

Town Designated Engineer Proposal

2603 Guilderland Avenue
Schenectady, NY 12306

T 518 393 7725
F 518 393 2324
E Info@ingallsllp.com

www.ingallsllp.com

June 29, 2022

Mr. Dale Warner
Town of Duaneburg
Department of Planning & Zoning
5853 Western Turnpike
Duaneburg, New York 12056

Re: Sketch Plan / SWPPP Review
Wishy Wash Car Wash
9938 Western Turnpike, Duaneburg, NY

Dear Mr. Warner:

In response to your request, Ingalls & Associates, LLP (*Ingalls*) is pleased to provide a proposal for engineering review services to the Planning Board regarding the proposed sketch plan application and SWPPP for a proposed expansion to the existing Wishy Wash Car Wash at the above noted property.

Project Understanding

Ingalls has completed a review of the conceptual project information provided, and understands the following relative to the Site Plans, Special Use Permit, SWPPP, Environmental Assessment Form and Applications:

- The project consists of an addition to an existing car wash facility on a 4.75-acre parcel with Tax map ID # 55.00-4-11.6. The addition includes a 985± SF building addition to provide one (1) new truck bay on the west side of the existing facility, and a new crusher run parking area for the staging of vehicles. The application also includes the addition of a future food wagon.
- The project includes greater than 1 acre of commercial disturbance and is subject to the current New York State Department of Environmental Conservation's (NYSDEC) Stormwater Regulations, including Green Infrastructure and Runoff Reduction standards, as well as the SPDES General Permit, GP-0-20-001, including post construction stormwater controls.

Below is a description of the tasks to be completed and estimated fees for the services:

Task 1 - SEQR Review-Coordination & Special Use Permit

- Verification of completeness of application packages and documents. Specific review will include the Special Use application and supporting documents (reference is made to Zoning Law 14.6.2.1).
- Review of completeness of the Short Environmental Assessment Form and assistance to the Town to ensure compliance with applicable SEQRA requirements. Ingalls will assist with review of a potential SEQR resolution for evaluation of potential environmental impacts. Specific

environmental concerns are anticipated to be potential impacts from visual, noise, stormwater and public safety.

Task 2 – Special Use Permit-Site Plan Review -Preliminary and Final Site Plan Review will include:

- Review of compliance with the Town Zoning Ordinance (referenced Zoning Law).
- Review of proposed lighting, landscaping and potential visual impacts.
- Review of proposed signage and compliance with Section 13.4 of the Zoning Ordinance.
- Review of the set of Plans either already created or anticipated to be created for the proposed development, including, but not limited to Existing Conditions Plan, Site Plan, Grading and Utility Plan, Erosions and Sediment Control and Details, Landscaping Plan and renderings.

Task 3 - Stormwater Management Plan & SWPPP Review

Ingalls will review the SWPPP Report and associated Stormwater Management Plans. This review will include verification that the proposal meets the requirements established within the New York State Stormwater Design Manual, as created by the New York State Department of Environmental Conservation (NYSDEC) GP-0-20-001 regulations for stormwater generated from Construction Activities.

Task 4 - Review/Comment Letters

It is assumed that *Ingalls* will issue one preliminary review letter and one final review letter in response to plan revisions by the applicant's engineer, which will address all items relative to the SEQR-LEAF, Site Plan Set, Stormwater Management Plan, SWPPP and Special Use Permit-Subdivision application.

Task 5 - Meeting Representation

Ingalls anticipates preparing for and attending one (1) Planning Board meeting. Meetings will be invoiced on an hourly basis per the attached Rate Schedule.

GENERAL CONDITIONS AND ASSUMPTIONS

- All services performed in association with this proposal are subject to the attached, "Standard Conditions for Engagement".
- Payment for our services shall be in accordance with the fees listed above.
- Any schedule conveyed to the Client is only an estimate and not a guarantee. The final schedule is subject to meeting schedules and any unanticipated circumstances encountered during the review process.
- The scope and fees presented in this proposal assume all work outlined herein is performed by *Ingalls*, unless specified. Should the client request any additional services or elect to have any services outlined herein deleted or provided by others, this proposal shall be revised and the fee renegotiated.

Time and Materials Estimates		
Task	Description	Estimated Fee
1	SEQR Review-Coordination & Special Use Permit	\$300
2	Special Use Permit-Site Plan Review	\$1,900
3	Stormwater Management Plan & SWPPP Review	Included in task 2
4	Review/Comment Letters	Included above
5	Meeting Representation-Hourly	\$300 (Budget)
Total Estimated Fee		\$2,500

TIME BASIS SERVICES

Any required services, which are not specifically included within this scope of services shall be performed on a time basis or mutually agreed upon lump sum fee as authorized by the client per change order request.

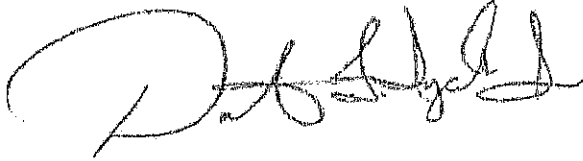
2022 HOURLY RATE SCHEDULE

Personnel Cost 2022 Hourly Rate Schedule	
Principal in Charge	\$200
Senior Project Engineer	\$140
Senior Engineer/Project Manager	\$130
Project Engineer	\$120
Design Engineer	\$110
Environmental Specialist	\$100 to \$150
Chief of Survey	\$175
Senior Survey Technician	\$135
Survey Crew-1 Person Robotic/GPS	\$150
Survey Crew- 2 Person	\$300
Survey Crew-1 Person Robotic/GPS Prevailing	\$225
Survey Crew- 2 Person Prevailing	\$425
Construction Inspector	\$100-\$200
Technician	\$80
Technical Aide	\$80
Administrative Assistant	\$65

Agreement

As formal authorization to proceed, please return one executed copy of this page. If you have any comments, questions or need any additional information regarding this matter, please do not hesitate to contact this office at (518) 393-7725. Thank you for the opportunity to submit the above Proposal.

Sincerely,
Ingalls & Associates, LLP



David F. Ingalls, P.E., CPESC
Principal

CONTENTS NOTED AND APPROVED:

Ingalls Proposal No. 22-083

Signature

Title

Name (Please Print)

Date

Company Name (Please Print)

Telephone

Street

City/State/Zip

Attachment: Standard Conditions for Engagement



Albany Office
100 Great Oaks Boulevard | Suite 114 | Albany, New York 12203
P: 518.382.1774

COPY

June 24, 2022

Dale Warner, Town Planner
Town of Duanesburg
5853 Western Turnpike
Duanesburg, NY 12056

**Re: Town of Duanesburg
Wishy Wash Site Plan & Special Use Permit Review
Proposal for Engineering Services**

Dear Mr. Warner:

We are pleased to submit this proposal to provide professional engineering technical assistance to the Town of Duanesburg Planning Board for the Wishy Wash Project review. The applicant proposes to construct a truck wash addition, screening fence, paving and adding food cart service at 9938 Western Turnpike (State Route 20). We propose the following scope of engineering services:

A. Base Services

1. Review of the project in accordance with the Town of Duanesburg Zoning Law and Site Plan Review Law.
2. Review the proposed Stormwater Pollution Prevention Plan (SWPPP).
3. Review of the Environmental Assessment Form Part I.
4. Attend up to two (2) Planning Board meetings where the project will be discussed.
5. Provide review and written comment on the initial and one subsequent submission by the applicant.

B. Fee

We propose that the developer provide an initial escrow amount of **\$3,375.00** for the above work, to be billed monthly on a percentage complete basis. This amount can be provided to the applicant to set up the escrow account to cover the engineering fees. The developer should be made aware that additional funds may be required if the scope of the project is changed or increased from their initial submission.

C. Exceptions and Limitations - none

D. Additional Services

Additional projects and services will be the subject of a mutually agreed and separately executed Change Order. In the event that you request additional routine services that substantively relate to the subject of this Proposal and which in our judgement do not rise to the level of a Change Order or require a new proposal, ("Out-of-Scope Services"), our fees for such services will be based on the time required for the work performed at our standard rates, plus expenses. All such services will be subject to the terms of this Proposal, including PRIME AE's Standard Terms and Conditions, attached hereto.



CONNECTING CREATING CONSERVING COMMUNITY
www.primeeng.com

E. Access to Client Facilities.

In providing the Services, PRIME AE may from time to time need to test, access, or use the Client's systems, applications, or hardware (collectively, "Client Network"). Client shall provide PRIME AE in advance of the commencement of the affected Services with a copy of Client's safety, security, and facilities policies which are applicable to the use of, and access to, the Client Network and PRIME AE shall use commercially reasonable efforts to abide by such communicated policies as appropriate under the circumstances. If compliance with such policies will prevent or impair PRIME AE from performing the Services or its obligations under this Agreement, the Parties shall work in good faith to develop reasonable exceptions to such policies. If such exceptions cannot be agreed upon, the applicable Statement(s) of Work will be modified to excuse PRIME AE's performance of the affected Services. If PRIME AE's adherence to Client's policies increases PRIME AE's costs of providing the Services, PRIME AE shall notify Client of the foregoing and Client shall pay PRIME AE for the increased costs associated with adherence to such policies.

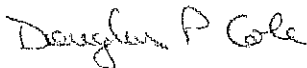
F. Terms & Conditions

Our work under this Proposal shall be performed in accordance with PRIME AE's Standard Terms and Conditions, attached hereto and hereby incorporated herein and made a part of this Proposal for all purposes as if fully set forth herein.

If you agree with this Proposal, please return an executed copy of this Proposal. If you have any questions, please feel free to contact me.

Sincerely,

KB Group of NY, Inc. dba PRIME AE Group of NY



Douglas P. Cole, P.E.
Senior Director of Engineering

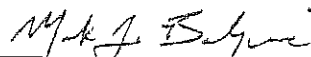
Enclosure: Standard Terms & Conditions

AGREED TO BY TOWN OF DUANESBURG:

William Wenzel, Supervisor

DATE: _____

AGREED TO BY KB GROUP OF NY, INC.
DBA PRIME AE GROUP OF NY:



Mark J. Buchenic, P.E. – Vice President

DATE: 06/24/2022

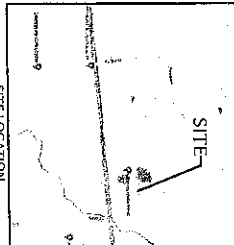
LANDS USE: RESIDENTIAL
 85-1-3-33-1-28

LANDS USE: RESIDENTIAL
 85-1-3-33-1-28

LANDS USE: RESIDENTIAL
 85-1-3-33-1-28

LIMITS OF INTERFERENCE
 1216.42 AC
 1216.42 AC
 1216.42 AC

SITE LOCATION



NOTES:
 1. THIS PLAN IS TO BE APPROVED BY THE BOARD OF SUPERVISORS AND A VOUCHER.
 2. THE PLANS SHOW ONLY THE GENERAL LAYOUT OF THE STRUCTURES AND UTILITIES. THE EXACT LOCATION AND DIMENSIONS OF THE STRUCTURES AND UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

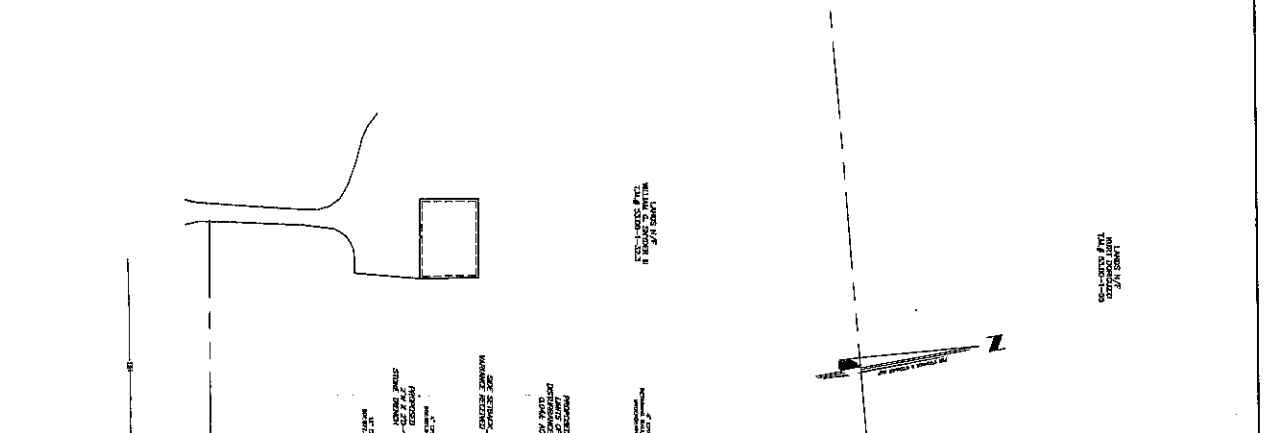
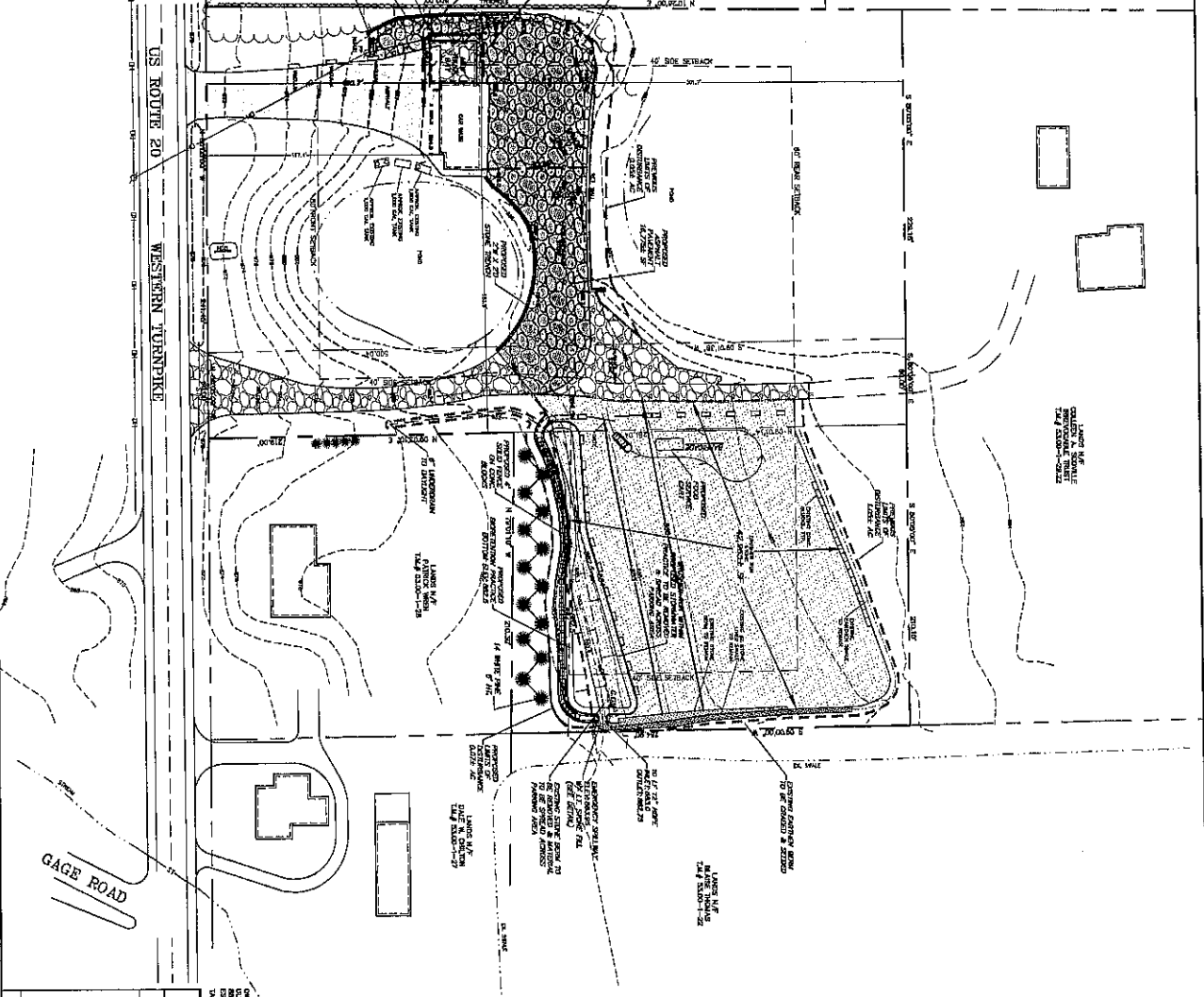
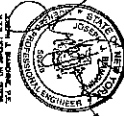
PLAN REVISIONS:
 1. PLAN NUMBER: 08-020-01-001
 2. PLAN DATE: 08/20/01
 3. PLAN SCALE: AS SHOWN

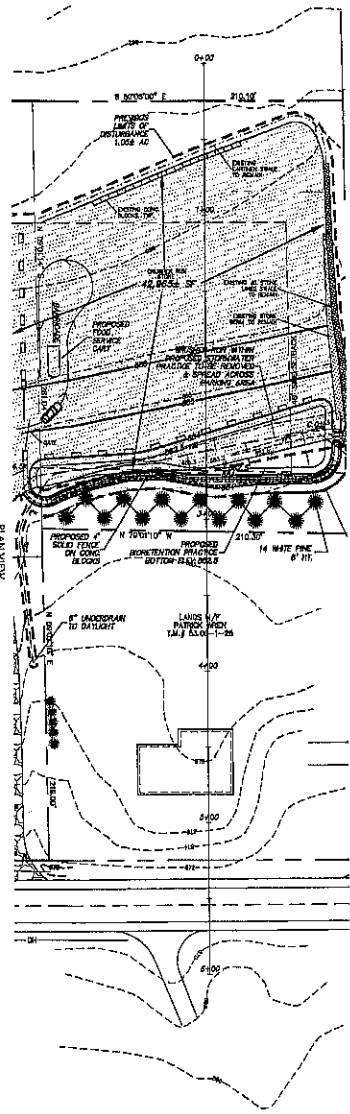
PROJECT DATA:
 PROJECT NAME: CAR WASH ADDITION
 PROJECT NUMBER: 08-020-01-001
 PROJECT LOCATION: 9938 WESTERN TURNPIKE
 PROJECT OWNER: DINGINBERG, L.L.P.
 PROJECT ARCHITECT: [Firm Name]

ULTIMATE WISHY WASH
 CAR WASH ADDITION
 9938 WESTERN TURNPIKE

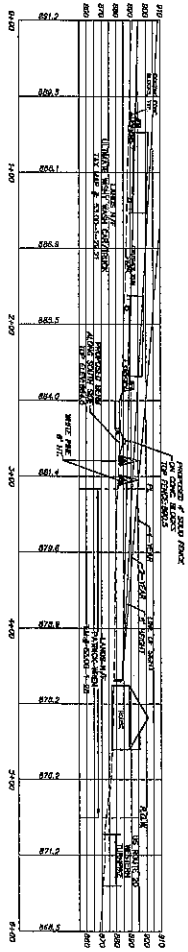
DESIGNER: DINGINBERG, L.L.P.
 9938 WESTERN TURNPIKE
 SCARSDALE, NY 12159
 518-477-0315 FAX 518-477-0399

NO.	REVISION	DATE	BY
1.	STORMWATER UPDATED	7/7/02	TAZ





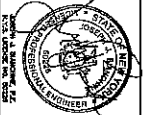
SCALE 1"=40' HORIZONTAL & VERTICAL
PLAN VIEW



SCALE 1"=40' HORIZONTAL & VERTICAL
CROSS SECTION

OWNER:
ULTIMATE WISHY WASH, LLC/INBOX
DESIGNER:
SANDHENS, LLP
NO. 3000 N. WESTERN TURNPIKE
SHEPHERD, WV 26165
304.427.7821

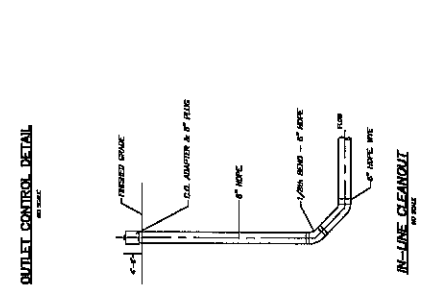
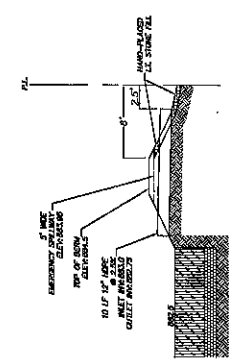
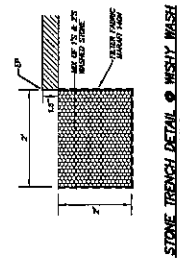
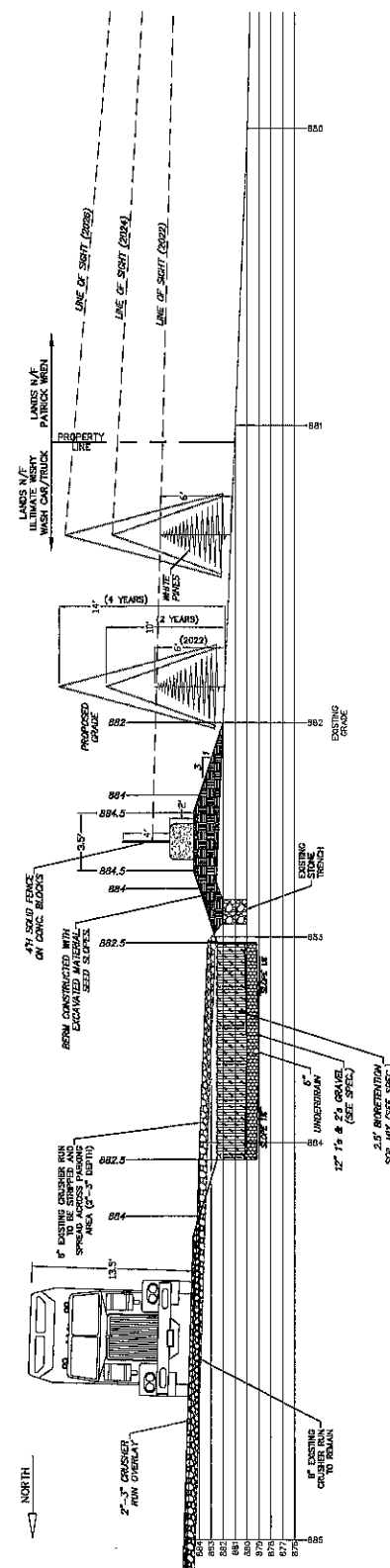
APPROVED BY THE
COUNTY CLERK OF A
COUNTY IN WEST VIRGINIA
COMMERCIAL RECORDING



CROSS SECTION
SIGHT LINE TO TRUCK PARKING AREA
ULTIMATE WISHY WASH
2938 WESTERN TURNPIKE
SHEPHERD, WV 26165

TOWN OF QUINCY
COUNTY OF SHERBURN
SANDHENS, LLP
SHEPHERD, WV 26165
304.427.7821
DATE: MAY 13, 2022
SCALE: AS SHOWN
SHEET 2 OF 3

NO.	REVISION	BY	DATE
1	STORMWATER UPDATES	TLD	02/14/22

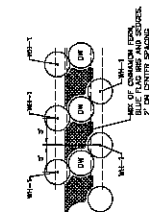


CROSS SECTION DETAIL
1" = 2'

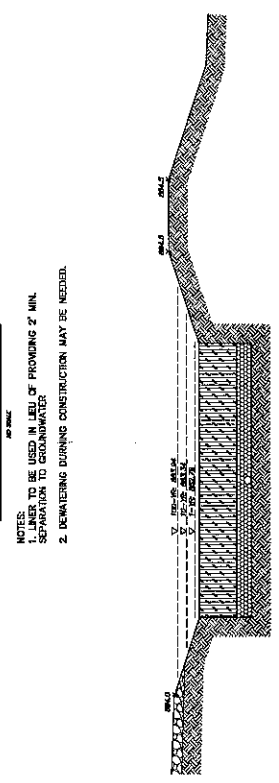
PROPOSED PLANTING SCHEDULE

KEY	SYMBOL	PLANTING SCHEDULE	DATE	QUANTITY	REMARKS
1	1/4"	1.5" - 2" H.P. @ 12' ON C	22	20	PLANTING SCHEDULE
2	2"	2" - 4" H.P. @ 12' ON C	42	20	PLANTING SCHEDULE
3	3"	3" - 4" H.P. @ 12' ON C	46	20	PLANTING SCHEDULE
4	4"	4" - 6" H.P. @ 12' ON C	18	20	PLANTING SCHEDULE

NOTES:
- PLANTING SCHEDULE TO BE PLANTED AT THE EDGE OF THE DRIVE.
- 10' WIDE AND 12" DEEP TRENCH TO BE PLANTED AT THE EDGE OF THE DRIVE.
- 10' WIDE AND 12" DEEP TRENCH TO BE PLANTED AT THE EDGE OF THE DRIVE.
- 10' WIDE AND 12" DEEP TRENCH TO BE PLANTED AT THE EDGE OF THE DRIVE.
- 10' WIDE AND 12" DEEP TRENCH TO BE PLANTED AT THE EDGE OF THE DRIVE.

