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SEPTEMBER 21, 2021 MEETING

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No materials.		

TOWN OF LEWISBORO Westchester County, New York



Tel: (914) 763-5592 Fax: (914) 875-9148 Email: planning@lewisborogov.com

AGENDA

Tuesday, September 21, 2021

South Salem, New York 10590

Meeting will start at 7:30 p.m. and end at or before 11:00 p.m.

Live streaming to Lewisboro TV YouTube channel

https://www.youtube.com/channel/UCNUNE5gXs5rnHcyR4l6dikA

I. WAIVER OF SITE DEVELOPMENT PLAN PROCEDURE

Cal #07-21PB

Planning Board

79 Bouton Road

Cross River Pharmacy, 890 Route 35, Cross River, NY 10518, Sheet 20, Block 10801, Lot 30 (Central Ave., White Plains, LLC., owner of record) - Application for a change of use.

II. EXTENSION OF TIME REQUEST, CONTINUED

Cal #08-12PB

Petruccelli/Badagliacca, Oscaleta Road, South Salem, NY 10590 Sheet 33B, Block 11157, Lot 46 (**Steven Petruccelli and Teresa Badagliacca, owners of record**) - Request for a 90-day Extension of Time to resolution granting Preliminary/Final Subdivision Plat, Negative Declaration Under SEQRA, dated October 21, 2014.

III. WETLAND PERMIT REVIEW

Cal #29-21WP, #03-20WV

Schilke Residence, 3 Beaver Pond, South Salem, NY 10590, Sheet 46, Block 9827, Lot 184 (Sophia Chenevert-Schilke and D. Chenevert, owners of record) - Application for the remediation of wetlands.

Cal #61-20WP, Cal #14-20SW

Adler/Greenwald Residence, 12 East Ridge Road, Waccabuc, NY 10597, Sheet 25, Block 10803 Lot 24 (Karen Adler and Laurence Greenwald, owners of record) - Application for the installation of a pool and bridge reconstruction.

Cal #30-20WP, Cal #05-20SW

Stein Residence, 51 Pine Hill Drive, South Salem, NY 10590 Sheet 29B, Block 10540 Lot 75 (William Stein, owner of record) - Application for the construction of a single-family house.

Cal #53-21WP

Nitta Residence, 10 Lambert Ridge, Cross River, NY 10518, Sheet 17, Block 10533 Lot 443 (Rubina and Satyanarayana Nitta, owners of record) - Application for the installation of a pool.

Cal #62-21WP, Cal #15-21SW

Stevelman Orchard, 0 Robins Wood Lane, South Salem, NY 10590, Sheet 53, Block 9834, Lot 145 (Paul and Peri Stevelman, owners of record) - Application for an orchard on vacant land.

IV. CORRSEPONDENCE

Cal# 6-02PB

Oakridge Gardens aka Laurel Ridge, 450 Oakridge Common, South Salem, NY 10590, Sheet 49D, Block 9830, Lots 279 & 325 (Smith Ridge Housing, LLC, owner of record) – Request to amend Laurel Ridge's Resolutions from 2012.

V. DISCUSSIONS

<u>Cal #24-17WP, Cal #6-17SW</u>

Grigor/Pasicov Residence, 24 Gilbert Street, South Salem, NY 10590, Sheet 36F, Block 10806, Lot 22 (Stephanie Pasicov, owner of record) – Driveway and parking configuration at newly renovated two-bedroom house.

Cal #pending

Wild Oaks Water System Emergency Well, 0 Nash Road, Goldens Bridge, NY 10526, Sheet 7, Block 11137, Lot 124 (American Water Works Company Inc., owner of record) – Activities within a wetland including drilling of replacement well for Well 7, installation of access road and temporary bridge.

Town Board to amend Town Code §220-16(L) – outdoor restaurant seating shall be permitted through to December 31, 2022.

In-person or virtual meetings

- VI. MINUTES OF August 17, 2021.
- VII. NEXT MEETING DATE: October 19, 2021.



MEMORANDUM

TO:	Chairperson Janet Andersen and
	Members of Lewisboro Planning Board
CC:	Ciorsdan Conran
	Judson Siebert, Esq.
	Joseph Angiello
FROM:	Jan K. Johannessen, AICP
	Joseph M. Cermele, P.E., CFM (سبنای)
	Town Consulting Professionals
DATE:	September 16, 2021
RE:	Waiver of Site Development Plan Procedures
	Cross River Pharmacy
	890 Route 35
	Sheet 20, Block 10801, Lot 30

PROJECT DESCRIPTION

The subject property consists of 1.41 acres of land and is located at 890 Route 35 within the RB Zoning District. The subject property is developed with multi-tenant commercial building with several storefronts. The applicant is proposing to convert a former physical training studio (Body Fit) to a pharmacy use.

SEQRA

The proposed action has been preliminarily identified as a Type II Action and is therefore categorically exempt from the State Environmental Quality Review Act (SEQRA).

REQUIRED APPROVALS/REFERRALS

- 1. Site Development Plan Approval is required from the Planning Board; the application appears to qualify for Waiver of Site Development Plan Procedures.
- 2. The proposed use will require approval from the Westchester County Department of Health (WCDH).

CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | SITE & ENVIRONMENTAL PLANNING

Chairperson Janet Andersen September 16, 2021 Page 2 of 2

3. The application must be referred to the Westchester County Planning Board in accordance with Section 239-m of the General Municipal Law. The Planning Board Administrator will coordinate this referral.

COMMENTS

- 1. This office defers review of the plan for zoning compliance to the Building Inspector.
- 2. The applicant shall submit a business plan, which shall provide a detailed description of the proposed use and its operation. The business plan shall include a title and date for reference purposes.
- 3. The applicant shall demonstrate that any proposed signage complies with Chapter 185, Signs, of the Town Code.
- 4. The Tax Parcel Identification number(s) shall be identified on the plan.
- 5. The Planning Board's standard signature blocks shall appear on all sheets.

In order to expedite the review of subsequent submissions, the applicant should provide annotated responses to each of the comments outlined herein.

PLANS REVIEWED, PREPARED BY MANDRA WORKSHOP ARCHITECTURAL DESIGN, DATED AUGUST 4, 2021:

- Cover/Site Data (T1)
- General Information (G001)
- New Construction Plans (A201)

DOCUMENTS REVIEWED:

- Waiver of Site Development Plan Procedures Application
- Short EAF, dated August 14, 2021
- Letter, prepared by Elaine Feldman

JKJ/dc

https://kellardsessionsconsulti.sharepoint.com/sites/Kellard/Municipal/Lewisboro/Correspondence/2021-09-16_LWPB_Cross River Pharmacy - 890 Route 35_Review Memo.docx

#7-21PB
79 Bouton Road, South Salem, NY 10590 Tel: (914) 763-5592 Email: planning@lewichorogov.com
Site Development Plan/Subdivision Plat Application - Check all that apply:
Waiver of Site Development Plan Procedures
Site Development Plan Approval Step I Step II Ch # 3 4 3 6 4 Special Use Permit Approval Step I Step II Step II
Subdivision Plat Approval Step I Step II Step II Step III Step III Step III
Project Information
Project Name:Cross Kiver Pharmacy
Project Address: <u>890</u> Route 35 Cross River, Newyork 10518
Gross Parcel Area: 1,464 Zoning District: RB Sheet(s): 20 Block (s): 1080 Lot(s): 30
Project Description: Change of use for parcel area
from physical therapy to retail pharmacy
Is the site located within 500 feet of any Town boundary?YESNOIs the site located within the New York City Watershed?YESNOIs the site located on a State or County Highway?YESNO
Does the proposed action require any other permits/approvals from other agencies/departments? Town Board ZBA Building Dept. Town Highway Implements ACARC NYSDEC NYCDEP WCDH Implements NYSDOT Town Wetland Town Stormwater Implements Other Baard of Pharmacy Albany, New York
Owner's Information
Name: Ibrahim Jamal Email: jamal & a gmail, com
Address: 2 Charles W. Briggs Rd. Croton-on Hudson, Ny 10520 Phone: (914) 573-1346
Applicant's Information (if different)
Name: Stuartand blaine Feldman Email: misselaineous 56@asl.com
Address: 80 Stallion Trail Brewster, New Jork 10509 Phone: (914) 494-8118 (914) 494-6233
Authorized Agent's Information
Name: Email:
Address: Phone:
THE APPLICANT understands that any application is considered complete only when all information and documents required have been submitted and received by the Planning Board. The applicant further understands that the applicant is responsible for the payment of all application and review fees incurred by the Planning Board.
THE UNDERSIGNED WARRANTS the truth of all statements contained herein and in all supporting documents according to the best of his/her knowledge and belief, and authorizes visitation and inspection of the subject property by the Town of Lewisboro and its agents.
APPLICANT'S SIGNATURE <u>Claire J-Seldman</u> DATE <u>8/14/2021</u>
OWNER'S SIGNATURE

CROSS RIVER PHARMACY P.O. BOX 696 CROSS RIVER, NEW YORK 10518

We are planning to build a state-of-the-art pharmacy at 890 Route 35 in Cross River, New York. This pharmacy will comply with all local, state, and federal regulations. The pharmacy will also comply with all OSHA and ADA regulations. Cross River Pharmacy will be a retail pharmacy and will comply with all existing regulations. We will also provide curbside service and a delivery service. Please call me if you have any comments or questions. Thank you very much.

Elaine Feldman Cross River Pharmacy (914) 763-3152/3153

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79 Bouton Road, South Salem, NY 10590 Email: <u>planning@lewisborogov.com</u> Tel: (914) 763-5592 Fax: (914) 875-9148

Affidavit of Ownership

State of: New York
County of: Westchester
Elaine Feldman, being duly sworn, deposes and says that be /she
resides at <u>80</u> Stallion Trail
in the County of Putnam State of York
and that he/she is (check one) the owner, or the
of Lewisboro Pharmacy, Inc Title
Name of corporation, partnership, or other legal entity
which is the owner, in fee of all that certain log, piece or parcel of land situated, lying and being in the
Town of Lewisboro, New York, aforesaid and know and designated on the Tax Map in the Town of
Lewisboro as:
Block 10801 , Lot 30 on Sheet 20 .
llaine S. Heldman
Owner's Signature
Sworn to before me this
16 day of August , 2021
ANGJELO HARAPI Notary Public - State of New York NO. 01HA6376519 Qualified in Westchester County My Commission Expires Jun 11, 2022

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79 Bouton Road, South Salem, NY 10590 Email: <u>planning@lewisborogov.com</u> Tel: (914) 763-5592 Fax: (914) 875-9148

Affidavit of Ownership

State of: New York
County of: westchester
Stuart Feldman, being duly sworn, deposes and says that he/she
resides at 80 Stallion Trail Brewster, New York 10509
in the County of Putnam, State of New York
and that he/she is (check one) the owner, or the
of Lewisboro Pharmacy, Inc. Title
Name of corporation, partnership, or other legal entity
which is the owner, in fee of all that certain log, piece or parcel of land situated, lying and being in the
Town of Lewisboro, New York, aforesaid and know and designated on the Tax Map in the Town of
Lewisboro as:
Block 10801 Lot 30 on Sheet 20
had o
Owner's Signature
Sworn to before me this
16th day of August ,2071
ANGJELO HARAPI Notary Public - State of New York
Qualified in Westchester County My Commission Expires Jun 11, 2022
Notary Puplic – affix stamp

79 Bouton Road, South Salem, NY 10590 Email: <u>planning@lewisborogov.com</u> Tel: (914) 763-5592 Fax: (914) 875-9148

Tax Payment Affidavit Requirement

This form must accompany all applications to the Planning Board.

Under regulations adopted by the Town of Lewisboro, the Planning Board may not accept any application unless an affidavit from the Town of Lewisboro Receiver of Taxes is on file in the Planning Board office. The affidavit must show that all amounts due to the Town of Lewisboro as real estate taxes and special assessments on the total area encompassed by the application, together with all penalties and interest thereon, have been paid.

Under New York State law, the Westchester County Clerk may not accept any subdivision map for filing unless the same type of affidavit from the Town of Lewisboro Receiver of Taxes is submitted by the applicant at the time of filing.

This form must be completed by the applicant and must accompany all applications to the Planning Board. Upon receipt, the Planning Board Secretary will send the form to the Receiver of Taxes for signature and notarization. If preferred, the applicant may directly obtain the signature of the Receiver of Taxes and notarization prior to submission.

	To Be Completed by Applicant (Please type or print)
ELAINE & STUART Name of Applicant FELDMAN	CHANGE OF USE TO PHARMACY Project Name
Property Description	Property Assessed to:
Tax Block(s): 1080/	CENTRAL AVE, WHITE PLAINSLLO
Tax Lot(s): <u>30</u>	Name 890 ROVTE 35
Tax Sheet(s): 20	Address CROSS RIVER NY 10518
	City State Zip

The undersigned, being duly sworn deposes and says that a search of the tax records in the office of the Receiver of Taxes, Town of Lewisboro, reveals that all amounts due to the Town of Lewisboro as real estate taxes and special assessments, together with all penalties and interest thereon, affecting the premises described below, have been paid.

