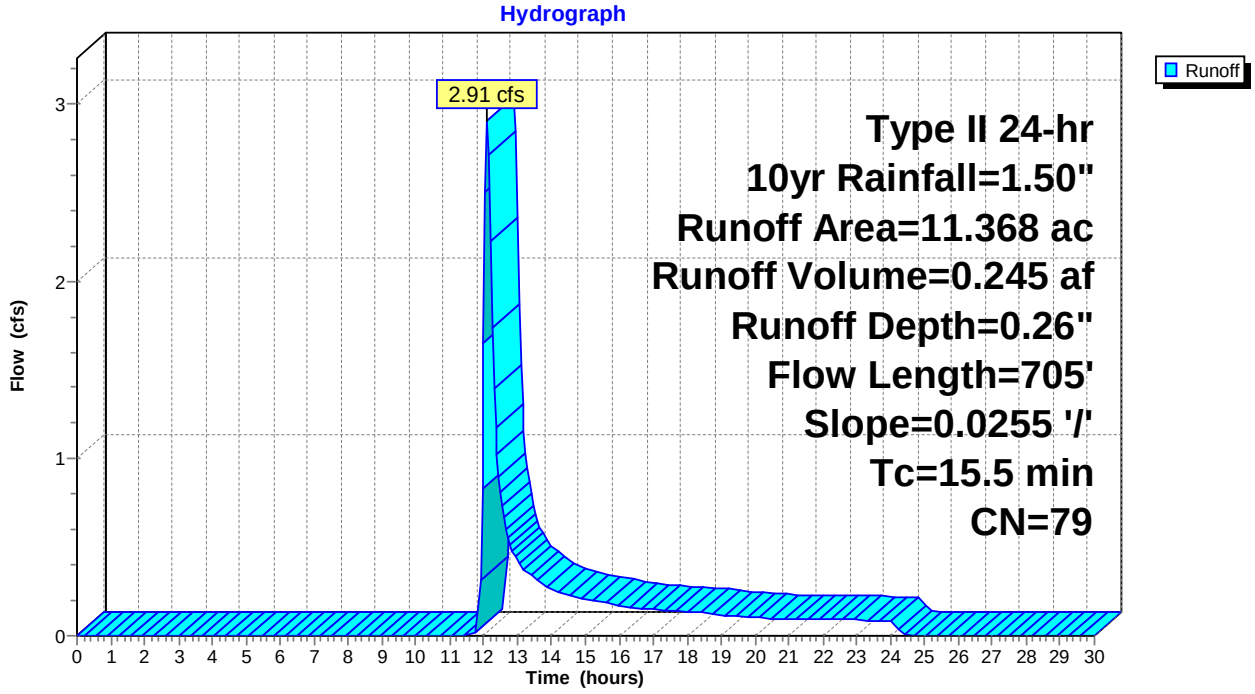
Runoff = 2.91 cfs @ 12.11 hrs, Volume= 0.245 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	11.368	79	
	11.368		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
15.5	705	0.0255	0.76		**Lag/CN Method,**

Subcatchment 159S: DC-157



Summary for Subcatchment 160S: DC-158

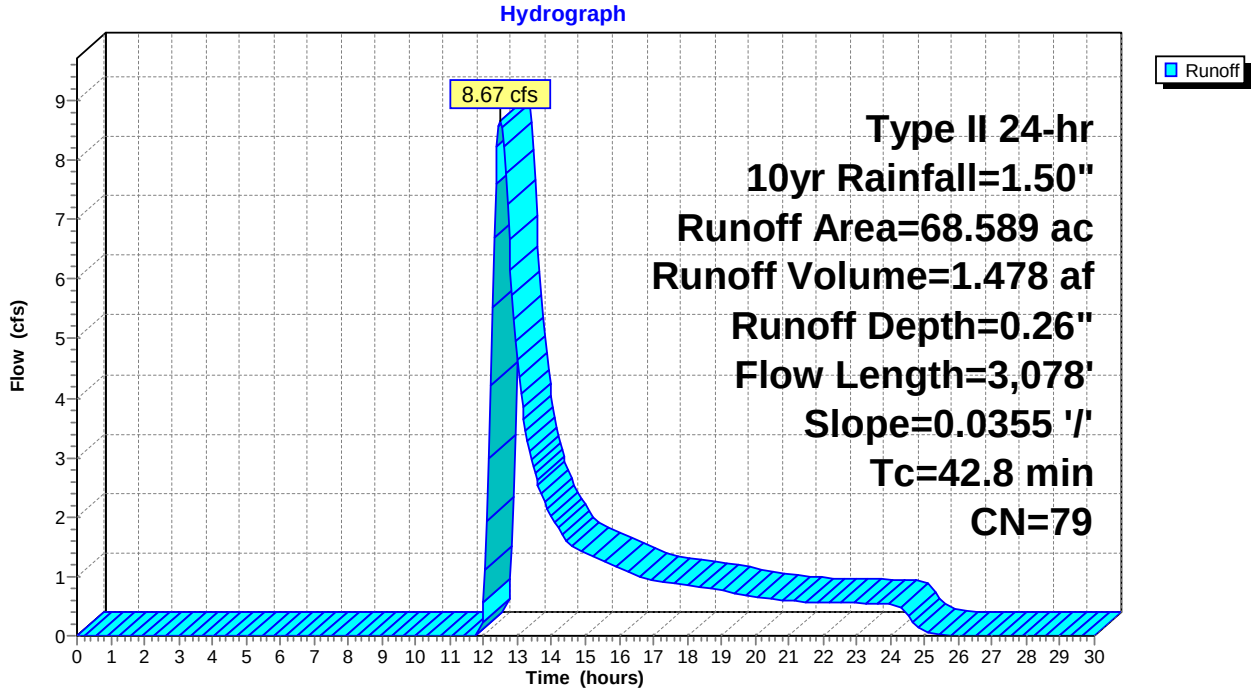
Runoff = 8.67 cfs @ 12.50 hrs, Volume= 1.478 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	68.589	79	
	68.589		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
42.8	3,078	0.0355	1.20		**Lag/CN Method,**

Subcatchment 160S: DC-158



Summary for Subcatchment 161S: DC-159

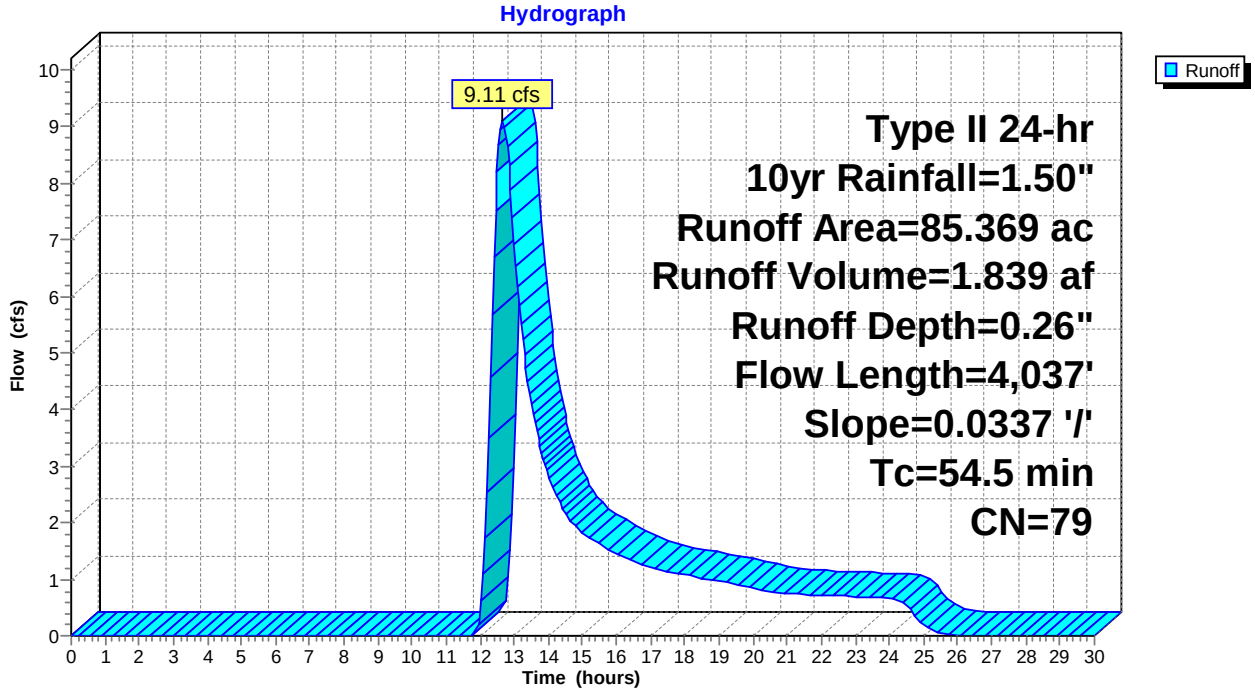
Runoff = 9.11 cfs @ 12.67 hrs, Volume= 1.839 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	85.369	79	
	85.369		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
54.5	4,037	0.0337	1.23		**Lag/CN Method,**

Subcatchment 161S: DC-159



Summary for Subcatchment 162S: DC-160

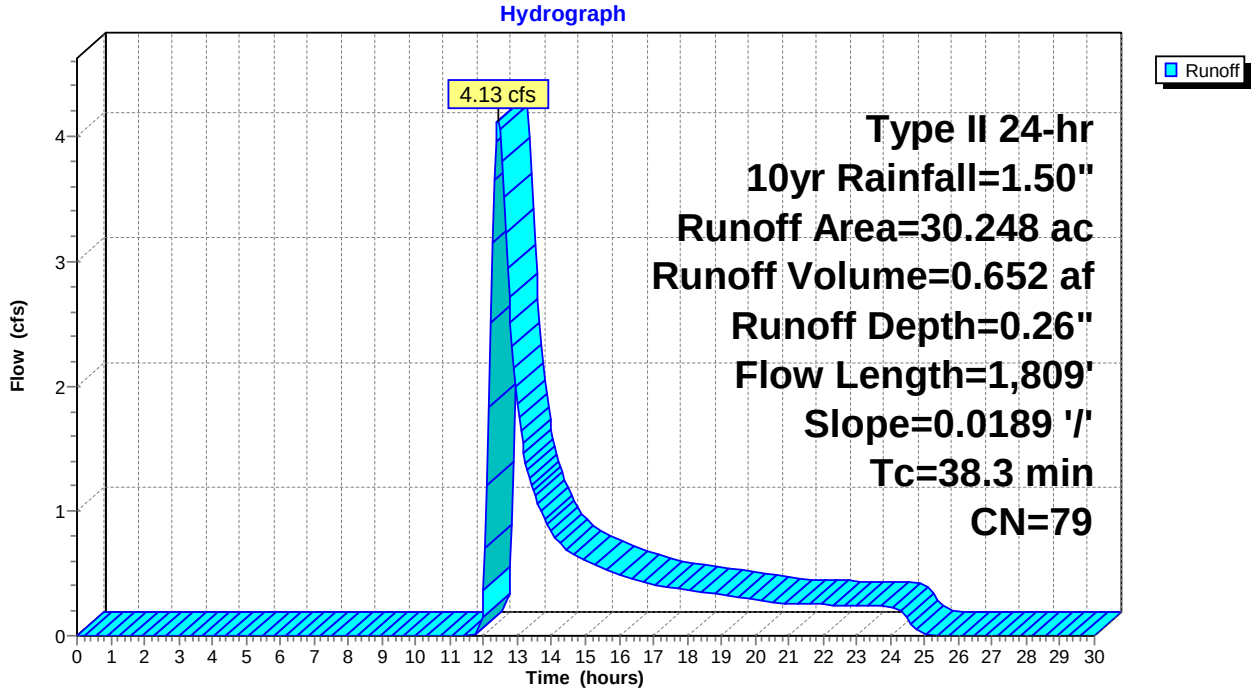
Runoff = 4.13 cfs @ 12.43 hrs, Volume= 0.652 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	30.248	79	
	30.248		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
38.3	1,809	0.0189	0.79		**Lag/CN Method,**