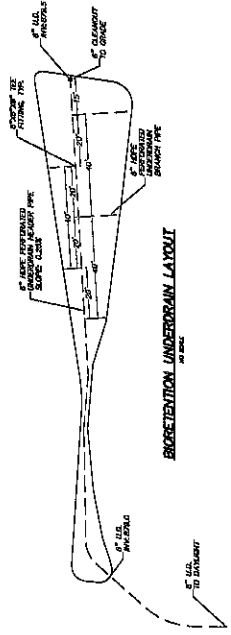


TYPICAL BROKERATION DETAIL
1" = 2'

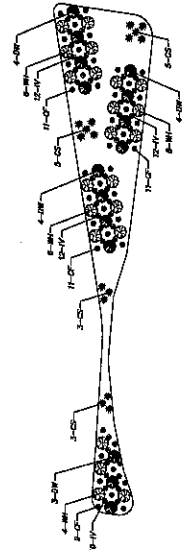


TYPICAL BROKERATION DETAIL
1" = 2'

- NOTES:
1. TO BE USED IN LIEU OF PROVIDING 2" MIN. SEPARATION TO GROUNDWATER.
2. DEWATERING DURING CONSTRUCTION MAY BE NEEDED.



BROKERATION UNDERRAIN LAYOUT
1" = 2'



BROKERATION PLANTING LAYOUT
1" = 2'

PROJECT: ULTIMATE WASH WASH CHY/TRUCK
EXHIBIT: EXHIBIT A
DATE: MAY 22, 2022

NO.	REVISION	DATE
1	FORWARDERS UPDATES	7/17/22

ULTIMATE WASH WASH
SITE DETAILS
CAR WASH ADDITION
9708 WESTERN TUBSPOKE
STATE OF MICHIGAN
COUNTY OF EMERSON

ENGINEERS, LLP
10000 W. BURNHAM RD.
SOUTHFIELD, MI 48034
58137-0415 Fax: 313-687-9379
www.abengr.com

DATE: MAY 22, 2022
SCALE: AS SHOWN
SHEET: 3 OF 3





ORIGINAL

TOWN OF DUANESBURG

APPLICATION FOR SITE/ SKETCH DEVELOPMENT PLAN APPROVAL

Preliminary Date: June 6, 2022 Final Date: _____
(Check appropriate box)

Name of proposed development Wishy Wash

Applicant:

Name Spiro Kagas
Address 9938 Western Turnpike
Duanesburg, NY 12056
Telephone _____

Plans Prepared by:

Name Joseph J. Bianchine, P.E., ABD Engineers, LLP
Address 411 Union Street
Schenectady, NY 12305
Telephone 518-377-0315

Owner (if different):

(if more than one owner, provide information for each)

Name _____
Address _____
Telephone _____

Ownership intentions, i.e., purchase options
Existing owner to retain

Location of site

9938 Western Turnpike

Section 53.00 Block 1 Lot 29.21

Current zoning classification C-1 Commercial

State and federal permits needed (list type and appropriate department)
N/A

Proposed use(s) of site

Car/truck wash facility

Total site area (square feet or acres) 4.75 AC

Anticipated construction time 3 Months

Will development be phased? Yes

Over →

Current land use of site (agricultural, commercial, underdeveloped, etc.)

Commercial

Current condition of site (buildings, brush, etc.) Existing building, asphalt pavement, crusher run stone

Character of surrounding lands (suburban, agricultural, wetlands, etc.) Residential/Agricultural

Estimated cost of proposed improvement \$ 50,000

Anticipated increase in number of residents, shoppers, employees, etc. (as applicable)

1 additional truck customer per day, no new employees, 15-20 trips for food

Describe proposed use, including primary and secondary uses; ground floor area; height; and number of stories for each building:

- for residential buildings include number of dwelling units by size (efficiency, one-bedroom, two-bedroom, three or more bedrooms) and number of parking spaces to be provided.
- For non-residential buildings, include total floor area sales area; number of automobile and truck parking spaces,
- Other proposed structures.

(Use separate sheet if needed)

Primary: 985± square foot building addition to provide one (1) new truck bay on the west side of the existing wash facility.

Secondary: Crusher run stone parking area for temporary staging of vehicles prior to entering wash facility.

Future food wagon.

NOTICE OF DETERMINATION
of the Town of Duanesburg

Date of Determination June 9, 2022

Application of Wisky Wash (Spirid Kugas) under section _____ of the (Village of Delanson/ Town of Duanesburg) Ordinance.

Applicant MOB Engineering
Address 411 Union St.
Schenectady, NY 12305

Phone 518-377-0315 Zoning District C-1 SBL# 53.00-1-29.21

Description of Project: storm water control plan for additional parking
Avee and new truck wash bay

Determination: special use & site plan approval

Reason supporting determination:
Town of Duanesburg zoning Ordinance adopted 6/11/15
section 14.6.2.1, 5.2.2, 14.6.1.1, 14.6.1.2, 14.6.1.3, 14.6.1.4
14.6.1.5, 14.6.1.6, 14.6.1.7, 14.6.1.8, 14.6.1.9, 14.6.2

Action: Refer to Planning Board for the purpose of special use & site plan approval

Code Enforcement Officer: [Signature]

DRAINAGE NARRATIVE

Car Wash – Truck Parking Area 9938 Western Turnpike Town of Duanesburg

May 12, 2022

The Ultimate Wishy Wash car wash is located at 9938 Western Turnpike in the Town of Duanesburg. The Owner has recently constructed a crusher run stone parking area on the east side of the property to provide temporary staging of trucks as they wait to be washed. A minimum of 8” of crusher run stone was installed with an underlying layer of stabilization fabric to provide an even surface for vehicles to maneuver. Concrete blocks have been placed along the western and northern perimeter of the parking area to delineate the extent of the lot. A gate is located at the entrance of the parking area in the southwest corner. Along the north side of the parking area, an earthen swale was constructed to intercept incoming runoff from the northern slope. The water is conveyed east around the crusher run stone and enters another stone lined swale that was constructed along the eastern edge of the parking area. This swale runs south and ultimately discharges to the existing swale located on the Thomas property. An additional stone trench was constructed along the southern edge of the parking area which will collect surface runoff from the crusher run as well as intercept any subsurface drainage prior to reaching the Wren property. The stone trench also outlets east to the existing swale.

According to the NRCS “Soil Survey of Schenectady County, New York” the existing soil composition in this area consists of channery silt loams. The hydrologic soil group is C/D and the drainage class is somewhat poorly drained. Hydrologic soil groups are based on estimates of runoff potential and are assigned to one of four groups (A, B, C, D) according to the rate of water infiltration. Group D represents soils having a very slow infiltration rate (high runoff potential) and that have a high water table. The presence of Group D soils within the contributing drainage area will lead to a greater amount of runoff generated due to the inability of the ground to absorb water during storm events. As a result, undeveloped land consisting of Group D soils can produce large amounts of stormwater runoff even with no impervious surfaces present. Moderate to steep slopes can also exacerbate peak runoff rates as water flows down at

higher velocities and reduces the time of concentration. Based on the soil composition and existing topography in the vicinity of the Wishy Wash property, it can be ascertained that there was a high potential for runoff from the meadow and wooded areas prior to the construction of the parking area.

The existing topography of the subject parcel and surrounding properties is predominantly sloping from north to south. An existing stream is present to the east of the project which flows southwest and ultimately crosses under Western Turnpike via a culvert in front of the residence at 9848 Western Turnpike. This stream is a tributary of the Schoharie Creek and has a total contributing drainage area of 2± square miles prior to crossing Western Turnpike (refer to the attached USGS StreamStats report). There is an existing swale along the adjoining boundary between the Ultimate Wishy Wash and Thomas properties which runs north to south. The swale then turns east at the common property corner of the Ultimate Wishy Wash, Wren, Chilton, and Thomas. The swale continues east along the rear boundary of the Chilton property and ultimately discharges into the existing stream. Contributing runoff to the swale extends approximately 3,000 feet to the north and originates from grass fields and wooded areas. Upon inspection, the swale appears to have adequate capacity to convey the incoming flow of runoff. However, there appears to be debris and obstructions present which should be removed to ensure the continuous flow of water along the Chilton and Thomas properties.

There is a portion of land to the west of the existing swale which is sloped north to south and flows parallel to the swale through the Wishy Wash parcel (refer to the attached drainage map). The pre-development ground cover in the location of the parking area consisted of a meadow which contained three tile drains running north to south. The drain tiles discharged at the adjoining property line with lands of Wren. During construction of the parking area, the drain tiles were terminated in order to prevent future runoff to the Wren property. A diversion swale was installed along the northern side of the parking area to convey incoming runoff around the crusher run stone and down to the existing eastern swale. A portion of rainfall from the northern slope will percolate through the existing 8"-12" of topsoil, but will then be unable to penetrate the underlying Group D soil. This water will continue to flow down the slope along the subsurface soil interface where it will be intercepted and rerouted by the diversion swale. As a

result of the modifications, the amount of runoff flowing to the Wren property is now significantly reduced.

Installation of the crusher run stone began once clearing and grubbing operations were complete. The topography of the existing meadow was revealed once the vegetation was removed and consisted of a cross slope from the northwest to the southeast corner. The final grade of the crusher run surface was constructed to match the existing slope and maintain the pre-development drainage pattern running to the southeast corner. A stone berm is present along the eastern edge of the parking area and a southern impervious clay berm will be added along the southern edge in order to attenuate runoff on the low end of the crusher run surface during larger storm events. The existing southern stone trench will remain along the north side of the berm to provide additional storage within the stone voids. Water is then slowly released beyond the berm to the existing eastern swale via a new 6" diameter pipe to be installed through the southeast corner of the berm. The post-development peak flow rates are reduced to below the pre-development condition up to the 100-year storm event (refer to the attached HydroCAD runoff calculations).

A car wash addition is also proposed which will consist of a new truck bay adjacent to the existing building. Construction of the new structure will occur over existing crusher run stone. The area of existing crusher run stone to the north is to be paved where vehicles will be maneuvering as they enter the building. Two new stone trenches are proposed along the edge of pavement that will collect stormwater from the asphalt surface. There is a negligible difference in runoff volume generated from the existing impervious crusher run stone and proposed impervious asphalt.

Summary

As constructed, the parking area features three drainage conveyance systems along the northern, eastern, and southern boundaries of the crusher run stone. The northern earthen diversion swale intercepts both incoming surface and subsurface runoff from the northern slope. The water is then conveyed east around the parking area and enters the eastern stone lined swale. The eastern stone swale flows south and discharges to the existing swale along the adjoining boundary between the Ultimate Wishy Wash and Thomas properties. The remaining rainfall, limited to the crusher run surface itself, flows southeast to the southern stone trench. The trench

also intercepts any subsurface drainage present below the crusher run stone and prevents runoff from reaching the Wren property. The eastern end of the stone trench ties into the stone swale and allows runoff to outlet to the existing swale. The combination of all three conveyance systems is adequate to control stormwater from smaller rainfall events, as confirmed during a site inspection which occurred after an extended rainfall period of 2.5 inches.

Minor modifications to the parking area are proposed to provide additional attenuation for larger rainfall events such as the 100-year storm. An impervious berm will be construction along the south side of the existing stone trench and will extend to connect to the existing stone berm at the southeast corner. The new L-shaped barrier will create available surface storage at the low end of the parking area up to elevation 884.75 for runoff generated on the crusher run. A new 6" pipe will be installed in the southeast corner of the berm to slowly release ponding water at rates less than the pre-development condition for the 1, 10, and 100-year storm events.

The HydroCAD results are summarized as follows:

Area 1	Peak Runoff Generated (ft ³ /s)			Peak Discharge (ft ³ /s)		
	1-Year	10-Year	100-Year	1-Year	10-Year	100-Year
Total Pre	2.81	7.42	16.35	2.81	7.42	16.35
Post 1A	2.09	5.67	12.68	1.96	5.47	12.39
Post 1B	2.25	4.29	7.75	0.54	0.89	1.14
Total Post	4.34	9.96	20.43	2.50	6.36	13.53
<i>Net Change</i>	<i>1.53</i>	<i>2.54</i>	<i>4.08</i>	<i>-0.31</i>	<i>-1.06</i>	<i>-2.82</i>

Therefore, when the area is constructed as proposed, runoff to the neighboring properties will be controlled to slightly less than the pre-development condition.



Joseph J. Bianchine, P.E.

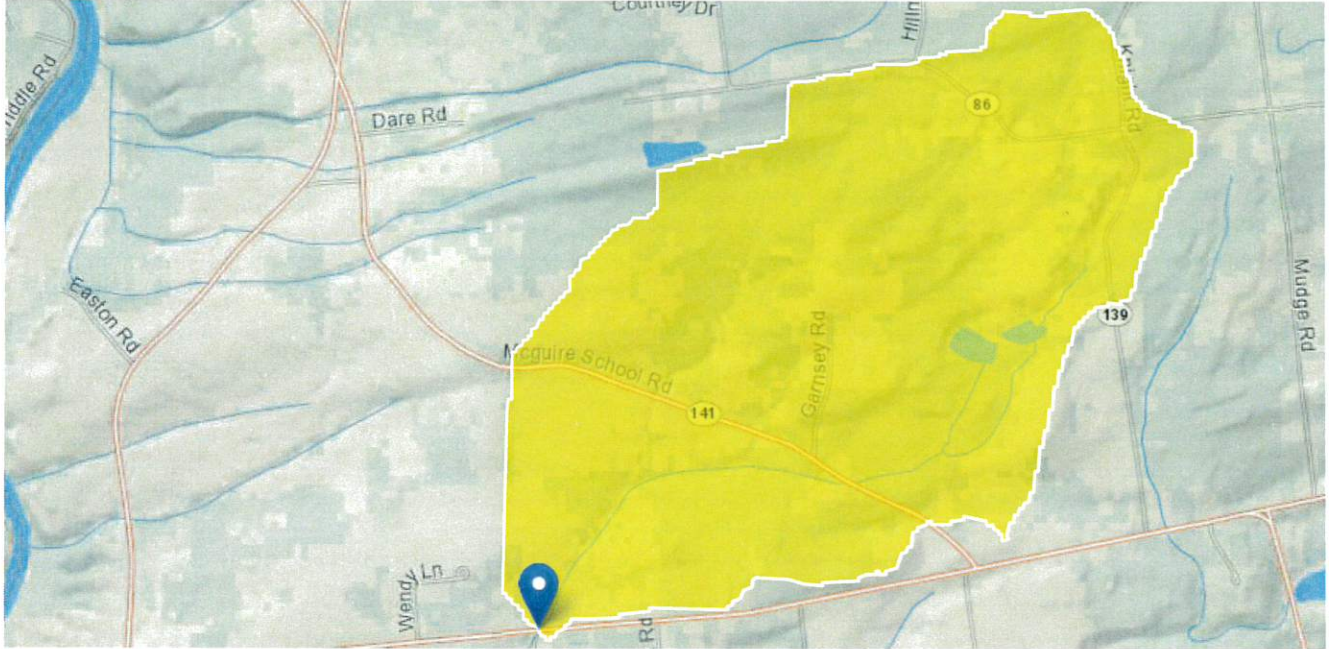
Wishy Wash - StreamStats Report

Region ID: NY

Workspace ID: NY20220425200937221000

Clicked Point (Latitude, Longitude): 42.76289, -74.22388

Time: 2022-04-25 16:10:04 -0400



9938 Western Turnpike

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CENTROIDX	Basin centroid horizontal (x) location in state plane coordinates	564789.5	meters
CENTROIDY	Basin centroid vertical (y) location in state plane units	4736085.3	meters
CSL1085LO	10-85 slope of lower half of main channel in feet per mile.	192	feet per mi
DRNAREA	Area that drains to a point on a stream	1.98	square miles
EL1200	Percentage of basin at or above 1200 ft elevation	45.8	percent
JULAVPRE	Mean July Precipitation	3.83	inches
JUNAVPRE	Mean June Precipitation	3.95	inches
JUNMAXTMP	Maximum June Temperature, in degrees F	74.9	degrees F
LAGFACTOR	Lag Factor as defined in SIR 2006-5112	0.0156	dimensionless
LENGTH	Length along the main channel from the measuring location extended to the basin divide	3.01	miles
MAR	Mean annual runoff for the period of record in inches	15.4	inches

Parameter Code	Parameter Description	Value	Unit
MAYAVPRE	Mean May Precipitation	3.77	inches
MXSNO	50th percentile of seasonal maximum snow depth from Northeast Regional Climate Center atlas by Cember and Wilks, 1993	16.8	inches
PRJUNAUG00	Basin average mean precip for June to August from PRISM 1971-2000	11.4	inches
SSURGOA	Percentage of area of Hydrologic Soil Type A from SSURGO	0	percent
SSURGOB	Percentage of area of Hydrologic Soil Type B from SSURGO	0	percent

Peak-Flow Statistics Parameters [100.0 Percent (1.98 square miles) 2006 Full Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.98	square miles	0.41	3480
LAGFACTOR	Lag Factor	0.0156	dimensionless	0.002	20.582
MAR	Mean Annual Runoff in inches	15.4	inches	16.86	40.73
MXSNO	Median Seasonal Maximum Snow Depth	16.8	inches	13.02	20.42

Peak-Flow Statistics Disclaimers [100.0 Percent (1.98 square miles) 2006 Full Region 3]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Peak-Flow Statistics Flow Report [100.0 Percent (1.98 square miles) 2006 Full Region 3]

Statistic	Value	Unit
80-percent AEP flood	39.8	ft ³ /s
66.7-percent AEP flood	52	ft ³ /s
50-percent AEP flood	71.8	ft ³ /s
20-percent AEP flood	133	ft ³ /s
10-percent AEP flood	189	ft ³ /s
4-percent AEP flood	277	ft ³ /s
2-percent AEP flood	360	ft ³ /s
1-percent AEP flood	453	ft ³ /s
0.5-percent AEP flood	561	ft ³ /s
0.2-percent AEP flood	718	ft ³ /s

Peak-Flow Statistics Citations

Lumia, Richard, Freehafer, D.A., and Smith, M.J., 2006, Magnitude and Frequency of Floods in New York: U.S. Geological Survey Scientific Investigations Report 2006-5112, 152 p. (<http://pubs.usgs.gov/sir/2006/5112/>)

Flow-Duration Statistics Parameters [Statewide duration flows excl LongIsI 2014 5220]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	1.98	square miles	3.14	4780
JUNAVPRE	Mean June Precipitation	3.95	inches	3.59	5.33
CENTROIDX	CENTROIDX	564789.5	meters	166000	658000
CENTROIDY	CENTROIDY	4736085.3	meters	4560000	4920000
CSL1085LO	10-85 slope of lower half of main channel	192	feet per mi	1.56	152
LENGTH	Main Channel Length	3.01	miles	0.88	305
MAR	Mean Annual Runoff in inches	15.4	inches	11.6	37.4
SSURGOB	SSURGO Percent Hydrologic Soil Type B	0	percent	1.14	65.7
JULAVPRE	Mean July Precipitation	3.83	inches	3.2	5.26
MAYAVPRE	Mean May Precipitation	3.77	inches	3.15	5.68
PRJUNAUG00	Basin average mean precip for June to August	11.4	inches	10.5	15.5
JUNMAXTMP	Maximum June Temperature	74.9	degrees F	68.8	78.8
SSURGOA	SSURGO Percent Hydrologic Soil Type A	0	percent	0.62	51.2
EL1200	Percentage of Basin Above 1200 ft	45.8	percent	0	100

Flow-Duration Statistics Flow Report [Statewide duration flows excl LongIsI 2014 5220]

Statistic	Value	Unit
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Flow-Duration Statistics Citations

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

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USGS Product Names Disclaimer: Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government.