Signature - Receiver of Taxes: Swornko before me this JANET L. DONOHUE NOTARY PUBLIC, STATE OF NEW YORK No. 01D06259627 Qualified in Westchester County Commission Expires April 16, 2020 Signature -Notary Public (affix stamp)

Short Environmental Assessment Form Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. 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.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Name of Action or Project: Cross Rusi Pharmacy Project Location (describe, and attach a location map): Gun Paruel 19801 Fair Rack 35 CrossRusci ny rosts Block 10801 Brief Description of Proposed Action: Block 10801 Chang g wx for parcel area Gun physical therapy to a network pharmacy Mame of Applicant or Sponsor: Telephone: 914-763-3152 Braine Feldman E-Mail: cross river pharmacy@ grant lisse Address: 20 n. Salem Rd: Pos Bar (696 State: City/PO: State: I. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that marke affected in the municipality and proceed to part 2. If no, continue to ouestion 2.
Name of Action or Project: Cross Rwei Pharmacy Project Location (describe, and attach a location map): Gwn Parwel 1.944 acres Face Locat 35 Cwonkweigny 10515 Block 10801 Brief Description of Proposed Action: Block 10801 Change Q was for parcel area Grange Q was for parcel area from physical therapy to a network pharmacy Name of Applicant or Sponsor: Telephone: 914-763-3152 Braine Feldman E-Mail: cosssrver pharmacy@ gmmel.cos Address: 20 n. Salem Rd: POB Box 696 State: CityPO: State: I. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? No If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no. continue to question 2. No
Cross kivel Pharmacy Project Location (describe, and attach a location map): Gim Parcel 1.444 acres Fac hack 35 CrossRivering rosts Block 10801 Brief Description of Proposed Action: Chang Q wx for parcel area Chang Q wx for parcel area Gum physical therapy to a network pharmacy Mame of Applicant or Sponsor: Telephone: 914-763-3152 Braine Feldman E-Mail: crossriver pharmacy grant l.cos Address: 20 N. Salem Rd: Poss log 696 State: City/PO: State: I. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that May be affected in the municipality and proceed to Part 2. If no. continue to question 2.
Project Location (describe, and attach a location map): F90 Kark 35 CrossRusting 10515 Block 10801 Brief Description of Proposed Action: Change J we for parcel area from physical therapy to a netail pharmary from physical therapy to a netail pharmary Mame of Applicant or Sponsor: E-Mail: cross river pharmary@gmail.com Address: 20 n. Salem Rd POBOR 696 City/PO: City/PO: City/PO: 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.
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Brief Description of Proposed Action: Chang & wx for parcel area from physical therapy to a retail pharmary Name of Applicant or Sponsor: Elaine Feldman Address: 20 n. Salem Rd PO Box 696 City/PO: City/PO: City/PO: Com Reven 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.
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Image: State in the proposed action of the proposed action and the environmental resources thatTelephone: $914-763-3152$ Name of Applicant or Sponsor:Telephone: $914-763-3152$ Harne FeldmanE-Mail: $correst river pharmaug@gmarl.correctionAddress:20 n. 5alem RdPOBor 696State:City/PO:State:I. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation?If Yes, attach a narrative description of the intent of the proposed action and the environmental resources thatIf Yes, attach a narrative description of the intent of the proposed action and the environmental resources thatIf Yes, attach a narrative description of the intent of the proposed action and the environmental resources that$
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Haine Feldman E-Mail: cross river pharmay@gmail.com Address: 20 n. Salem Rdi Po Box 696 City/PO: State: Zip Code: 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? NO If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2. NO
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POBox 696 City/PO: State: 74 Zip Code: 1. Does the proposed action only involve the legislative adoption of a plan, local law, ordinance, administrative rule, or regulation? NO YES If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2. NO YES
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administrative rule, or regulation? If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.
If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.
2. Does the proposed action require a permit, approval or funding from any other government Agency? NO VES
If Yes, list agency(s) name and permit or approval:
3 a Total acreage of the site of the proposed action?
b. Total acreage to be physically disturbed?
c. Total acreage (project site and any contiguous properties) owned
acres
4. Check all land uses that occur on, are adjoining or near the proposed action:
Urban 🔲 Rural (non-agriculture) 🔲 Industrial 🔽 Commercial 🗔 Residential (suburban)
Forest Agriculture Aquatic Other(Specify):
Parkland

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?	П	D	
b. Consistent with the adopted comprehensive plan?			
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?		NO	YES
			V
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		NO	YES
If Yes, identify:		V	
8 a Will the proposed entire month in a substantial in the CT 1 and the substantial in t		NO	YES
o. a. will the proposed action result in a substantial increase in traffic above present levels?	Ī	V	
b. Are public transportation services available at or near the site of the proposed action?		V	
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?		V	
9. Does the proposed action meet or exceed the state energy code requirements? If the proposed action will exceed requirements, describe design features and technologies:	-	NO	YES
it the proposed action will exceed requirements, describe design reatures and technologies:			
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No, describe method for providing potable water:			_
			M
11. Will the proposed action connect to existing wastewater utilities?	_	NO	YES
If No, describe method for providing wastewater treatment:		_	
	_		
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district	-	NO	YES
which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	-		
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	Ì		
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?		NO	YES
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?			
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	_ [
	-		

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14 Identified a training to the state of the		
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:		
Shoreline Forest Agricultural/grasslands Early mid-successional		
Wetland Urban Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or	NO	YES
Federal government as threatened or endangered?	V	
16. Is the project site located in the 100-year flood plan?	NO	YES
	2	
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
If Yes,		
a. Will storm water discharges flow to adjacent properties?		
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe:		
18. Does the proposed action include construction or other activities that would result in the impoundment of water or other liquids (e.g., retention pond, waste lagoon, dam)?	NO	YES
If Yes, explain the purpose and size of the impoundment:	1	
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste	NO	YES
management facility? If Yes, describe:		
	N	
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste?		
11 Tes, desembe	N	
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BES MY KNOWLEDGE	ST OF	
Applicant/sponsor/name: <u>Claine S. Feldman</u> <u>Date: 8/14/20</u>	21	
Signature: <u>flained-xloman</u>		

4

79 Bouton Road, South Salem, NY 10590 Email: <u>planning@lewisborogov.com</u> Tel: (914) 763-5592 Fax: (914) 875-9148

Affidavit of Ownership

State of: New York County of: westchester
Ibrahim Jama being duly sworn, deposes and says that he/she resides at 2 Charles & Briggs Rdi Croitor on Hudson, New York 10520
in the County of Westchester State of New york
and that he/she is (check one) the owner, or the the
of <u>Central Avenue</u> white Plain's LLC Title Name of corporation, partnership, or other legal entity
which is the owner, in fee of all that certain log, piece or parcel of land situated, lying and being in the
Town of Lewisboro, New York, aforesaid and know and designated on the Tax Map in the Town of
Lewisboro as:
Block 10801 Lot 30 on Sheet 20 .
Owner's Signature
Sworn to before me this
19 day of Auguss 2 D21

JOHN SHEA Notary Public - State of New York NO. 01SH6390036 Qualified in Putnam County My Commission Expires Apr 8, 2023

1219 Gen

Chill H

Notary Public – affix stamp



CROSS RIVER PHARMACY 890 NY-35 CROSS RIVER, NY 10518

PLANNING & ZONING

LIST OF DRAWINGS

T1	COVER / SITE DATA	
01 GENRAL INFORMATION		
G001	GENERAL INFORMATION	
02 ARCHITECTURE		
A201	NEW CONSTRUCTION PLANS	

BUILDING DATA - ZONE RB				
VALUE	REQUIRED	EXISTING	PROPOSED	VARIANCE
LOT SIZE	.05 ACRES	1.464 ACRE 63,772SF	NO CHANGE	NONE
BUILDING COVERAGE	20%	15.2	NO CHANGE	NONE
IMPERVIOUS COVERAGE	60%	53%	NO CHANGE	NONE
SETBACK: FRONT RIGHT SIDE LEFT SIDE REAR	20' 15' 15' 15'	100' 20' 85' 118'	NO CHANGE NO CHANGE NO CHANGE NO CHANGE	NONE NONE NONE NONE
HEIGHT	2.5 STORIES 30' MAX	2.5 STORIES 24 HEIGHT	NO CHANGE	NONE
F.A.R. (INCL BASEMENT	0.30	0.281	NO CHANGE	NONE
BUILDING AREA (GROSS SF)		17,990 SF	NO CHANGE	NONE
FIRST FLOOR AR (GROSS SF)	EA	7,820 SF	NO CHANGE	NONE
BASEMENT FLOOR AREA (GROSS SF)		7,820 SF	NO CHANGE	NONE
SECOND FLOOR AREA (GROSS SF)		2,350 SF	NO CHANGE	NONE

PARKING DATA - ZONE RB				
VALUE	REQUIRED	EXISTING	PROPOSED	VARIANCE
OFF STREET	49 SPACES	63 SPACES	NO CHANGE	NONE
FIRST FLOOR RETAIL (2750 SF / 200)	14 CARS	14 CARS	NO CHANGE	NONE
FIRST FLOOR RETAIL (1970 SF / 200)	10 CARS	10 CARS	NO CHANGE	NONE
FIRST FLOOR RETAIL (2545 SF / 200)	13 CARS	13 CARS	NO CHANGE	NONE
BASEMENT STORAGE (6620 SF/ 1000)	7 CARS	7 CARS	NO CHANGE	NONE
SECOND FLOOR UN-USED	NA	NA	NO CHANGE	NONE
HANDICAPPED PARKING	3 SPACES	3 SPACES	NO CHANGE	NONE
LOADING BAY	2 BAYS	2 BAYS	NO CHANGE	NONE



ABBREVIATIONS

AFF ACM ACPL ACT ADJ	ABOVE FINISH FLOOR ASBESTOS CONTAINING MATERIAL ACOUSTIC PANEL ACOUSTIC CEILING TILE ADJUSTABLE	GALV GFB GFRG GL GWB	GALVANIZED GROUND FACE BLOCK GLASS FIBER REINFORCED GYPSUM GLASS GYPSUM WALLBOARD
AC AESS ALUM APPROX	AIR CONDITIONING ARCHITECTURAL EXPOSED STRUCTURAL STEEL ALUMINUM APPROXIMATE	HDW HDWD HD	HARDWARE HARDWOOD HEAD
BTW BLKG BOT BLDG BL	BETWEEN BLOCKING BOTTOM BUILDING BUILDING LINE	HUR HVAC HM HMFR HORIZ HC	HEADER HEATING, VENTILATING, AIR CONDITIONING HOLLOW METAL HOLLOW METAL FRAME HORIZONTAL HANDICAP
CAB CB CI CLG CL CMU	CABINET CEMENT BOARD CAST IRON CEILING CENTER LINE CONCRETE MASONRY LINIT	IF INCL INFO INSUL INT	INSIDE FACE INCLUDE/INCLUSIVE INFORMATION INSULATION INTERIOR
COL CONC CONST	COLUMN CONCRETE CONSTRUCTION	JT JSTS	JOINT JOIST
CONTR CONT CPT	CONTRACTOR CONTINUOUS CARPET	KPL KD	KICK PLATE KNOCKDOWN
CT CTB	CERAMIC TILE CERAMIC TILE BASE	lam Lamgl Lt	LAMINATED LAMINATED GLASS LIGHT
DET DF DIM	DETAIL DRINKING FOUNTAIN DIMENSION	LTG LWC	LIGHTING LIGHT WEIGHT CONCRETE
DR DN DWG	DOOR DOWN DRAWING	MAX MFG MSNRY MO	MAXIMUM MANUFACTURER MASONRY MASONRY OPENING
EE EIFS EJ	EACH END EXTERIOR INSULATION FINISH SYSTEM EXPANSION JOINT	MECH MTL MS	MECHANICAL METAL METAL STUD
ELEC ELEV ENCL	ELECTRIC/ELECTRICAL ELEVATION ENCLOSURE	MLWK MIN MISC	MILL WORK MINIMUM MISCELLANEOUS
EOD EOS EPS	EDGE OF DECK EDGE OF SLAB EDGE OF POUR STOP	MLDG MTG	MOLDING MOUNTING
EQ EXST EXP JT EXT	EQUAL EXISTING EXPANSION JOINT EXTERIOR	NIS NTS NO	NOT IN SCOPE NOT TO SCALE NUMBER
EW FIN FD	EACH WAY FINISHED FLOOR DRAIN	OC OPNG OPP OTS	ON CENTER OPENING OPPOSITE OPEN TO STRUCTURE
FEC FF	FIRE DAIWPER FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FACTORY FINISH	PTD PT	PAINTED PORCELAIN TILE
FR FRD FL/FLR FL MTD	FIRE RATED FRENCH DRAIN FLOOR FLUSH MOUNTED	PTB PL PLAM PLMB	PORCELAIN TILE BASE PROPERTY LINE PLASTIC LAMINATE PLUMBING
FT FDN	FOOT/FEET FOUNDATION	PLYWD	PLYWOOD

QTB QTY	QUARRY TILE BASE QUANTITY
RCP REQD RB RTN RA REV RFI RO RTB RW	REFLECTED CEILING PLAN REQUIRED RUBBER BASE RETURN RETURN AIR REVISED/REVISION REQUEST FOR INFORMATION ROUGH OPENING RUBBER TREAD BASE RESCUE WINDOW
SCHED SFB SIM STC SPEC SQFT SSTL STL STR SUSP	SCHEDULE/SCHEDULED SPLIT FACE BLOCK SIMILAR SOUND TRANSMISSION CLASS SPECIFICATION SQUARE FOOT STAINLESS STEEL STEL STRUCTURAL/STRUCTURE SUSPENDED/SUSPENSION
TBD TERR TFF TMP GL THERMO T&B TO TOS TOS TOSS TOES TYP	TO BE DETERMINED TERRAZZO TOP FINISHED FLOOR TEMPERED GLASS THERMOSTAT TOP AND BOTTOM TOP OF TOP OF STEEL TOP OF STRUCTURAL SLAB TOP OF EXISTING SLAB TYPICAL
UNFIN UNO	UNFINISHED UNLESS NOTED OTHERWISE
VAT VCT VERT VIF VT	VINYL ASBESTOS TILE VINYL COMPOSITE TILE VERTICAL VERIFY IN FIELD VINYL TILE
WB WC W/C W/O WOM WD WD BLKG WD DR WP	WHITEBOARD WATER CLOSET WITH WHEEL CHAIR WITHOUT WALK OFF MAT WOOD WOOD BLOCKING WOOD DOOR WATERPROOFING
ZCC	ZINC COATED COPPER

SHEET IDENTIFICATION LEGEND

SHE



EXTERIOR ELEVATIONS & BUILDING SECTIONS

ENLARGED PLANS & INTERIOR ELEVATIONS

WALL SECTIONS & ENLARGED DETAILS

DISCIPLINE DESIGNATORS

GENERAL

CC

PH

HM

ET TYPE DESI	GNATOF
GENERA	L

DEMOLITION

PLANS

FINISHES

REFLECTED CEILING PLANS

VERTICAL CIRCULATION

TYPICAL DETAILS

- CODE COMPLIANCE PHASING HAZARDOUS MATERIAL
- ABATEMENT CIVIL
- LANDSCAPE STRUCTURAL
- ARCHITECTURAL
- FIRE PROTECTION
- PLUMBING MECHANICAL
- ELECTRICAL

SYMBOLS LEGEND



X A10



INTERIOR ELEVATION

WALL OR BUILDING SECTION

(101)

DENOTES EXISTING DOOR TO REMAIN (U.N.O)



DENOTES EXISTING DOOR AND OR FRAME TO BE DEMOLISHED. SEE DOOR SCHEDULE.