Subcatchment 162S: DC-160



Summary for Subcatchment 163S: DC-161

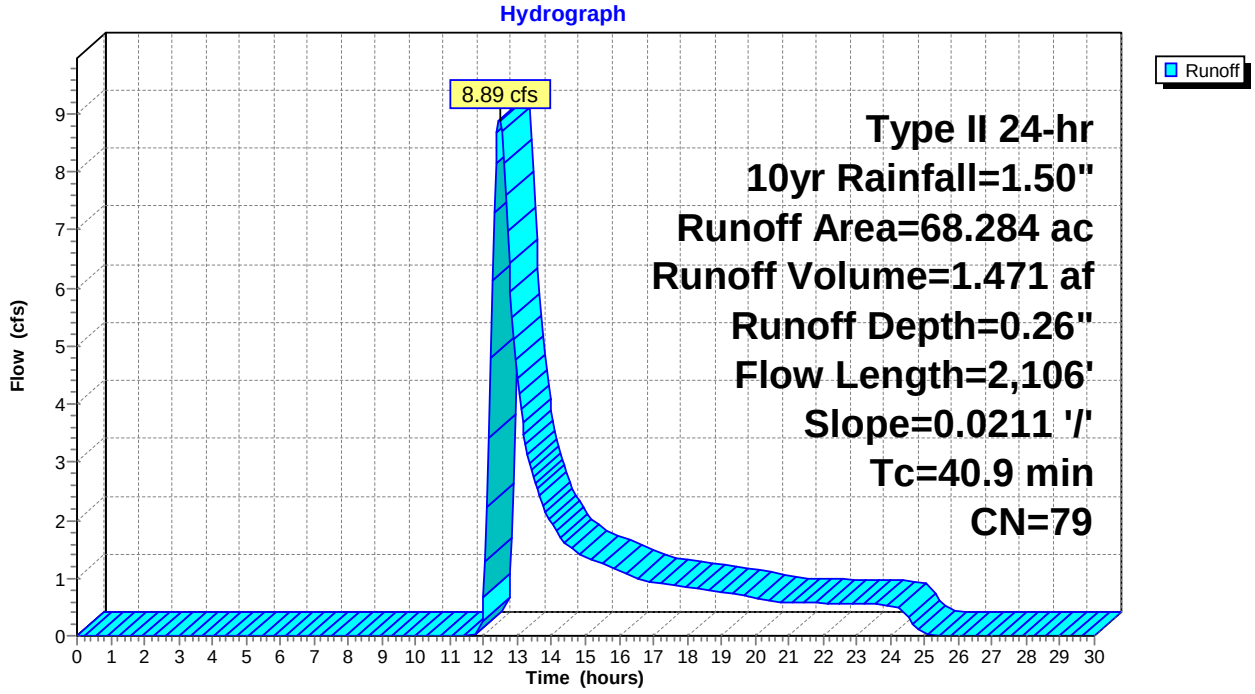
Runoff = 8.89 cfs @ 12.47 hrs, Volume= 1.471 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	68.284	79	
	68.284		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
40.9	2,106	0.0211	0.86		**Lag/CN Method,**

Subcatchment 163S: DC-161



Summary for Subcatchment 164S: DC-162

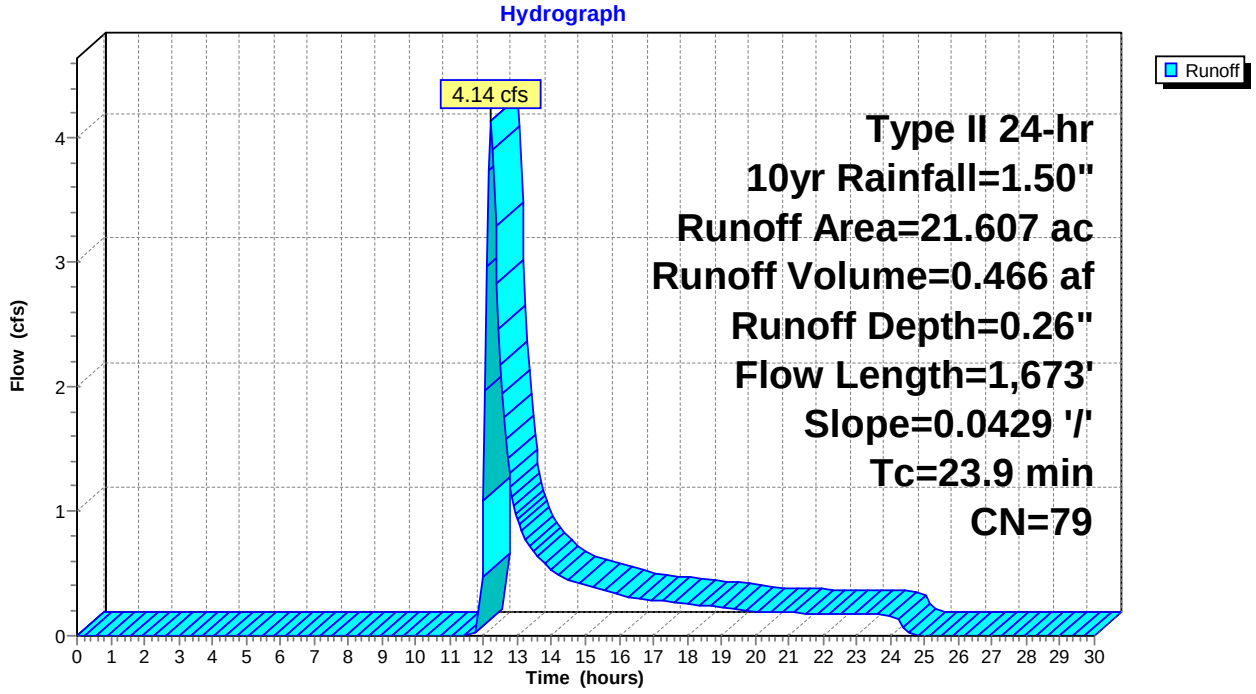
Runoff = 4.14 cfs @ 12.22 hrs, Volume= 0.466 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	21.607	79	
	21.607		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
23.9	1,673	0.0429	1.17		**Lag/CN Method,**

Subcatchment 164S: DC-162



Summary for Subcatchment 165S: DC-163

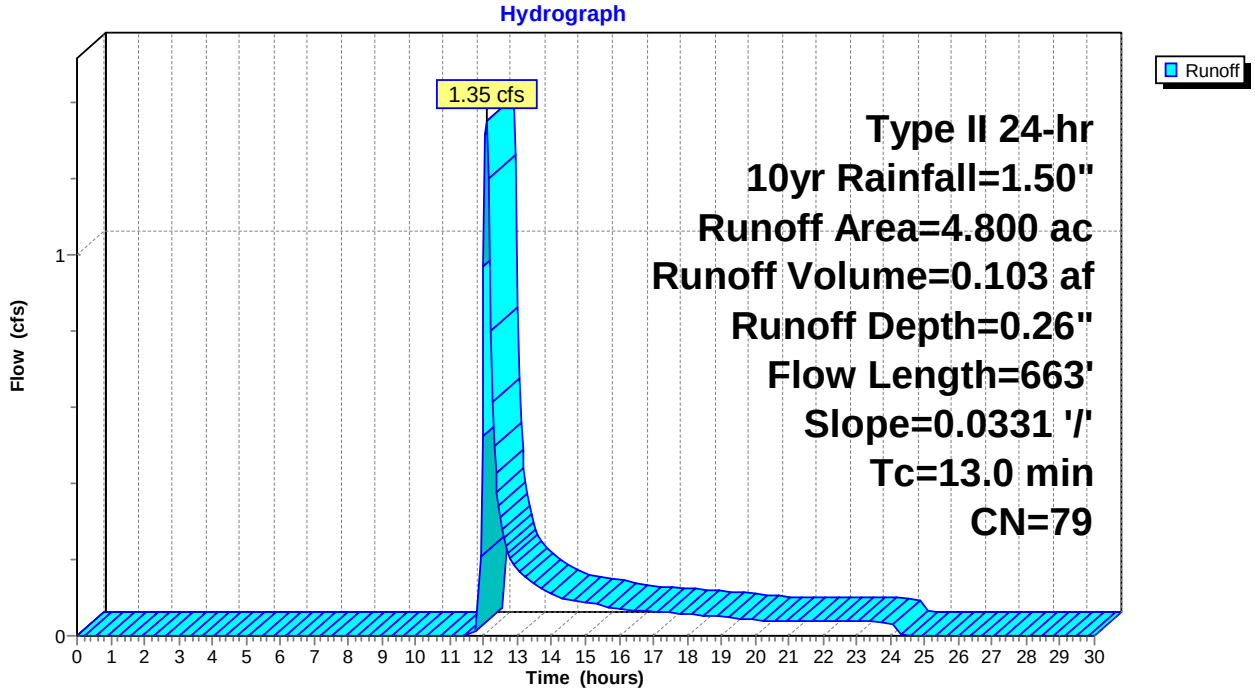
Runoff = 1.35 cfs @ 12.08 hrs, Volume= 0.103 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	4.800	79	
	4.800		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.0	663	0.0331	0.85		**Lag/CN Method,**

Subcatchment 165S: DC-163



Summary for Subcatchment 166S: DC-165

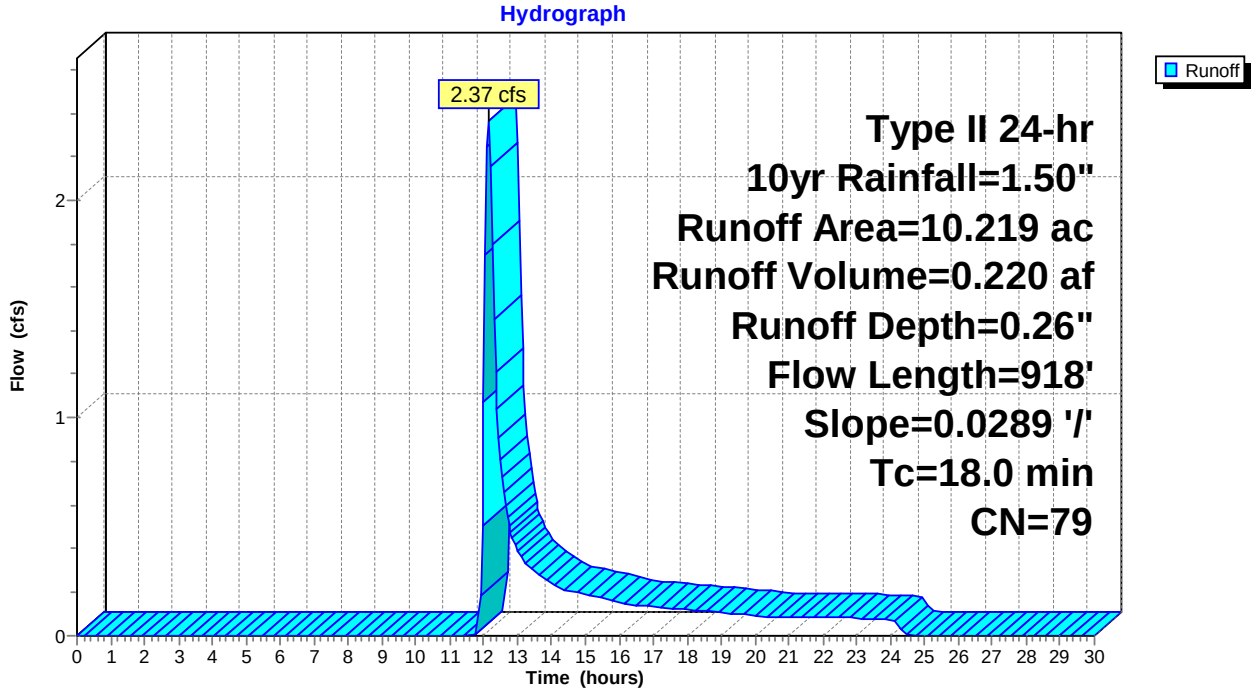
Runoff = 2.37 cfs @ 12.14 hrs, Volume= 0.220 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	10.219	79	
	10.219		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
18.0	918	0.0289	0.85		**Lag/CN Method,**

Subcatchment 166S: DC-165



Summary for Subcatchment 167S: DC-166

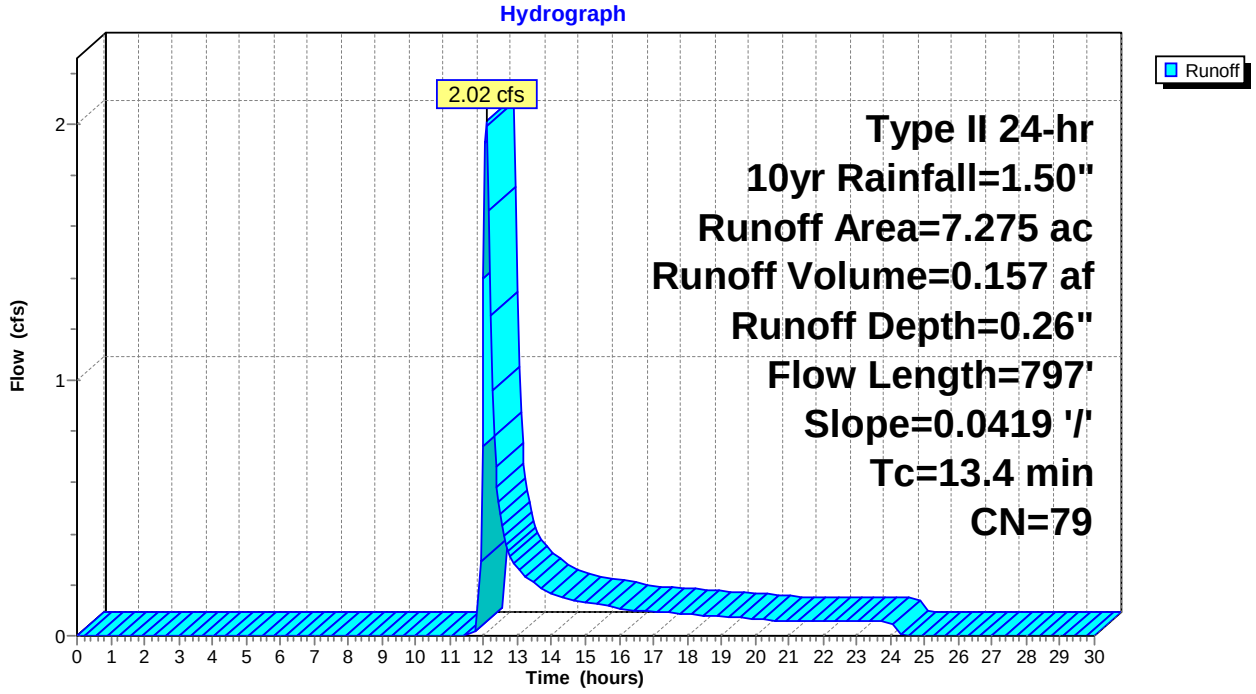
Runoff = 2.02 cfs @ 12.08 hrs, Volume= 0.157 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	7.275	79	
	7.275		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
13.4	797	0.0419	0.99		**Lag/CN Method,**