Application Version: 4.8.1

StreamStats Services Version: 1.2.22

NSS Services Version: 2.1.2

Soil Map—Schenectady County, New York

74° 13' 40" W

74° 13' 22" W

42° 46' 2" N

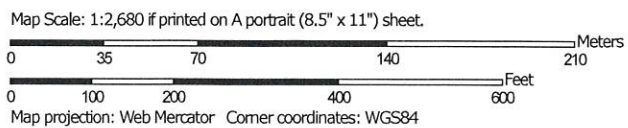
42° 46' 2" N



42° 45' 44" N

42° 45' 44" N

74° 13' 40" W



74° 13' 22" W



MAP LEGEND

- Area of Interest (AOI)
- Area of Interest (AOI)
- Soils**
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points
- Special Point Features**
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features
- Water Features**
- Streams and Canals
- Transportation**
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads
- Background**
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Schenectady County, New York
 Survey Area Data: Version 20, Sep 1, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 7, 2013—Nov 9, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BvB	Burdett-Scriba channery silt loams, 3 to 8 percent slopes	15.7	91.5%
IIB	Ilion silt loam, 3 to 8 percent slopes	1.5	8.5%
Totals for Area of Interest		17.2	100.0%

Schenectady County, New York

BvB—Burdett-Scriba channery silt loams, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: bd3j
Elevation: 200 to 1,600 feet
Mean annual precipitation: 38 to 44 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 110 to 170 days
Farmland classification: Prime farmland if drained

Map Unit Composition

Burdett and similar soils: 50 percent
Scriba and similar soils: 30 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Burdett

Setting

Landform: Till plains, hills, drumlinoid ridges
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: A thin silt mantle overlying till that is strongly influenced by shale

Typical profile

H1 - 0 to 9 inches: channery silt loam
H2 - 9 to 16 inches: channery silt loam
H3 - 16 to 44 inches: very gravelly silty clay loam
H4 - 44 to 60 inches: very gravelly silty clay loam

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 10 percent
Available water supply, 0 to 60 inches: Moderate (about 7.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: C/D
Ecological site: F101XY013NY - Moist Till
Hydric soil rating: No

Description of Scriba

Setting

Landform: Till plains, drumlins
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till dominated by sandstone, with lesser amounts of limestone and shale

Typical profile

H1 - 0 to 7 inches: channery silt loam
H2 - 7 to 15 inches: channery silt loam
Bx - 15 to 43 inches: very gravelly loam
C - 43 to 60 inches: very gravelly loam

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 12 to 18 inches to fragipan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water supply, 0 to 60 inches: Very low (about 1.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Darien

Percent of map unit: 5 percent
Hydric soil rating: No

Illion

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Varick

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

Angola

Percent of map unit: 5 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Schenectady County, New York

Survey Area Data: Version 20, Sep 1, 2021

Schenectady County, New York

IIB—Illion silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: bd4v
Elevation: 600 to 1,800 feet
Mean annual precipitation: 38 to 44 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 110 to 170 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Illion and similar soils: 75 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Illion

Setting

Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Loamy till derived from calcareous dark shale

Typical profile

Ap - 0 to 9 inches: silt loam
E - 9 to 14 inches: silty clay loam
2B - 14 to 39 inches: channery silty clay loam
3C - 39 to 60 inches: gravelly silt loam

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Calcium carbonate, maximum content: 10 percent
Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: C/D
Ecological site: F101XY014NY - Wet Till Depression

Hydric soil rating: Yes

Minor Components

Fonda

Percent of map unit: 5 percent

Landform: Depressions

Hydric soil rating: Yes

Burdett

Percent of map unit: 5 percent

Hydric soil rating: No

Varick

Percent of map unit: 5 percent

Landform: Depressions

Hydric soil rating: Yes

Scriba

Percent of map unit: 5 percent

Hydric soil rating: No

Madalin

Percent of map unit: 5 percent

Landform: Depressions

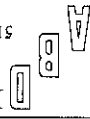
Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Schenectady County, New York

Survey Area Data: Version 20, Sep 1, 2021

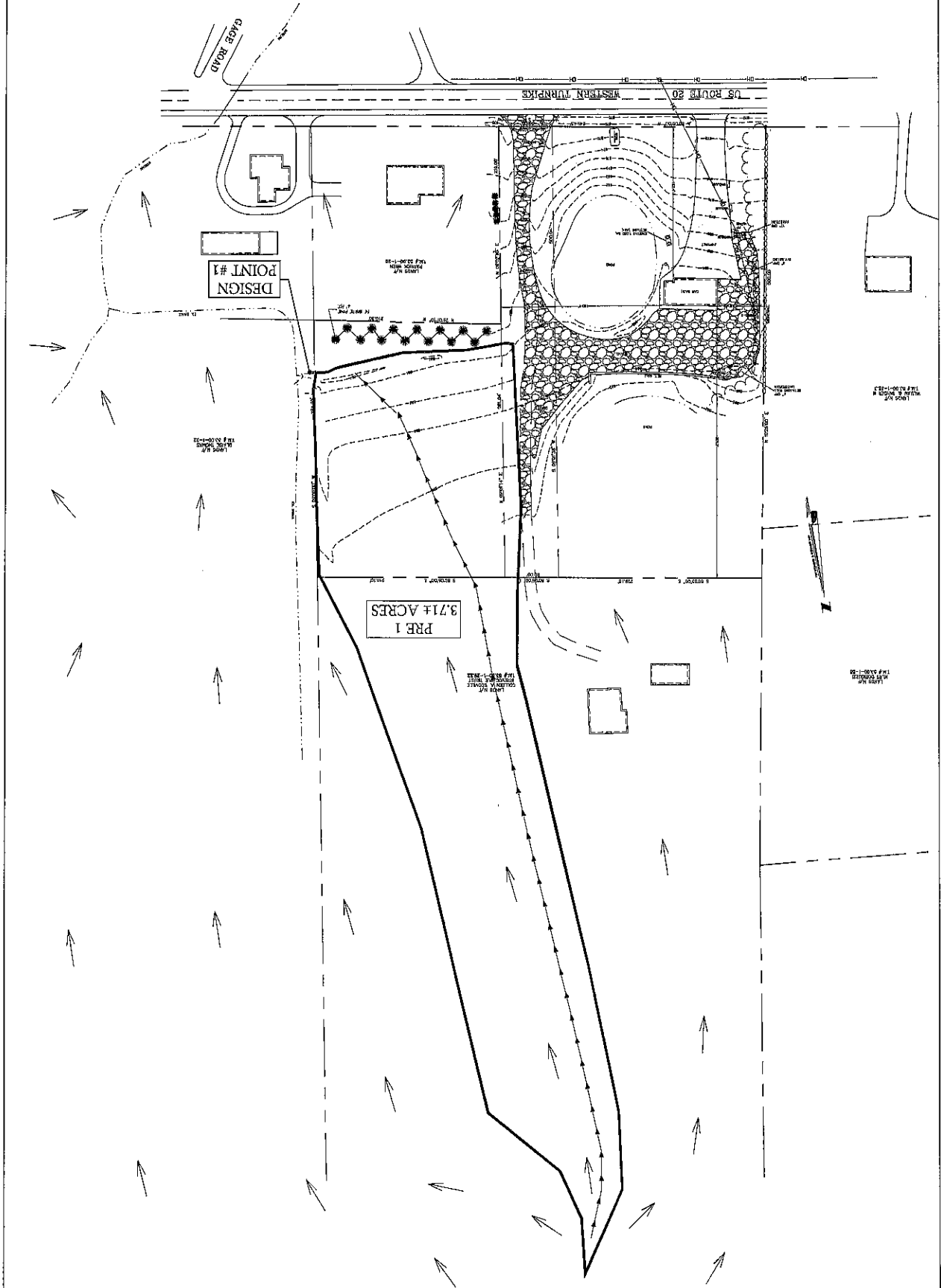
ENGINEERS, LLP
411 Union Street
Schenectady, NY 12305
518-377-0315 Fax 518-377-0379
www.abdong.com




ULTIMATE WISHY WASH

PRE-DEVELOPMENT DRAINAGE

9938 WESTERN TURNPIKE

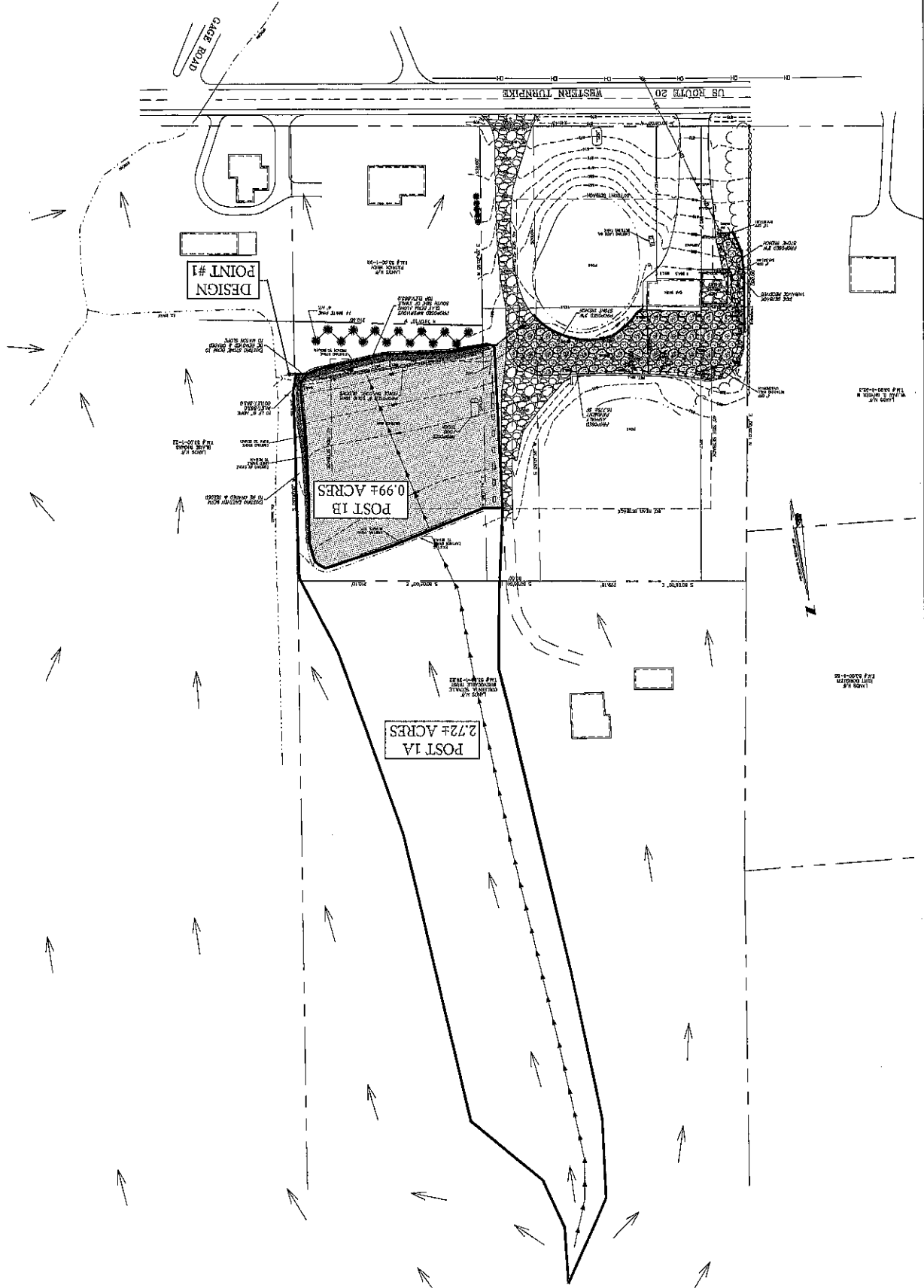



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ENGINEERS, LLP
 411 Union Street
 Schoenectady, NY 12305
 518-377-0315 Fax 518-377-0379
 www.vbodemg.com

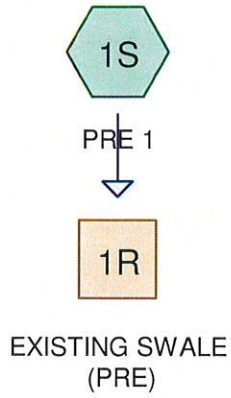
9938 WESTERN TURNPIKE

ULTIMATE WISHY WASH

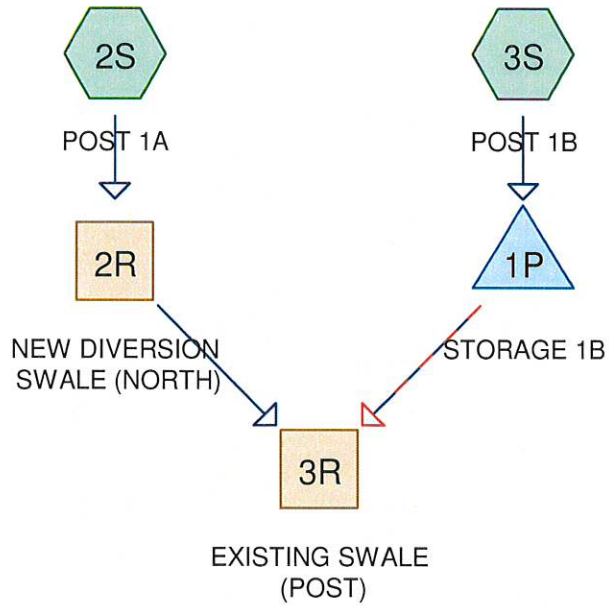
POST-DEVELOPMENT DRAINAGE



PRE-DEVELOPMENT



POST-DEVELOPMENT



Summary for Subcatchment 1S: PRE 1

Runoff = 2.81 cfs @ 12.12 hrs, Volume= 9,101 cf, Depth= 0.68"

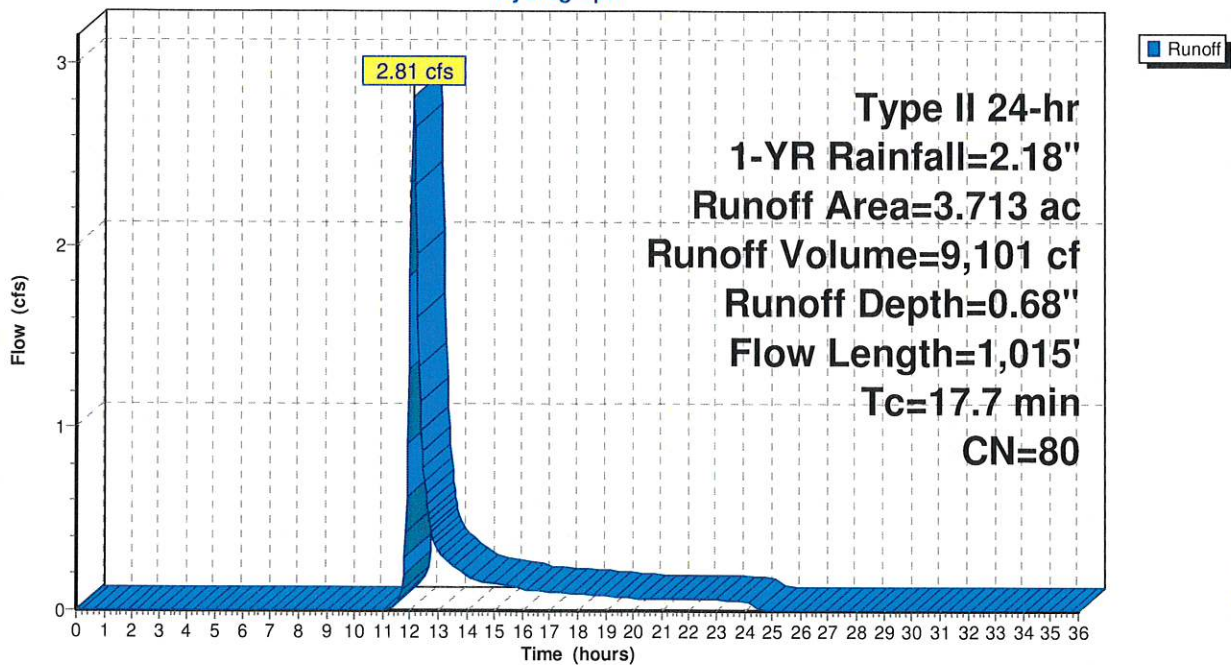
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Type II 24-hr 1-YR Rainfall=2.18"

Area (ac)	CN	Description
1.943	77	Woods, Good, HSG D
1.770	84	Pasture/grassland/range, Fair, HSG D
3.713	80	Weighted Average
3.713		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	100	0.0450	0.25		Sheet Flow, Range n= 0.130 P2= 2.80"
6.2	555	0.0880	1.48		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
4.7	360	0.0330	1.27		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
17.7	1,015	Total			

Subcatchment 1S: PRE 1

Hydrograph



Summary for Subcatchment 2S: POST 1A

Runoff = 2.09 cfs @ 12.09 hrs, Volume= 6,239 cf, Depth= 0.63"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Type II 24-hr 1-YR Rainfall=2.18"

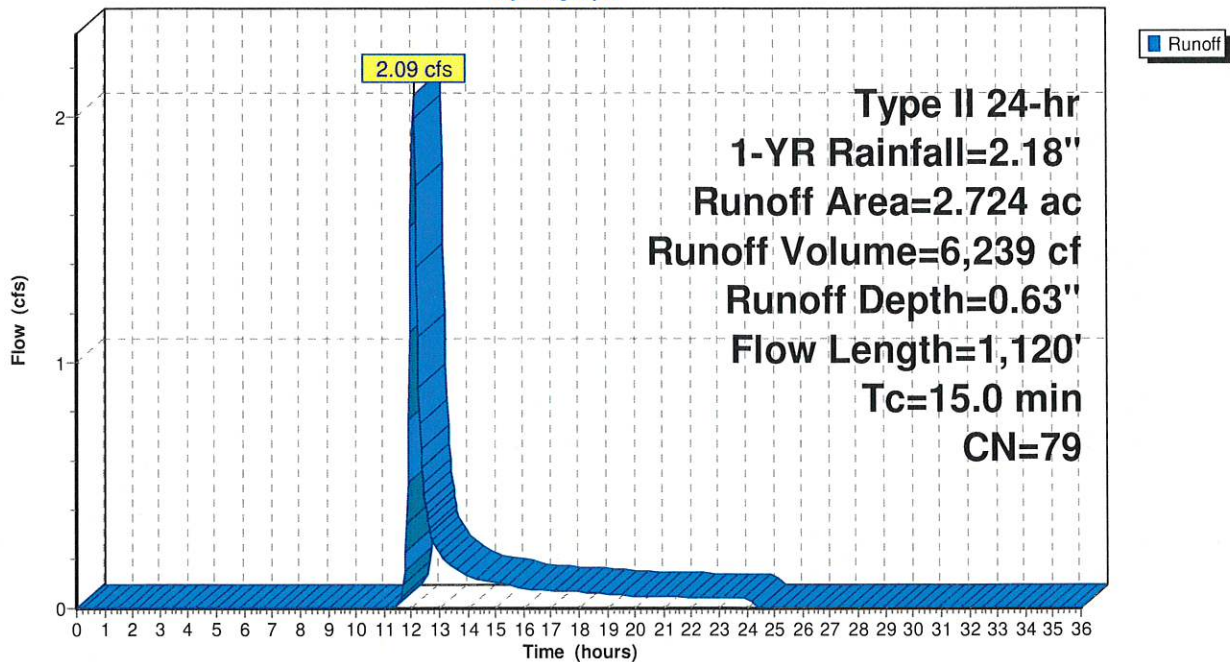
Area (ac)	CN	Description
1.943	77	Woods, Good, HSG D
0.781	84	Pasture/grassland/range, Fair, HSG D
2.724	79	Weighted Average
2.724		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	100	0.0450	0.25		Sheet Flow, Range n= 0.130 P2= 2.80"
6.2	555	0.0880	1.48		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.8	135	0.0330	1.27		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.2	330	1.0000	33.30	324.71	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 3.0' Top.W=11.00' n= 0.040 Earth, cobble bottom, clean sides

15.0 1,120 Total

Subcatchment 2S: POST 1A

Hydrograph



5461-HydroCAD S4

Type II 24-hr 1-YR Rainfall=2.18"

Prepared by ABD Engineers, LLP

HydroCAD® 10.00-18 s/n 00936 © 2016 HydroCAD Software Solutions LLC

Summary for Subcatchment 3S: POST 1B

Runoff = 2.25 cfs @ 11.97 hrs, Volume= 4,733 cf, Depth= 1.32"