MATERIAL LEGEND

DENOTES EXISTING AREA OF THE BUILDING TO REMAIN		CMU WALL
(NO MAJOR GENERAL CONSTRUCTION).		CMU WALL
DENOTES EXISTING WALL TO REMAIN		GWB WALL
		MASONRY VENEER
DENOTES EXISTING WALL TO BE DEMOLISHED		
DENOTES 1hr OR NON-RATED WALL		" GWB - "TYPE X" UNO (SEE SPECS)
DENOTES 2hr RATED WALL		PLYWOOD (EXPOSED TO WEATHER OR MOISTURE)
DENOTES WALL TYPE & FIRE RATING		WOOD BLOCKING (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE)
	\otimes (((CAULK w/ BACKER ROD
DENOTES EXISTING DOOR TO REMAIN (U.N.O.)		WATER PROOFING MEMBRANE, OR ROOFING MEMBRANE OR FLASHING
		RIGID INSULATION
		BATT. INSULATION
DENOTES EXISTING DOOR AND OR FRAME TO BE DEMOLISHED. SEE DOOR SCHEDULE.		PORUS FILL
		SUITABLE COMPACTED BACKFILL (SEE SPEC)
		EXISTING UNDISTURBED SOIL
SCHEDULE		NEW TOP SOIL
		CAST IN PLACE CONCRETE OR CAST STONE

GLASS SURFACE

1/1

PROJECT INFORMATION

OWNER	MR & MRS STUART FELDMAN
	TELEPHONE: 914-494-8118 (OWNER)
PROJECT LOCATION	CROSS RIVER PHARMACY 890 NY-35 CROSS RIVER, NY 10518
TYPE OF PROJECT	INTERIOR RENOVATION (CHANGE OF USE)
APPLICABLE CODES	2020 EXISTING BUILDING CODE NEW YORK STATE (ALTERATION LEVEL 2) 2020 BUILDING CODE NEW YORK STATE 2020 ENERGY CONSERVATION CODE NEW YORK STATE
CONSTRUCTION TYPE	TYPE IIIB

PROJECT DESCRIPTION:

REMOVAL OF INTERIOR NON-LOADING BEARING WALL. CONSTRUCTION OF TWO NEW COMPOUNING LABS AND COUNTER

DESIGN BUILD NOTES:

SPACE

2020

THE FOLLWING SYSTEMS SHALL BE DESIGNED & PROVIDED BY THE CONTRACTOR

ELECTRICAL SYSTEMS PLUMBING SYSTEMS

ELECTRICAL NOTES:

1. ELECTRICAL INSTALLATION WIRING & EQUIPMENT SHALL CONFORM TO THE NEW YORK STATE UNIFORM FIRE PREVENTION & BUILDING CODE (NYSUFPBC) & THE NATIONAL ELECTRICAL CODE (ANSI/NFPA NO. 70 LATEST EDITION).

2. PLUMBING INSTALLATION WORK AND EQUIPMENT TO CONFORM SHAL CONFORM TO NEW YORK STATE PLUMBING CODE

GENERAL NOTES & SPECIFICATIONS

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE LOCAL JURISDICTION ZONING CODE; THE 2020 IBC OF NEW YORK STATE & THE 2020 ECCC OF NEW YORK STATE. THE CONTRACTOR SHALL PROVIDE CONNECTION LOCATIONS FOR UTILITIES SUCH AS SANITARY SEWER, GAS LINES, ELECTRIC, WATER & STORM, SEWERS FOR

BUILDING, AS PER THE APPROVED SITE PLAN. WRITTEN DIMENSIONS OF THE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. PROTECT FROM DAMAGE ALL STRUCTURES, FINISHES, UTILITIES, EQUIPMENT, VEGETATION, ETC. SCHEDULED TO REMAIN. MAINTAIN THE STRUCTURAL INTEGRETY OF THE BUILDING & TEMPORARY SHORING AS REQUIRED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATLY BRACING & PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS & MISALIGNMENT ACCORDING TO THE APPLICABLE CODE, STANDARDS & GOOD PRACTICE. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR SUPERVISION OF THE CONSTRUCTION & NO CHANGE SHALL BE MADE TO THESE PLANS EXCEPT AS PER NEW YORK STATE LAW, CHAPTER 987.

THE CONTRACTOR SHALL SECURE & PAY FOR ALL THE REQUIRED PERMITS & INSPECTIONS OF LOCAL AUTHORITIES, & SHALL OBTAIN FINAL APPROVALS OF WORK UPON COMPLETION. REMOVE ALL DEBRIS FROM THE SITE TO A POINT OF LEGAL DISPOSAL.

ALL MEMBERS SHALL BE CLOSELY FITTED, ACCURATELY SET TO THE REQUIRED LINES & LEVELS, & RIGIDELY SECURED IN PLACE. NAILING SHAL BE IN ACCORDANCE WITH THE 2020 RESIDENTIAL CODE OF NEW YORK STATE, JOISTS SHALL BE SET WITH THE CROWN EDGE UP. ALL WOOD WHICH COMES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. 10.

JOIST HANGERS SHALL BE STAINLESS STEEL, SIZED TO FIT THE SUPPORT MEMBER & OF SUCCIFIENT STRENGTH TO DEVELOP THE FULL STRENGTH OF THE SUPPORTED MEMBER, & FURNISHED COMPLETE WITH ANY SPECIAL FASTENERS REQUIRED. ALL METAL (INCUDING FASTENERS) WHICH COMES IN CONTACT TO PRESSURE TREATED WOOD SHALL BE STAINLESS STEEL 12

CAULKING: ALL EXTERIOR JOINTS, IN PARTICULAR BETWEEN, DISIMILAR MATERIALS, SHALL BE CAULKED WITH A PERMINANT ELASTIC CAULKING COMPOUND CAPABLE OF HOLDING PAINT. 14. SEALANT SHALL BE APPLIED IN AREAS AS REQUIRED TO MAKE FOR A WEATHER & WATER TIGHT INSTALLATION. APPLY ALL SEALANT IN STRICT ACCORDANCE

WITH THE MANUFACTURER'S APPLICATION MANUAL & WRITTEN INSTRUCTIONS. USE ONLY NEW MATERIALS WITHOUT DEFECTS. LUMBER SHALL CONFORM TO PRODUCT STANDARD PS 20, & GRADED IN ACCORDANCE WITH ESTABLISHED GRADING RULES MAXIMUM MOISTURE CONTENT 17

SHALL BE 19 PERCENT. FRAMING LUMBER. PROVIDE SPF #2 OR BETTER.

BLOCKING, BRIDGING, NAILERS, & FURRING. COMMON DOUGLAS FIR, SOUTHERN PINE OR HEMLOCK, LEDGER BOARDS, WHERE REQUIRED SHALL BE SECURILY 19. SET WITH JOINTS NOTCHED TIGHTLY. 20. BLOCKING SHALL BE REQUIRED, FOR THE APPLICATION OF SHEATHING, WALLBOARD, & OTHER MATERIALS OR BUILDING ITEM, & TO PROVIDE FIRE STOPPING WHERE REQUIRED.

DOUBLE HEADER & TRIMMER JOISTS AT ALL FLOOR OPENINGS. 21.

PROVIDE SOLID BLOCKING FOR THE BEARING OF ALL BEAMS & COLUMNS. BEAMS SHALL HAVE BEARING OF NOT LESS THEN 4" ON CONCRETE OR MASONRY, & 1-1/2" WOOD OR METAL JOISTS, TRIMMERS, HEADERS & BEAMS FRAMING INTO CARRYING MEMBER AT THE SAME RELATIVE LEVELS SHALL BE CARRIED ON JOIST HANGERS.

23. SILL PLATES SHALL BE SET LEVEL & SQUARE WITH E.P.S. SILL SEAL & ANCHORED AS INDICATED.

MEANS OF EGRESS

EXIT TRAVEL DISTANCE :

2020 NYS BC 1017.2

OCCUPANCY LOADS MERCANTILE BUSINESS ACCESSORY STORAGE AREAS

EXIT WIDTH : STAIR WIDTH OTHER EGRESS COMPONENTS NYS BC TABLE 1004.1 60 GROSS SF/PERSON

200' MAX

150 GROSS SF/PERSON 300 GROSS SF/PERSON

NYS BC 1005.3.1 AND 1005.3.2 .3"/OCCUPANT .2"/OCCUPANT

PLUMBING FIXTURE COUNT

FL		
TYPE	REQ. FIXTURES	PROPOSED
	MALE / FEMALE	FIXTURES
WATER CLOSET	1	1
LAVATORIES	1	1
DRINKING FOUNTAIN	1	2
SERVICE SINK	1	2

CALC. BASED ON (MERCANTILE) PER TABLE 2902.1 NYSBC 2020

OCCUPANCY = 26 (ASSUME HALF MALE HALF FEMALE)

WC = 1 PER 500 MALE & FEMALE, LAVATORIES = 1 PER 750 MALE & FEMALE, DRINKING FOUNTIANS = 1 PER 1000, 1 SERVICE SINK





LEVEL 01 LEVEL 02





Ciorsdan Conran

From: Sent: To: Subject: Sirignano Law Office <lawoffice@sirignano.us> Monday, July 19, 2021 12:28 PM Ciorsdan Conran Petrucelli

Ciorsdan,

Request is respectfully made for a further extension of the subdivision approvals granted in this application. Thank you, Michael

Michael Fuller Sirignano

Attorney and Counselor at Law Old Post Road Professional Building 892 Route 35, PO Box 784 Cross River, NY 10518 Telephone: (914) 763-5500 Fax: (914) 763-9589

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MEMORANDUM

TO:	Chairperson Janet Andersen and Members of Lewisboro Planning Board
CC:	Ciorsdan Conran Judson Siebert, Esq. Joseph Angiello
FROM:	Jan K. Johannessen, AICP Joseph M. Cermele, P.E., CFM Town Consulting Professionals
DATE:	September 16, 2021
RE:	Wetland & Stormwater Permit Approval Karen Adler & Laurence Greenwald 12 East Ridge Road Sheet 25, Block 10803, Lot 24

PROJECT DESCRIPTION

The subject property consists of ±4.24 acres of land and is located at 12 East Ridge Road, within the R2-A Zoning District. The subject property is developed with a single-family residence, gravel driveway, septic system, well, and other ancillary improvements. The subject parcel contains wetlands and watercourses that are jurisdictional to the Town of Lewisboro and the New York State Department of Environmental Conservation (NYSDEC) and the applicant is proposing to replace an existing bridge and construct an inground pool and patio, all within the regulated buffer.

<u>SEQRA</u>

The proposed action has been preliminarily identified as a Type II Action and is therefore categorically exempt from the State Environmental Quality Review Act (SEQRA).

REQUIRED APPROVALS

1. A Wetland Activity Permit and Town Stormwater Permit is required from the Planning Board; a public hearing is required to be held on the Wetland Permit.

CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | SITE & ENVIRONMENTAL PLANNING

Chairperson Janet Andersen September 16, 2021 Page 2 of 4

- 2. An Article 24 Freshwater Wetland Permit is required from the New York State Department of Environmental Conservation (NYSDEC) for any work proposed within the NYSDEC 100-foot wetland adjacent area.
- 3. The subject property is located within the NYC East of Hudson Watershed and proposed land disturbance exceeds 5,000 s.f. Coverage under New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001) will be required.

COMMENTS

- 1. This office defers review of the plan for zoning compliance to the Building Inspector. It is recommended that the application be referred to the Building Inspector for review.
- 2. The subject property is located within the East of the Hudson Watershed and the applicant shall coordinate with the New York City Department of Environmental Protection (NYCDEP) and provide written verification regarding their extent of jurisdiction (relating to bridge work).
- 3. The subject property is located within the NYSDEC wetland check zone; the applicant shall coordinate with the NYSDEC and submit written verification regarding their extent of jurisdiction. If on or off-site wetlands are jurisdiction to the NYSDEC, the wetland boundary must be verified and validated by same. Please submit a wetland boundary map, including a fully executed copy of the NYSDEC Wetland Validation Block.
- 4. The plan shall illustrate the location of the existing well and limits of the primary septic and expansion areas. The plan shall show the well area to be cordoned off during construction.
- 5. The plan shall illustrate and identify the location, specie type and diameter at breast height (dbh) of all trees with a dbh of 8 inches or greater and located within the limits of disturbance and 25 feet beyond. Indicate trees to be removed and/or protected. If no trees are proposed to be removed, a note to this effect shall be added to the plan.
- 6. The applicant shall submit a Wetland Report, which shall contain the information required under Sections 217-5 and 6 of the Town's wetland ordinance.
- 7. The applicant shall develop a Wetland Mitigation Plan, which provides, at a minimum, mitigation at a ratio of 1:1 (for every s.f. of wetland or wetland buffer disturbance proposed, an equal or greater amount of mitigation shall be provided). Reference is made to the Town's mitigation guidelines provided in Chapter 217, Appendix B.

Chairperson Janet Andersen September 16, 2021 Page 3 of 4

- The applicant shall provide stormwater mitigation and design calculations for the great of either 1) runoff generated by the net increase in impervious surface for the 25-year, 24-hour storm event or 2) pool water drawdown of 6-inches (minimum). Provide details of the stormwater mitigation system.
- 9. The applicant shall perform deep and percolation soil testing in the vicinity of the proposed mitigation system (drywell) to be witnessed by the Town Engineer. The test locations and results shall be shown on the plan. Contact this office to schedule the testing.
- 10. Please provide stabilized access to the rear of the site where the pool and patio will be constructed. Update the limits of disturbance as needed.
- 11. Top and bottom elevations of all proposed walls at the stream crossing shall be identified on the plan. All stream crossing details shall be site/project specific, including dimensions, elevations, depths, etc. Please provide in the hydraulic model a comparison of the existing capacity vs. the proposed capacity under the stream crossing and those existing conditions will be maintained.
- 12. Future submissions shall illustrate a) the connection between the pool equipment and the infiltration practice; b) the location and connection between all existing or proposed drains; c) the size, slope, and material of all proposed drainage pipe. Provide details and include outlet protection; d) pre-treatment and emergency overflow controls and e) all applicable sizing calculations and construction details.
- 13. Regarding the submitted Notice of Intent (NOI), please correct Questions #11 and #12 to read "Yes"; please provide a response for #13.
- 14. The Site Development Plan shall be developed at a scale of 1'' = 20' to improve clarity.
- 15. The applicant shall submit an updated Existing Conditions Survey (boundary and 2-foot contours), signed and sealed by a NYS Licensed Land Surveyor.
- 16. The plans shall be revised to include a north arrow.
- 17. Provide a more legible and meaningful location map, at a scale of 1'' = 1,000'.
- 18. The plan shall note that the construction of all walls greater than four (4) feet in height shall be certified by the Design Professional prior to issuance of a Certificate of Occupancy/Completion.