Subcatchment 167S: DC-166



Summary for Subcatchment 168S: DC-168

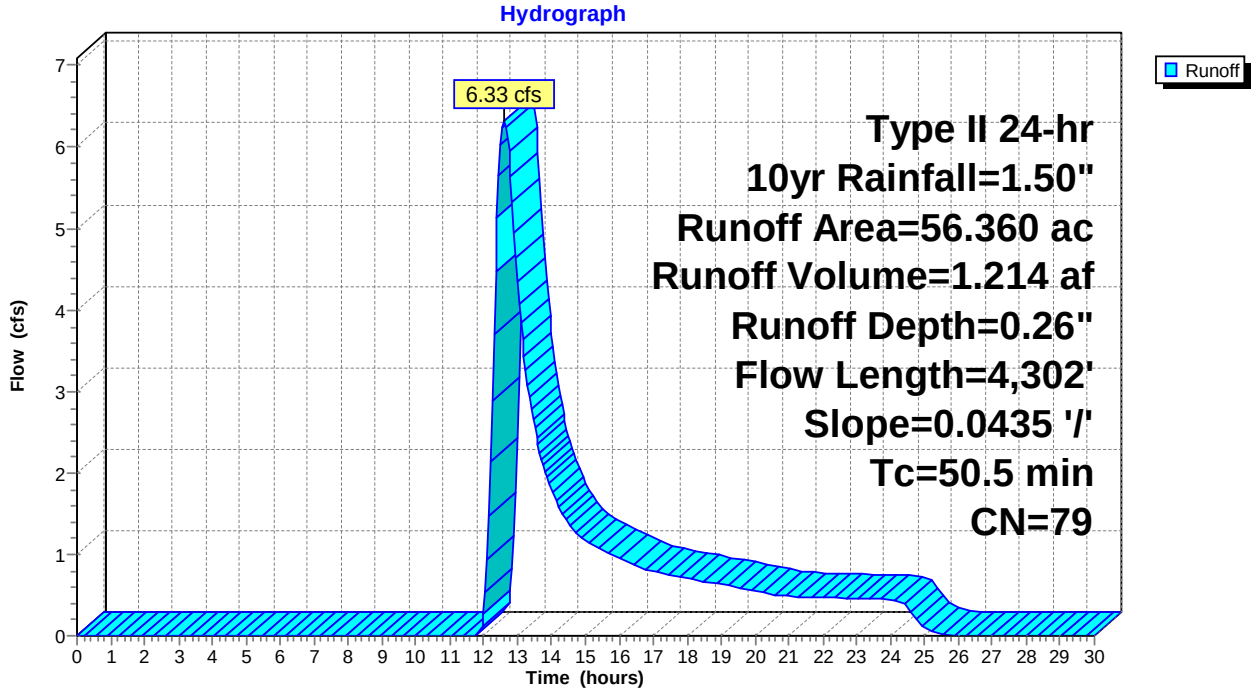
Runoff = 6.33 cfs @ 12.61 hrs, Volume= 1.214 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	56.360	79	
	56.360		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
50.5	4,302	0.0435	1.42		**Lag/CN Method,**

Subcatchment 168S: DC-168



Summary for Subcatchment 169S: DC-169

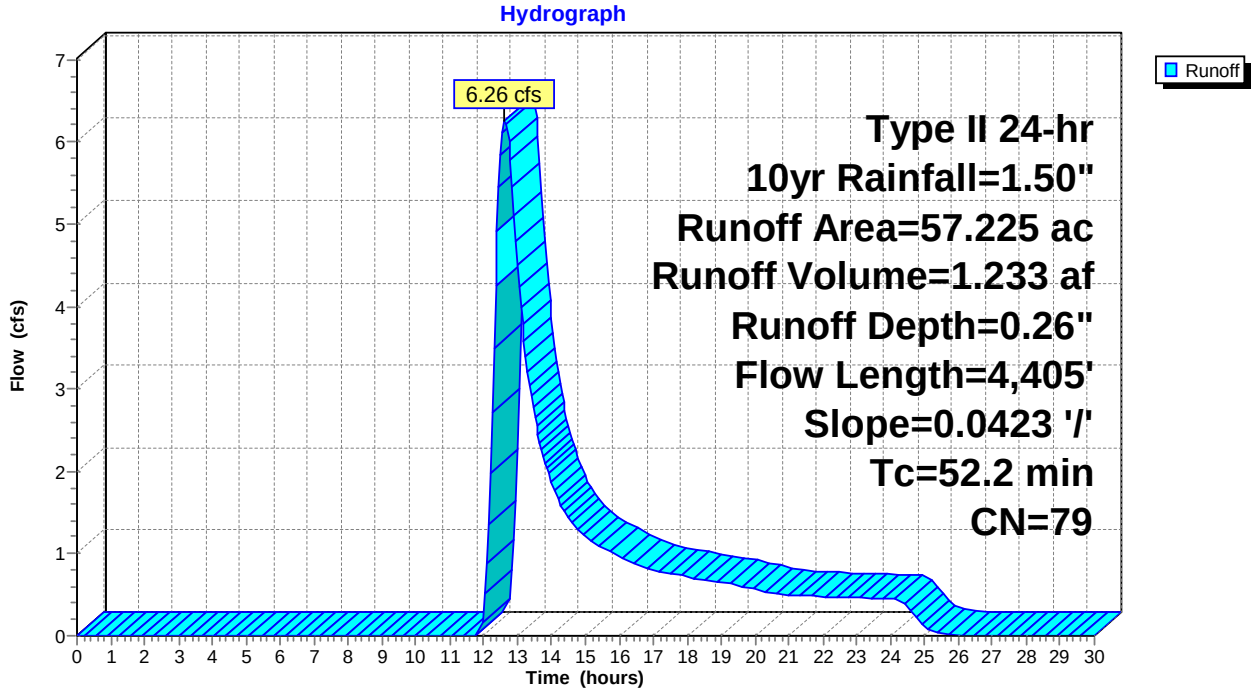
Runoff = 6.26 cfs @ 12.63 hrs, Volume= 1.233 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	57.225	79	
	57.225		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
52.2	4,405	0.0423	1.41		**Lag/CN Method,**

Subcatchment 169S: DC-169



Summary for Subcatchment 170S: DC-170

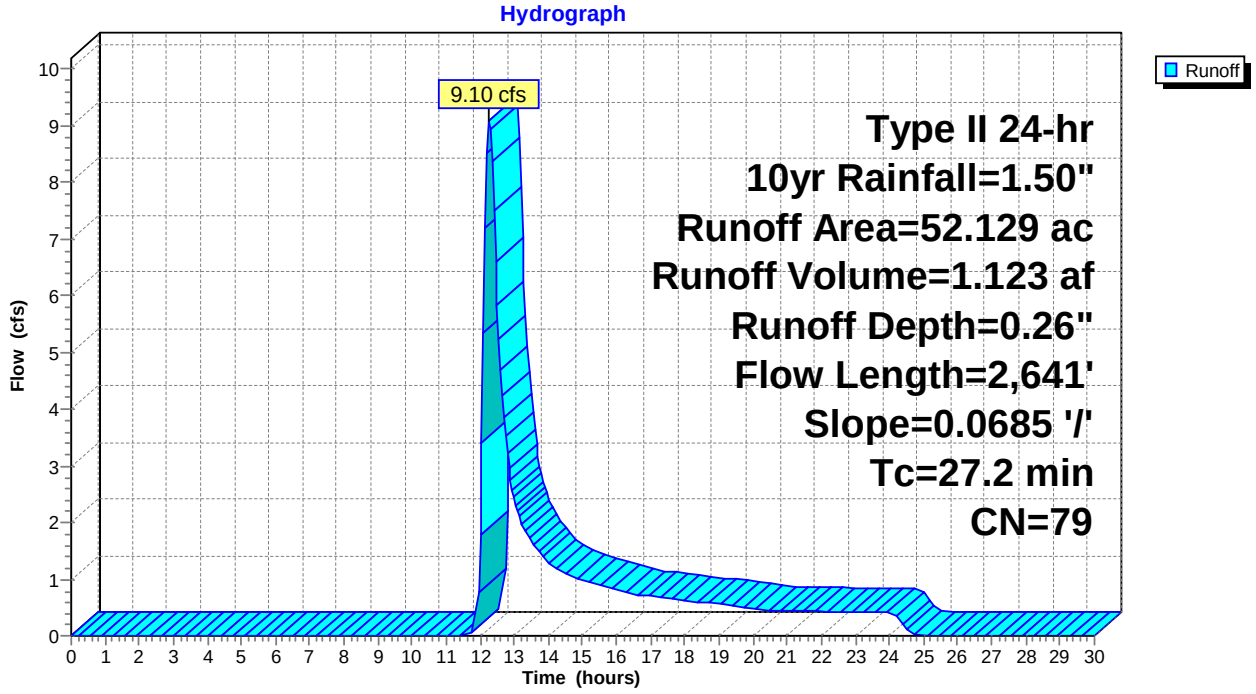
Runoff = 9.10 cfs @ 12.27 hrs, Volume= 1.123 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	52.129	79	
	52.129		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
27.2	2,641	0.0685	1.62		**Lag/CN Method,**

Subcatchment 170S: DC-170



Summary for Subcatchment 171S: DC-171

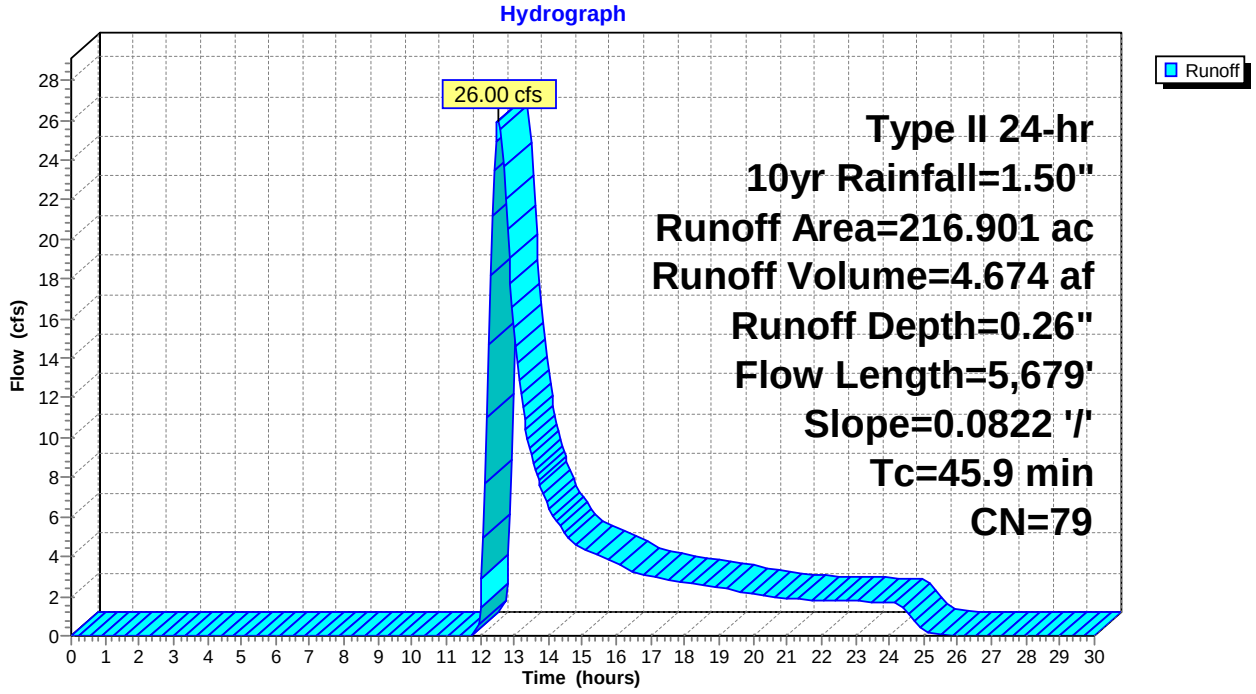
Runoff = 26.00 cfs @ 12.54 hrs, Volume= 4.674 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	216.901	79	
	216.901		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
45.9	5,679	0.0822	2.06		**Lag/CN Method,**