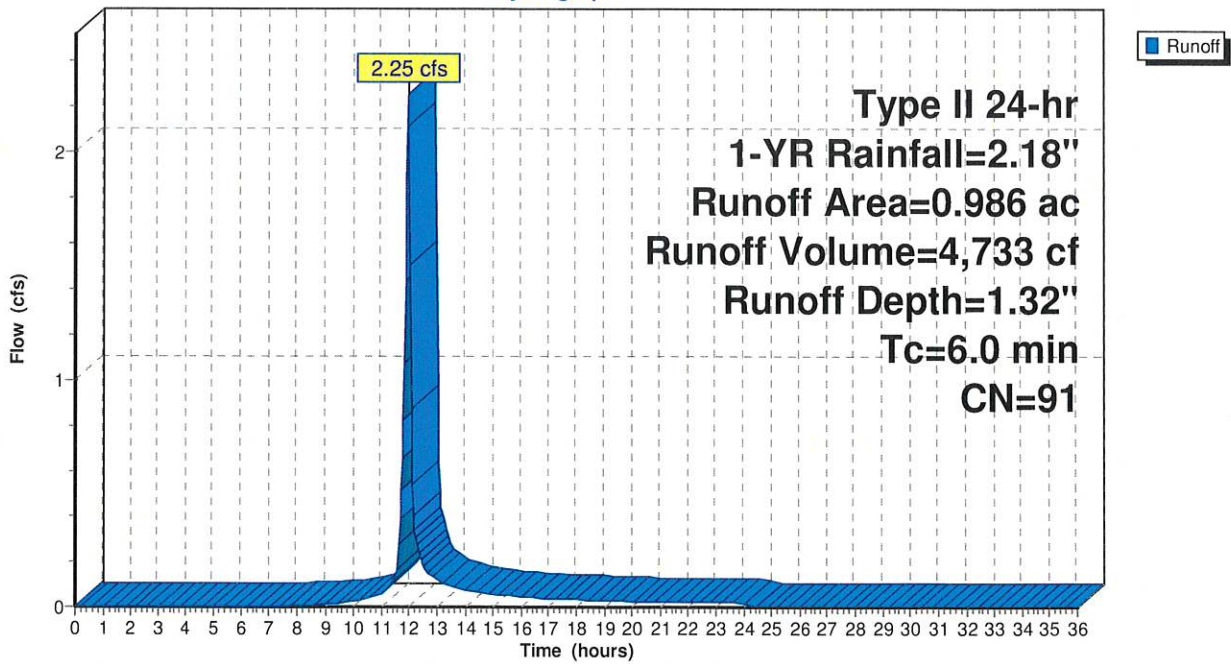
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
Type II 24-hr 1-YR Rainfall=2.18"

Area (ac)	CN	Description
0.986	91	Gravel roads, HSG D
0.986		100.00% Pervious Area

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

Subcatchment 3S: POST 1B

Hydrograph



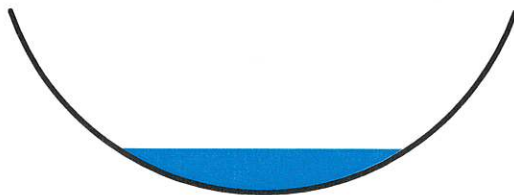
Summary for Reach 1R: EXISTING SWALE (PRE)

Inflow Area = 161,738 sf, 0.00% Impervious, Inflow Depth = 0.68" for 1-YR event
 Inflow = 2.81 cfs @ 12.12 hrs, Volume= 9,101 cf
 Outflow = 2.80 cfs @ 12.13 hrs, Volume= 9,101 cf, Atten= 0%, Lag= 0.8 min

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Max. Velocity= 3.01 fps, Min. Travel Time= 1.1 min
 Avg. Velocity = 1.12 fps, Avg. Travel Time= 3.0 min

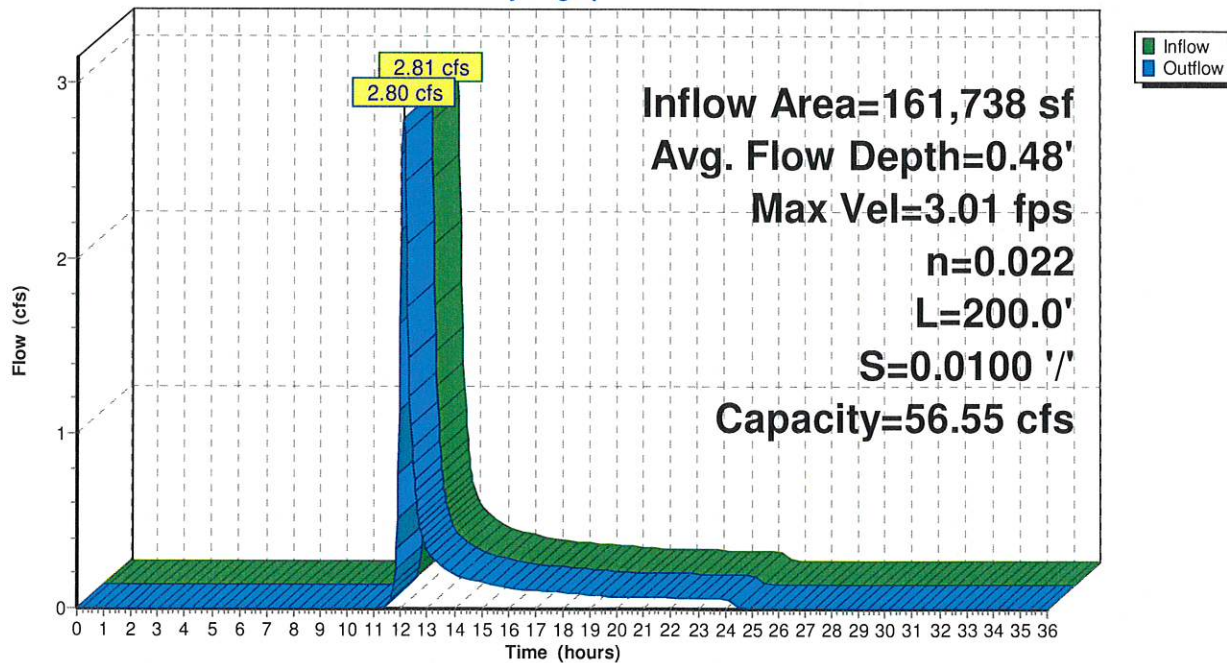
Peak Storage= 186 cf @ 12.13 hrs
 Average Depth at Peak Storage= 0.48'
 Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 56.55 cfs

6.00' x 2.00' deep Parabolic Channel, n=0.022 Earth, clean & straight
 Length= 200.0' Slope= 0.0100 '/'
 Inlet Invert= 882.00', Outlet Invert= 880.00'



Reach 1R: EXISTING SWALE (PRE)

Hydrograph



Summary for Reach 2R: NEW DIVERSION SWALE (NORTH)

Inflow Area = 118,657 sf, 0.00% Impervious, Inflow Depth = 0.63" for 1-YR event
 Inflow = 2.09 cfs @ 12.09 hrs, Volume= 6,239 cf
 Outflow = 1.96 cfs @ 12.13 hrs, Volume= 6,239 cf, Atten= 6%, Lag= 2.5 min

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Max. Velocity= 1.58 fps, Min. Travel Time= 3.4 min
 Avg. Velocity = 0.52 fps, Avg. Travel Time= 10.4 min

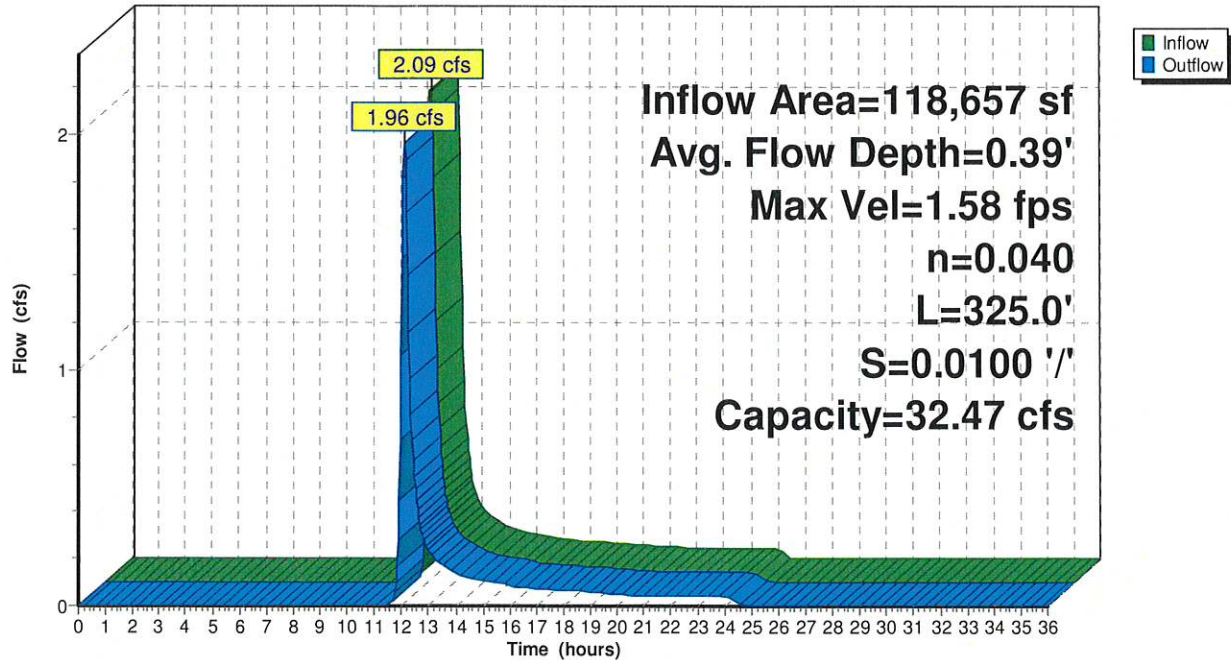
Peak Storage= 403 cf @ 12.13 hrs
 Average Depth at Peak Storage= 0.39'
 Bank-Full Depth= 1.50' Flow Area= 9.8 sf, Capacity= 32.47 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
 Side Slope Z-value= 3.0 '/' Top Width= 11.00'
 Length= 325.0' Slope= 0.0100 '/'
 Inlet Invert= 889.00', Outlet Invert= 885.75'



Reach 2R: NEW DIVERSION SWALE (NORTH)

Hydrograph



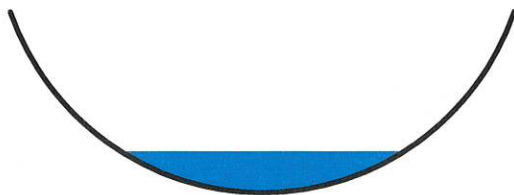
Summary for Reach 3R: EXISTING SWALE (POST)

Inflow Area = 161,608 sf, 0.00% Impervious, Inflow Depth > 0.78" for 1-YR event
 Inflow = 2.50 cfs @ 12.13 hrs, Volume= 10,500 cf
 Outflow = 2.48 cfs @ 12.14 hrs, Volume= 10,500 cf, Atten= 1%, Lag= 0.8 min

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Max. Velocity= 2.90 fps, Min. Travel Time= 1.1 min
 Avg. Velocity = 0.85 fps, Avg. Travel Time= 3.9 min

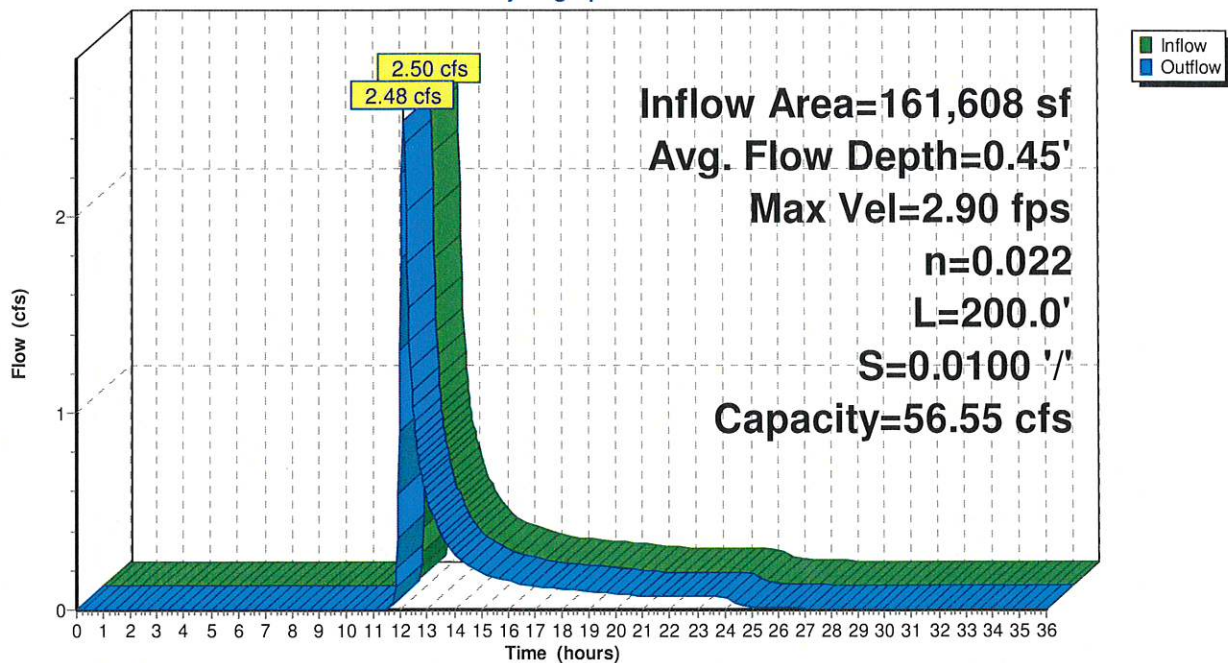
Peak Storage= 171 cf @ 12.14 hrs
 Average Depth at Peak Storage= 0.45'
 Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 56.55 cfs

6.00' x 2.00' deep Parabolic Channel, n= 0.022 Earth, clean & straight
 Length= 200.0' Slope= 0.0100 '/'
 Inlet Invert= 882.00', Outlet Invert= 880.00'



Reach 3R: EXISTING SWALE (POST)

Hydrograph



Summary for Pond 1P: STORAGE 1B

Inflow Area = 42,950 sf, 0.00% Impervious, Inflow Depth = 1.32" for 1-YR event
 Inflow = 2.25 cfs @ 11.97 hrs, Volume= 4,733 cf
 Outflow = 0.54 cfs @ 12.13 hrs, Volume= 4,262 cf, Atten= 76%, Lag= 9.6 min
 Primary = 0.54 cfs @ 12.13 hrs, Volume= 4,262 cf
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Peak Elev= 883.77' @ 12.13 hrs Surf.Area= 3,606 sf Storage= 2,088 cf

Plug-Flow detention time= 135.0 min calculated for 4,257 cf (90% of inflow)
 Center-of-Mass det. time= 85.1 min (899.7 - 814.6)

Volume	Invert	Avail.Storage	Storage Description
#1	881.50'	352 cf	2.00'W x 220.00'L x 2.00'H Stone 880 cf Overall x 40.0% Voids
#2	882.60'	10,030 cf	Surface (Prismatic) Listed below (Recalc)
		10,382 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
882.60	0	0	0
883.00	900	180	180
884.00	3,860	2,380	2,560
885.00	11,080	7,470	10,030

Device	Routing	Invert	Outlet Devices
#1	Primary	883.00'	6.0" Round Culvert L= 10.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 883.00' / 883.00' S= 0.0000 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Secondary	884.75'	5.0' long x 3.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.54 cfs @ 12.13 hrs HW=883.76' (Free Discharge)

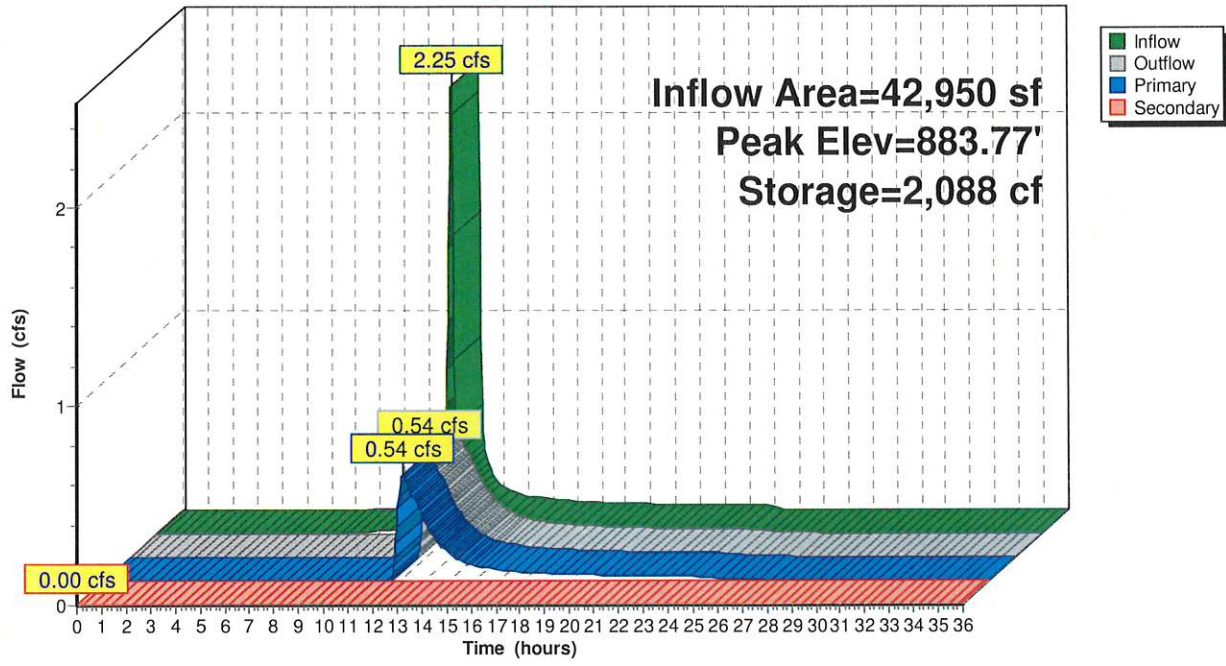
↑1=Culvert (Barrel Controls 0.54 cfs @ 2.73 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=881.50' (Free Discharge)

↑2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)

Pond 1P: STORAGE 1B

Hydrograph



5461-HydroCAD S4

Type II 24-hr 10-YR Rainfall=3.57"

Prepared by ABD Engineers, LLP

HydroCAD® 10.00-18 s/n 00936 © 2016 HydroCAD Software Solutions LLC

Summary for Subcatchment 1S: PRE 1

Runoff = 7.42 cfs @ 12.10 hrs, Volume= 22,806 cf, Depth= 1.69"

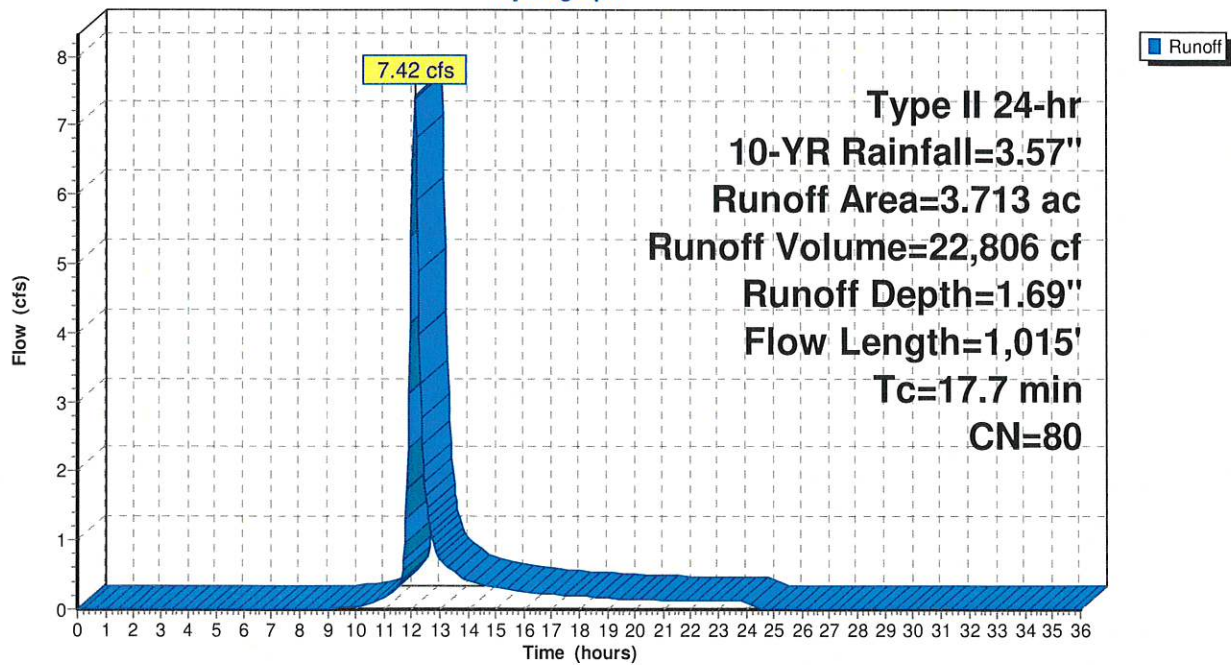
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Type II 24-hr 10-YR Rainfall=3.57"

Area (ac)	CN	Description
1.943	77	Woods, Good, HSG D
1.770	84	Pasture/grassland/range, Fair, HSG D
3.713	80	Weighted Average
3.713		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	100	0.0450	0.25		Sheet Flow, Range n= 0.130 P2= 2.80"
6.2	555	0.0880	1.48		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
4.7	360	0.0330	1.27		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
17.7	1,015	Total			

Subcatchment 1S: PRE 1

Hydrograph



5461-HydroCAD S4

Type II 24-hr 10-YR Rainfall=3.57"

Prepared by ABD Engineers, LLP

HydroCAD® 10.00-18 s/n 00936 © 2016 HydroCAD Software Solutions LLC

Summary for Subcatchment 2S: POST 1A

Runoff = 5.67 cfs @ 12.08 hrs, Volume= 16,024 cf, Depth= 1.62"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Type II 24-hr 10-YR Rainfall=3.57"