In order to expedite the review of subsequent submissions, the applicant should provide annotated responses to each of the comments outlined herein.

Chairperson Janet Andersen September 16, 2021 Page 4 of 4

PLANS REVIEWED, PREPARED BY PAUL GDANSKI, PLLC, DATED MAY 29, 2021:

- Pool Plan (Sheet 1 of 1)
- Pool Plan (Sheet 1 of 2)
- Pool Plan (Sheet 2 of 2)

DOCUMENTS REVIEWED:

- Wetland and Stormwater Permit Applications
- Letter, prepared by Paul Gdanski, P.E., PLLC, dated July 26, 2021
- Stormwater Pollution Prevention Plan Report, dated July 26, 2021

JKJ/dc

https://kellardsessionsconsulti.sharepoint.com/sites/Kellard/Municipal/Lewisboro/Correspondence/2021-09-16_LWPB_Adler Greenwald - 12 East Ridge Road_Review Memo.docx

TO:	The Town of Lewisboro Planning Board
FROM:	Lewisboro Conservation Advisory Council
SUBJECT:	Adler/Greenwald Residence, 12 East Ridge Road, Waccabuc, NY 10597
DATE:	September 15, 2021

The Conservation Advisory Council (CAC) has reviewed the materials submitted by the applicant for the construction a pool and the reconstruction of a bridge. The provided drawings do not indicate where the 100 foot and 150 foot buffers are. Given the location of the bridge, it is assumed that the pool is in these buffers. The CAC would like to see updated drawings that indicate where the wetlands and buffers are located.

Under the assumption that the pool is to be located in the buffer, the CAC would like to:

- Know if there is an alternative location for the pool that is not in the buffer
- See a wetland mitigation plan that indicated one to one mitigation
- See detail of the bridge construction to ensure that materials do not end up in the wetland
- Understand what the water type is for the pool (ie. salt, chlorine or other)
- See a plan to prevent any escape or overflow from the pool going into the wetland.

Application No.: 61-2 Fee: 1235 Date: 8/13 Date: 914 Project Address: 12 East Pidge Rd. Waccabuc Sheet: 10803 Block: 024 Lot(s): 0025 Project Description (Identify the improvements proposed within the wetland/wetland buffer and the approximate amount of wetland/wetland buffer disturbance): pint and buffer and the approximate amount of wetland/wetland buffer disturbance): pint and buffer Owner's Name: Laurence Greenwald Phone: 646-209-9225 Owner's Address: 12 East Ridge Rd Waccabuc	i WP 121 1011 JARD ail.com			
Applicant's Name (if different): Phone:				
Applicant's Address: Email:				
Agent's Name (if applicable): Paul Idanski PE PLGhone:				
Agent's Address: Email:				
TO BE COMPLETED BY OWNER/APPLICANT				
What type of Wetland Permit is required? (see §217-5C and §217-5D of the Town Code)				
Administrative Planning Board				
Is the project located within the NYCDEP Watershed?				
Total area of proposed disturbance: $\Box < 5,000 \text{ s.f.} \Box 5,000 \text{ s.f.} - < 1 \text{ acre} \Box \ge 1 \text{ acre}$				
Does the proposed action require any other permits/approvals from other agencies/departments? (Planning Board, Town Board, Zoning Board of Appeals, Building Department, Town Highway, ACARC, NYSDEC, NYCDEP, WCDOH, NYSDOT, etc): Identify all other permits/approvals required:				
Note: Initially, all applications shall be submitted with a plan that illustrates the existing conditions and proposed improvements. Said plan must include a line which encircles the total area of proposed land disturbance and the approximate area of disturbance must be calculated (square feet). The Planning Board and/or Town Wetland Inspector may require additional materials, information, reports and plans, as determined necessary, to review and evaluate the proposed action. If the proposed action requires a Planning Board Wetland Permit, the application materials outlined under §217-7 of the Town Code must be submitted, unless waived by the Planning Board. The Planning Board may establish an initial escrow deposit to cover the cost of application/plan review and inspections conducted by the Town's consultants.				

For administrative wetland permits, see attached Administrative Wetland Permit Fee Schedule.

Owner Signature: Karen adler

Date: aug. 9, 2021

RECEIVED LEVRESORO AUG 1 3 2021 PLANNING BOARD	TOWN OF LEWISBORO STORMWATER PERMIT APPLICA 79 Bouton Road, South Salem, NY Phone: (914) 763-5592 Fax: (914) 875-9148	Application No.: $14 - 21 SW$ Fee: $\frac{1}{2}/55$ Date: $\frac{1}{2}/27$ ATION P Ch # 36/8 10590 eservices $1^{1}2^{1}$
Project Address:	East Ridge K	2d Waccabae
Sheet: <u>/0803</u> Block: <u></u>	4 Lot(s): 25	
Project Description (describe or publ and by Karen	verall project including all proposed	l land development activities):
Owner's Name: <u>Laure</u>	nee Greemal	None: <u>046 - 709 - 9778</u>
Owner's Address: <u>トト </u> ど	ast Ridge En	mail: adler . Karenre
Applicant's Name (if different):	Ph	none:Smarl, wh
Applicant's Address:	En	nail:
Agent's Name (if applicable):	Park Idankiph	ione:
Agent's Address:	kborah Schmien	hall: Design
т	O BE COMPLETED BY OWNER/APP	LICANT

The approval authority is? (see §189-5 of the Town Code)

D Town Engineer and Stormwater Management Officer Planning Board

Is the project located within the NYCDEP Watershed?

Yes
No

□ **≥1** acre

Will the project require coverage under the NYSDEC General Permit for Stormwater Discharges from Construction Activity?

Yes
No
Requires post-construction stormwater practice

Does the proposed action require any other permits/approvals from other agencies/departments? (Wetland Inspector, Planning Board, Town Board, Zoning Board of Appeals, Building Department, Town Highway, ACARC, NYSDEC, NYCDEP, WCDOH, NYSDOT, etc): Identify all other permits/approvals required:

Note: The applicant, owner and/or agent is responsible for reviewing and complying with Chapter 189, "Stormwater Management and Erosion and Sediment Control," of the Town Code. This application must be submitted with all applicable plans, reports and documentation specified under §189-8, "SWPPP requirements," of the Town Code; all SWPPP's shall be prepared in conformance with Chapter 189 and shall be prepared by a qualified professional, as defined therein. The provision for obtaining a Town Stormwater Permit is in addition to the requirement of obtaining coverage under the SPDES General Permit for Stormwater Discharges from Construction Activity, if applicable.

Owner Signature: Karen & adlu

Date: 8/13 202/

RECLOIVED AUG 02 2021

79 Bouton Road, South Salem, NY 10590 Email: <u>planning@lewishorogov.com</u> Tel: (914) 763-5592 Fax: (914) 875-9148

Tax Payment Affidavit Requirement

This form must accompany all applications to the Planning Board.

Under regulations adopted by the Town of Lewisboro, the Planning Board may not accept any application unless an affidavit from the Town of Lewisboro Receiver of Taxes is on file in the Planning Board office. The affidavit must show that all amounts due to the Town of Lewisboro as real estate taxes and special assessments on the total area encompassed by the application, together with all penalties and interest thereon, have been paid.

Under New York State law, the Westchester County Clerk may not accept any subdivision map for filing unless the same type of affidavit from the Town of Lewisboro Receiver of Taxes is submitted by the applicant at the time of filing.

This form must be completed by the applicant and must accompany all applications to the Planning Board. Upon receipt, the Planning Board Secretary will send the form to the Receiver of Taxes for signature and notarization. If preferred, the applicant may directly obtain the signature of the Receiver of Taxes and notarization prior to submission.

To Be Completed by Applicant (Please type or print)			
GREENWALDE Name of Applicant ADLER	12 EAST RIDGE BRIDGE? Project Name & POOL		
Property Description	Property Assessed to: LAURENCE		
Tax Block(s):/0803	KAREN ADLER & GREENWALD		
Tax Lot(s): 24	Name 700 PARK IVE APT 8C		
Tax Sheet(s): 25	Address NY NY 1002		
	City State Zip		

The undersigned, being duly sworn deposes and says that a search of the tax records in the office of the Receiver of Taxes, Town of Lewisboro, reveals that all amounts due to the Town of Lewisboro as real estate taxes and special assessments, together with all penalties and interest thereon, affecting the premises described below, have been paid.

Signature - Receiver of Taxes: Date Sworn to before me this day of JANET L. DONOHUE NOTARY PUBLIC, STATE OF NEW YORK No. 01DO6259627 Qualified in Westchester County 🗸 Commission Expires April 16, 202 Signature - Notary Public (affix stamp)

79 Bouton Road, South Salem, NY 10590 Email: planning@lewisborogov.com Tel: (914) 763-5592 Fax: (914) 875-9148

Affidavit of Ownership

State of: <u>New York</u>
County of: Westchester
Karen Adler being duly sworn, deposes and says that he/she
in the County of Westchester State of New York
and that he/she is (check one) the owner, or the
of 12 East Ridge Rd. Waccabuc, N.Y. Name of corporation, partnership, or other legal entity
which is the owner, in fee of all that certain log, piece or parcel of land situated, lying and being in the
Town of Lewisboro, New York, aforesaid and know and designated on the Tax Map in the Town of
Lewisboro as:
Block 10803 Lot 024 on Sheet 0025
Karn R ada Owner's Signature
Sworn to before me this
23 day of Joly , 2021
MARK RAUCHWERGER Notary Public – State of New York NO. 01RA4785829 Qualified in Westchester County My Commission Expires Jul 31, 2021
Notary Public – affix stamp
Revised 2-201

Revised 2-2019

633 Woodmont Lane Sloatsburg, NY 10974

Paul Gdanski, PE, PLLC

July 26, 2021

Re: Greenwald Residence 12 East Ridge Road

To Whom It May Concern:

My clients are proposing an in-ground pool and reconstruction of their bridge over the existing intermittent stream. The current bridge is dilapidated and can't handle large trucks and vehicles. This project would create the ability for the owners to gain more use of their property and allow them to get deliveries from large trucks.

Thank you for your cooperation. If you should have any questions or comments do not hesitate to contact me.

Sincerely yours,

Pal Shs.

Paul Gdanski, PE Paul Gdanski, PE, PLLC NY LIC No. 075890

F	ee	:	\$50.00	
•				

TOWN OF LEWISBORO ENVIRONMENTAL QUESTIONNAIRE

The purpose of this Questionnaire is to determine whether a Town Wetland Permit, a Town Stormwater Permit and/or coverage under the NYSDEC SPDES General Permit for Stormwater Discharges from Construction Activity is required. This form does not provide authorization to commence work.

Project Address: <u>12 EAST RIDGE RD</u>

. ..

S/B/L: 10803-024-0025

Project Description: INSTALLATION OF INGROUND SWIMMING POOL AS PER THE 2020 RESIDENTIAL CODE OF NYS

This questionnaire must be accompanied with a Site Plan or, at a minimum, a Plot Plan which clearly illustrates the location and dimensions of the proposed activity. Said plans must include a line which encircles the total area of proposed land disturbance and the approximate area of disturbance must be calculated (square feet). Failure to submit these items will delay review.

Owner's Name: GREENWALD, LAURENCE & ADLER, KAREN	_Phone:
Owner's Address: 12 EAST RIDGE RD WACCABUC, NY	_Email:
Agent's Name (if applicable): <u>Ellen Leone</u>	_Phone: <u>(845)634-0660</u>
Agent's Address: 85 Maple Ave, New City NY	_Email: <u>epicpoolny@gmail.com</u>
I hereby grant permission to the Town's professional consultan site inspection. Owner (Signature): <u>GREENWALD, LAURENCE & ADLER, KAREN</u>	ts to enter onto my property to conduct a

FOR TOWN USE - PLEASE DO NOT WRITE BELOW THIS LINE

- 1. The use of the property is? **Residential**
- 2. Is a Town Wetland Permit required? Yes If Yes, what type of Wetland Permit is required? Planning Board
- 3. Is the project located within the NYCDEP Watershed? Yes
- 4. Area of proposed disturbance: 5000 SqFt to Less than 1 acre
- 5. Is a Town Stormwater Permit required? Yes If Yes, the approval authority will be? Planning Board
- 6. Will the project require coverage under the NYSDEC General Permit for Stormwater Discharges from Construction Activity? **Yes**

 Application Fee (if required):
 Wetland Permit \$: 255 plus \$2,000 escrow

 Stormwater Permit \$: 155

Notes:_____

Signature: ____

Wetland Inspector/Consultant

Date:

633 Woodmont Lane Sloatsburg, NY 10974

Paul Gdanski, PE, PLLC

July 26, 2021

Re: Greenwald Residence 12 East Ridge Road

To Whom It May Concern:

My clients are proposing an in-ground pool and reconstruction of their bridge over the existing intermittent stream. The current bridge is dilapidated and can't handle large trucks and vehicles. This project would create the ability for the owners to gain more use of their property and allow them to get deliveries from large trucks.

Thank you for your cooperation. If you should have any questions or comments do not hesitate to contact me.

Sincerely yours,

Parl Shr.

Paul Gdanski, PE Paul Gdanski, PE, PLLC NY LIC No. 075890











ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}
PLEASE NOTE:				

STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. COMPACTION REQUIREMENTS.

ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS .

PERIMETER STONE · (SEE NOTE 4) EXCAVATION WALL -(CAN BE SLOPED OR VERTICAL)



NOTES:

- 1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.



UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS MAP NOT HAVING THE SEAL OF THE SURVEYOR OR ENGINEER SHALL NOT BE VALID. CERTIFICATIONS ARE NOT TRANSFERABLE TO

ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS. THIS DOCUMENT IN USE OF UNSEALED CHOF ONEWA TRANSACTION, OR ANY COURT,



ACCEPTABLE FILL MATERIALS: STORMTECH SC SERIES CHAMBER

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
PLEASE NOTE:	HTO DESIGNATIONS ARE FOR GRADATIONS ONLY THE STONE MU	IST ALSO BE CLEAN, CRUSHED, ANGULAR, FOR EXAMPLE, A SPECIFICATION F	OR #4 STONE WOULD STATE: "CLEAN CRUSHED ANGL	II AR NO 4 (AASHTO M43) STONE"

STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

- 1. SC-310 CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 2. SC-740 CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". 3. CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

STORMTECH SC-740 STREAM CROSSING

N.T.S.

4 (AASHTO M43) STONE".

3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH

STORMTECH SC-740 CROSS-SECTION

N.T.S.

4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.



POOL PLAN	
GKEENMALD	
SITUATE IN THE TOWN OF LEWISBORO WESTCHESTER COUNTY, NEW YO TAX LOT 42.2-3-35)RK
5/29/21 REVISE PER COMMENTS	5H 2 OF 2
PAUL GDANSKI P.E., PLLC	י 12€AST

PAUL GDANSKI P.E., PLLC	# 누니니는 #	12EAST
655 WOULMUNT LANE SLOATSBURG, NEW YORK 10974	DATE	3/2/21
(917) 418-0999 EMAIL: PGSKI@EARTHLINK.NET	SCALE	"=30'

STORMWATER POLLUTION PREVENTION PLAN (PREPARED UNDER GP-0-20-001)

Prepared for **12 EAST RIDGE ROAD LEWISBORO, NY** 42.2-3-35 TOWN OF LEWISBORO WESTCHESTER COUNTY, NEW YORK



Paul Gdanski, P.E., PLLC 633 Woodmont Lane Sloatsburg, NY 10974

Paul Gdanski

Paul Gdanski, P.E. NYSPE#075890

DATE: July 26, 2021

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- A Map Set Plot Plan & Soil Erosion & Sediment Control Plan
- **B SWPPP Inspection Forms** SWPPP Inspection Report
- C Other SWPPP Forms Construction Sequence, SWPPP Plan Changes, Spill Response Form
- D SPDES General Permit GP-0-20-001
- E Infiltration Maintenance & Installation
- F Soil Erosion Measure Cut Sheets
- G Soil Survey
- H Percolation Test Results
- I SWPPP Certification Forms

1.0 PERMIT OVERVIEW AND REQUIREMENTS

1.1 Permit Overview

This Stormwater Pollution Prevention Plan (SWPPP) is prepared to inform the landowner and construction personnel of the measures to be implemented for controlling runoff and pollutants from the site during and after construction activities. The objective of this plan is to comply with the New York Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activities, Permit No. GP-0-20-001 requirements, and Chapter 103 of the Town of Bedford Zoning Law. Any material conflicts between this plan and the site plans, specification or instructions, must be brought to the attention of the design professional. The project may have other permits and it is the responsibility of the owner and contractor to know and understand all permits.

The operator must maintain the following info on site in a secure location that is accessible during normal working hours to an individual performing a compliance inspection:

- SWPPP
- General Permit (included in the SWPPP)
- All inspection reports.

Technical standards are detailed in the "New York State Standards and Specifications for Sediment and Erosion and Sediment Control (November 2016)", as well as illustrated on the Erosion and Sediment Control Plan Map included in **Appendix A**. The design of post-construction stormwater control practices follows the guidance provided by "New York State Stormwater Management Design Manual", most recent revision.

2.0 SWPPP REVIEW, UPDATE

2.1 SWPPP Review

Applicable Federal, State, and local regulatory agencies that have jurisdiction may elect to review this SWPPP and notify the permittee in writing that the SWPPP does not meet the requirements of their regulations. If the SWPPP needs to be revised, the Permittee and the site contractor will make the required modifications within seven days of such notification and submit written certification to the notifying agency that the changes have been implemented. A copy of the SWPPP will be kept available on site for review by regulatory agencies, engineers, and subcontractors.

The Town of Lewisboro is an MS4 Community and this document is subject to their review.

2.2 SWPPP Update

The permittee identified in this SWPPP shall amend the SWPPP when there is a change in one or more of the following project components which has an effect on the potential for discharge of pollutants from stormwater runoff associated with construction activities:

- Design
- Construction
- Operation
- Maintenance

The SWPPP shall also be updated or amended under the following conditions:

- If measures identified in the SWPPP become ineffective in eliminating or minimizing pollutants from sources identified, or in achieving the general objectives of controlling stormwater pollution from permitted construction activity.
- To identify a new subcontractor that will implement any part of the SWPPP.

3.0 SITE ASSESSMENT, EVALUATION AND PLANNING

3.1 Project Location

The subject site is a 4.397 acre site, located at 12 East Ridge Road, on the south side of East Ridge Road, approximately 600 feet east of the intersection with Mead Street, in the Town of Lewisboro, Westchester County, New York.

3.2 Pre-Development Conditions

The existing site is moderately sloped with some steep areas running downhill from east to west . An existing dwelling and garage are

currently present. Some of the property drains to the west eventually ending up in an unnamed stream on an adjacent property and some to existing wetlands located on the property.

3.3 Project Type

The Town has required that the application comply with Chapter 189 of the Town of Lewisboro Town Law. A Stormwater Pollution Prevention Plan (SWPPP) must be provided for any land disturbance activity that is greater than 1 acre. As this site proposes some additions to the existing single family dwelling, pool construction, cabana and the land disturbance is less than 5 acres, water quality provisions are not required. The SWPPP has been designed per NYSDEC general permit 0-20-001 standards.

This project is a proposal to construct a new driveway bridge, pool and cabana. The designer is required to provide water quantity volume mitigation for all impervious surfaces.

Any area of disturbance that will remain inactive for a period of 7 consecutive days will be mulched or temporarily seeded. of disturbance have been shown on the plans and will be maintained by the installation of silt fence.

3.4 Project Scope

As stated above, the project involves the construction of a bridge, pool and patio. The total area to be disturbed is less than 6,600 square feet. The disturbed area is comprised of grasslands. The total increase in impervious area will be 1,812 (0.0416 acres). The drainage area will be collected and routed to the proposed drainage facility to be located in the rear of the site.

3.5 Historic Preservation Determination

Per the EAF Mapper tool, the project site is located on or adjacent to an area designated as sensitive for archaeological site or NYSHPO archaeological site inventory. Therefore, plans have been forwarded to NYSHPO for a determination.

3.6 Receiving Waters

The closest receiving water body which is not located on property for the project site is a small tributary to the Lake Waccabuc (NYC Watershed), which is to the north of the property. The tributary flows north and eventually reaches Lake Waccabuc.

Additionally, there are local/federal wetlands within the project limits, and within close proximity.

3.7 Soils

The USDA/NRCS soil survey for Westchester County shows the soils in the Project Site are mainly Paxton fine sandy loam (PnB). The Paxton soils slope 3 to 8 percent and have a slow infiltration rate. These soils are of the Hydrologic Soil Group C. Groundwater testing will be conducted at the site at the location of the proposed infiltration facility. The soil map may be found in **Appendix G**.

4.0 EROSION AND SEDIMENT CONTROL

4.1 Erosion & Sediment Control Practices

If any elements of the design are not in conformance with the technical standard, they must be identified with reasons for the deviation included. Information must be provided which demonstrates that the deviation is equivalent to the technical standard. All erosion control methods must meet the NYS Standards and Specifications for Erosion and Sediment Control dated November 2016 (see **Appendix F**)

Temporary Structural Practices will include:

- Dust Control
- Silt Fence
- Stabilized Construction Entrance
- Curb inlet protection
- At grade inlet protect

Temporary Stabilization Practices (including vegetative practices) may include:

• Seed and mulch bare soil areas within 7 days of disturbance.

Permanent Stabilization Practices (including vegetative practices) will include:

• Seed and mulch all disturbed areas.

Refer to Construction Drawings attached in **Appendix A** for detailed information on each practice.

4.2 Erosion and Sediment Control Drawings

Erosion and Sediment Control drawings are included in **Appendix A**. Erosion and Sediment Control drawings must include but not be limited to the following:

- Total site area
- All improvements
- Areas of disturbance
- Areas that will not be disturbed
- Existing vegetation
- Existing and final slopes
- Location of stormwater discharges
- Specific locations, sizes, and lengths of each erosion and sediment control practice
- Details of erosion and sediment control practices shall include dimensions, material specifications, installation details, operation and maintenance requirements.
- Location of material, waste, equipment storage areas and washout areas. (Located in an area in close proximity to the entrance to the site)

4.3 Construction Phasing Plan and Sequence of Operations

The Construction Phasing Plan is as follows:

- Temporary structural erosion controls will be installed prior to earthwork as per the attached plans.
- Areas to be undisturbed for more than 7 days will be temporarily stabilized by seeding.
- Disturbed areas will be reseeded and mulched immediately after final contours are re-established and no more than 7 days after the completion of construction at that site.
- Temporary erosion control devices will not be removed until the area served is stabilized by the growth of vegetation and the area is certified as being stabilized by the Erosion Control Superintendent.

Construction Sequence:

1.	Construct stabilized construction entrance	1 Day
2.	Installation of silt fence	1 Week
3.	Construction erosion control devices	1 Day
4.	Clear site within limit of disturbance, strip and	
	stock topsoil and grade site	2 Weeks
5.	Excavate for pool & remove bridge	1 Week

6.	Construct infiltration system	1 Month
7.	Construct pool, bridge and infrastructure	6 Months
8.	Rough grade area and stabilize	1 Week
9.	Landscape	1 Week
10.	Remove all soil erosion control devices when all	
	disturbed areas have been stabilized	1 Day

4.4 Erosion and Sediment Control Practice Inspection Schedule

- Silt fence maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.
- Stabilized construction entrance entrance shall be maintained in a condition which shall prevent tracking. This may require periodic top dressing with additional aggregate. All sediment tracked onto or spilled on public rights of way shall be removed immediately. When necessary, wheels must be cleaned to remove sediment prior to entrance on public rights of way. When washing is required, it shall be done in an area stabilized with aggregate.
- Start of Construction, Installation of soil erosion measures, site clearing, rough grading, final grading, close of construction season, final landscaping & succesful establishment of landscaping in public areas.

4.5 Contractor Sequence Form

The operator shall prepare a "summary of construction status" using the Construction Sequence Form (included in **Appendix C**) once every month. Significant deviations to the sequence and reasons for those deviations (i.e. weather, subcontractor availability, etc.), shall be noted by the contractor. The schedule shall be used to record the dates for initiation of construction, implementation of erosion control measures, stabilization, etc. A copy of this table will be maintained at the construction site and updated.

5.0 POST CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

5.1 Stormwater Management Controls

If any elements of the design are not in conformance with the technical standard, they must be identified with reasons for the deviation included. Information must be provided which demonstrates that the deviation is equivalent to the technical standard.

5.2 Post Construction Stormwater Management Drawings

Post construction stormwater management drawings are included in **Appendix A**. Post construction stormwater management drawings must include the following:

- Specific locations, sizes, and lengths of each post construction stormwater management practice.
- Details of post construction stormwater management practices shall include dimensions, material specifications, installation details, operation and maintenance requirements.

6.0 CONSTRUCTION WASTE

Waste Materials: All waste materials generated during construction will be disposed at a suitable landfill, or transfer station.

Hazardous Waste: The project will not be a generator of hazardous waste and it is not anticipated that any hazardous waste will be generated during construction. If there are any materials generated, a licensed hazardous waste carrier will be contracted to dispose the hazardous material at a suitable disposal site. If hazardous materials are discovered during construction, the work will be stopped until the issue is resolved. Waste: Portable sanitary facilities will be made available to construction personnel and will be serviced regularly.

7.0 OFFSITE VEHICLE TRACKING

Excavation equipment involved with the construction will remain on the project site and will not regularly egress or ingress the site. Any trucks used to bring in materials or remove materials via municipal paved roads will do so over a stabilized construction entrance. If any off-site vehicle tracking occurs, the contractor will be directed to initiate, street sweeping program in the immediate vicinity of the site.

8.0 EROSION AND SEDIMENT CONTROL INSPECTION (During Construction)

These are the inspection items that will be used to maintain erosion and sediment controls. A qualified SWPPP Inspector shall perform the inspections at a minimum of once a week. The forms shall be made part of the official SWPPP documents. A digital copy of the inspection shall be emailed to Town of Lewisboro as well as keeping the paper copy in the SWPPP at the site. The practices listed herein shall be implemented in accordance with the attached maintenance schedule.

A maintenance inspection report will be made after each inspection. The report forms to be completed by the inspector are attached in **Appendix B**. Reports should be compiled and maintained on-site. All inspection materials are included in **Appendix B** of the onsite 3-ring binder.

- It is recommended that a rain gage be installed at the site.
- A qualified professional shall conduct an assessment of the site prior to the commencement of construction and certify in an inspection report that the appropriate erosion and sediment controls described in the SWPPP and required by GP-0-20-001 have been adequately installed to ensure overall preparedness of the site for commencement of construction.
- Structural erosion controls and non-stabilized areas shall be inspected at least once every seven (7) days. The Inspection Form must be used for every inspection performed.
- The day-to-day erosion control activities on the site will be monitored by the construction manager. The qualified inspector (as defined by the NYSDEC SPDES regulations) and his crews will make *at least one inspection of erosion control devices every seven (7) days*.
- All measures will be maintained in good working order. If repair is necessary, it will be initiated within 24 hours of report.
- Silt fence will be inspected for depth of sediment, ripped fabric, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in ground.
- Seeded and planted areas will be inspected for bare spots, washouts, and healthy growth. If necessary, spot reseeding or sodding will be implemented.
- Trained Contractor will be responsible for the implementation of the SWPPP. This person will be onsite when any soil disturbing activities are being conducted. This trained contractor cannot conduct the regular SWPPP compliance inspections. This trained contractor must have received 4 hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity. After receiving the initial training, the trained contractor shall receive 4 hours of training every 3 years. It can also mean an employee from the contracting (construction) company, that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received 4 hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

9.0 TEMPORARY STABILIZATION FOR FROZEN CONDITIONS

The following temporary stabilization measures **MUST** be performed when construction is occurring during winter/frozen ground conditions. The following requirements do not supersede any other requirements of this SWPPP as they apply to non-frozen ground conditions. Refer to Page 2.38 of the Blue Book.