Subcatchment 171S: DC-171



Summary for Subcatchment 172S: DC-172

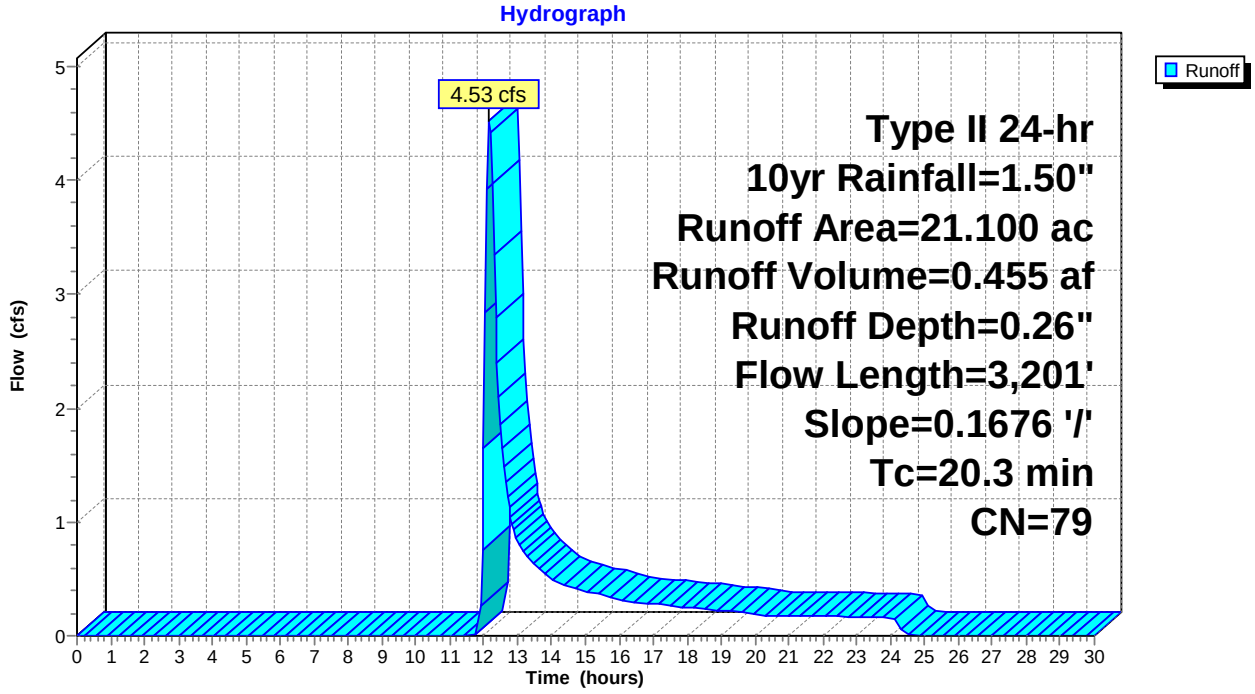
Runoff = 4.53 cfs @ 12.17 hrs, Volume= 0.455 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	21.100	79	
	21.100		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
20.3	3,201	0.1676	2.63		**Lag/CN Method,**

Subcatchment 172S: DC-172



Summary for Subcatchment 173S: DC-173

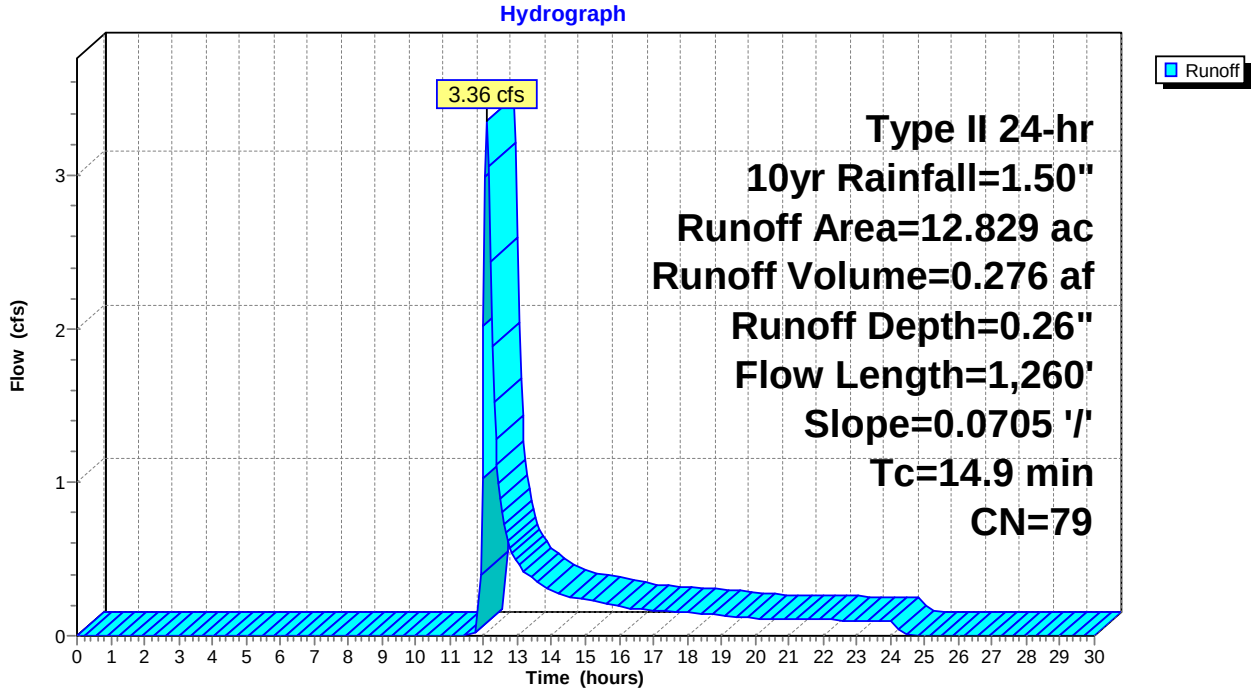
Runoff = 3.36 cfs @ 12.10 hrs, Volume= 0.276 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	12.829	79	
	12.829		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.9	1,260	0.0705	1.41		**Lag/CN Method,**

Subcatchment 173S: DC-173



Summary for Subcatchment 174S: DC-174

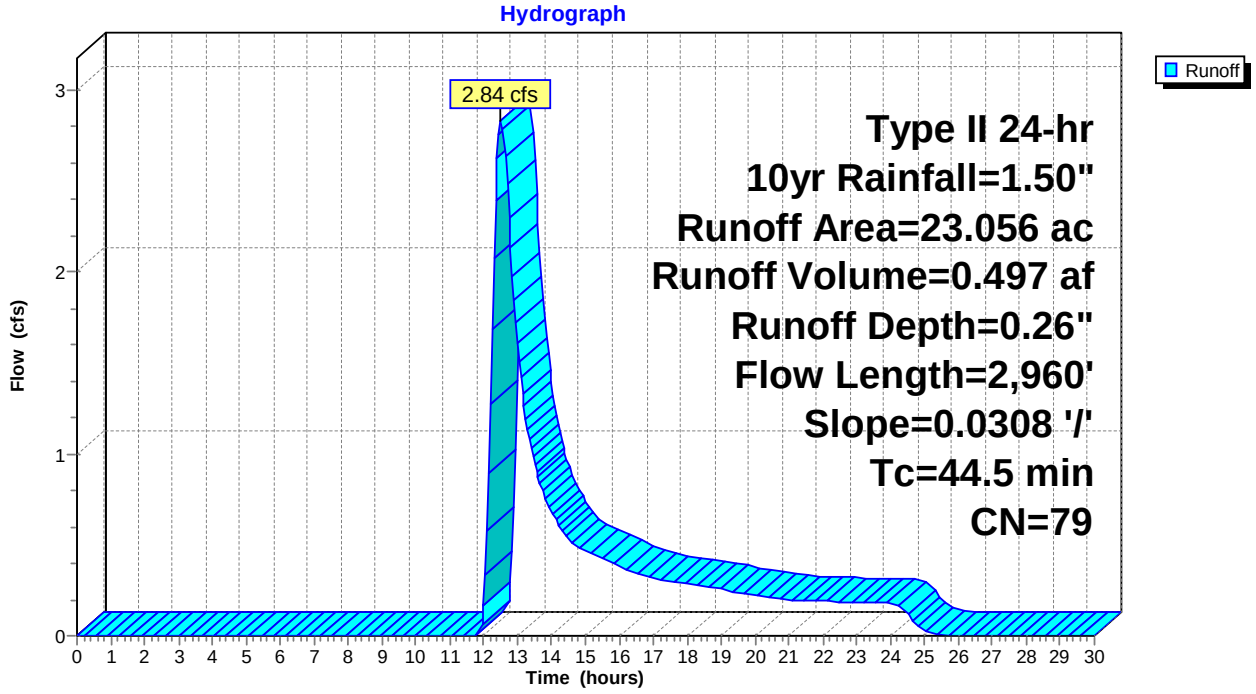
Runoff = 2.84 cfs @ 12.52 hrs, Volume= 0.497 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	23.056	79	
	23.056		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
44.5	2,960	0.0308	1.11		**Lag/CN Method,**

Subcatchment 174S: DC-174



Summary for Subcatchment 175S: DC-175

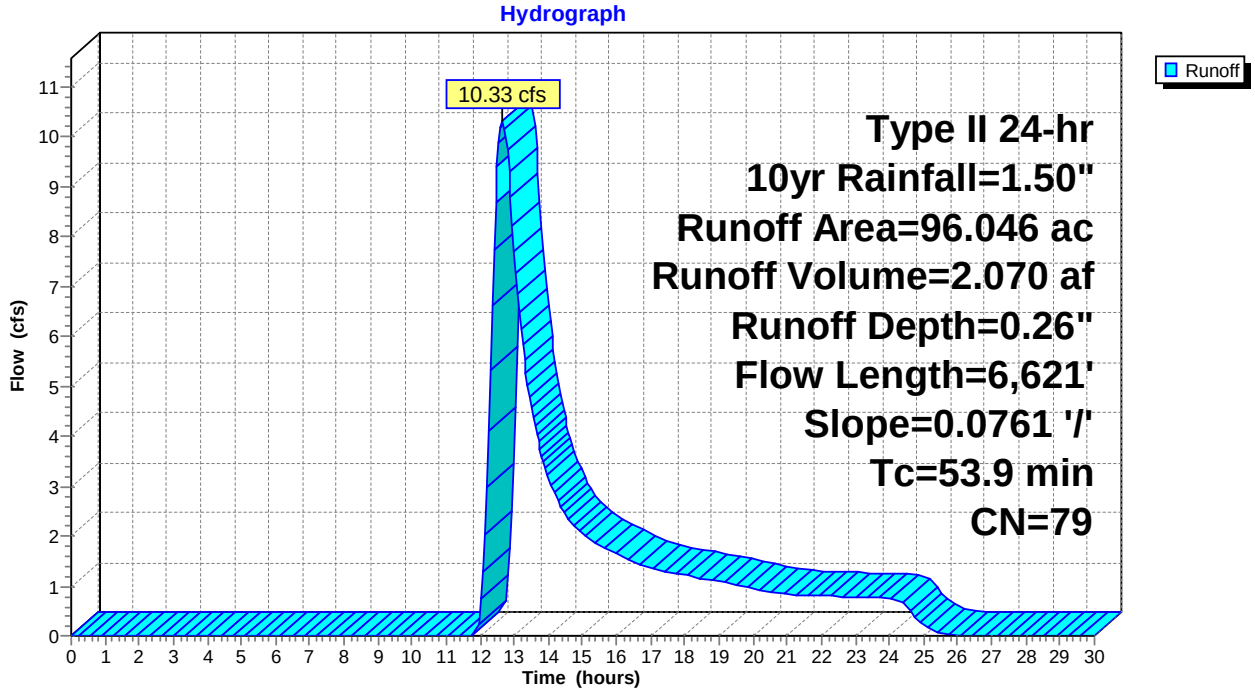
Runoff = 10.33 cfs @ 12.66 hrs, Volume= 2.070 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	96.046	79	
	96.046		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
53.9	6,621	0.0761	2.05		**Lag/CN Method,**