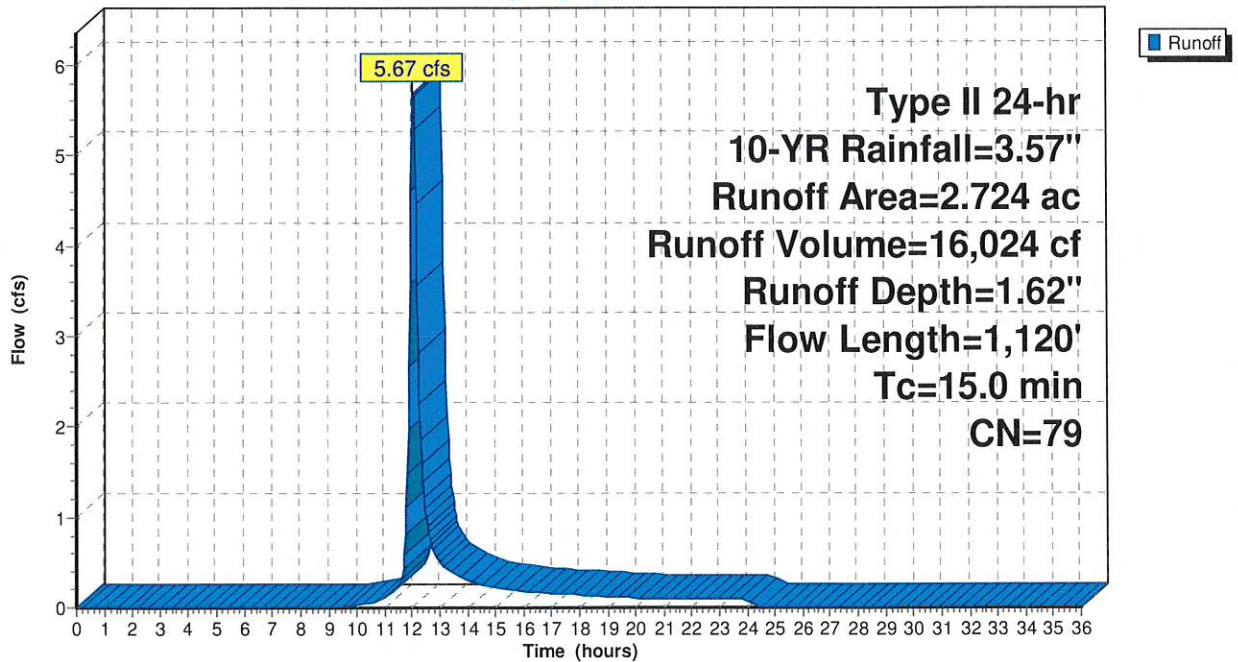
Area (ac)	CN	Description
1.943	77	Woods, Good, HSG D
0.781	84	Pasture/grassland/range, Fair, HSG D
2.724	79	Weighted Average
2.724		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	100	0.0450	0.25		Sheet Flow, Range n= 0.130 P2= 2.80"
6.2	555	0.0880	1.48		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.8	135	0.0330	1.27		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.2	330	1.0000	33.30	324.71	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 3.0 ' Top.W=11.00' n= 0.040 Earth, cobble bottom, clean sides

15.0 1,120 Total

Subcatchment 2S: POST 1A

Hydrograph



5461-HydroCAD S4

Type II 24-hr 10-YR Rainfall=3.57"

Prepared by ABD Engineers, LLP

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Summary for Subcatchment 3S: POST 1B

Runoff = 4.29 cfs @ 11.97 hrs, Volume= 9,333 cf, Depth= 2.61"

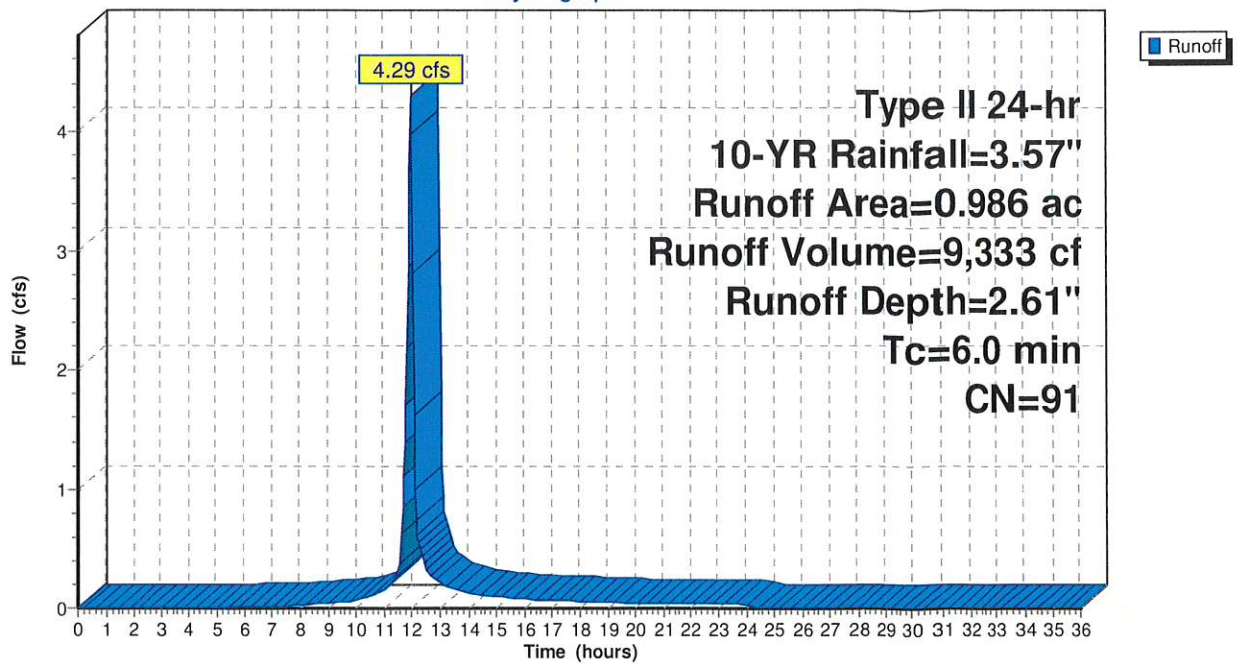
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
Type II 24-hr 10-YR Rainfall=3.57"

Area (ac)	CN	Description
0.986	91	Gravel roads, HSG D
0.986		100.00% Pervious Area

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

Subcatchment 3S: POST 1B

Hydrograph



5461-HydroCAD S4

Type II 24-hr 10-YR Rainfall=3.57"

Prepared by ABD Engineers, LLP

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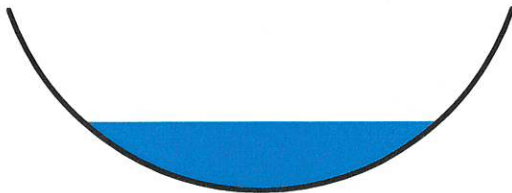
Summary for Reach 1R: EXISTING SWALE (PRE)

Inflow Area = 161,738 sf, 0.00% Impervious, Inflow Depth = 1.69" for 10-YR event
Inflow = 7.42 cfs @ 12.10 hrs, Volume= 22,806 cf
Outflow = 7.41 cfs @ 12.12 hrs, Volume= 22,806 cf, Atten= 0%, Lag= 0.6 min

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
Max. Velocity= 4.00 fps, Min. Travel Time= 0.8 min
Avg. Velocity = 1.36 fps, Avg. Travel Time= 2.4 min

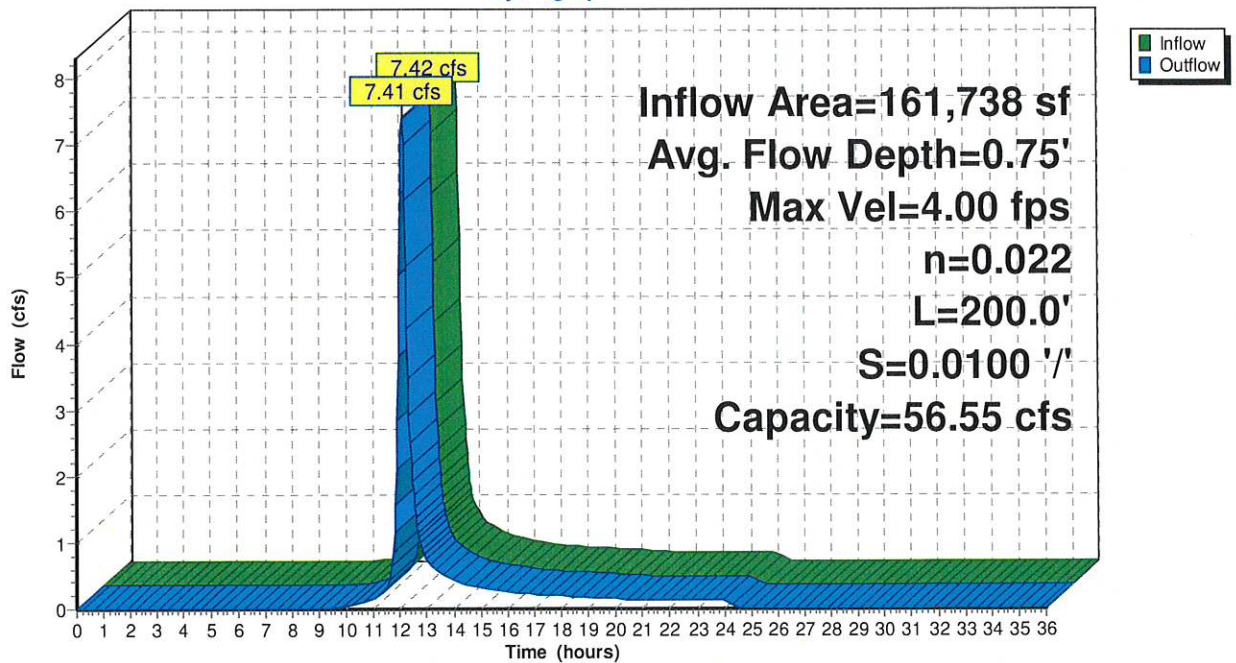
Peak Storage= 370 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.75'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 56.55 cfs

6.00' x 2.00' deep Parabolic Channel, n= 0.022 Earth, clean & straight
Length= 200.0' Slope= 0.0100 '/'
Inlet Invert= 882.00', Outlet Invert= 880.00'



Reach 1R: EXISTING SWALE (PRE)

Hydrograph



5461-HydroCAD S4

Type II 24-hr 10-YR Rainfall=3.57"

Prepared by ABD Engineers, LLP

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Summary for Reach 2R: NEW DIVERSION SWALE (NORTH)

Inflow Area = 118,657 sf, 0.00% Impervious, Inflow Depth = 1.62" for 10-YR event
Inflow = 5.67 cfs @ 12.08 hrs, Volume= 16,024 cf
Outflow = 5.47 cfs @ 12.11 hrs, Volume= 16,024 cf, Atten= 4%, Lag= 1.9 min

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
Max. Velocity= 2.09 fps, Min. Travel Time= 2.6 min
Avg. Velocity = 0.65 fps, Avg. Travel Time= 8.3 min

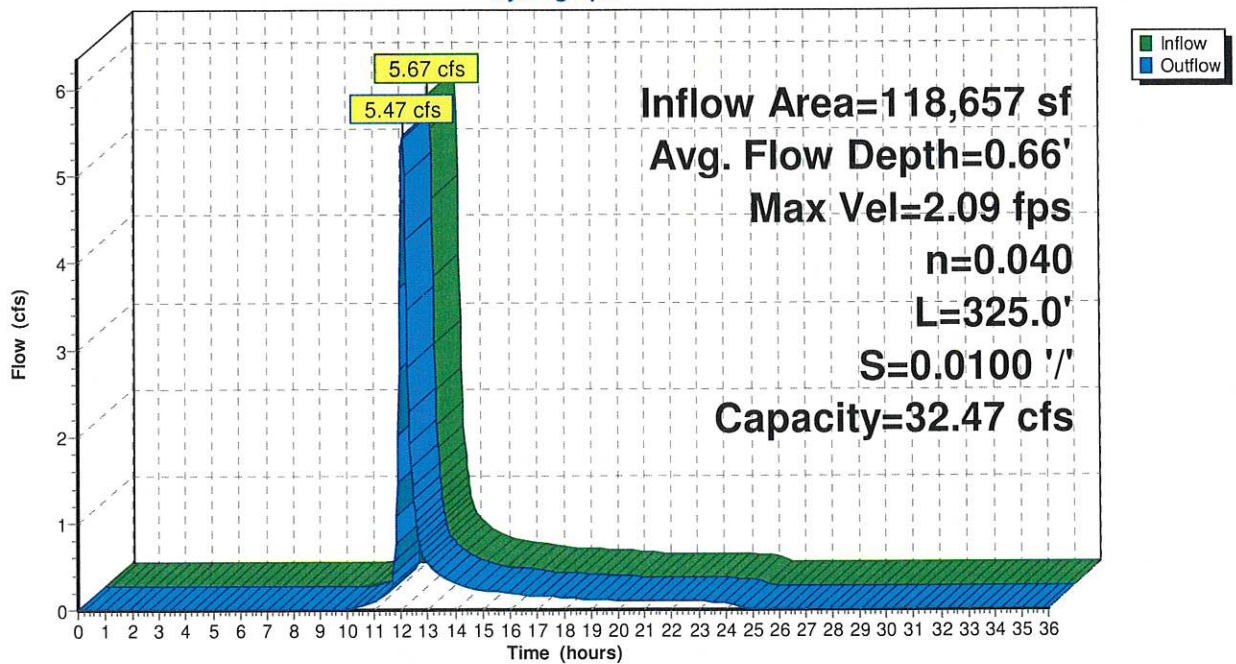
Peak Storage= 848 cf @ 12.11 hrs
Average Depth at Peak Storage= 0.66'
Bank-Full Depth= 1.50' Flow Area= 9.8 sf, Capacity= 32.47 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 3.0 ' Top Width= 11.00'
Length= 325.0' Slope= 0.0100 ' / '
Inlet Invert= 889.00', Outlet Invert= 885.75'



Reach 2R: NEW DIVERSION SWALE (NORTH)

Hydrograph



5461-HydroCAD S4

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Type II 24-hr 10-YR Rainfall=3.57"

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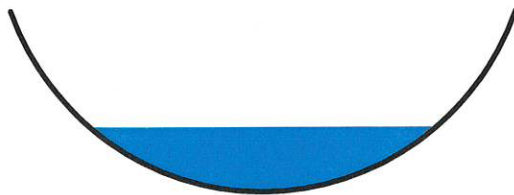
Summary for Reach 3R: EXISTING SWALE (POST)

Inflow Area = 161,608 sf, 0.00% Impervious, Inflow Depth > 1.85" for 10-YR event
Inflow = 6.36 cfs @ 12.11 hrs, Volume= 24,884 cf
Outflow = 6.35 cfs @ 12.12 hrs, Volume= 24,884 cf, Atten= 0%, Lag= 0.7 min

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
Max. Velocity= 3.83 fps, Min. Travel Time= 0.9 min
Avg. Velocity= 1.03 fps, Avg. Travel Time= 3.2 min

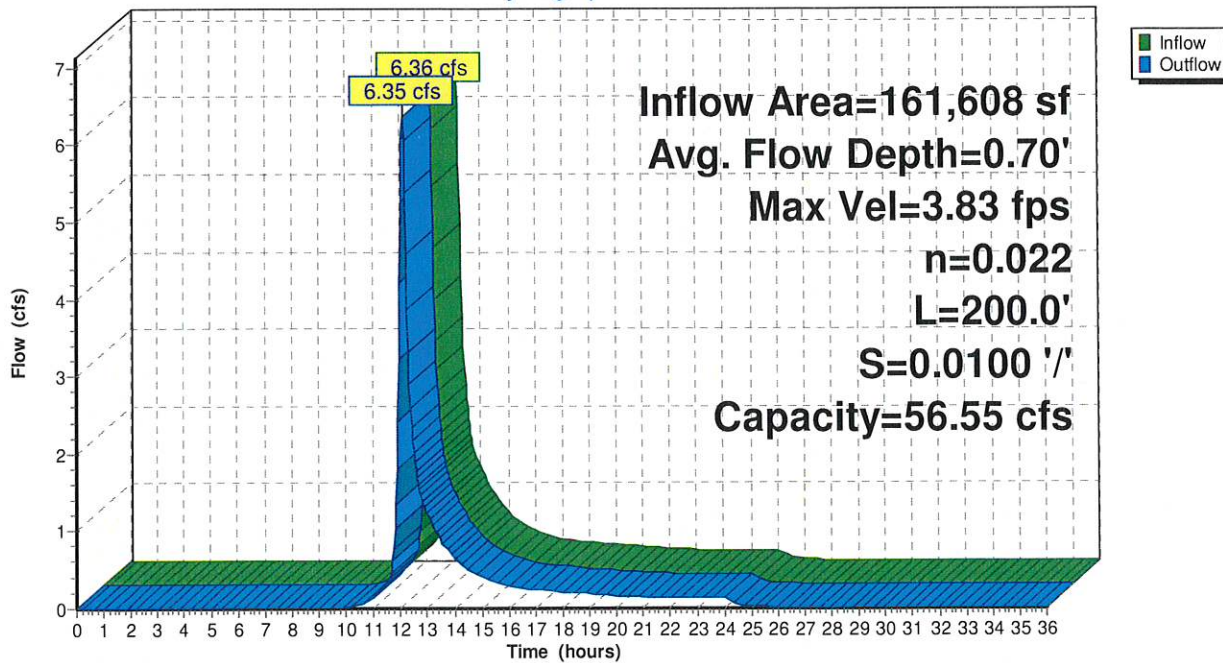
Peak Storage= 332 cf @ 12.12 hrs
Average Depth at Peak Storage= 0.70'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 56.55 cfs

6.00' x 2.00' deep Parabolic Channel, n= 0.022 Earth, clean & straight
Length= 200.0' Slope= 0.0100 '/'
Inlet Invert= 882.00', Outlet Invert= 880.00'



Reach 3R: EXISTING SWALE (POST)

Hydrograph



5461-HydroCAD S4

Type II 24-hr 10-YR Rainfall=3.57"

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Summary for Pond 1P: STORAGE 1B

Inflow Area = 42,950 sf, 0.00% Impervious, Inflow Depth = 2.61" for 10-YR event
 Inflow = 4.29 cfs @ 11.97 hrs, Volume= 9,333 cf
 Outflow = 0.89 cfs @ 12.14 hrs, Volume= 8,860 cf, Atten= 79%, Lag= 10.2 min
 Primary = 0.89 cfs @ 12.14 hrs, Volume= 8,860 cf
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Peak Elev= 884.24' @ 12.14 hrs Surf.Area= 6,017 sf Storage= 4,034 cf

Plug-Flow detention time= 105.9 min calculated for 8,860 cf (95% of inflow)
 Center-of-Mass det. time= 76.8 min (872.1 - 795.3)

Volume	Invert	Avail.Storage	Storage Description
#1	881.50'	352 cf	2.00'W x 220.00'L x 2.00'H Stone 880 cf Overall x 40.0% Voids
#2	882.60'	10,030 cf	Surface (Prismatic) Listed below (Recalc)
		10,382 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
882.60	0	0	0
883.00	900	180	180
884.00	3,860	2,380	2,560
885.00	11,080	7,470	10,030

Device	Routing	Invert	Outlet Devices
#1	Primary	883.00'	6.0" Round Culvert L= 10.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 883.00' / 883.00' S= 0.0000 ' Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Secondary	884.75'	5.0' long x 3.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=0.89 cfs @ 12.14 hrs HW=884.24' (Free Discharge)

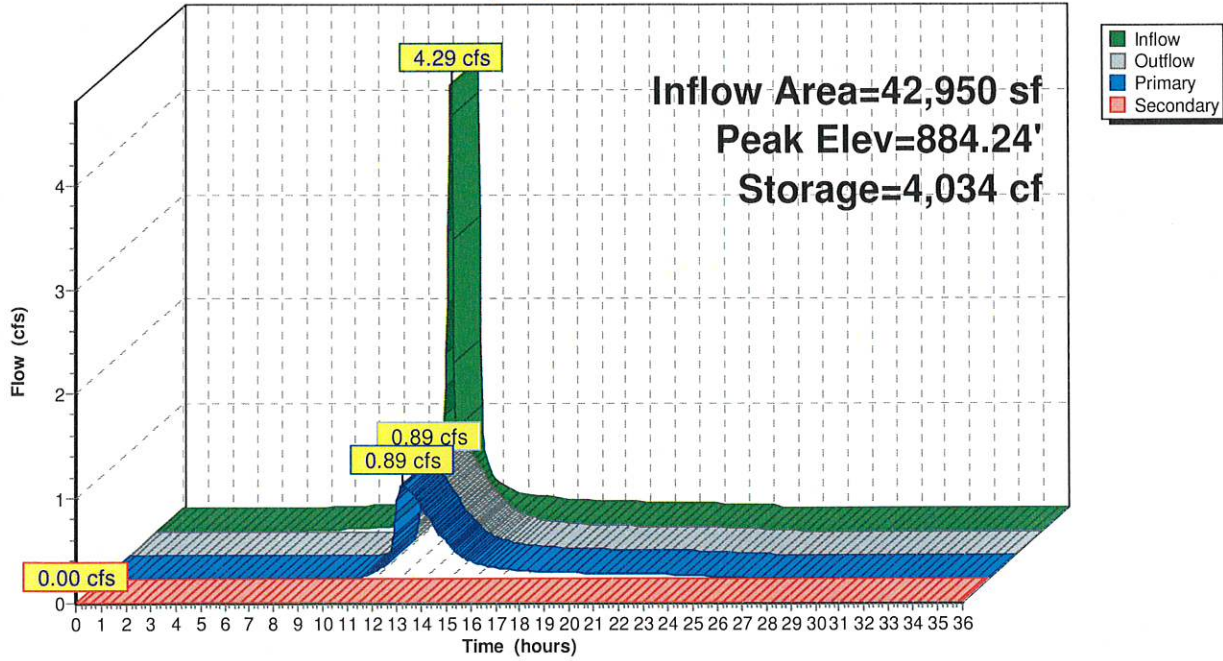
↑ **1=Culvert** (Barrel Controls 0.89 cfs @ 4.55 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=881.50' (Free Discharge)