- Perimeter erosion control **MUST** still be installed prior to earthwork disturbance as per this SWPPP.
- Any areas that cannot be seeded to turf by October 1 or earlier will receive a temporary seeding. The temporary seeding will consist of winter rye seeded at the rate of 120 pounds per acre (2.5 pounds per 1,000 square feet) or stabilized as per the temporary stabilization for winter construction/frozen conditions. This will last 2 to 6 months. Seeding shall be done in the spring. If stabilization is required at other times mulching may be used.
- Any area of disturbance that will remain inactive for a period of 7 consecutive days **MUST** be mulched. This includes any previously disturbed areas that are covered with snow.
- Mulch **MUST** consist of loose straw applied at the rate of 2 to 3 bales (90 to 100 pounds) per thousand square feet.
- Mulch **MUST** be applied uniformly over the area of bare soil or bare soil that is covered with snow. For the latter condition, mulch **MUST** be applied on top of snow.
- Using a tracked vehicle, mulch **MUST** be crimped into the bare soil/snow. The tracked vehicle **MUST** be driven across the mulched areas in at least two directions to maximize crimping of mulch into the soil/snow.
- If mulch gets blown off an area to a significant degree, the site inspector WILL require that an area be re-mulched in accordance with Items 2 through 5 above, and this area WILL be included on the inspection checklist for the next inspection.
- If a particular area repeatedly experiences loss of mulch due to wind, then the inspector **WILL** require that an alternative method be used to secure the mulch in place. Such alternatives may include the use of netting, tackifier or other methods deemed appropriate by the inspector.
- During periods when snow is melting and/or surface soils are thawing during daytime hours, mulched areas **MUST** be re-tracked (crimped) as per Item 5 above at least once every seven days, more frequently if directed by the inspector. Additional mulch may be required to obtain complete coverage of an area. Biodegradable erosion control matting may be required on steeper slopes.
- Additional stabilization measures for non-frozen ground conditions described in this SWPPP **WILL** be implemented at the time deemed appropriate by the inspector. During the winter season, if a site has been stabilized and soil

disturbing activities have been suspended for the winter, weekly inspections can be suspended. However, monthly inspections must still be conducted. All normal weekly inspections must resume when soil disturbing activities resume.

• Permanent seeding shall be done according to the Standards and Specifications for Permanent Critical Area Plantings contained within Appendix H. The seeding rates are incorporated in the appendix as well. The optimum time to seed is during the spring. In general it can be done anytime as long as it is properly mulched and there is adequate moisture.

10.0 STORMWATER MAINTENANCE PROCEDURES

Temporary erosion and sediment controls and practices will need to be maintained frequently. It is the responsibility of the operator to inspect and maintain the temporary controls so that they are working efficiently. The operator needs to pay close attention to SWPPP Inspection Reports that will advise of needed maintenance. Captured sediment will have to be removed periodically from each practice in order for the control to function properly. It is likely that if temporary controls are not maintained properly, controls will fail creating a mass discharge of sedimentation to the water body previously protected. Periodically remove sediment from silt fences, inlet protections and construction entrances. Replace top-soil, mulch and seed where seeding has been disturbed.

Post-construction maintenance for this project will consist of annual inspections of permanent stormwater management facilities and steep slopes. The following procedures must be performed twice annually on the appropriate structural stormwater management practice. These maintenance procedures are essential to assure continual performance of the stormwater management practices on your site.

Drywells

- Sediment removal with a vacuum truck should be done when there is >2" of sediment.
- Must clean out floatables and sediment >2" on a regular basis.

11.0 SPILL PREVENTION PRACTICES

Good Housekeeping and Material Management Practices

The following good housekeeping and material management practices will be followed on site during the construction project to reduce the risk of spills or other accidental exposure of materials and substances to stormwater runoff.

- Materials will be brought on site in the minimum quantities required.
- All materials stored on site will be stored in a neat, orderly manner in their appropriate containers, and if possible, under a roof or other enclosure.
- Products will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer.
- Whenever possible, all of a product will be used up before disposal.
- Manufacturer's recommendations for proper use and disposal will be followed.
- The construction manager or his designee will inspect regularly to ensure proper use and disposal of materials on site.
- The contractor shall prohibit washing of tools, equipment, and machinery in or within 100 feet of any watercourse or wetland.
- All above grade storage tanks are to be protected from vehicle damage by temporary barriers.

Inventory for Pollution Prevention Plan

The materials and substances listed below are expected to be on-site during construction.

- Petroleum for fueling vehicles will be stored in above ground storage tanks. Tanks will either be steel with an enclosure capable of holding 110% of the storage tank volume or from a Con-Store, concrete encased type typically employed by NYSDOT. Hydraulic oil and other oils will be stored in their original containers. Concrete and asphalt will be stored in the original delivery trucks.
- Fertilizer may be stored on site in its original container for a short period of time prior to seeding. Original containers will be safely piled on pallets or similar devices to protect from moisture.
- Paints and other similar materials will be stored in their original containers and all empty containers will be disposed of in accordance with label directions.
- Portable sanitary facilities, which contain chemical disinfectants (deodorants) will be located on-site, with the disinfectants held in the tank of the toilet.

Hazardous Products

These practices are used to reduce the risks associated with hazardous materials.

- Products will be kept in original containers unless they are not resealable.
- Original labels and material safety data sheets will be retained; they contain important product information.
- If surplus product must be disposed of, manufacturers' or local and State recommended methods for proper disposal will be followed.

Spill Prevention

The following product specific practices will be followed on site.

Petroleum Products:

- Construction personnel should be made aware that emergency telephone numbers are located in this SWPPP.
- The contractor shall immediately contact NYSDEC in the event of a spill, and shall take all appropriate steps to contain the spill, including construction of a dike around the spill and placing absorbent material over this spill.
- The contractor shall instruct personnel that spillage of fuels, oils, and similar chemicals must be avoided and will have arranged with a qualified spill remediation company to serve the site.
- Fuels, oils, and chemicals will be stored in appropriate and tightly capped containers. Containers shall not be disposed of on the project site.
- Fuels, oils, chemicals, material, equipment, and sanitary facilities will be stored/located away from trees and at least 100 feet from streams, wells, wet areas, and other environmentally sensitive sites.
- Dispose of chemical containers and surplus chemicals off the project site in accordance with label directions.
- Use tight connections and hoses with appropriate nozzles in all operations involving fuels, lubricating materials or chemicals.
- Use funnels when pouring fuels, lubricating materials or chemicals.
- Refueling and cleaning of construction equipment will take place in parking areas to provide rapid response to emergency situations.
- All on-site vehicles will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage. Any vehicle leaking fuel or hydraulic fuel will be immediately scheduled for repairs and use will be discontinued until repairs are made.

Fertilizers:

- Fertilizer will be stored in its original containers on pallets with water resistant coverings.
- Proper delivery scheduling will minimize storage time.

• Any damaged containers will be repaired immediately upon discovery and any released fertilizer recovered to the fullest extent practicable.

Paints:

- All containers will be tightly sealed and stored when not required for use.
- Excess paint will not be discharged to the storm water system or wastewater system but will be properly disposed of according to manufacturers' instructions or State and local regulations.

Concrete Trucks:

• Concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water only at designated locations on site.

Asphalt Trucks:

• Asphalt trucks shall not discharge surplus asphalt on the site.

Spill Control Practices

In addition to the good housekeeping and material management practices discussed in the previous sections of this plan, the following practices will be followed for spill prevention and cleanup. The construction manager responsible for the day-to-day site operations will be the spill prevention and cleanup coordinator. He will designate at least three other site personnel who will receive spill prevention and cleanup training. These individuals will each become responsible for a particular phase of prevention and cleanup. The names of responsible spill personnel will be posted in the material storage area and in the onsite construction office or trailer.

- Manufacturers' recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies. Any spill in excess or suspected to be in excess of two gallons will be reported to the NYSDEC Regional Spill Response Unit. Notification to the NYSDEC (1-800-457-7362) must be completed within two hours of the discovery of the spill.
- Materials and equipment necessary for spill cleanup will be kept in the material storage area onsite. Equipment and materials will include but not be limited to absorbent pads, brooms, dust pans, mops, rags, gloves, goggles, activated clay, sand, sawdust, and plastic and metal trash containers specifically for this purpose.
- All spills will be cleaned up immediately after discovery.
- The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with spilled substance.
- Spills of toxic or hazardous material will be reported to the appropriate State or local government agency, regardless of the size.

Appendix A

Map Set





ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
А	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}
'LEASE NOTE:				

STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. COMPACTION REQUIREMENTS.

ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS .

- SC-740 END CAP



(CAN BE SLOPED OR VERTICAL)

UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS MAP NOT HAVING THE SEAL OF THE SURVEYOR OR ENGINEER SHALL NOT BE VALID. CERTIFICATIONS ARE NOT TRANSFERABLE TO

ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS. THIS DOCUMENT IN USE OF UNSEALED CI-OF ONEWA TRANSACTION, OR ANY COURT, OR OFFICE IS FILING WITH



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

12" (300 mm) MIN -

- CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. 4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.



ACCEPTABLE FILL MATERIALS: STORMTECH SC SERIES CHAMBER

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
PLEASE NOTE:	HTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MI	IST ALSO BE CLEAN, CRUSHED, ANGULAR, FOR EXAMPLE, A SPECIFICATION F	OR #4 STONE WOULD STATE: "CLEAN CRUSHED ANGL	II AR NO 4 (AASHTO M43) STONE"

STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

- 1. SC-310 CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16a (POLYPROPYLENE), "STANDARD SPECIFICATION FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 2. SC-740 CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". 3. CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- 5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

STORMTECH SC-740 STREAM CROSSING

N.T.S.

4 (AASHTO M43) STONE".

3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR 4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". 3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH

STORMTECH SC-740 CROSS-SECTION

N.T.S.

4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.



POOL PLAN	
FOR	
GREENWALD)
SITUATE IN THE TOWN OF LEWISBORO WESTCHESTER COUNTY, NEW TAX LOT 42.2-3-35	YORK
1 5/29/21 REVISE PER COMMENTS	
PAUL GDANSKI P.E., PLLC	# 1 [£

PAUL GDANSKI P.E., PLLC	F1LE #	12EAST
633 WOUDMUNT LANE LOATSBURG, NEW YORK 10974	DATE	3/2/21
(917) 418-0999 MAIL: PGSKI@EARTHLINK.NET	SCALE	"=30'

Appendix B

SWPPP Inspection Forms

Exhibit A

Maintenance Inspection Checklists

Stormwater Maintenance and Management Inspection Checklist

Location: 12 East Ridge Rd.

Date:

Time:

Inspector:

Maintenance Item	Satisfactory / Unsatisfactory	Comments
A. Drywell (Annual,	After Major Storms)	
1. Structure is sound		
2. Condition of concrete		
3. Settling at grate / leaves or silt at grate		
4. Floating or floatable debris		
5. Silt accumulation at sump >2" (needs to be cleaned)		
6. Condition of piping in / out		

Comments:

Actions to be Taken:

STORMWATER CONSTRUCTION SITE INSPECTION REPORT

General In	FORMATION
Project Name:	
Location:	
Date of Inspection:	Start/End Time:
Inspector's Name:	
Inspector's Title:	
Inspector's Contact Information:	
Describe present phase of construction:	
Type of Inspection:□ Regular□ Pre-storm event□ During stor	m event \Box Post-storm event
Weather In	NFORMATION
Has there been a storm event since the last inspection? If yes, provide: Storm Start Date & Time: Storm Duration (hrs):	□Yes □No Approximate Amount of Precipitation (in):
Weather at time of this inspection? Clear Cloudy Rain Sleet Fog Other: Temper	□ Snowing □ High Winds rature:
Have any discharges occurred since the last inspection? If yes, describe:	□Yes □No
Are there any discharges at the time of inspection?	^z es □No

Certification Statement

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

OVERALL SITE ISSUES

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1. All inactive slopes and disturbed areas have been stabilized.	□Yes □No	□Yes □No	
2. Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	□Yes □No	□Yes □No	
3. Are all sanitary waste recepticles placed in secondary containment and free of leaks?	□Yes □No	□Yes □No	
4. Are perimeter controls and sedi- ment barriers adequately installed (keyed into substrate) and main- tained?	□Yes □No	□Yes □No	
5. Are discharge points and receiv- ing waters free of any sediment deposits?	□Yes □No	□Yes □No	
6. Are storm drain inlets properly protected?	□Yes □No	□Yes □No	
7. Is the construction exit preventing sediment from being tracked into the street?	□Yes □No	□Yes □No	
8. Is trash/litter from work areas col- lected and placed in covered dump- sters?	□Yes □No	□Yes □No	
9. Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	
10. Are vehicle and equipment fuel- ing, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No	□Yes □No	
11. Are materials that are poten- tial stormwater contaminants stored inside or under cover?	□Yes □No	□Yes □No	
12. Are non-stormwater discharges (e.g., wash water, dewatering) prop- erly controlled?	□Yes □No	□Yes □No	
13. (Other)	□Yes □No	□Yes □No	

Appendix C

Other SWPPP Forms

NOTICE OF INTENT



New York State Department of Environmental Conservation

Division of Water

625 Broadway, 4th Floor



Albany, New York 12233-3505

Stormwater Discharges Associated with <u>Construction Activity</u> Under State Pollutant Discharge Elimination System (SPDES) General Permit # GP-0-20-001 All sections must be completed unless otherwise noted. Failure to complete all items may result in this form being returned to you, thereby delaying your coverage under this General Permit. Applicants must read and understand the conditions of the permit and prepare a Stormwater Pollution Prevention Plan prior to submitting this NOI. Applicants are responsible for identifying and obtaining other DEC permits that may be required.