Subcatchment 175S: DC-175



Summary for Subcatchment 176S: DC-176

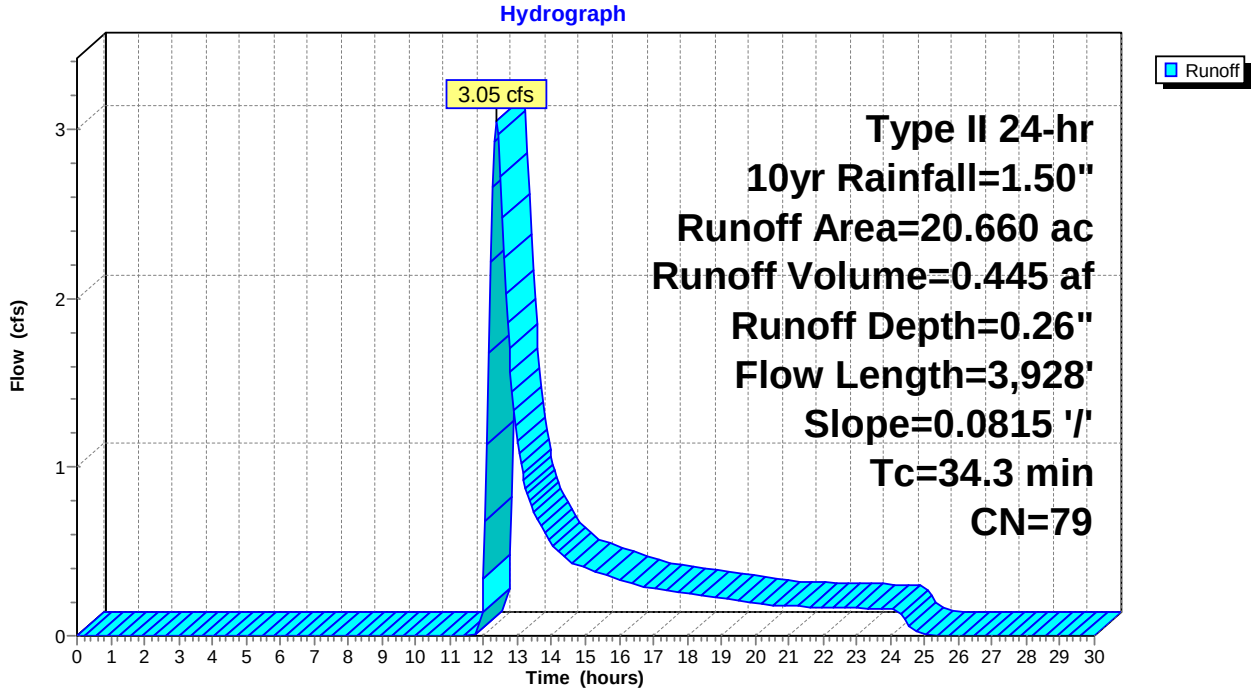
Runoff = 3.05 cfs @ 12.37 hrs, Volume= 0.445 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	20.660	79	
	20.660		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
34.3	3,928	0.0815	1.91		**Lag/CN Method,**

Subcatchment 176S: DC-176



Summary for Subcatchment 177S: DC-177

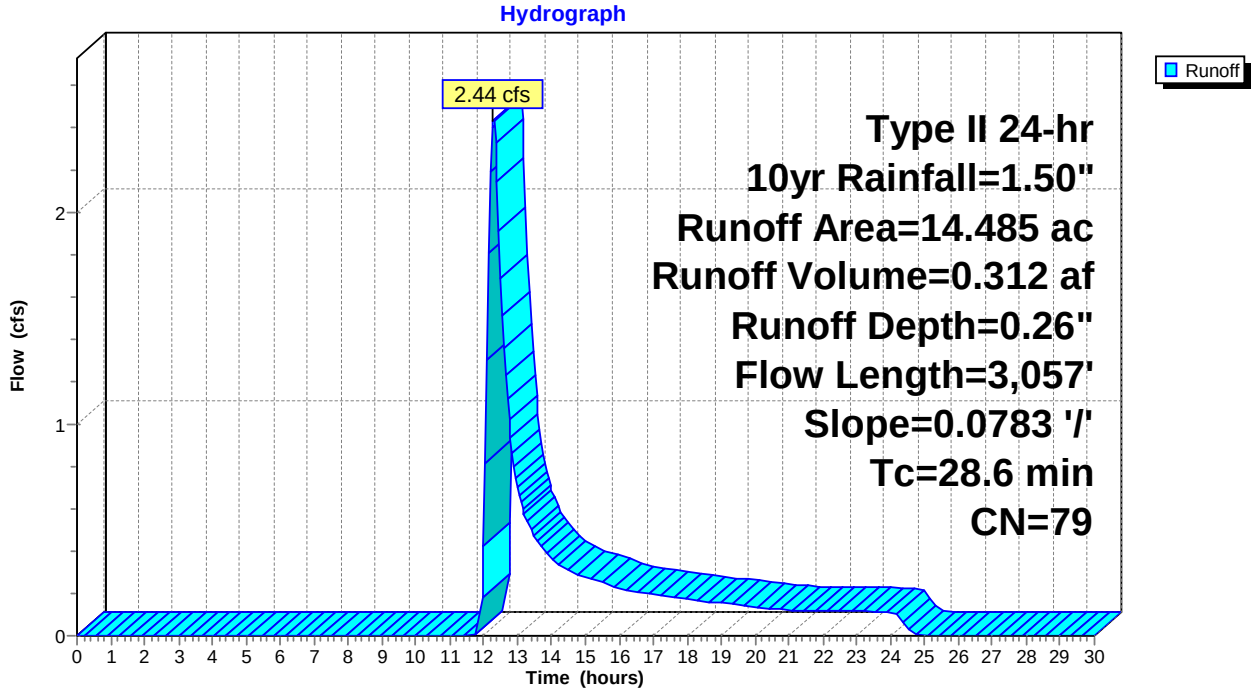
Runoff = 2.44 cfs @ 12.29 hrs, Volume= 0.312 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	14.485	79	
	14.485		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
28.6	3,057	0.0783	1.78		**Lag/CN Method,**

Subcatchment 177S: DC-177



Summary for Subcatchment 178S: DC-178

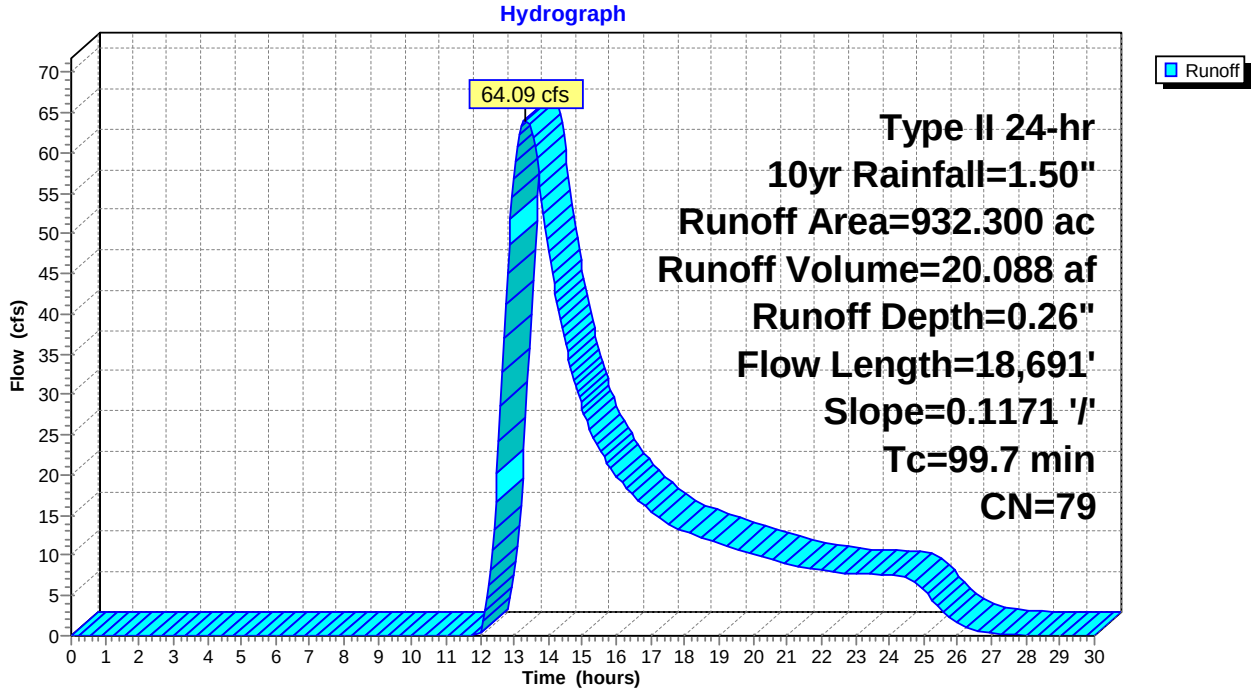
Runoff = 64.09 cfs @ 13.34 hrs, Volume= 20.088 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	932.300	79	
	932.300		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
99.7	18,691	0.1171	3.13		**Lag/CN Method,**

Subcatchment 178S: DC-178



Summary for Subcatchment 179S: DC-179

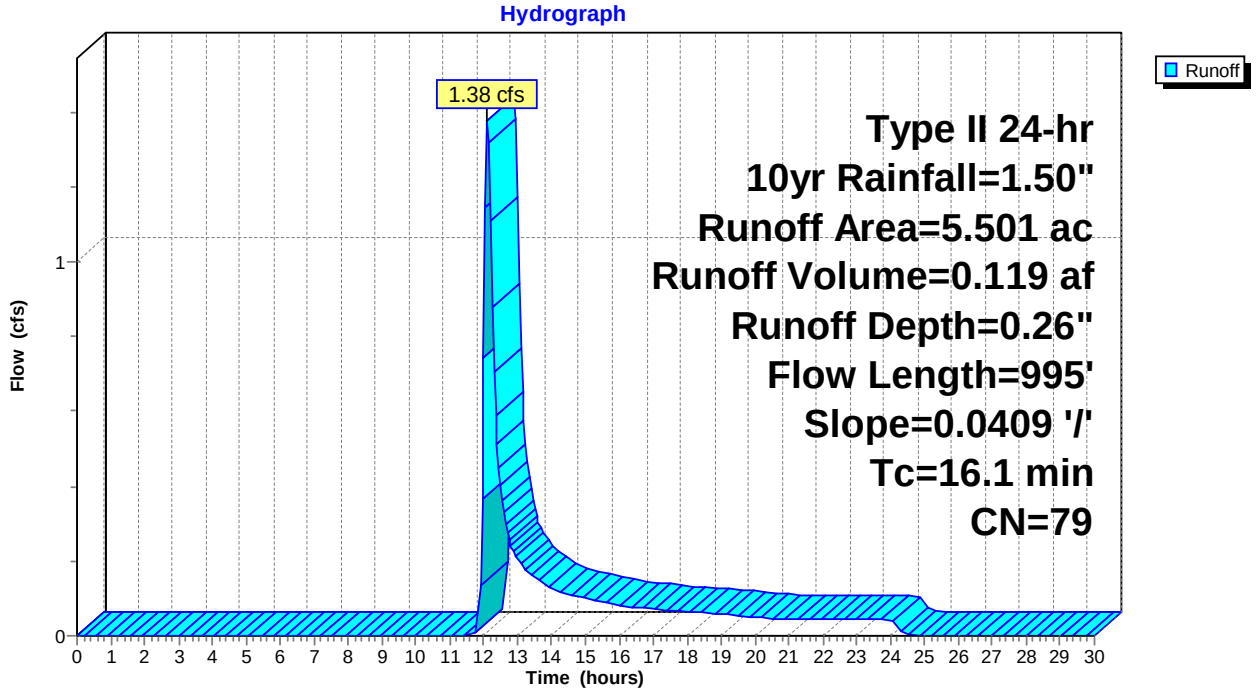
Runoff = 1.38 cfs @ 12.12 hrs, Volume= 0.119 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	5.501	79	
	5.501		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
16.1	995	0.0409	1.03		**Lag/CN Method,**

Subcatchment 179S: DC-179



Summary for Subcatchment 180S: DC-180

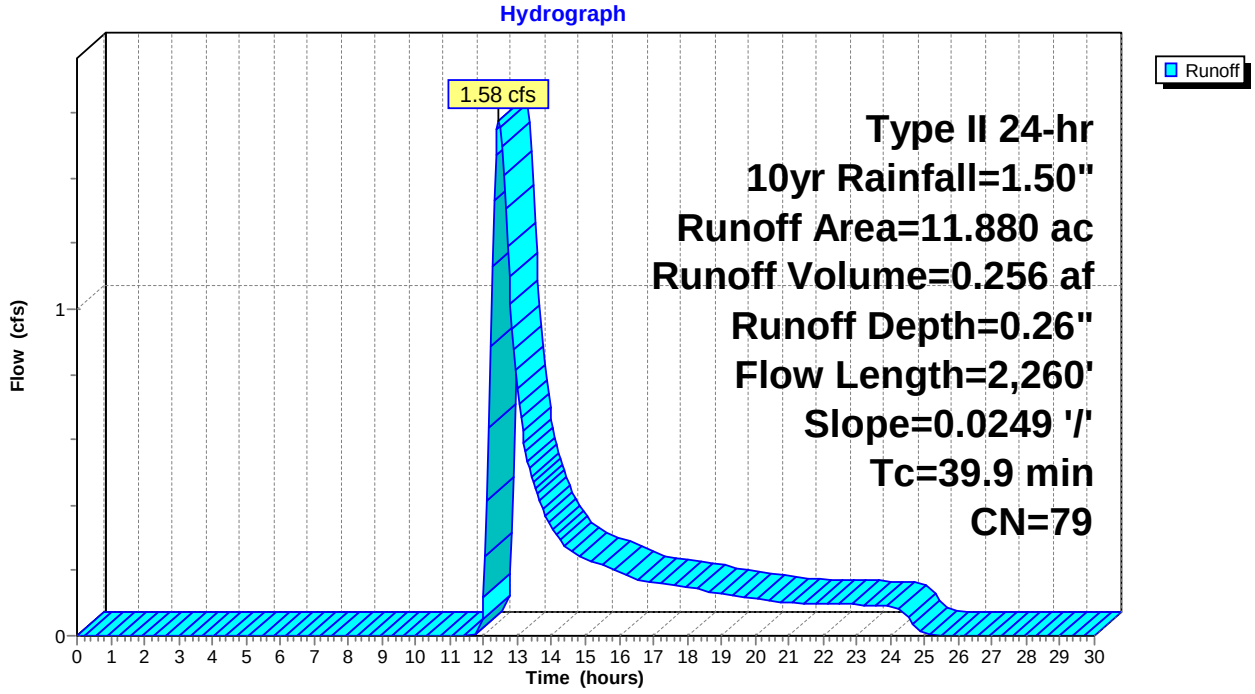
Runoff = 1.58 cfs @ 12.45 hrs, Volume= 0.256 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	11.880	79	
	11.880		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
39.9	2,260	0.0249	0.94		**Lag/CN Method,**