↑ **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 1P: STORAGE 1B

Hydrograph



Summary for Subcatchment 1S: PRE 1

Runoff = 16.35 cfs @ 12.10 hrs, Volume= 50,235 cf, Depth= 3.73"

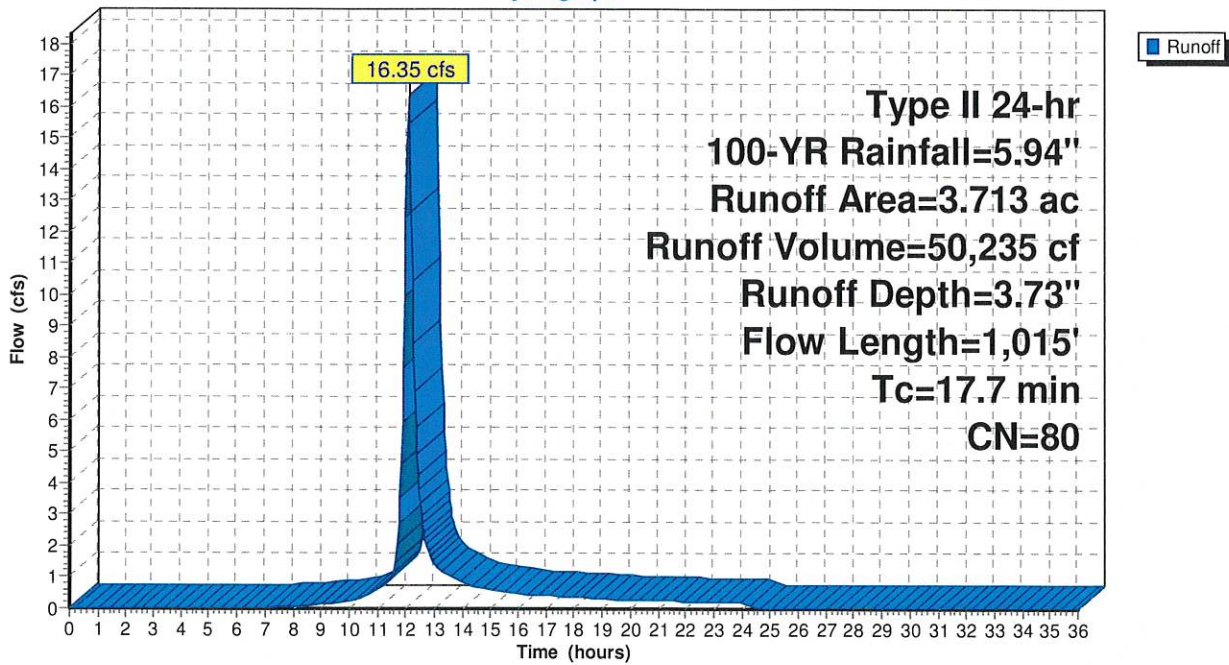
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Type II 24-hr 100-YR Rainfall=5.94"

Area (ac)	CN	Description
1.943	77	Woods, Good, HSG D
1.770	84	Pasture/grassland/range, Fair, HSG D
3.713	80	Weighted Average
3.713		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	100	0.0450	0.25		Sheet Flow, Range n= 0.130 P2= 2.80"
6.2	555	0.0880	1.48		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
4.7	360	0.0330	1.27		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
17.7	1,015	Total			

Subcatchment 1S: PRE 1

Hydrograph



5461-HydroCAD S4

Type II 24-hr 100-YR Rainfall=5.94"

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Summary for Subcatchment 2S: POST 1A

Runoff = 12.68 cfs @ 12.07 hrs, Volume= 35,855 cf, Depth= 3.63"

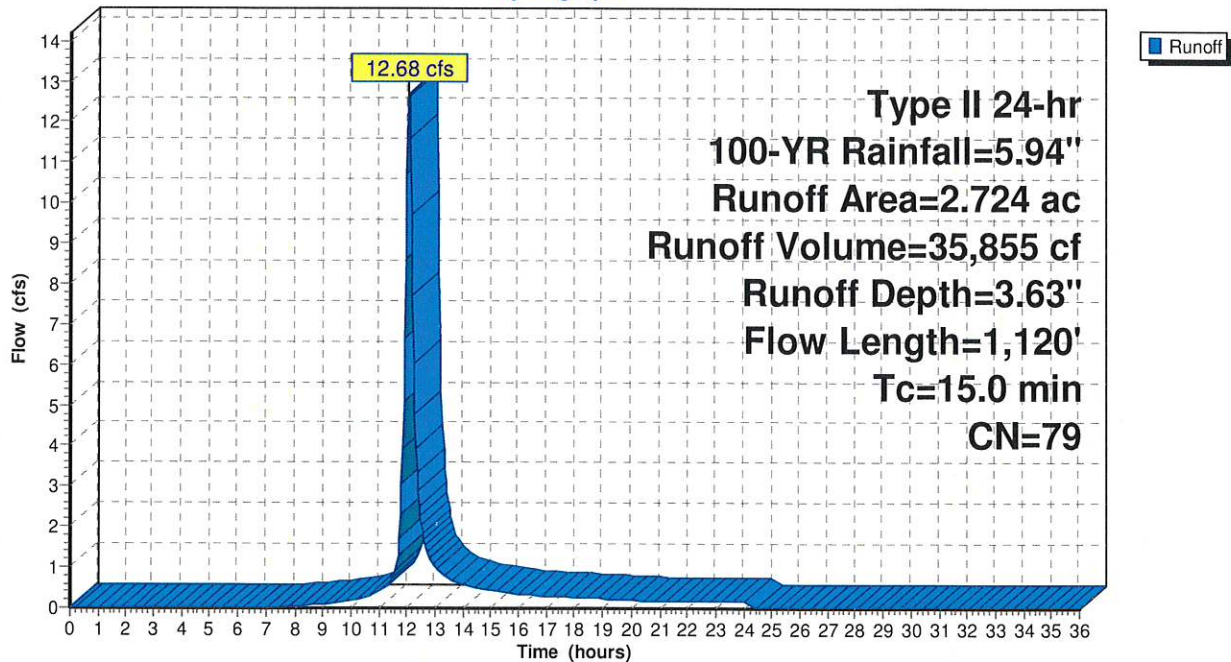
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Type II 24-hr 100-YR Rainfall=5.94"

Area (ac)	CN	Description
1.943	77	Woods, Good, HSG D
0.781	84	Pasture/grassland/range, Fair, HSG D
2.724	79	Weighted Average
2.724		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.8	100	0.0450	0.25		Sheet Flow, Range n= 0.130 P2= 2.80"
6.2	555	0.0880	1.48		Shallow Concentrated Flow, Woodland Kv= 5.0 fps
1.8	135	0.0330	1.27		Shallow Concentrated Flow, Short Grass Pasture Kv= 7.0 fps
0.2	330	1.0000	33.30	324.71	Trap/Vee/Rect Channel Flow, Bot.W=2.00' D=1.50' Z= 3.0 ' Top.W=11.00' n= 0.040 Earth, cobble bottom, clean sides
15.0	1,120	Total			

Subcatchment 2S: POST 1A

Hydrograph



Summary for Subcatchment 3S: POST 1B

Runoff = 7.75 cfs @ 11.97 hrs, Volume= 17,533 cf, Depth= 4.90"

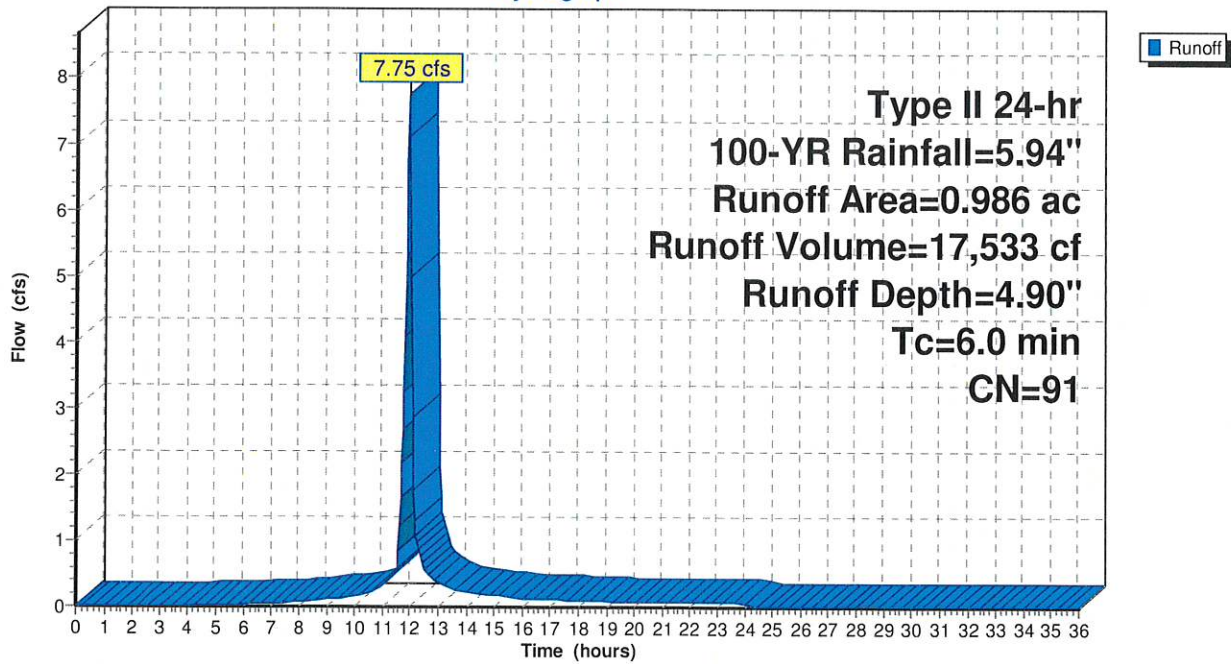
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Type II 24-hr 100-YR Rainfall=5.94"

Area (ac)	CN	Description
0.986	91	Gravel roads, HSG D
0.986		100.00% Pervious Area

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

Subcatchment 3S: POST 1B

Hydrograph



5461-HydroCAD S4

Type II 24-hr 100-YR Rainfall=5.94"

Prepared by ABD Engineers, LLP

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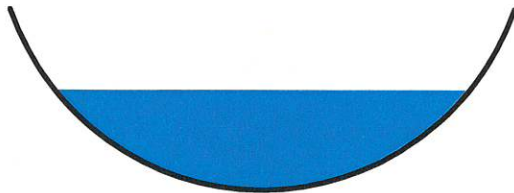
Summary for Reach 1R: EXISTING SWALE (PRE)

Inflow Area = 161,738 sf, 0.00% Impervious, Inflow Depth = 3.73" for 100-YR event
Inflow = 16.35 cfs @ 12.10 hrs, Volume= 50,235 cf
Outflow = 16.31 cfs @ 12.11 hrs, Volume= 50,235 cf, Atten=0%, Lag= 0.5 min

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
Max. Velocity= 5.01 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 1.61 fps, Avg. Travel Time= 2.1 min

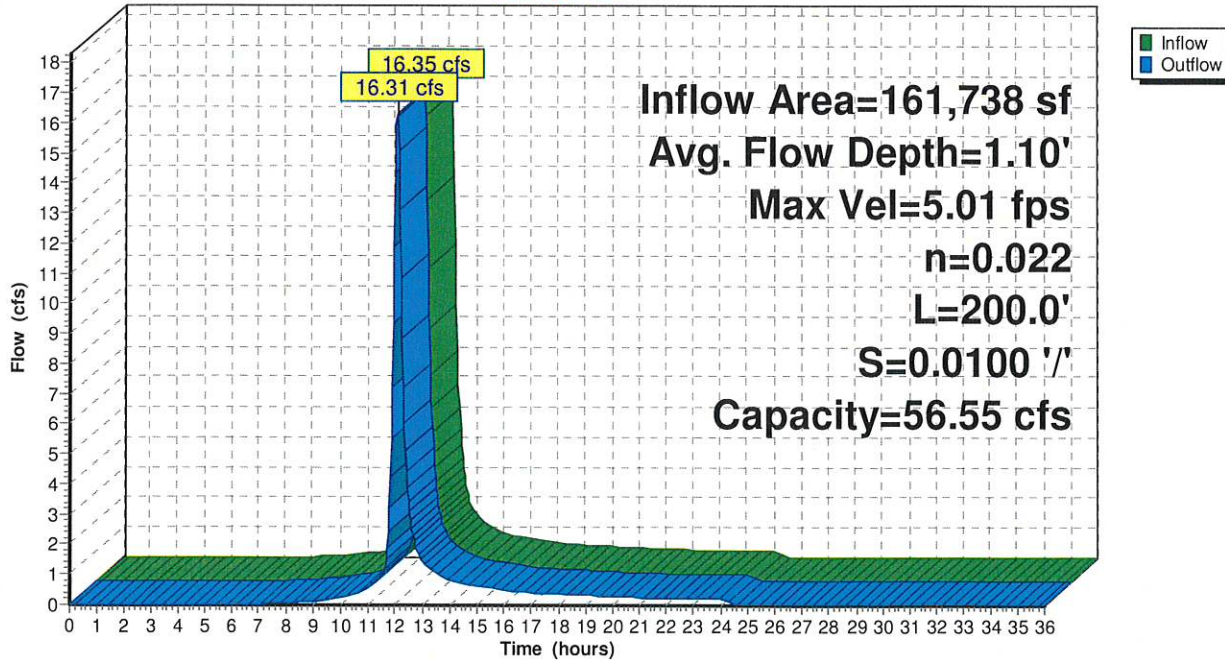
Peak Storage= 651 cf @ 12.11 hrs
Average Depth at Peak Storage= 1.10'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 56.55 cfs

6.00' x 2.00' deep Parabolic Channel, n=0.022 Earth, clean & straight
Length= 200.0' Slope= 0.0100 '/'
Inlet Invert= 882.00', Outlet Invert= 880.00'



Reach 1R: EXISTING SWALE (PRE)

Hydrograph



5461-HydroCAD S4

Type II 24-hr 100-YR Rainfall=5.94"

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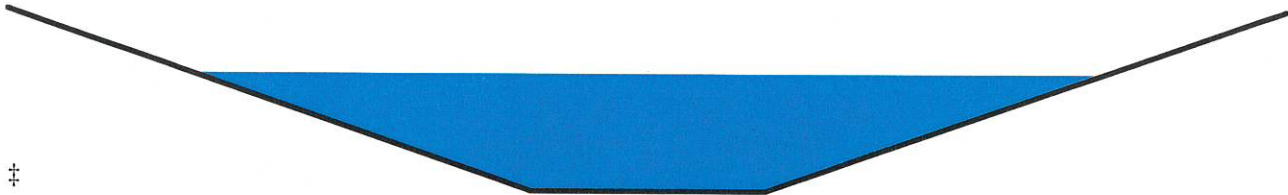
Summary for Reach 2R: NEW DIVERSION SWALE (NORTH)

Inflow Area = 118,657 sf, 0.00% Impervious, Inflow Depth = 3.63" for 100-YR event
Inflow = 12.68 cfs @ 12.07 hrs, Volume= 35,855 cf
Outflow = 12.39 cfs @ 12.10 hrs, Volume= 35,855 cf, Atten= 2%, Lag= 1.5 min

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
Max. Velocity= 2.60 fps, Min. Travel Time= 2.1 min
Avg. Velocity = 0.78 fps, Avg. Travel Time= 6.9 min

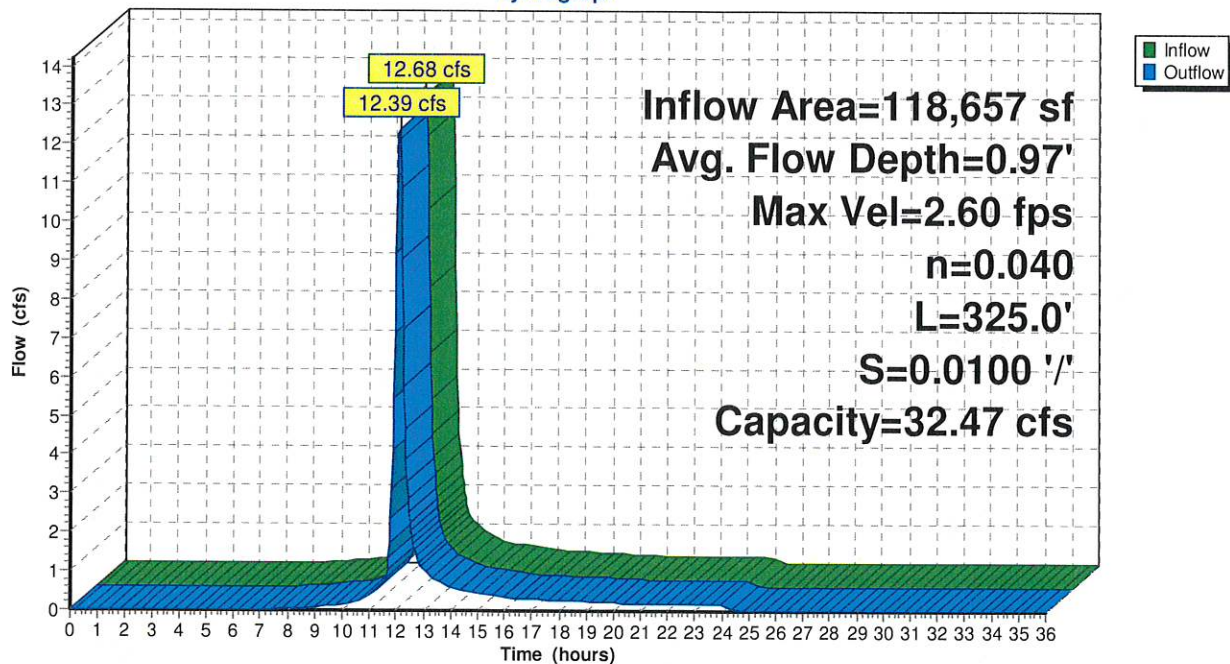
Peak Storage= 1,548 cf @ 12.10 hrs
Average Depth at Peak Storage= 0.97'
Bank-Full Depth= 1.50' Flow Area= 9.8 sf, Capacity= 32.47 cfs

2.00' x 1.50' deep channel, n= 0.040 Earth, cobble bottom, clean sides
Side Slope Z-value= 3.0 ' / ' Top Width= 11.00'
Length= 325.0' Slope= 0.0100 ' / '
Inlet Invert= 889.00', Outlet Invert= 885.75'



Reach 2R: NEW DIVERSION SWALE (NORTH)

Hydrograph



5461-HydroCAD S4

Type II 24-hr 100-YR Rainfall=5.94"

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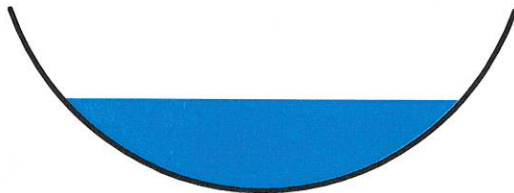
Summary for Reach 3R: EXISTING SWALE (POST)

Inflow Area = 161,608 sf, 0.00% Impervious, Inflow Depth = 3.93" for 100-YR event
Inflow = 13.52 cfs @ 12.10 hrs, Volume= 52,914 cf
Outflow = 13.48 cfs @ 12.10 hrs, Volume= 52,914 cf, Atten=0%, Lag=0.6 min

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
Max. Velocity= 4.74 fps, Min. Travel Time= 0.7 min
Avg. Velocity = 1.24 fps, Avg. Travel Time= 2.7 min

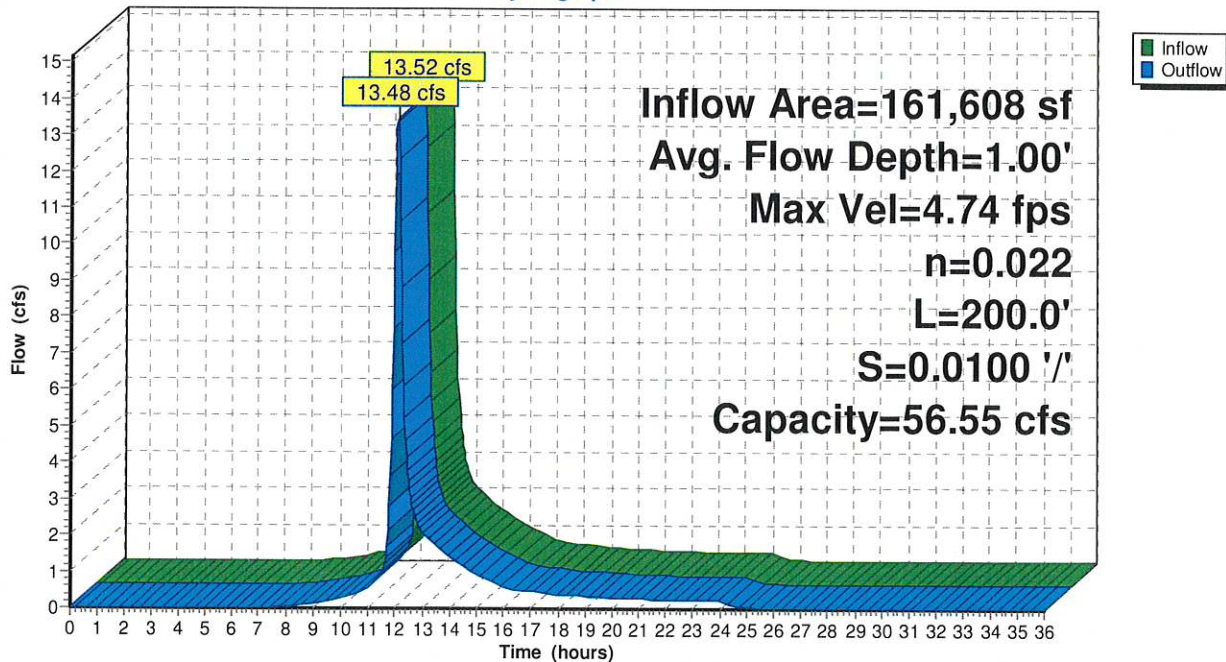
Peak Storage= 568 cf @ 12.10 hrs
Average Depth at Peak Storage= 1.00'
Bank-Full Depth= 2.00' Flow Area= 8.0 sf, Capacity= 56.55 cfs