-IMPORTANT-

RETURN THIS FORM TO THE ADDRESS ABOVE

OWNER/OPERATOR MUST SIGN FORM

Owner/Operator (Company Name/Private Owner Name/Municipality Name) Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Owner/Operator Contact Person Last Name (NOT CONSULTANT)
Owner/Operator Contact Person First Name
Owner/Operator Mailing Address
City
State Zip
Phone (Owner/Operator) Fax (Owner/Operator) - -
Email (Owner/Operator)
FED TAX ID (not required for individuals)

Projec	t Site	e Info	orma	tion								
Project/Site Name												
						<u> </u>	1 1					
Street Address (NOT P.O. BOX)	<u> </u>			- 1 1			1 1					1
Side of Street												
○ North ○ South ○ East ○ West												
City/Town/Village (THAT ISSUES BUILDING	G PERM	IIT)										
State Zip Count	v								DEC	Reai	on	
											.011	
					_							
Name of Nearest Cross Street												
Distance to Nearest Cross Street (Feet)			Proj	ect	In R	elat:	ion	to (Cross	s Str	eet
					rtn	\bigcirc S	outh	0	Eas	τ	west	5
Project Site Information Project Site Information Project/Site Name Street Address (NOT P.O. BOX) Side of Street O North O South O East O West City/Town/Village (THAT ISSUES BUILDING PERMIT) State Zip County DEC Region Name of Nearest Cross Street Distance to Nearest Cross Street (Feet) Distance to Nearest Cross Street (Feet) Tax Map Numbers Section-Block-Parcel												
Section-Block-Parcel					1							

1. Provide the Geographic Coordinates for the project site. To do this, go to the NYSDEC Stormwater Interactive Map on the DEC website at:

https://gisservices.dec.ny.gov/gis/stormwater/

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located the centroid of your project site, go to the bottom right hand corner of the map for the X, Y coordinates. Enter the coordinates into the boxes below. For problems with the interactive map use the help function.



ΥС	loor	dina	ates	(N	ortł	ning)
	40	650					
Ex.	42	. 652					

2. What is the nature of this construction project?	
O New Construction	
\bigcirc Redevelopment with increase in impervious area	
\bigcirc Redevelopment with no increase in impervious area	

3. Select SELECT	the predominant land use for both p ONLY ONE CHOICE FOR EACH	re and post development conditions.
E	Pre-Development xisting Land Use	Post-Development Future Land Use
\bigcirc Fore	ST	○ SINGLE FAMILY HOME <u>Number</u> of Lots
\bigcirc past	URE/OPEN LAND	○ SINGLE FAMILY SUBDIVISION
\bigcirc CULT	IVATED LAND	○ TOWN HOME RESIDENTIAL
\bigcirc SING	LE FAMILY HOME	○ MULTIFAMILY RESIDENTIAL
\bigcirc SING	LE FAMILY SUBDIVISION	○ INSTITUTIONAL/SCHOOL
\bigcirc TOWN	HOME RESIDENTIAL	○ INDUSTRIAL
\bigcirc MULT	IFAMILY RESIDENTIAL	○ COMMERCIAL
\bigcirc INST	ITUTIONAL/SCHOOL	○ MUNICIPAL
\bigcirc INDU	STRIAL	○ ROAD/HIGHWAY
\bigcirc COMM	ERCIAL	○ RECREATIONAL/SPORTS FIELD
\bigcirc ROAD	/HIGHWAY	○ BIKE PATH/TRAIL
\bigcirc RECR	EATIONAL/SPORTS FIELD	○ LINEAR UTILITY (water, sewer, gas, etc.)
\bigcirc bike	PATH/TRAIL	○ PARKING LOT
\bigcirc LINE	AR UTILITY	○ CLEARING/GRADING ONLY
\bigcirc park	ING LOT	\bigcirc DEMOLITION, NO REDEVELOPMENT
\bigcirc OTHE	R	\bigcirc WELL DRILLING ACTIVITY *(Oil, Gas, etc.)

*Note: for gas well drilling, non-high volume hydraulic fractured wells only

4. In accordance with the larger common plan enter the total project site area; the to existing impervious area to be disturbed activities); and the future impervious ar disturbed area. (Round to the nearest ten	of development or sale, tal area to be disturbed; (for redevelopment ea constructed within the th of an acre.)
Total Site Total Area To Exi Area Be Disturbed Area Image: State St	sting Impervious Future Impervious a To Be Disturbed Disturbed Area
5. Do you plan to disturb more than 5 acres	of soil at any one time? \bigcirc Yes \bigcirc No
6. Indicate the percentage of each Hydrologi	c Soil Group(HSG) at the site.
A B B B B B C C C C C C C C C C C C C	C D 8
7. Is this a phased project?	\bigcirc Yes \bigcirc No
8. Enter the planned start and end dates of the disturbance activities.	End Date / /

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9.	Identify discharge	the nea e.	rest	surfa	ace	wat	erbc	ody(ies) t	0 1	vhio	ch	cor	nst:	ruc	ti	on	si	te	ru	nof	f١	wil	1		
Name																						-	1				_
9a.	Type (of water	body	ident	tifi	.ed :	in Q	ues	tio	n 9'	?																
0	Wetland	/ State	Juri	sdict	cion	. On	Sit	e (i	Ans	wer	9b))															
0	Wetland	/ State	Juri	sdict	cion	. Off	E Si	te																			
0	Wetland	/ Federa	al Ju	risdi	lcti	on (On S	ite	(A1	nswe	er	9b)															
0	Wetland	/ Federa	al Ju	risdi	lcti	on (Dff	Site	e																		
0	Stream /	Creek (On Si	te																							
0	Stream /	Creek (off s	lite																							
0	River Or	. Site																									
0	River Of	f Site								9	b.	F	Iow	Wa	is t	the	W	etl	.an	d i	der	nti	fie	ed?			
0	Lake On	Site										O I	Reg	rula	ato	ry	Ma	р									
0	Lake Off	Site										O I	Del	ine	eat	ed	by	Co	ons	ult	an	t					
0	Other Ty	pe On Si	ite									O I	Del	ine	eat	ed	by	Aı	cmy	Cc	orp	s c	of 3	Eng	ine	eer	s
0	Other Ty	pe Off :	Site									\circ	Oth	ler	(i	der	ıti	fy)							_	
																										_	
10.	Has th	ne surfa	ce wa	aterbo	ody(ies) in	qu	est	ion	9	bee	en	ide	ent	ifi	ed	as	s a		C) Ye	28	0	No		
	303(d) segmen	tin	Appei	ndix	ςΕά	of G	P-0	-20	-00	1?																
11.	Is th	is proje	ct lo	ocated	d in	n one	e of	th	e W	ate:	rsł	neds	зi	der	nti:	fie	d	in				\					
	Append	dix C of	GP-()-20-0	001?																	Ŷ¥e	28	0	NO		
10	Ta th	n nroto-	+ 1		4 m	076	of	+hc		tor	ah a	4															
⊥∠.	is the areas	associa	ted w	vith A	AA a	and i	AA-S	cl	wa ass	ifi	ed	eu									C) Ye	s	0	No		
	waters If no	₃? , skip q	uesti	ion 1	3.																						

13.	Does this construction activity disturb land with no existing impervious cover and where the Soil Slope Phase is identified as an E or F on the USDA Soil Survey? If Yes, what is the acreage to be disturbed?	\bigcirc Yes	O No
	•		

14. Will the project disturb soils within a State regulated wetland or the protected 100 foot adjacent O Yes O No area?

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15.	Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)?											
16.	What is the name of the municipality/entity that owns the separate storm sewer system?											
17.	Does any runoff from the site enter a sewer classified O Yes O No O Unknown as a Combined Sewer?											
18.	Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? \bigcirc Yes \bigcirc No											
19.	Is this property owned by a state authority, state agency, federal government or local government?											
20.	Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup O Yes O No Agreement, etc.)											
21.	Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS O Yes O No Standards and Specifications for Erosion and Sediment Control (aka Blue Book)?											
22.	Does this construction activity require the development of a SWPPP that includes the post-construction stormwater management practice component (i.e. Runoff Reduction, Water Quality and O Yes O No Quantity Control practices/techniques)? If No, skip questions 23 and 27-39.											
23.	Has the post-construction stormwater management practice component of the SWPPP been developed in conformance with the current NYS O Yes O No Stormwater Management Design Manual?											

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24	. The Stormwater Pollution Prevention Plan (SWPPP) was prepared by:
	O Professional Engineer (P.E.)
	\bigcirc Soil and Water Conservation District (SWCD)
	Registered Landscape Architect (R.L.A)
	Certified Professional in Erosion and Sediment Control (CPESC)
	Owner/Operator
	Other
SWP	P Preparer
Con	act Name (Last, Space, First)
Mai	ing Address
Cit	
Sta	
Pho	
Ema	1

SWPPP Preparer Certification

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First Name	MI
Last Name	
Signature	
Paul Jdanski	Date

25.	•	Ha pr	as a ract	c ic	ons es	str be	uc en	tio pi	on rej	se par	que ed?	eno ,	ce :	scl	heo	du	ıle	fo	r	the	p.	lanı	ne	d	ma	ana	age	eme	nt	;			С) Ye	s	С) Nc	>
26.		Se	elec nplo:	t ye	all d c	on	f th	the e r	e e pro	ero oje	sic ct	on s:	and ite	d :	seo	di	.mer	ıt	CC	ontr	ol	pra	ac	ti	ice	es	tl	nat	۵ ۲	vil	.1	be	:	-				
			-	.e	шр		ar	Y	ы	LIL		u.	Lai	-								<u>v</u>	eç	Je	LC	ac	τv	e	M	ea	S	IT 6	22	5				
			⊖ Ch	ec	k i	Dan	ıs														С	Br	us	sh	M	at	ti	ng										
			⊖ Cc	ns	str	uct	ic	n	Rc	ad	Sta	ab	ili	za	ti	0	n				С	Du	ne	•	St	ab	i1	iza	it:	ioı	n							
	O Dust Control O O Earth Dike O											\bigcirc Grassed Waterway																										
												○ Mulching																										
	○ Level Spreader C										O Protecting Vegetation																											
			⊖ Р €	ri	me	ter	: I	lik	e/	'Swa	ale										С	Re	cr	ea	at:	io	n	Are	ea	II	np	rov	ze	emen	t			
			⊖ Pi	pe	e S	lor	e	Dr	ai	n											С	Se	eð	liı	ng													
			() PC	rt	ab	le	Se	di	me	ent	Та	nk	:								С) So	dd	liı	ng													
	\bigcirc Rock Dam (O Straw/Hay Bale Dike																									
	Sediment BasinSediment Traps													O Streambank Protection																								
														○ Temporary Swale																								
	○ Silt Fence												\bigcirc Topsoiling																									
			0 st	ał	i l	ize	ed	Co	ns	stru	ict:	ic	n E	Int	ra	in	ce				\bigcirc Vegetating Waterways																	
			O St	.01	m :	Dra	ir.	I I	nl	let	Pro	ot	ect	ic	n						Permanent Structural																	
			0 St	. r a	w/	нау	, E	aı	e		ce To E				1	_		_			\bigcirc Debris Basin																	
				ente E	01	ary	, E	100		55 V	val.	er F	way				STU	g			С	Di	ve	er	si	on	L											
				m		ary	, c	-LO	10		111	L	тле	1.5	i T C	211					С	Gr	aċ	le	S	ta	bi	liz	a	tid	on	st	:r	uct	ur	e		
			⊖ 1e			ary ÷+•		wa													С	La	nd	10	Gra	ad	in	g										
			○ 10 ○ ₩2	+		1 U y		uL	La												С	Li	ne	ed	W	at	er	way	,	(R	ocl	k)						
			U Wa		÷Г.	Dai	. 5														С	Pa	ve	ed	C	ha	nn	el	()	Coi	nci	ret	:e	e)				
Biotechnical												С	Pa	ve	ed	F	lu	me																				
												\bigcirc raved finne \bigcirc Retaining Wall																										
○ Brush Matting												С	Ri	pr	a	p	sl	op	еF	Pro	ote	ect	tic	on	L													
												\bigcirc Rock Outlet Protection																										
	Other													С	st	re	aı	mb	an	k	Pro	ote	ect	ti	on													
Other												-											1	-		_	-	-	1									

Post-construction Stormwater Management Practice (SMP) Requirements

<u>Important</u>: Completion of Questions 27-39 is not required if response to Question 22 is No.

- 27. Identify all site planning practices that were used to prepare the final site plan/layout for the project.
 - \bigcirc Preservation of Undisturbed Areas
 - Preservation of Buffers
 - O Reduction of Clearing and Grading
 - O Locating Development in Less Sensitive Areas
 - Roadway Reduction
 - \bigcirc Sidewalk Reduction
 - Driveway Reduction
 - Cul-de-sac Reduction
 - Building Footprint Reduction
 - Parking Reduction
- 27a. Indicate which of the following soil restoration criteria was used to address the requirements in Section 5.1.6("Soil Restoration") of the Design Manual (2010 version).
 - All disturbed areas will be restored in accordance with the Soil Restoration requirements in Table 5.3 of the Design Manual (see page 5-22).
 - O Compacted areas were considered as impervious cover when calculating the WQv Required, and the compacted areas were assigned a post-construction Hydrologic Soil Group (HSG) designation that is one level less permeable than existing conditions for the hydrology analysis.
- 28. Provide the total Water Quality Volume (WQv) required for this project (based on final site plan/layout).

Tota	L WQv	Re	qui	lre	đ
					acre-feet

29. Identify the RR techniques (Area Reduction), RR techniques(Volume Reduction) and Standard SMPs with RRv Capacity in Table 1 (See Page 9) that were used to reduce the Total WQv Required(#28).

Also, provide in Table 1 the total impervious area that contributes runoff to each technique/practice selected. For the Area Reduction Techniques, provide the total contributing area (includes pervious area) and, if applicable, the total impervious area that contributes runoff to the technique/practice.

Note: Redevelopment projects shall use Tables 1 and 2 to identify the SMPs used to treat and/or reduce the WQv required. If runoff reduction techniques will not be used to reduce the required WQv, skip to question 33a after identifying the SMPs.