Subcatchment 180S: DC-180



Summary for Subcatchment 181S: DC-181

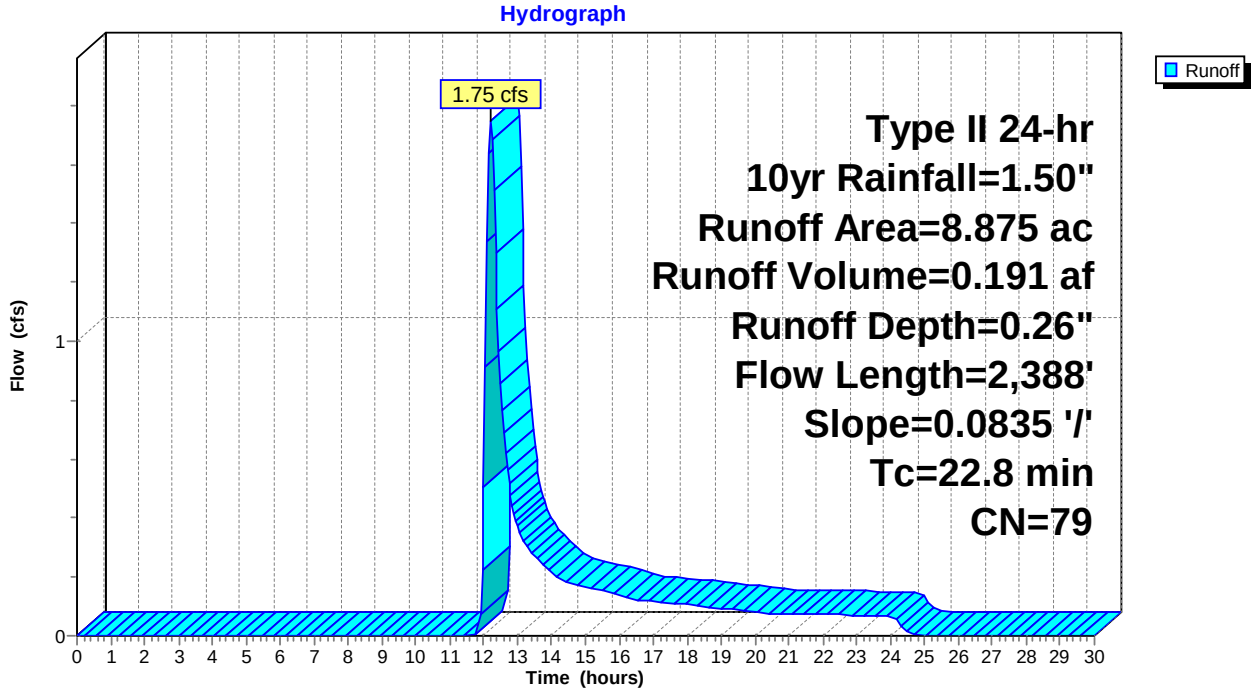
Runoff = 1.75 cfs @ 12.21 hrs, Volume= 0.191 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	8.875	79	
	8.875		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
22.8	2,388	0.0835	1.75		**Lag/CN Method,**

Subcatchment 181S: DC-181



Summary for Subcatchment 182S: DC-182

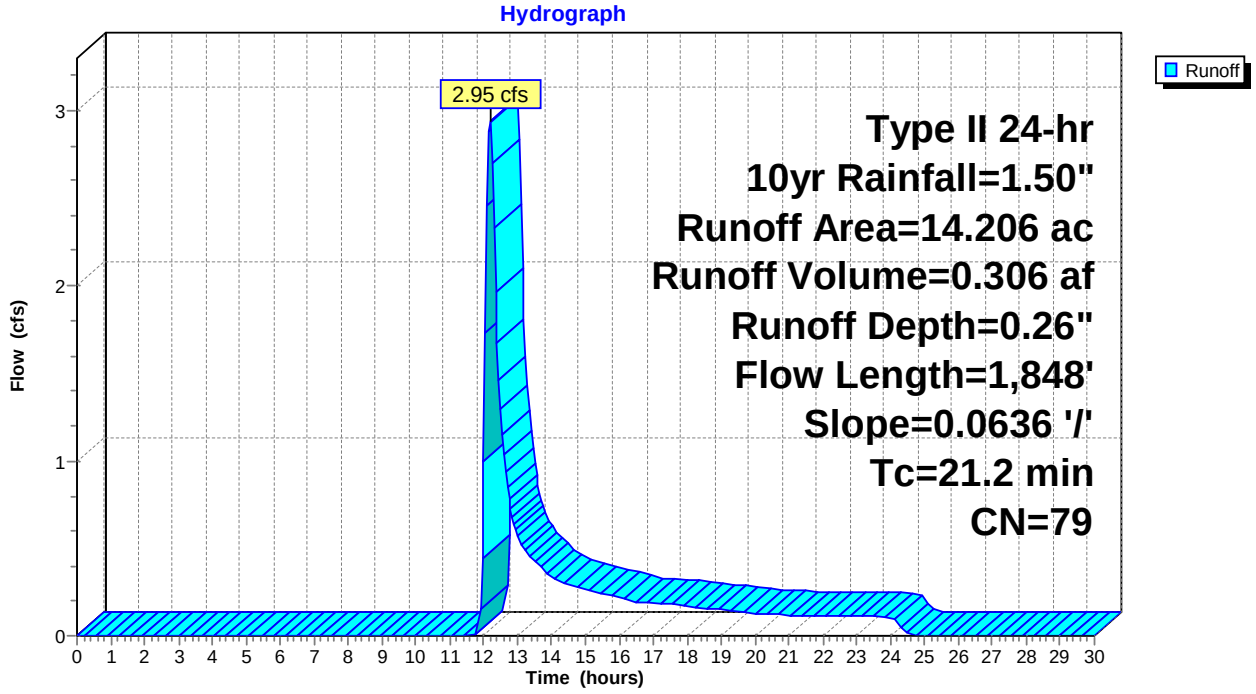
Runoff = 2.95 cfs @ 12.18 hrs, Volume= 0.306 af, Depth= 0.26"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-30.00 hrs, dt= 0.05 hrs
Type II 24-hr 10yr Rainfall=1.50"

	Area (ac)	CN	Description
*	14.206	79	
	14.206		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
21.2	1,848	0.0636	1.45		**Lag/CN Method,**

Subcatchment 182S: DC-182



Drainage Crossing Schedule

Crossing ID	10-Year Culvert Diameter (in)	10-Year LWC	10-Year LWC Lengths (ft)	Watershed Area (ac)	10-Year Peak Flow Rate (cfs)
DC-001	1-30"; 2-24"; 3-18"	Standard Duty	50	169.39	21.53
DC-002	1-18"	Standard Duty	50	17.04	2.1
DC-003	1-18"	Standard Duty	50	13.59	1.93
DC-004	1-30"; 2-24"; 4-18"	Standard Duty	50	157.89	23.62
DC-005	1-18"	Standard Duty	50	45.45	4.87
DC-006	1-18"	Standard Duty	50	17.42	2
DC-007	1-84"; 2-60"; 3-54"	Heavy Duty	80	5998.51	262.89
DC-008	1-18"	Standard Duty	50	45.08	4.39
DC-009	1-18"	Standard Duty	50	13.79	1.61
DC-010	1-18"	Standard Duty	50	8.61	1.23
DC-011	1-18"	Standard Duty	50	53.97	4.38
DC-012	1-18"	Standard Duty	50	6.21	1.09
DC-013	1-18"	Standard Duty	50	17.26	1.98
DC-014	1-84"; 2-60"; 3-54"	Heavy Duty	100	6051.36	265.21
DC-015	1-54"; 2-36"; 4-30"	Standard Duty	100	1458.52	82.9
DC-016	1-84"; 2-60"; 3-54"	Heavy Duty	150	6168.95	269.34
DC-017	1-18"	Standard Duty	50	19.91	2.7
DC-018	1-18"	Standard Duty	50	17.01	2.62
DC-019	1-18"	Standard Duty	50	5.69	0.97
DC-020	1-54"; 2-42"; 3-36"	Standard Duty	70	1380.39	87.6
DC-021	1-36"; 2-30"; 3-24"	Standard Duty	50	423.74	34.78
DC-022	1-30"; 2-24"; 3-18"	Standard Duty	50	102.94	18.72
DC-023	1-42"; 2-36"; 3-30"	Standard Duty	50	854.32	56.77
DC-024	1-18"	Standard Duty	50	23.12	3.11
DC-025	1-18"	Standard Duty	50	35.05	5.73
DC-026	1-18"	Standard Duty	50	11.18	2.18
DC-027	1-48"; 2-36"; 3-30"	Standard Duty	50	1463.99	81.23
DC-028	1-24"; 2-18"	Standard Duty	50	115.06	11.77
DC-029	1-18"	Standard Duty	50	16.58	2.23
DC-030	1-30"; 2-24"; 3-18"	Standard Duty	50	245.26	20.79
DC-031	1-30"; 2-24"; 3-18"	Standard Duty	50	247.98	19.63
DC-032	1-18"	Standard Duty	50	30.85	3.65
DC-033	1-18"	Standard Duty	50	18.83	2.59
DC-034	1-48"; 2-36"; 3-30"	Standard Duty	50	1104.04	75.11
DC-035	1-18"	Standard Duty	50	34.99	3.68
DC-036	1-18"	Standard Duty	50	15.69	1.71
DC-037	1-18"	Standard Duty	50	0.84	0.31
DC-038	1-18"	Standard Duty	50	8.11	2.23
DC-039	1-18"	Standard Duty	50	3.20	0.97
DC-040	1-18"	Standard Duty	50	53.41	5.66
DC-041	1-48"; 2-36"; 4-30"	Standard Duty	50	1087.47	82.08
DC-042	1-18"	Standard Duty	50	10.93	1.72
DC-043	1-30"; 2-24"; 4-18"	Standard Duty	50	230.43	23.29
DC-044	1-42"; 2-30"; 3-24"	Standard Duty	100	558.43	43.08
DC-045	1-18"	Standard Duty	50	47.18	5.52
DC-046	1-18"	Standard Duty	50	6.86	1.49
DC-047	1-18"	Standard Duty	50	18.11	3.85
DC-048	1-18"	Standard Duty	50	1.42	0.45
DC-049	1-36"; 2-30"; 3-24"	Standard Duty	50	502.77	42.4
DC-050	1-18"	Standard Duty	50	2.92	0.77
DC-051	1-30"; 2-24"; 4-18"	Standard Duty	50	180.76	23.51

Highlighted cells represent culvert sizes greater than 1-60"