6.00' x 2.00' deep Parabolic Channel, n= 0.022 Earth, clean & straight
Length= 200.0' Slope= 0.0100 '/'
Inlet Invert= 882.00', Outlet Invert= 880.00'



Reach 3R: EXISTING SWALE (POST)

Hydrograph



5461-HydroCAD S4

Type II 24-hr 100-YR Rainfall=5.94"

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Summary for Pond 1P: STORAGE 1B

Inflow Area = 42,950 sf, 0.00% Impervious, Inflow Depth = 4.90" for 100-YR event
 Inflow = 7.75 cfs @ 11.97 hrs, Volume= 17,533 cf
 Outflow = 1.14 cfs @ 12.19 hrs, Volume= 17,059 cf, Atten= 85%, Lag= 13.6 min
 Primary = 1.14 cfs @ 12.19 hrs, Volume= 17,059 cf
 Secondary = 0.00 cfs @ 0.00 hrs, Volume= 0 cf

Routing by Stor-Ind method, Time Span= 0.00-36.00 hrs, dt= 0.04 hrs
 Peak Elev= 884.71' @ 12.19 hrs Surf.Area= 9,431 sf Storage= 7,479 cf

Plug-Flow detention time= 98.4 min calculated for 17,040 cf (97% of inflow)
 Center-of-Mass det. time= 82.3 min (860.3 - 778.0)

Volume	Invert	Avail.Storage	Storage Description
#1	881.50'	352 cf	2.00'W x 220.00'L x 2.00'H Stone 880 cf Overall x 40.0% Voids
#2	882.60'	10,030 cf	Surface (Prismatic) Listed below (Recalc)
		10,382 cf	Total Available Storage

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
882.60	0	0	0
883.00	900	180	180
884.00	3,860	2,380	2,560
885.00	11,080	7,470	10,030

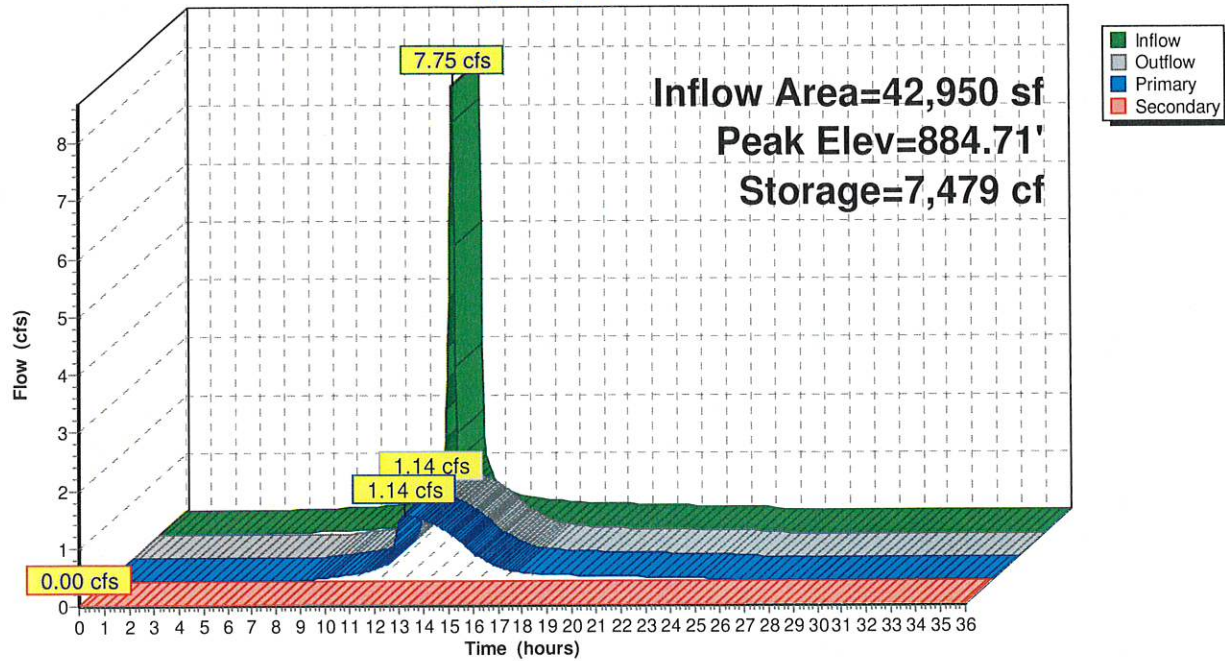
Device	Routing	Invert	Outlet Devices
#1	Primary	883.00'	6.0" Round Culvert L= 10.0' CPP, end-section conforming to fill, Ke= 0.500 Inlet / Outlet Invert= 883.00' / 883.00' S= 0.0000 '/ Cc= 0.900 n= 0.013 Corrugated PE, smooth interior, Flow Area= 0.20 sf
#2	Secondary	884.75'	5.0' long x 3.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 Coef. (English) 2.44 2.58 2.68 2.67 2.65 2.64 2.64 2.68 2.68 2.72 2.81 2.92 2.97 3.07 3.32

Primary OutFlow Max=1.14 cfs @ 12.19 hrs HW=884.71' (Free Discharge)
 ↑**1=Culvert** (Inlet Controls 1.14 cfs @ 5.82 fps)

Secondary OutFlow Max=0.00 cfs @ 0.00 hrs HW=881.50' (Free Discharge)
 ↑**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

Pond 1P: STORAGE 1B

Hydrograph



Sound Check at Serth Event Site

Check #1: Conducted with sound system in barn with all doors open using 1600-Watt amp and 4 speakers

Results at 90dB 10 ft in front of speakers and 100dB and 106dB

Location	Ambient Noise	↓ Per beef inside barn		
		90dB	100dB	106dB
1. Survey stake at NW corner of B&B property line	60 52	60 60	60 68	<70
2. Property line between love shack & barn	60 95	61 63	67 71	72
3. SE corner of love shack	50 45	51 56	65 64	<70
4. B&B carriage house 5ft from property line; 150ft from barn	50 50 48	50 65	52 61	57
5. NE corner off Mary Hughes' property	55 55	55 60	64 67	69
6. Property line off Jim Segrue	55 41	55 55	60 60	64

too loud

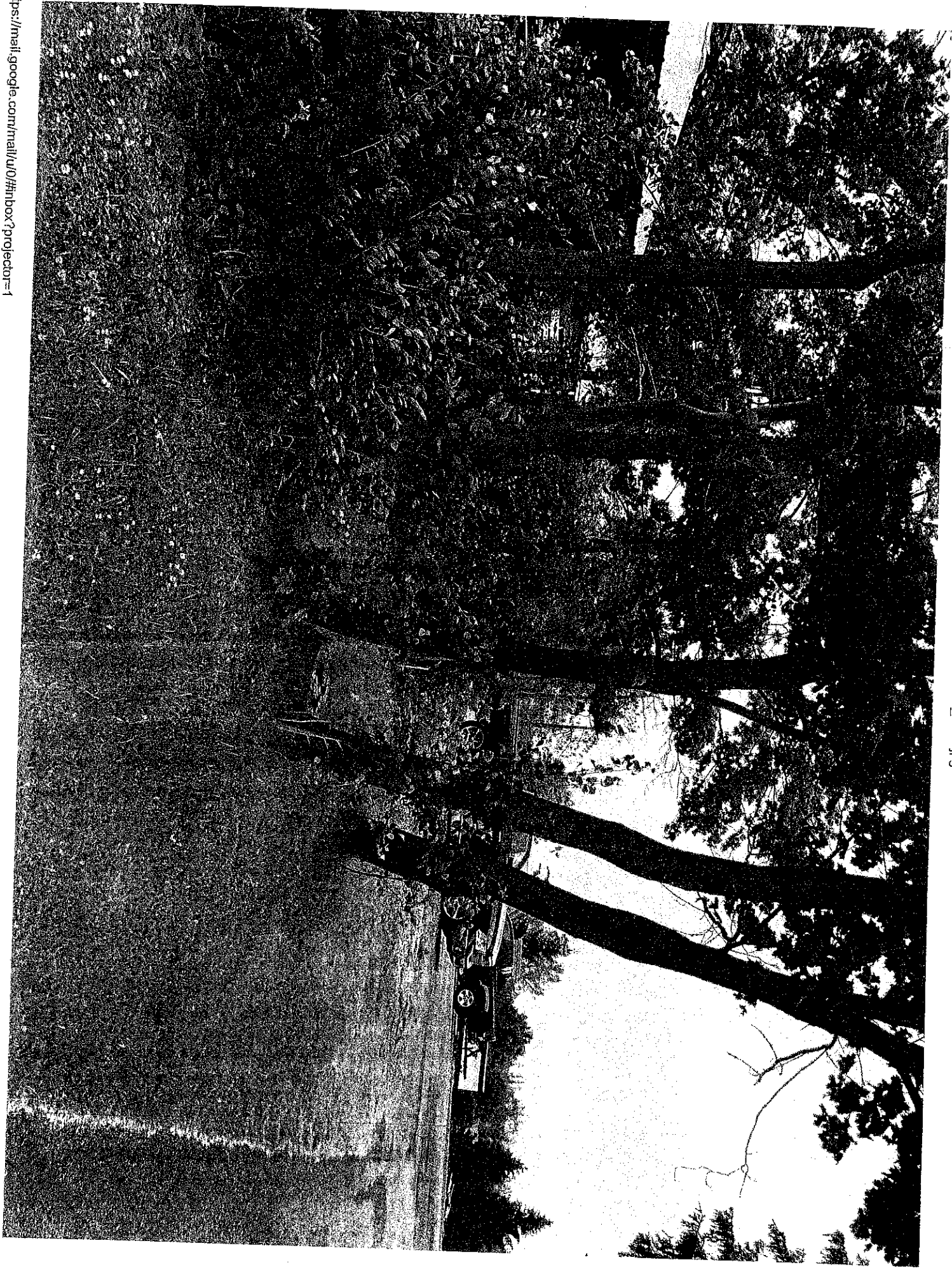
outside

55

Check #2 & 3: Resulted in similar data. Locations were in the tent area with speakers facing West and then South

Location	Ambient Noise	70 level	
		90dB	100dB
1. Survey stake at NW corner of B&B property line	60	64 55	72 64
2. Property line between love shack & barn	60	68 63	76 73
3. SE corner of love shack	50	67 63	73 67
4. B&B carriage house 5ft from property line; 150ft from barn	50	60 56	62 63
5. NE corner off Mary Hughes' property	55	60 63	69 69
6. Property line off Jim Segrue	*71	*71 60	*71 58

*Ambient noise at 71dB due to music playing from neighbors



Jeffery Schmitt, Planning Board Chair
Terresa Bakner, Board Attorney
Dale Warner, Town Planner
Melissa Deffer, Clerk



Michael Harris, Vice Chairperson
Elizabeth Novak, Board Member
Joshua Houghton, Board Member
Michael Santulli, Board Member
Matthew Hoffman, Board Member
Michael Walpole, Board Member

TOWN OF DUANESBURG
SCHENECTADY COUNTY

LEGAL NOTICE
FOR THE
TOWN OF DUANESBURG
PLANNING BOARD

Public Hearing

Please Take Notice, that the Town of Duanesburg Planning Board will meet in the Town board room located downstairs of the Town Hall at 5853 Western Turnpike Duanesburg NY, on **June 16TH, 2022**, at 7:00 pm for the purpose of hearing all persons interested in the application of:

#21-21 Serth, Joseph: SBL# 35.05-1-19.2, (R-1) located at 216-218 Batter St is seeking a Special Use Permit for use for an event venue under Local Law #1 2021 of the Town of Duanesburg Zoning Ordinance.

APPLICATION INFORMATION IS AVAILABLE DURING BUSINESS HOURS. PLEASE CONTACT:

Melissa Deffer Building, Planning and Zoning Clerk
P# 518-895-2040
EMAIL: Mdeffer@duanesburg.net

BY ORDER OF THE TOWN OF DUANESBURG
PLANNING BOARD
CHAIRPERSON

Town of Duanesburg is also providing the meeting via zoom if you are unable to attend in person:

<https://us02web.zoom.us/j/87039078096>

Meeting ID: 870 3907 8096

Passcode: 109029

Dial in by Phone: 1-646-558-8656

Meeting ID: 870 3907 8096

Passcode: 109029

#21-21

CHECKLIST OF REQUIRED INFORMATION:

- Title of drawing.
- Tax Map ID #
- Zoning district
- Current Original Deed
- NYS Survey (L.S. & P.E.)
- North Arrow, scale (1"=100'),
- Boundaries of the property plotted and labeled to scale.
- School District/Fire District
- Green area/ landscaping
- Existing watercourses, wetlands, etc.
- Contour Lines (increments of 10ft.)
- Easements & Right of ways
- Abutting Properties Wells/ Sewer Systems within 100ft.
- Well/ Water system
- Septic system: Soil investigation completed?
- Sewer System: Which district?
- Basic SWPPP (1≥)
- Full Storm Water Control Plan (More than an acre)
- Other (Building Set Backs)
- Storm Water Control Plan
- Short or long EAF www.dec.ny.gov/eafmapper/
- Street pattern: Traffic study needed?
- All property Mergers **REQUIRE** both owners Signatures on the Application

Additional Requirements for Special Use Application:

- New or existing building
- Business Plan, Hours of operation, & number of employees, floor plan, uses, lighting plan/ landscaping/signage**
- Parking, Handicap Spaces, & lighting plan**

Date _____

Application type: Major Subdv Minor Subdv Special Use Permit Site/ Sketch Plan Review LotLine Adjust
Proposal: Event Venue

Section _____ of _____ Ordinance. Local Law #1 of 2021

Present Owner: Joseph + Christine Seta (AS APPEARS ON DEED!!)

Address: 2496 Montauk Rd Zip code: 12151

Phone # (required) 518 852 5378

Applicants Name (if different): _____ Phone# (required) _____

Location of Property (if different from owners) 216 Batten St.

Tax Map # 35.05-1-19.2 Zoning District R-1

Signature of Owner (S) if different from Applicant (AS APPEARS ON DEED!)

LANDS CONVEYED TO (REQUIRED FOR MERGERS)

Signature of receiving Property Owner _____ (AS APPEARS ON DEED!!)

I CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND CORRECT. The Applicant hereby certifies that he/she is the owner of the above property or has duly authorized, in writing, by the owner of record to make this application. Further, by signing this application, the owner gives permission for a representative (s) of the Town of Duaneburg to walk the property for the purposes of conducting a site review.

Signature of Owner(S) and/or Applicant(S) _____ Date _____

ALL APPLICATION FEES ARE NON-REFUNDABLE!

(For office use only)

Application fee paid: _____ Check# _____ Reviewed By _____ Date _____

Approved Disapproved Refer to Code Enforcement Section _____ of _____ Ordinance

Planning Commission Comments: _____

Planning Chairperson

Date

Code Enforcement

Date

Agricultural Data Statement

Date: 8/23/21

Instructions: Per § 305-a of the New York State Agriculture and Markets Law, any application for a special use permit, site plan approval, use variance or a subdivision approval requiring municipal review and approval would occur on property within a New York State Certified Agricultural District containing a farm operation or property with boundaries within 500 feet of a farm operation located in an Agricultural District shall include an Agricultural Data Statement.

Applicant	Owner if Different from Applicant
Name: <u>Joseph Serth</u> Address: <u>8496 Morianke Rd</u> <u>Pattersonville NY 12137</u>	Name: _____ _____ _____

1. Type of Application: Special Use Permit Site Plan Approval; Use Variance; Area Variance; Subdivision Approval (circle one or more)
2. Description of proposed project:
Commercial event venue
3. Location of project; Address: 216 Butler St Pattersonville NY 12137
Tax Map Number (TMP) 35-05-1-19.2
4. Is this parcel within an Agricultural District? YES NO (Check with your local assessor if you do not know.)
5. If YES, Agricultural District Number _____
6. Is this parcel actively farmed? YES NO
7. List all farm operations within 500 feet of your parcel. Attach additional sheet if necessary.

NAME: _____ ADDRESS: _____ Is this parcel actively farmed? YES NO	NAME: _____ ADDRESS: _____ Is this parcel actively farmed? YES NO
NAME: _____ ADDRESS: _____ Is this parcel actively farmed? YES NO	NAME: _____ ADDRESS: _____ Is this parcel actively farmed? YES NO


Signature of Applicant

Signature of Owner (if other than applicant)

Reviewed by: 
Dale R. Warner

11/3/21
Date

Revised 4/4/17

FARM NOTE

Prospective residents should be aware that farm operations may generate dust, odor, smoke, noise, vibration and other conditions that may be objectionable to nearby properties. Local governments shall not unreasonably restrict or regulate farm operations within State Certified Agricultural Districts unless it can be shown that the public health or safety is threatened.

NOTE TO REFERRAL AGENCY: County Planning Board review is required. A copy of the Agricultural Data Statement must be submitted along with the referral to the County Planning Department.

NOTICE OF DETERMINATION
of the Town of Duanesburg

Date of Determination 11/12/21

Application of Joseph + Christine Surter under section
Zoning of the (Village of Delanson/ Town of Duanesburg)
Ordinance. Local Law # 1 2021

Applicant Joseph + Christine Surter
Address 8496 Mariaville Rd

Phone 518 852-5378 Zoning District R-1 SBL# 35.05.1-19.2

Description of
Project: Commercial Event Venue using barn + parcel
for Weddings + Parties etc.

Determination:
Special use permit

Reason supporting determination:
Local Law # 1 2021 Commercial Event Venues

Action: Refer to Planning Board for the purpose of Special Use Permit

Code Enforcement Officer: Dale Nelson

TOWN OF DUANESBURG LOCAL LAW NO. 1 OF 2021

**A LOCAL LAW AMENDING THE TOWN OF DUANESBURG ZONING ORDINANCE
WITH RESPECT TO COMMERCIAL EVENT VENUES**

BE IT ENACTED by the Town Board of the Town of Duanesburg in the County of Schenectady as follows:

Section 1. Title of the Local Law.

This local law shall be entitled "A Local Law Amending the Town of Duanesburg Zoning Ordinance with Respect to Commercial Event Venues."

Section 2. Authorization.

This local law is enacted pursuant to the Municipal Home Rule Law and Article 16 of the Town Law of the State of New York.

Section 3. Purpose.

The purpose of this local law is to allow within the Town of Duanesburg in all but the L-2 District, the conversion and use of existing structures for temporary events such as weddings, anniversaries, graduation parties, and other similar occasions on a commercial basis. The Town Zoning Ordinance currently addresses mass gatherings but does not address smaller commercial events that may be held in existing structures and/or tents, including Bed and Breakfasts, Agricultural Barns or other accessory structures. Use of Fire Halls, Churches and other buildings already rated for public assemblies for such events is not in any way restricted by the adoption of these regulations which pertain to commercial temporary events. Use of homes and properties on a non-commercial basis for such events is also exempted from the requirements of this local law. For purposes of commercial event venues in the L-1 District, the intent is to allow such events in conjunction with approved Bed and Breakfast uses only.

Where an existing structure is going to be used for commercial events the goal is to balance the impacts of such events on the surrounding neighbors and to ensure that the events are carefully regulated to address impacts related to noise, property maintenance, traffic, public health, welfare and safety.

Section 4. Zoning Ordinance Amendment

The Zoning Ordinance is amended to reflect and include the following:

§ 1-1 Applicability.

- A. This section shall apply to the conversion of existing structures, including temporary tents, for the holding of temporary events such as weddings, anniversaries, graduation parties and the like in all zoning districts in the Town, with the exception of the L-2 District.
- B. With regard to the L-1 District, such events shall only be permitted in conjunction with approved Bend and Breakfast uses only.
- C. This section shall not apply to a facility that has been granted a special use permit to hold mass gatherings as defined under the Town Zoning Code.
- D. This section shall not prohibit the Planning Board from approving a special use permit for a project in any district, except the L-2 District, where the only access to the property is through the L-1 or L-2 District.

§ 1-2 Definitions.

- A. For purposes of this local law, the term “commercial” shall mean any use related to doing business or for business purposes.

§ 1-3 Standards.

- A. The Planning Board may grant a special use permit to allow the conversion of existing structures, including temporary tents, for the holding of temporary events such as weddings, anniversaries, graduation parties and the like, pursuant to 1-1,, provided that the Planning Board finds that all of the following conditions and standards have been met for the conversion of each existing structure for such purposes and that the structure/event venue:
 - 1. Will comply with applicable legal requirements, will be consistent with the purposes of the district in which it is located and has been given due consideration by the Planning Board.
 - 2. Will not result in off-premises noise, dust, odors, solid waste nor lighting.
 - 3. Will not cause significant traffic congestion, will provide adequate parking, will not impair pedestrian safety, will not adversely impact emergency services accessibility or overload existing roads, considering their current width, surfacing, condition and any proposed improvements made to them by the applicant.
 - 4. Will be suitable for the proposed action considering the property’s size, location, topography, vegetation, soils, natural habitat, hydrology, and its ability to be buffered or screened from neighboring properties and public roads.

§ 1-4 Decision.

The Planning Board may approve the application, approve it subject to modifications, or disapprove the application.

- A. Decision. Any decision by the Planning Board to grant or deny a special use permit shall include either a negative declaration of environmental significance or a written SEQRA findings statement consistent with the requirements of SEQRA. The decision shall contain a statement of its findings regarding the appropriateness of the use so authorized and the conditions required in the special use permit, or its reasons for denial. In granting any approval, the Planning Board shall impose any conditions that may be necessary to ensure that the proposed use will be compatible with its surroundings.
- B. Quantity of Events. The number of events that can be held at a location may be limited at the discretion of the Planning Board depending upon the facts and circumstances of the application.
- C. The Planning Board shall attach to the special use permit such conditions and restrictions as are deemed necessary. Upon its granting of said special use permit, any such conditions must be met by the Applicant prior to the issuance of any permits by the Building Inspector and throughout the operation of the event venue. The special use permit for events may be reviewed at the discretion of the Planning Board on a yearly basis.