DC-052	1-18"	Standard Duty	50	20.18	3.67
DC-053	1-24"; 2-18"	Standard Duty	50	95.83	14.45
DC-054	1-24"; 2-18"	Standard Duty	50	94.98	15.12
DC-055	1-42"; 2-30"; 3-24"	Standard Duty	75	493.80	44.07
DC-056	1-18"	Standard Duty	50	8.66	3.24
DC-057	1-18"	Standard Duty	50	24.35	3.92
DC-058	1-18"	Standard Duty	50	35.71	4.93
DC-059	1-18"	Standard Duty	50	7.01	1.56
DC-060	1-18"	Standard Duty	50	18.61	3.85
DC-061	1-18"	Standard Duty	50	5.54	1.46
DC-062	1-18"	Standard Duty	50	8.95	2.26
DC-063	1-18"	Standard Duty	50	17.33	2.04
DC-064	1-48"; 2-36"; 3-30"	Standard Duty	50	1166.26	75.05
DC-065	1-18"	Standard Duty	50	61.33	5.05
DC-066	1-48"; 2-36"; 3-30"	Standard Duty	100	1232.71	78.4
DC-067	1-60"; 2-42"; 3-36"	Heavy Duty	150	1703.52	113.45
DC-068	1-18"	Standard Duty	50	1.25	0.46
DC-069	1-18"	Standard Duty	50	22.27	2.13
DC-070	1-18"	Standard Duty	50	5.48	1.31
DC-071	1-18"	Standard Duty	50	19.25	2.06
DC-072	1-60"; 2-42"; 3-36"	Heavy Duty	150	1697.80	118.82
DC-073	1-18"	Standard Duty	50	12.23	1.43
DC-074	1-42"; 2-30"; 3-24"	Standard Duty	50	660.81	46.67
DC-075	1-18"	Standard Duty	50	22.83	2.52
DC-076	1-18"	Standard Duty	50	77.36	7.51
DC-077	1-18"	Standard Duty	50	74.60	7.26
DC-078	1-36"; 2-30"; 3-24"	Standard Duty	50	555.49	42
DC-079	1-24"; 2-18"	Standard Duty	75	89.96	8.33
DC-080	1-18"	Standard Duty	50	12.86	1.9
DC-081	1-60"; 2-48"; 3-36"	Heavy Duty	150	1640.70	121.49
DC-082	1-48"; 2-36"; 3-30"	Heavy Duty	150	855.40	63.34
DC-083	1-48"; 2-36"; 3-30"	Standard Duty	50	781.35	62.39
DC-084	1-18"	Standard Duty	50	53.30	6.25
DC-085	1-42"; 2-30"; 3-24"	Standard Duty	50	534.89	45.71
DC-086	1-18"	Standard Duty	50	44.85	5.83
DC-087	1-18"	Standard Duty	50	7.42	1.33
DC-088	1-48"; 2-36"; 3-30"	Standard Duty	70	918.25	66.87
DC-089	1-18"	Standard Duty	50	9.63	1.59
DC-090	1-48"; 2-36"; 3-30"	Standard Duty	50	721.07	71.94
DC-091	1-18"	Standard Duty	50	37.20	4.3
DC-092	1-18"	Standard Duty	50	71.39	6.5
DC-093	1-18"	Standard Duty	50	48.15	4.87
DC-094	1-18"	Standard Duty	50	3.14	0.64
DC-095	1-18"	Standard Duty	50	65.49	5.83
DC-096	1-18"	Standard Duty	50	14.38	2.42
DC-097	1-24"; 2-18"	Standard Duty	50	136.26	10.86
DC-098	1-48"; 2-36"; 3-30"	Standard Duty	50	746.26	64.37
DC-099	1-48"; 2-36"; 3-30"	Standard Duty	100	946.61	68.94
DC-100	1-18"	Standard Duty	50	8.25	1.57
DC-101	1-18"	Standard Duty	50	32.59	4.1
DC-102	1-18"	Standard Duty	50	34.73	6.09
DC-103	1-42"; 2-36"; 3-30"	Standard Duty	50	683.21	57.53
DC-104	1-18"	Standard Duty	50	9.29	1.74
DC-105	1-18"	Standard Duty	50	12.63	1.96
DC-106	1-18"	Standard Duty	50	9.80	1.67

Highlighted cells represent culvert sizes greater than 1-60"

DC-107	1-36"; 2-30"; 3-24"	Standard Duty	50	353.84	34.24
DC-108	1-30"; 2-24"; 3-18"	Standard Duty	50	160.98	16.8
DC-109	1-18"	Standard Duty	50	10.57	1.98
DC-110	1-18"	Standard Duty	50	6.97	1.6
DC-111	1-48"; 2-36"; 3-30"	Standard Duty	50	831.50	64.4
DC-112	1-18"	Standard Duty	50	53.27	6.03
DC-113	1-18"	Standard Duty	50	43.23	5.41
DC-114	1-42"; 2-30"; 4-24"	Standard Duty	50	614.24	51.45
DC-115	1-18"	Standard Duty	50	14.48	2.53
DC-116	1-18"	Standard Duty	50	54.89	5.9
DC-117	1-18"	Standard Duty	50	14.91	1.98
DC-118	1-18"	Standard Duty	50	15.97	4.72
DC-119	1-42"; 2-36"; 3-30"	Standard Duty	50	613.16	56.69
DC-120	1-18"	Standard Duty	50	4.54	1.18
DC-121	1-24"; 2-18"	Standard Duty	50	57.44	8.23
DC-122	1-18"	Standard Duty	50	7.09	1.62
DC-123	1-18"	Standard Duty	50	20.89	3
DC-124	1-18"	Standard Duty	50	5.92	1.3
DC-125	1-18"	Standard Duty	50	4.47	1.09
DC-126	1-48"; 2-36"; 3-30"	Standard Duty	50	805.10	66.18
DC-127	1-18"	Standard Duty	50	33.29	4.56
DC-128	1-18"	Standard Duty	50	39.54	6.09
DC-129	1-42"; 2-30"; 4-24"	Standard Duty	50	598.03	53.09
DC-130	1-42"; 2-30"; 4-24"	Standard Duty	50	616.78	49.59
DC-131	1-18"	Standard Duty	50	11.11	2
DC-132	1-18"	Standard Duty	50	7.96	1.65
DC-133	1-18"	Standard Duty	50	24.05	3.34
DC-134	1-18"	Standard Duty	50	17.70	3.03
DC-135	1-18"	Standard Duty	50	7.32	1.78
DC-136	1-18"	Standard Duty	50	16.78	2.89
DC-137	1-18"	Standard Duty	50	43.61	4.86
DC-138	1-18"	Standard Duty	50	15.32	3.18
DC-139	1-18"	Standard Duty	50	4.10	1.64
DC-140	1-18"	Standard Duty	50	4.70	1.48
DC-141	1-18"	Standard Duty	50	10.18	2.48
DC-142	1-18"	Standard Duty	50	7.04	1.75
DC-143	1-18"	Standard Duty	50	15.21	2.7
DC-144	1-24"; 2-18"	Standard Duty	50	89.45	8.35
DC-145	1-18"	Standard Duty	50	5.85	1.51
DC-146	1-18"	Standard Duty	50	6.87	1.71
DC-147	1-24"; 2-18"	Standard Duty	50	135.56	11.17
DC-148	1-18"	Standard Duty	50	4.39	1.21
DC-149	1-18"	Standard Duty	50	6.88	1.8
DC-150	1-18"	Standard Duty	50	23.58	3.63
DC-151	1-18"	Standard Duty	50	33.11	5.36
DC-152	1-18"	Standard Duty	50	22.60	3.56
DC-153	1-36"; 2-30"; 3-24"	Standard Duty	50	438.37	38.8
DC-154	1-18"	Standard Duty	50	24.10	4.74
DC-155	1-18"	Standard Duty	50	5.59	1.48
DC-156	1-18"	Standard Duty	50	5.04	1.25
DC-157	1-18"	Standard Duty	50	11.37	2.91
DC-158	1-24"; 2-18"	Standard Duty	50	68.59	8.67
DC-159	1-24"; 2-18"	Standard Duty	50	85.37	9.11
DC-160	1-18"	Standard Duty	50	30.25	4.13
DC-161	1-24"; 2-18"	Standard Duty	50	68.28	8.89

Highlighted cells represent culvert sizes greater than 1-60"

DC-162	1-18"	Standard Duty	50	21.61	4.14
DC-163	1-18"	Standard Duty	50	4.80	1.35
DC-164	1-18"	Standard Duty	50	5.40	1.52
DC-165	1-18"	Standard Duty	50	10.22	2.37
DC-166	1-18"	Standard Duty	50	7.28	2.02
DC-167	1-18"	Standard Duty	50	32.46	5.47
DC-168	1-18"	Standard Duty	50	56.36	6.33
DC-169	1-18"	Standard Duty	50	57.23	6.26
DC-170	1-24"; 2-18"	Standard Duty	50	52.13	9.1
DC-171	1-30"; 2-24"; 4-18"	Standard Duty	50	216.90	26
DC-172	1-18"	Standard Duty	50	21.10	4.53
DC-173	1-18"	Standard Duty	50	12.83	3.36
DC-174	1-18"	Standard Duty	50	23.06	2.84
DC-175	1-24"; 2-18"	Standard Duty	50	96.05	10.33
DC-176	1-18"	Standard Duty	50	20.66	3.05
DC-177	1-18"	Standard Duty	50	14.49	2.44
DC-178	1-48"; 2-36"; 3-30"	Standard Duty	50	932.30	64.09
DC-179	1-18"	Standard Duty	50	5.50	1.38
DC-180	1-18"	Standard Duty	50	11.88	1.58
DC-181	1-18"	Standard Duty	50	8.88	1.75
DC-182	1-18"	Standard Duty	50	14.21	2.95

Highlighted cells represent culvert sizes greater than 1-60"

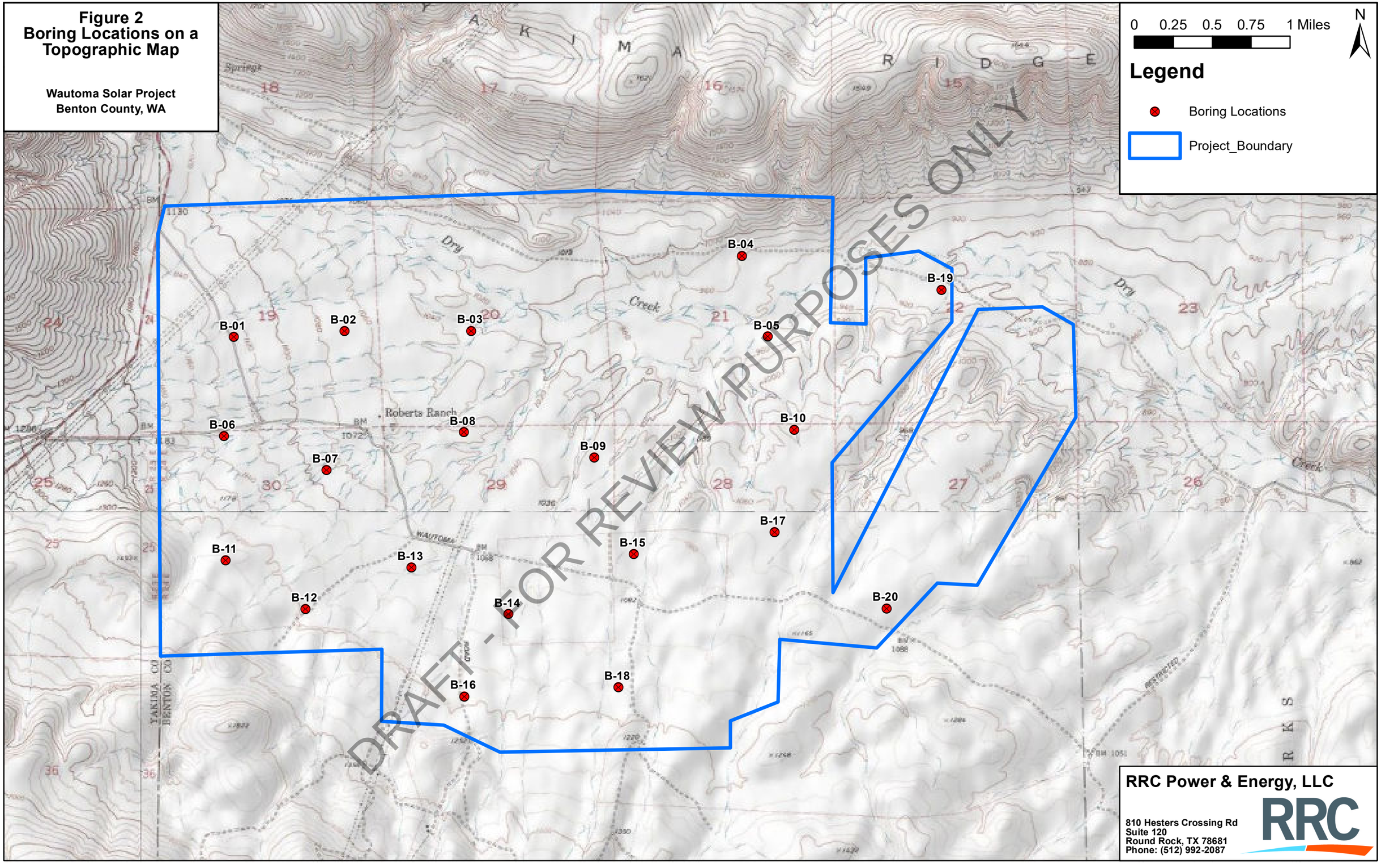
	Culvert Number								
	1	2	3	4	5	6	7	8	9
Min 18	1.44	2.87	4.30	5.73	7.20	8.64	10.08	11.52	12.96
18	7.74	15.48	23.21	30.95	38.70	46.44	54.18	61.92	69.66
24	15.78	31.56	47.33	63.11	78.90	94.68	110.46	126.24	142.02
30	27.25	54.50	81.74	108.99	136.25	163.50	190.75	218.00	245.25
36	42.41	84.82	127.22	169.63	212.05	254.46	296.87	339.28	381.69
42	60.74	121.48	182.21	242.95	303.70	364.44	425.18	485.92	546.66
48	82.60	165.19	247.78	330.37	413.00	495.60	578.20	660.80	743.40
54	108.21	216.42	324.63	432.83	541.05	649.26	757.47	865.68	973.89
60	137.80	275.60	413.39	551.18	689.00	826.80	964.60	1102.40	1240.20
66	171.52	343.03	514.54	686.05	857.60	1029.12	1200.64	1372.16	1543.68
72	209.54	409.07	628.61	838.14	1047.70	1257.24	1466.78	1676.32	1885.86
78	252.06	504.12	756.17	1008.23	1260.30	1512.36	1764.42	2016.48	2268.54
84	299.21	598.42	897.63	1196.83	1496.05	1795.26	2094.47	2393.68	2692.89
90	351.13	702.26	1053.38	1404.51	1755.65	2106.78	2457.91	2809.04	3160.17
96	407.97	815.93	1223.88	1631.85	2039.85	2447.82	2855.79	3263.76	3671.73
102	469.86	939.70	1409.57	1879.42	2349.30	2819.16	3289.02	3758.88	4228.74
108	536.95	1073.90	1610.84	2147.79	2684.75	3221.70	3758.65	4295.60	4832.55
114	609.38	1218.74	1828.13	2437.49	3046.90	3656.28	4265.66	4875.04	5484.42
120	687.28	1374.55	2061.83	2749.10	3436.40	4123.68	4810.96	5498.24	6185.52

Appendix F

Geotechnical Report

Figure 2
Boring Locations on a Topographic Map

Wautoma Solar Project
Benton County, WA



RRC Power & Energy, LLC

810 Hesters Crossing Rd
Suite 120
Round Rock, TX 78681
Phone: (512) 992-2087

LOG OF BORING B-01

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052

DATE(S) DRILLED: 10/25/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													8 in. Topsoil
	1												SILT (ML), with Gravel, brown, stiff to hard, dry to moist
	2		N = 14	3									
	3												
	4												
	5		N = 83/11"	3									
	6												
	7												
	8		N = 50/3"										
	9												
	10		N = 42										
	11												
	12		N = 50/2"										
													Total Depth = 12.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.510995, Long. -119.867412
Auger Refusal at 12.5 ft.

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LOG OF BORING B-02

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/25/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													8 in. Topsoil
	1												SILT (ML), with Gravel, brown, very stiff to hard, dry to moist
	2		N = 30										
	3												
	4												
	5		N = 45										
	6												
	7												
	8		N = 29										
	9												
	10		N = 38										
	11												
	12		N = 50/3"										
													Total Depth = 12.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.511383, Long. -119.857110
Auger Refusal at 12.5 ft.

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LOG OF BORING B-03

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/25/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SILT (ML), trace Sand, brown, stiff to hard, dry to moist, trace roots
	2		N = 13	7									
	3												
	4												Roots grade out
	5		N = 26										
	6												
	7												
	8		N = 32	7									
	9												
	10		N = 30										
	11												
	12												SILTY GRAVEL (GM), brown, dense to very dense, dry to moist, fine grained
	13		N = 48										
	14												
	15		N = 53										
													Total Depth = 15.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.511393, Long. -119.845316

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LOG OF BORING B-04

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/26/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SILTY SAND (SM), light brown, soft to hard, dry to moist
	2		N = 5	6	NP	NP	NP					36	
	3												
	4												
	5		N = 23	9									
	6												
	7												
	8		N = 18										
	9												
	10		N = 25										
	11												
	12												
	13		N = 39										
	14												
	15		N = 52										
													Total Depth = 15.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.516197, Long. -119.820139

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LOG OF BORING B-05

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/26/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SILT (ML), trace Sand, light brown, medium stiff to hard, dry to moist
	2		N = 8										
	3												
	4												Grading with Sand
	5		N = 4	8	NP	NP	NP					74	
	6												
	7												
	8		N = 21	6									
	9												Grading trace Gravel
	10		N = 50/5"										
	11												
	12												
			N = 50/6"										SILTY GRAVEL (GM), brown, very dense, dry to moist, medium grained
													Total Depth = 12.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.511022, Long. -119.817713
Auger Refusal at 12.5 ft.

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LOG OF BORING B-06

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/26/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SILT (ML), trace Sand, light brown, very stiff to hard, dry to moist
	2		N = 17										
	3												
	4												Grading trace Gravel
	5		N = 55										
	6												
	7		N = 50/5"										Grading with Gravel, brown
													Total Depth = 7.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.504646, Long. -119.868338
Auger Refusal at 7.5 ft.

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LOG OF BORING B-07

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/26/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												
	2		N = 4	7									SILT (ML), trace Sand, light brown, soft to very stiff, dry to moist
	3												
	4												Grading trace Gravel
	5		N = 20										
	6												
	7												SILTY SAND (SM), trace Gravel, brown, very dense, dry to moist, fine grained
	8		N = 50/3"										
	9												
	10		N = 55	6									
													Total Depth = 10.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.502490, Long. -119.858760
Auger Refusal at 10.5 ft.

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LOG OF BORING B-08

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/26/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT LL	ATTERBERG LIMITS: PLASTIC LIMIT PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SILT (ML), trace Sand, brown, stiff to very stiff, dry to moist
	2		N = 9										
	3												
	4												
	5		N = 18										
	6												
	7												
	8		N = 14										
	9												
	10		N = 17										
	11												
	12												
	13		N = 14										
	14												
	15		N = 15										
													Total Depth = 15.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.505053, Long. -119.845929

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LOG OF BORING B-09

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/27/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SILT (ML), trace Sand, light brown, stiff to hard, dry to moist
	2		N = 9	8									
	3												
	4												
	5		N = 21	7									
	6												
	7												
	8		N = 11	8									
	9												
	10		N = 14										
	11												
	12												
	13		N = 25	11									
	14												
	15		N = 35										
													Total Depth = 15.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.503270, Long. -119.833846

DRAFT - FOR REVIEW PURPOSES ONLY

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LOG OF BORING B-10

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/27/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SILT (ML), trace Sand, light brown, stiff to hard, dry to moist
	2		N = 15										
	3												
	4												
	5		N = 25										
	6												
	7												Grading with Gravel, brown
	8		N = 83										
													Total Depth = 8.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.505070, Long. -119.815266
Auger Refusal at 8.5 ft.

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LOG OF BORING B-11

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/28/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS: LIQUID LIMIT LL	ATTERBERG LIMITS: PLASTIC LIMIT PL	ATTERBERG LIMITS: PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													6 in. Topsoil
	1												SILT (ML), with Gravel, light brown, hard, dry to moist
	2		N = 81										
	3												
	4												
	5		N = 69										
	6												
	7												
	8		N = 94/8"										
													Total Depth = 8.5 ft.

FIELD DATA / LABORATORY DATA

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.496697, Long. -119.868162
Auger Refusal at 8.5 ft.

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LOG OF BORING B-12

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/28/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													6 in. Topsoil
	1												SILT (ML), trace Sand, light brown, stiff to hard, dry to moist
	2		N = 12	4									
	3												
	4												
	5		N = 31	4									
	6												
	7												Grading with Gravel
	8		N = 80/11"										
													Total Depth = 8.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.493569, Long. -119.860740
Auger Refusal at 8.5 ft.

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LOG OF BORING B-13

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/28/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													5 in. Topsoil
	1												SILT (ML), trace Sand, light brown, very stiff to hard, dry to moist
	2		N = 36										
	3												
	4												Grading with Gravel
	5		N = 22										
													Total Depth = 5.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.496232, Long. -119.850880
Auger Refusal at 5.5 ft.

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LOG OF BORING B-14

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052

DATE(S) DRILLED: 10/27/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	PLASTIC LIMIT PL	PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SANDY SILT (ML), with Gravel, light brown, medium stiff to hard, dry to moist
	2		N = 7	7	NP	NP	NP					62	
	3												
	4												
	5		N = 9										
	6												
	7												
	8		N = 16	7									
	9												
	10		N = 17										
	11												
	12												
	13		N = 32										
	14												
	15		N = 51										
													Total Depth = 15.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.493063, Long. -119.841913

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LOG OF BORING B-15

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/27/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SILT (ML), trace Sand, light brown, medium stiff to hard, dry to moist
	2		N = 5	9									
	3												
	4												
	5		N = 8	6									
	6												
	7												Grading with Gravel
	8		N = 71										
	9												
	10		N = 50/6"										
	11												
	12												
	13		N = 44										
	14												
	15		N = 52										
													Total Depth = 15.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.497007, Long. -119.829622

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LOG OF BORING B-16

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/27/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SILT (ML), trace Sand, light brown, medium stiff to stiff, dry to moist
	2		N = 9	6									
	3												
	4												Grading trace Gravel
	5		N = 6										
	6												
	7												SILTY SAND (SM), light brown, loose to very dense, dry to moist, fine grained
	8		N = 7	6	NP	NP	NP					46	
	9												Grading with Gravel, brown
	10		N = 20	4									
	11												
	12												
	13		N = 68										
	14		N = 50/6"										
													Total Depth = 14.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.487972, Long. -119.845966

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LOG OF BORING B-17

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/27/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													1 ft. Topsoil
	1												SILT (ML), trace Sand, light brown, stiff to hard, dry to moist
	2		N = 15										
	3												
	4												
	5		N = 10										
	6												
	7												
	8		N = 20										
	9												Grading trace Gravel
	10		N = 32										
	11												
	12												
	13		N = 19										
	14												
	15		N = 41										
													Total Depth = 15.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.498500, Long. -119.817108

DRAFT - FOR REVIEW PURPOSES ONLY

RENEWABLE LOG - LOG A GNNL01.GDT - 11/23/21 17:33 - R:\OPERATIONS\OP2\02 DESIGN\GEOTECHNICAL\G DRIVE\GINT\PROJECTS\2021\WAUTOMA SOLAR-GE2110052\WAUTOMA SOLAR-GE2110052.GPJ

LOG OF BORING B-18

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/27/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													10 in. Topsoil
	1												SILT (ML), with Gravel, brown, very stiff to hard, dry to moist
	2		N = 18										
	3												
	4												
	5		N = 28										
	6												
	7												
	8		N = 31										
	9												
	10		N = 21										
	11												
	12												
	13		N = 44										
	14												
	15		N = 57										
													Total Depth = 15.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.488571, Long. -119.831616

DRAFT - FOR REVIEW PURPOSES ONLY

RENEWABLE LOG - LOG A GNNL01.GDT - 11/23/21 17:33 - R:\OPERATIONS\OP2\02 DESIGN\GEOTECHNICAL\G DRIVE\GINT\PROJECTS\2021\WAUTOMA SOLAR-GE2110052\WAUTOMA SOLAR-GE2110052.GPJ

LOG OF BORING B-19

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/28/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													6 in. Topsoil
	1												SILT (ML), trace Sand, light brown, stiff to hard, dry to moist
	2		N = 13	5									
	3												
	4												Grading with Gravel
	5		N = 23	4									
	6												
	7												
	8		N = 16										
	9												
	10		N = 50/6"										Total Depth = 10 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.514033, Long. -119.801567
Auger Refusal at 10.5 ft.

DRAFT - FOR REVIEW PURPOSES ONLY

RENEWABLE LOG - LOG A GNNL01.GDT - 11/23/21 17:33 - R:\OPERATIONS\OP2\02 DESIGN\GEOTECHNICAL\G DRIVE\GINT\PROJECTS\2021\WAUTOMA SOLAR-GE2110052\WAUTOMA SOLAR-GE2110052.GPJ

LOG OF BORING B-20

RRC Power & Energy, LLC
810 Hesters Crossing Rd, Suite 120
Round Rock, TX 78681
Telephone: (512) 992-2087

CLIENT: Innergex Renewables US, LLC
PROJECT: Wautoma Solar
LOCATION: Benton County, Washington
NUMBER: GE2110052
DATE(S) DRILLED: 10/28/2021

DRILLING METHOD(S):
Hollow Stem Auger

GROUNDWATER INFORMATION:
Groundwater not encountered during or immediately after drilling

SURFACE ELEVATION (FT):

FIELD DATA				LABORATORY DATA									
SOIL SYMBOL	DEPTH (FT)	SAMPLES	N: BLOWS/FT P: TONS/SQ FT T: BLOWS R: % RQD: %	MOISTURE CONTENT (%)	ATTERBERG LIMITS LIQUID LIMIT LL	ATTERBERG LIMITS PLASTIC LIMIT PL	ATTERBERG LIMITS PLASTICITY INDEX PI	DRY DENSITY POUNDS/CU.FT	COMPRESSIVE STRENGTH (TONS/SQ. FT)	STRAIN AT FAILURE (%)	CONFINING PRESSURE (POUNDS/SQ IN)	MINUS NO. 200 SIEVE (%)	DESCRIPTION OF STRATUM
													8 in. Topsoil
	1												SILT (ML), with Sand, light brown, medium stiff to hard, dry to moist
	2		N = 5	5	NP	NP	NP					74	
	3												
	4												Grading with Gravel
	5		N = 89/11"	7									
													Total Depth = 5.5 ft.

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - TXDOT CONE PENETRATION RESISTANCE
R - ROCK CORE RECOVERY
RQD - ROCK QUALITY DESIGNATION

REMARKS:
GPS COORDINATES: Lat. 46.493615, Long. -119.806662
Auger Refusal at 5.5 ft.

DRAFT - FOR REVIEW PURPOSES ONLY

RENEWABLE LOG - LOG A GNNL01.GDT - 11/23/21 17:33 - R:\OPERATIONS\OP2\02 DESIGN\GEOTECHNICAL\G DRIVE\GINT\PROJECTS\2021\WAUTOMA SOLAR-GE2110052\WAUTOMA SOLAR-GE2110052.GPJ