§ 2 Event Venue.

§ 2-1 Use Standards.

An event venue must demonstrate compliance with the following standards in addition to the special use standards in § 1-3.

- A. The event venue shall be located on a site with a minimum of five acres, unless the venue includes a permitted bed and breakfast or hotel/motel type facility.
- B. The site of the event venue shall have at least two means of egress, at least one of which is adequate for emergency vehicles, as determined by the Planning Board in consultation with emergency responders based on its width, length, surface and ability to support the gross vehicle axle weight of emergency vehicles.
- C. The maximum number of attendees at the event venue shall be 200.
- D. The applicant shall demonstrate either that all required parking can be accommodated on-site or that sufficient off-site parking areas are under the control of the event operator and shuttle vehicles shall be used by the operator of the event venue for such off-site parking areas. All off-site parking areas shall be reviewed by the Planning Board and are subject to the standards herein.
- E. The applicant shall also submit a traffic study showing that the roadways around, entering and leaving the event venue have sufficient capacity and are safe to accommodate the event venue including event attendees and support employee vehicles as well as emergency vehicles.
- F. All events shall be provided with adequate potable water and sanitary facilities as required by the Planning Board, Building Inspector and/or the NYS Department of Health.
- G. The Planning Board shall require appropriate buffers between the event venue and off-site parking, if any, and adjoining properties, given the size of parcel, the natural topography and vegetative cover.

- H. The event will not make, continue, cause, or permit, unreasonably intrusive noise. Standards to be considered in determining whether an unreasonably intrusive noise exists include, but are not limited to, the following:
- a. The volume of the noise.
 - b. The frequency of the noise.
 - c. The time of day of the noise.
 - d. The proximity to any residential, educational, medical, or religious facility.
 - e. The duration of the noise.
- I. Maximum Sound Levels.
- a. Events may only take place between the hours of 9:00 AM to 10:00 PM, except where otherwise specified by the Planning Board.
 - b. At no time may the maximum sound level exceed 70 decibels measured at any of the property boundaries or at the closest residential receptor, as determined by the Planning Board.
 - c. The measurement of any sound or noise shall be made with a sound-level meter using the A-weighted scale and slow response, except for sounds or noises which occur in single or multiple bursts with a duration of less than one second, for which fast response shall be used.
- J. Seating for events may occur outdoors, under a fabric structure temporarily constructed on the property, or in an event structure meeting the standards in § 2-3 below.
- K. Locations for proposed temporary fabric structures must be included on the site plan. All buildings and structures, including fabric structures, to be used as part of the event venue shall, where required, obtain a certificate of occupancy for their intended uses, including an event structure meeting the standards in § 2-3 below.
- L. The Planning Board shall determine the permitted hours of operation of an event venue. Events shall commence no earlier than 9:00 AM and shall terminate no later than 10:00 PM. The Planning Board shall also have the power to modify the commencement and termination times for a particular site based upon the specifics of the application before it as long as the modifications do not impact the health, safety and welfare of the neighborhood and the surrounding community. For purposes of this section, "termination" shall mean the termination of food, drinks, service and entertainment, with the understanding that attendees and servers will need a reasonable amount of time after termination to exit the premises. A generic event management plan shall be prepared and submitted to the Planning Board for review and approval as part of the special use permit review. The plan shall include provisions for traffic and parking management, hours of operation, noise abatement, sanitary facilities and maximum number of guests. The plan shall also include a list of contacts for emergency situations to be used by the guests and shall be provided at each event along with the legal name and address of an emergency contact person at the site shall also be provided.
- M. The Applicant shall provide to the Town a certificate of insurance evidencing coverage in a commercially reasonable amount for the event venue naming the Town as additional insured. Such certificate of insurance shall be provided to the Town Clerk on an annual basis by January 1 of each year or the special use permit will be revoked. An annual

certification of compliance with the terms and conditions of the special use permit shall be provided to the Town by the Applicant.

§ 2-3. Event Structures.

Event venues may utilize new structures or former residential, agricultural or accessory structures as a place of public assembly, such as a barn, house or garage, provided the following criteria are satisfied:

- A. The use of any structure for events shall be permitted only after the issuance of a building permit and a certificate of occupancy for public assembly by the Town's Building Inspector.
- B. The applicant shall provide the Building Inspector with a plan prepared by a registered licensed design professional to improve the structure to be used for events to enable the structure to obtain a certificate of occupancy for an assembly area, where none exists. A copy of the plan shall also be submitted to the Planning Board as part of special use permit and site plan review.
- C. The occupancy of the event structure shall not exceed occupancy load and exiting provisions of the New York State Uniform Code and those occupancy load limits shall be posted at the premises by the Town's Building Inspector.

§ 2-4. Special Use Permit.

- A. The special use permit and site plan for an event venue must include:
 1. The maximum number of attendees permitted during any event, but in no event greater than 200 attendees.
 2. The hours of operation of the special event venue and whether amplified sound is permitted either outside or inside or both.
 3. Any other conditions on operation, design and layout reasonably necessary to ensure compatibility with surrounding uses and to protect the natural, historic and scenic resources of the Town.
 4. Items in Subsection A(1) through (3) above shall be determined by the Planning Board based on the size of the parcel, location, topography, parking, proximity of neighbors, emergency access and the ability of existing and proposed buffers to provide sound attenuation and visual screening.
 5. This permit is allowed in all districts except the L-2. In the L-1 District such events are allowed by special permit only at a Bed and Breakfast that has received all necessary approvals from the Town to operate in the Town.
 6. Trash and other debris shall be stored in containers with lids. Any blowing trash shall not accumulate on any neighboring properties and all trash generated from the event must be removed no later than noon on the day following the event.
- B. Once a special use permit has been granted to permit an event venue at a particular site, individual events may be held at the site without further review by the Planning Board as

long as such events are compliant with § 2-1 and with all the conditions of the special use permit and other approvals issued by the Town.

Section 5. Supersession.

Pursuant to the powers granted by the Municipal Home Rule, this Local Law supersedes all provisions of the Town of Duanesburg Town Code, in so far as such statutes are inconsistent with this Local Law and any other laws or regulations of the Town of Duanesburg are superseded to the extent necessary to give this Local Law full force and effect. All other provisions shall remain the same.

Section 6. Severability.

Each separate provision of this Local Law shall be deemed independent of all other provisions therein, and if any provisions shall be deemed or declared invalid, all other provisions hereof shall remain valid and enforceable.

Section 7. Effective Date.

This Local Law shall take effect immediately upon filing in the office of the New York Secretary of State in accordance with Municipal Home Rule Law § 27.

State Environmental Quality Review Act (SEQRA)
A Local Law Amending the Town of Duanesburg Zoning Ordinance With Respect to
Commercial Event Venues

Support for Determination of Significance
Town of Duanesburg, County of Schenectady, New York
August 12, 2021

The proposed action consists of passing a local law to allow, within the Town of Duanesburg, in all but the L-2 District, the conversion and use of existing structures for temporary events such as weddings, anniversaries, graduation parties, and other similar occasions on a commercial basis. The Town Zoning Ordinance currently addresses mass gatherings but does not address smaller commercial events that may be held in structures and/or tents, including Bed and Breakfasts, Agricultural Barns, or other accessory structures. Use of Fire Halls, Churches and other buildings already rated for public assemblies for such events is not in any way restricted by the adoption of these regulations which pertain to commercial temporary events. Use of homes and properties on a non-commercial basis for such events is also exempted from the requirements of this local law. For purposes of commercial event venues in the L-1 District, the intent is to allow such events in conjunction with approved Bed and Breakfast uses only. Where a structure is going to be used for commercial events the goal is to balance the impacts of such events on the surrounding neighbors and to ensure that the events are carefully regulated to address impacts related to noise, property maintenance, traffic, public health, welfare, and safety.

The Town of Duanesburg has classified the action as Type I action.

The Town has given due consideration as to whether the local law would potentially have a significant adverse impact on the environment. Amending the zoning ordinance will not have a significant adverse impact on the environment and will not exceed any of the criteria for determining significance found in 6 NYCRR § 617.7(c), described below:

- i. a substantial adverse change in existing air quality, ground or surface water quality or quantity, traffic or noise levels; a substantial increase in solid waste production; a substantial increase in potential for erosion, flooding, leaching or drainage problems;
- ii. the removal or destruction of large quantities of vegetation or fauna; substantial interference with the movement of any resident or migratory fish or wildlife species; impacts on a significant habitat area; substantial adverse impacts on a threatened or endangered species of animal or plant, or the habitat of such a species; or other significant adverse impacts to natural resources;
- iii. the impairment of the environmental characteristics of a Critical Environmental Area as designated pursuant to subdivision 617.14(g) of this Part;
- iv. the creation of a material conflict with a community's current plans or goals as officially approved or adopted;

- v. the impairment of the character or quality of important historical, archeological, architectural, or aesthetic resources or of existing community or neighborhood character;
- vi. a major change in the use of either the quantity or type of energy;
- vii. the creation of a hazard to human health;
- viii. a substantial change in the use, or intensity of use, of land including agricultural, open space or recreational resources, or in its capacity to support existing uses;
- ix. the encouraging or attracting of a large number of people to a place or places for more than a few days, compared to the number of people who would come to such place absent the action;
- x. the creation of a material demand for other actions that would result in one of the above consequences;
- xi. changes in two or more elements of the environment, no one of which has a significant impact on the environment, but when considered together result in a substantial adverse impact on the environment; or
- xii. two or more related actions undertaken, funded or approved by an agency, none of which has or would have a significant impact on the environment, but when considered cumulatively would meet one or more of the criteria in this subdivision.

The adoption of the proposed local law is a legislative action that will not result in disturbance to water bodies, and any threatened, endangered, or rare species of plants and animals or the habitat of such species. The proposed local law will not create an increase in solid waste production, traffic, or the potential for erosion, flooding, leaching or drainage problems. As a result of the lack of physical site disturbance, the adoption of the local law will not impact important historical, archeological, architectural, or aesthetic resources, nor will the local law impair the community's current plans and goals. The proposed local law will not create a hazard to human health or a change in energy use.

While the local law may attract a number of people to the Town of Duaneburg, the local law sets forth standards to be used to balance the impacts of the proposed commercial event facility on the surrounding neighbors and to ensure that the events are carefully regulated by means of a special use permit issued by the Town Planning Board to address impacts related to noise, property maintenance, traffic, public health, welfare, and safety.

It is important to note that environmental impacts of individual projects allowed pursuant to the amended zoning ordinance will be considered and evaluated during the special use permit proceedings pursuant to local law and the statewide regulatory framework for the implementation of SEQRA.

Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project: <i>Event venue site</i>		
Project Location (describe, and attach a general location map): <i>216 Batter St, Pattersonville, NY 12137</i>		
Brief Description of Proposed Action (include purpose or need): <i>use 150 year old barn for commercial events</i>		
Name of Applicant/Sponsor: <i>Joseph Smith</i>		Telephone: <i>518-852-5378</i>
		E-Mail: <i>cmvsk@aol.com</i>
Address: <i>896 marionette Rd</i>		
City/PO: <i>Pattersonville</i>	State: <i>NY</i>	Zip Code: <i>12137</i>
Project Contact (if not same as sponsor; give name and title/role): <i>same</i>		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor): <i>same</i>		Telephone:
		E-Mail:
Address:		
City/PO:	State:	Zip Code:

REVISED



ORIGINAL

JAN 12 22

TUANESBURG

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)

Government Entity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)
a. City Council, Town Board, <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No or Village Board of Trustees		
b. City, Town or Village Planning Board or Commission <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	PLANNING BOARD	
c. City, Town or Village Zoning Board of Appeals <input type="checkbox"/> Yes <input type="checkbox"/> No		
d. Other local agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
e. County agencies * <input type="checkbox"/> Yes <input type="checkbox"/> No	* No Permits or APPROVAL NEEDED BUT Town may submit it to Schenectady County Planning	
f. Regional agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
g. State agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
h. Federal agencies <input type="checkbox"/> Yes <input type="checkbox"/> No		
i. Coastal Resources.		
i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
ii. Is the project site located in a community with an approved Local Waterfront Revitalization Program?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
iii. Is the project site within a Coastal Erosion Hazard Area?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

C. Planning and Zoning

C.1. Planning and zoning actions.

Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? Yes No

- If Yes, complete sections C, F and G.
- If No, proceed to question C.2 and complete all remaining sections and questions in Part 1

C.2. Adopted land use plans.

a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located? Yes No

If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located? Yes No

b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) Yes No

If Yes, identify the plan(s):
 NYS Heritage Areas: Mohawk Valley Heritage Corridor

c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? Yes No

If Yes, identify the plan(s):



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a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. Yes No
 If Yes, what is the zoning classification(s) including any applicable overlay district?
R1 Residential

b. Is the use permitted or allowed by a special or conditional use permit? Yes No

c. Is a zoning change requested as part of the proposed action? Yes No
 If Yes,
 i. What is the proposed new zoning for the site? _____

C.4. Existing community services.

a. In what school district is the project site located? Schalmont

b. What police or other public protection forces serve the project site?
NYS Police + Schtaly CO Sheriff's

c. Which fire protection and emergency medical services serve the project site?
Marionville fire dept + Duquesburg Ambulance

d. What parks serve the project site?
None

D. Project Details

D.1. Proposed and Potential Development

a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed, include all components)?
Commercial event venue site

b. a. Total acreage of the site of the proposed action? 6.7 acres
 b. Total acreage to be physically disturbed? 0 acres
 c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 6.7 acres

c. Is the proposed action an expansion of an existing project or use? Yes No
 i. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles, housing units, square feet)? % _____ Units: _____

d. Is the proposed action a subdivision, or does it include a subdivision? Yes No
 If Yes,
 i. Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) _____
 ii. Is a cluster/conservation layout proposed? Yes No
 iii. Number of lots proposed? _____
 iv. Minimum and maximum proposed lot sizes? Minimum _____ Maximum _____

e. Will the proposed action be constructed in multiple phases? Yes No
 i. If No, anticipated period of construction: 0 months
 ii. If Yes:
 • Total number of phases anticipated _____
 • Anticipated commencement date of phase 1 (including demolition) _____ month _____ year
 • Anticipated completion date of final phase _____ month _____ year
 • Generally describe connections or relationships among phases, including any contingencies where progress of one phase may determine timing or duration of future phases: _____



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If Yes, show numbers of units proposed.

	<u>One Family</u>	<u>Two Family</u>	<u>Three Family</u>	<u>Multiple Family (four or more)</u>
Initial Phase	_____	_____	_____	_____
At completion of all phases	_____	_____	_____	_____

g. Does the proposed action include new non-residential construction (including expansions)? Yes No

If Yes,

- i. Total number of structures _____
- ii. Dimensions (in feet) of largest proposed structure: _____ height; _____ width; and _____ length
- iii. Approximate extent of building space to be heated or cooled: _____ square feet

h. Does the proposed action include construction or other activities that will result in the impoundment of any liquids, such as creation of a water supply, reservoir, pond, lake, waste lagoon or other storage? Yes No

If Yes,

- i. Purpose of the impoundment: _____
- ii. If a water impoundment, the principal source of the water: Ground water Surface water streams Other specify: _____
- iii. If other than water, identify the type of impounded/contained liquids and their source. _____
- iv. Approximate size of the proposed impoundment. Volume: _____ million gallons; surface area: _____ acres
- v. Dimensions of the proposed dam or impounding structure: _____ height; _____ length
- vi. Construction method/materials for the proposed dam or impounding structure (e.g., earth fill, rock, wood, concrete): _____

D.2. Project Operations

a. Does the proposed action include any excavation, mining, or dredging, during construction, operations, or both? (Not including general site preparation, grading or installation of utilities or foundations where all excavated materials will remain onsite) Yes No

If Yes:

- i. What is the purpose of the excavation or dredging? _____
- ii. How much material (including rock, earth, sediments, etc.) is proposed to be removed from the site?
 - Volume (specify tons or cubic yards): _____
 - Over what duration of time? _____
- iii. Describe nature and characteristics of materials to be excavated or dredged, and plans to use, manage or dispose of them. _____
- iv. Will there be onsite dewatering or processing of excavated materials? Yes No
If yes, describe. _____
- v. What is the total area to be dredged or excavated? _____ acres
- vi. What is the maximum area to be worked at any one time? _____ acres
- vii. What would be the maximum depth of excavation or dredging? _____ feet
- viii. Will the excavation require blasting? Yes No
- ix. Summarize site reclamation goals and plan: _____

b. Would the proposed action cause or result in alteration of, increase or decrease in size of, or encroachment into any existing wetland, waterbody, shoreline, beach or adjacent area? Yes No

If Yes:

- i. Identify the wetland or waterbody which would be affected (by name, water index number, wetland map number or geographic description): _____

ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of structures, or alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square feet or acres:

iii. Will the proposed action cause or result in disturbance to bottom sediments? Yes No
If Yes, describe: _____

iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation? Yes No
If Yes:

- acres of aquatic vegetation proposed to be removed: _____
- expected acreage of aquatic vegetation remaining after project completion: _____
- purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): _____
- proposed method of plant removal: _____
- if chemical/herbicide treatment will be used, specify product(s): _____

v. Describe any proposed reclamation/mitigation following disturbance: _____

c. Will the proposed action use, or create a new demand for water? Yes No

If Yes: i. Total anticipated water usage/demand per day: < 100 gallons/day Average

ii. Will the proposed action obtain water from an existing public water supply? Yes No

If Yes:

- Name of district or service area: _____
- Does the existing public water supply have capacity to serve the proposal? Yes No
- Is the project site in the existing district? Yes No
- Is expansion of the district needed? Yes No
- Do existing lines serve the project site? Yes No

iii. Will line extension within an existing district be necessary to supply the project? Yes No

If Yes: • Describe extensions or capacity expansions proposed to serve this project: _____

• Source(s) of supply for the district: _____

iv. Is a new water supply district or service area proposed to be formed to serve the project site? Yes No

If, Yes: • Applicant/sponsor for new district: _____

• Date application submitted or anticipated: _____

• Proposed source(s) of supply for new district: _____

v. If a public water supply will not be used, describe plans to provide water supply for the project: _____

vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: _____ gallons/minute.

d. Will the proposed action generate liquid wastes? Yes No

If Yes: i. Total anticipated liquid waste generation per day: < 100 gallons/day Average

ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all components and approximate volumes or proportions of each): SANITARY

iii. Will the proposed action use any existing public wastewater treatment facilities? Yes No

If Yes: • Name of wastewater treatment plant to be used: SD#2 Mariaville

• Name of district: _____

• Does the existing wastewater treatment plant have capacity to serve the project? Yes No

• Is the project site in the existing district? Yes No

• Is expansion of the district needed? Yes No



• Will a line extension within an existing district be necessary to serve the project? Yes No

If Yes:

• Describe extensions or capacity expansions proposed to serve this project: _____

iv. Will a new wastewater (sewage) treatment district be formed to serve the project site? Yes No

If Yes:

• Applicant/sponsor for new district: _____
• Date application submitted or anticipated: _____
• What is the receiving water for the wastewater discharge? _____

v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including specifying proposed receiving water (name and classification if surface discharge or describe subsurface disposal plans):

vi. Describe any plans or designs to capture, recycle or reuse liquid waste: _____

e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point source (i.e. sheet flow) during construction or post construction? Yes No

If Yes:

i. How much impervious surface will the project create in relation to total size of project parcel?

_____ Square feet or _____ acres (impervious surface)

_____ Square feet or _____ acres (parcel size)

ii. Describe types of new point sources. _____

iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent properties, groundwater, on-site surface water or off-site surface waters)?

• If to surface waters, identify receiving water bodies or wetlands: _____

• Will stormwater runoff flow to adjacent properties? Yes No

iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater? Yes No

f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel combustion, waste incineration, or other processes or operations? Yes No

If Yes, identify:

i. Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)

ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)

iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)

g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit, or Federal Clean Air Act Title IV or Title V Permit? Yes No

If Yes:

i. Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet ambient air quality standards for all or some parts of the year) Yes No

ii. In addition to emissions as calculated in the application, the project will generate:

- _____ Tons/year (short tons) of Carbon Dioxide (CO₂)
- _____ Tons/year (short tons) of Nitrous Oxide (N₂O)
- _____ Tons/year (short tons) of Perfluorocarbons (PFCs)
- _____ Tons/year (short tons) of Sulfur Hexafluoride (SF₆)
- _____ Tons/year (short tons) of Carbon Dioxide equivalent of Hydrofluorocarbons (HFCs)
- _____ Tons/year (short tons) of Hazardous Air Pollutants (HAPs)



landfills, composting facilities)?

If Yes:

- i. Estimate methane generation in tons/year (metric): _____
- ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to generate heat or electricity, flaring): _____

i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? Yes No

If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): _____

j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? Yes No

If Yes:

- i. When is the peak traffic expected (Check all that apply): Morning Evening Weekend
 Randomly between hours of _____ to _____.
- ii. For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump trucks): _____

iii. Parking spaces: Existing _____ Proposed _____ Net increase/decrease _____

iv. Does the proposed action include any shared use parking? Yes No

v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing access, describe: _____

vi. Are public/private transportation service(s) or facilities available within 1/2 mile of the proposed site? Yes No

vii. Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? Yes No

viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? Yes No

k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? Yes No

If Yes:

i. Estimate annual electricity demand during operation of the proposed action: _____

ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/local utility, or other): _____

iii. Will the proposed action require a new, or an upgrade, to an existing substation? Yes No

l. Hours of operation. Answer all items which apply.

i. During Construction:

- Monday - Friday: _____
- Saturday: N/A
- Sunday: _____
- Holidays: _____

ii. During Operations:

- Monday - Friday: 9 AM - 10 PM
- Saturday: 9 AM - 10 PM
- Sunday: 9 AM - 10 PM
- Holidays: 9 AM - 10 PM



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