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Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

	Total Contributing		Total C	on	ntributing			
RR Techniques (Area Reduction)	Area (acres)	Im	perviou	s i	Area	a(acres)		
O Conservation of Natural Areas (RR-1)		and/or						
O Sheetflow to Riparian Buffers/Filters Strips (RR-2)		and/or						
○ Tree Planting/Tree Pit (RR-3)	•	and/or		_				
\bigcirc Disconnection of Rooftop Runoff (RR-4)	••	and/or						
RR Techniques (Volume Reduction)								
\bigcirc Vegetated Swale (RR-5) \cdots								
\bigcirc Rain Garden (RR-6)		• • • • • •		_				
\bigcirc Stormwater Planter (RR-7)		• • • • • •						
\bigcirc Rain Barrel/Cistern (RR-8)		•••••						
○ Porous Pavement (RR-9)	• • • • • • • • • • • • • • • • • • • •	• • • • • •						
\bigcirc Green Roof (RR-10)				-				
Standard SMPs with RRv Capacity								
\bigcirc Infiltration Trench (I-1) ••••••••••••••••••••••••••••••••••••		• • • • • •						
○ Infiltration Basin (I-2) ·····								
○ Dry Well (I-3)		••••						
○ Underground Infiltration System (I-4)								
○ Bioretention (F-5)				-				
○ Dry Swale (0-1)				-				
Standard SMPs								
\bigcirc Micropool Extended Detention (P-1)		•••••						
○ Wet Pond (P-2)		••••						
○ Wet Extended Detention (P-3) ·····	• • • • • • • • • • • • • • • • • • • •							
○ Multiple Pond System (P-4) ·····		••••						
\bigcirc Pocket Pond (P-5) · · · · · · · · · · · · · · · · · · ·		• • • • •						
\bigcirc Surface Sand Filter (F-1) $\cdots \cdots \cdots$	•••••	• • • • • •						
○ Underground Sand Filter (F-2) ······								
\bigcirc Perimeter Sand Filter (F-3)								
○ Organic Filter (F-4)	•••••	••••		-				
\bigcirc Shallow Wetland (W-1)								
\bigcirc Extended Detention Wetland (W-2)								
○ Pond/Wetland System (W-3)				_				
○ Pocket Wetland (W-4)		••••						
\bigcirc Wet Swale (O-2)	•••••••••••••••			-				

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	Table 2 - Alternative SMPs (DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)
Alte	ernative SMP Total Contributing Impervious Area(acres)
0:	Hydrodynamic · Net Vault · Media Filter ·
O Provi propr	Other
Man	
<u>Note</u> :	Redevelopment projects which do not use RR techniques, shall use questions 28, 29, 33 and 33a to provide SMPs used, total WQv required and total WQv provided for the project.
30.	Indicate the Total RRv provided by the RR techniques (Area/Volume Reduction) and Standard SMPs with RRv capacity identified in question 29
	Total RRv provided
31.	Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28). O Yes O No If Yes, go to question 36. If No, go to question 32.
32.	Provide the Minimum RRv required based on HSG. [Minimum RRv Required = (P)(0.95)(Ai)/12, Ai=(S)(Aic)]
	Minimum RRv Required
32a.	<pre>Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)? O Yes O No</pre> If Yes, go to question 33. Note: Use the space provided in question #39 to summarize the specific site limitations and justification for not reducing 100% of WQv required (#28). A detailed evaluation of the specific site limitations and justification for not reducing 100% of the WQv required (#28) must also be included in the SWPPP. If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing

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33. Identify the Standard SMPs in Table 1 and, if applicable, the Alternative SMPs in Table 2 that were used to treat the remaining total WQv(=Total WQv Required in 28 - Total RRv Provided in 30).

Also, provide in Table 1 and 2 the total <u>impervious</u> area that contributes runoff to each practice selected.

Note: Use Tables 1 and 2 to identify the SMPs used on Redevelopment projects.

33a. Indicate the Total WQv provided (i.e. WQv treated) by the SMPs identified in question #33 and Standard SMPs with RRv Capacity identified in question 29. WQv Provided acre-feet Note: For the standard SMPs with RRv capacity, the WQv provided by each practice = the WQv calculated using the contributing drainage area to the practice - RRv provided by the practice. (See Table 3.5 in Design Manual) Provide the sum of the Total RRv provided (#30) and 34. the WQv provided (#33a). Is the sum of the RRv provided (#30) and the WQv provided 35. (#33a) greater than or equal to the total WQv required (#28)? 🔾 Yes 🔷 No If Yes, go to question 36. If No, sizing criteria has not been met, so NOI can not be processed. SWPPP preparer must modify design to meet sizing criteria. Provide the total Channel Protection Storage Volume (CPv) required and 36. provided or select waiver (36a), if applicable. CPv Required CPv Provided acre-feet acre-feet 36a. The need to provide channel protection has been waived because: O Site discharges directly to tidal waters or a fifth order or larger stream. \bigcirc Reduction of the total CPv is achieved on site through runoff reduction techniques or infiltration systems.

37. Provide the Overbank Flood (Qp) and Extreme Flood (Qf) control criteria or select waiver (37a), if applicable.

Total Overbank Flood Control Criteria (Qp)

Pre-Development	Post-development
Total Extreme Flood Control	Criteria (Qf)
Pre-Development	Post-development
CFS	CFS

37a.	The need to meet the Qp and Qf criteria has been waived because:
	\bigcirc Site discharges directly to tidal waters
	or a fifth order or larger stream.
	\bigcirc Downstream analysis reveals that the Qp and Qf
	controls are not required

38. Has a long term Operation and Maintenance Plan for the post-construction stormwater management practice(s) been
O Yes
No developed?

If Yes, Identify the entity responsible for the long term Operation and Maintenance

39. Use this space to summarize the specific site limitations and justification for not reducing 100% of WQv required(#28). (See question 32a) This space can also be used for other pertinent project information.

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40.	Identify other DEC permits, existing and new, that are required for this project/facility.
	○ Air Pollution Control
	○ Coastal Erosion
	\bigcirc Hazardous Waste
	○ Long Island Wells
	\bigcirc Mined Land Reclamation
	\bigcirc Solid Waste
	\bigcirc Navigable Waters Protection / Article 15
	○ Water Quality Certificate
	○ Dam Safety
	○ Water Supply
	○ Freshwater Wetlands/Article 24
	\bigcirc Tidal Wetlands
	\bigcirc Wild, Scenic and Recreational Rivers
	\bigcirc Stream Bed or Bank Protection / Article 15
	\bigcirc Endangered or Threatened Species(Incidental Take Permit)
	\bigcirc Individual SPDES
	○ SPDES Multi-Sector GP
	○ Other
	○ None

41.	Does this project require a US Army Corps of Engineers Wetland Permit? If Yes, Indicate Size of Impact.	○ Yes	0 No
42.	Is this project subject to the requirements of a regulated, traditional land use control MS4? (If No, skip question 43)	🔿 Үез	() No
43.	Has the "MS4 SWPPP Acceptance" form been signed by the principal executive officer or ranking elected official and submitted along with this NOI?	⊖ Yes	() No
44.	If this NOI is being submitted for the purpose of continuing or trans coverage under a general permit for stormwater runoff from constructi activities, please indicate the former SPDES number assigned.	ferring on	
Owner/Operator Certification

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Print First Name	MI
Print Last Name	
Owner/Operator Signature	
	Date

NS Department of Environmental ConservationNS Department of Environmental Conservation Division of Water Broadway, th Floor Albany, New ork 1			
MS Stormwater Pollution Prevention Plan (SWPPP) Acceptance Form for Construction Activities Seekin Authori ation Under SPDES General Permit			
*(NOTE: Attach Completed Form to Notice Of Intent and Submit to Address Above)			
I. Project Owner/Operator Information			
1. Owner/Operator Name:			
2. Contact Person:			
3. Street Address:			
4. City/State/Zip:			
II. Project Site Information			
5. Project/Site Name:			
6. Street Address:			
7. City/State/Zip:			
III. Stormwater Pollution Prevention Plan (SWPPP) Review and Acceptance Information			
8. SWPPP Reviewed by:			
9. Title/Position:			
10. Date Final SWPPP Reviewed and Accepted:			
IV. Re ulated MS Information			
11. Name of MS4:			
12. MS4 SPDES Permit Identification Number: NYR20A			
13. Contact Person:			
14. Street Address:			
15. City/State/Zip:			
16. Telephone Number:			

MS SWPPP Acceptance Form - continued

V. Certification Statement MS Official (principal executive officer or rankin elected official) or Duly Authori ed Representative

I hereby certify that the final Stormwater Pollution Prevention Plan (SWPPP) for the construction project identified in question 5 has been reviewed and meets the substantive requirements in the SPDES General Permit For Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s). Note: The MS4, through the acceptance of the SWPPP, assumes no responsibility for the accuracy and adequacy of the design included in the SWPPP. In addition, review and acceptance of the SWPPP by the MS4 does not relieve the owner/operator or their SWPPP preparer of responsibility or liability for errors or omissions in the plan.

Printed Name:

Title/Position:

Signature:

Date:

VI. Additional Information

(NYS DEC - MS4 SWPPP Acceptance Form - January 2015)



Department of Environmental Conservation

Owner/Operator Certification Form

SPDES General Permit For Stormwater Dischar es From Construction Activity (GP 0 20 001)

Project/Site Name:

eNOI Submission Number:

eNOI Submitted by: Owner/Operator SWPPP Preparer Other

Certification Statement Owner/Operator

I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further understand that coverage under the general permit will be identified in the acknowledgment that I will receive as a result of submitting this NOI and can be as long as sixty (60) business days as provided for in the general permit. I also understand that, by submitting this NOI, I am acknowledging that the SWPPP has been developed and will be implemented as the first element of construction, and agreeing to comply with all the terms and conditions of the general permit for which this NOI is being submitted.

Owner/Operator First Name

M.I. Last Name

Signature

Date



Department of Environmental Conservation

SWPPP Preparer Certification Form

SPDES General Permit for Stormwater Discharges From Construction Activity (GP-0-20-001)

Project Site Information Project/Site Name

Owner/Operator Information Owner/Operator (Company Name/Private Owner/Municipality Name)

Certification Statement SWPPP Preparer

I hereby certify that the Stormwater Pollution Prevention Plan (SWPPP) for this project has been prepared in accordance with the terms and conditions of the GP-0-20-001. Furthermore, I understand that certifying false, incorrect or inaccurate information is a violation of this permit and the laws of the State of New York and could subject me to criminal, civil and/or administrative proceedings.

First name

MI Last Name

Paul Gdanski

Signature

Date

CONTRACTOR SEQUENCE FORM

APPROVED CONSTRUCTION SEQUENCE

DATE:_____

	TIME TO	
<u>PHASE</u>	COMPLETION	<u>STATUS</u>
1. INSTALL STAB. CONSTRUCTION	1 DAY	
ENTRANCE		
2. INSTALLATION OF SILT FENCE	1 WEEK	
3. CONSTRUCT EROSION CONTROL DEVICES	1 DAY	
4 CLEAR SITE WITHIN LIMITS OF	2 WEEKS	
DISTURBANCE STRIP AND STOCK	2 WEEKS	
TOPSOIL AND GRADE SITE		
EXCAVATE FOR POOL & BRIDGE	1 WEEK	
CONSTRUCT INFILTRATION	1 MONTH	
SYSTEM		
7. CONSTRUCT ADDITIONS, UTILITIES, POOL	6 MONTHS	
8. ROUGH GRADE AREA & STABILIZE	1 WEEK	
9. LANDSCAPE	1 WEEK	
10. REMOVE ALL SOIL EROSION CONTROL	1 DAY	
DEVICES WHEN ALL DISTURBED AREAS		
HAVE BEEN STABILIZED		

LIST AND DESCRIBE ANY CHANGES TO APPROVED SEQUENCE PLAN SHOWN ABOVE:

Spill or Incident Report Form

Site:	Primary Contractor:
Date:	Incident Date

Complete for any type of petroleum product or hazardous materials / waste spill or incident

Keep a copy of this report with the SWPPP Log.

Person Reporting Spill or Incident		
Name	Address	
Organization		
Title		
Telephone		
. Fax	Signature	

Type of Spill:			
Common Name of Spi	lled Substance		
Estimated Quantity Spilled			
Estimated	Concentration		
	Date of Spill		
Time Spill Started :	AM / PM	Time Spill Ended	AM / PM

SPILL TO LAND	SPILL TO WATER BODY
Name of site:	Name of water body:
Street address:	Location of discharge
City	Description of area from which spilled material
County:	may reach:

Spill or Incident Report Form

If no spill describe incident:

Actions Taken:

To contain spill or impact of incident:

To clean up spill or recover from incident:

To remove cleanup material:

To Prevent reoccurrence:

Person responsible for managing spill response:		
Name	Signature	
Phone	Fax	

Spill Notification List

Agency	Phone
Check to insure that 911 service is available in work area	911
Local Emergency Contacts	
Fire Department:	
Emergency Medical:	
Community Evacuation:	
Police Department	
 Local Public Works Department: Contact for storm drain and other utilities 	
Hospital: Local Emergency Treatment	
Spills to water	
NYSDEC Regional Spill Response Unit	1-800-457-7362
Ecology	
Emergency Spill Response Contractor	

Spill Reporting Information

Where is the spill?	
What spilled?	
How much spilled?	
How concentrated is the spilled material?	
Who spilled the material?	
Is anyone cleaning up the spill?	
Are there resource damages (e.g. dead fish or oiled birds)?	
Who is reporting the spill?	
Your contact information	

Appendix D

SPDES General Permit



Department of Environmental Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES

From

CONSTRUCTION ACTIVITY

Permit No. GP- 0-20-001

Issued Pursuant to Article 17, Titles 7, 8 and Article 70

of the Environmental Conservation Law

Effective Date: January 29, 2020

Expiration Date: January 28, 2025

John J. Ferguson

Chief Permit Administrator

Authorized Signature

1-23-20

Date

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

PREFACE

Pursuant to Section 402 of the Clean Water Act ("CWA"), stormwater *discharges* from certain *construction activities* are unlawful unless they are authorized by a *National Pollutant Discharge Elimination System ("NPDES")* permit or by a state permit program. New York administers the approved State Pollutant Discharge Elimination System (SPDES) program with permits issued in accordance with the New York State Environmental Conservation Law (ECL) Article 17, Titles 7, 8 and Article 70.

An owner or operator of a construction activity that is eligible for coverage under this permit must obtain coverage prior to the *commencement of construction activity*. Activities that fit the definition of "*construction activity*", as defined under 40 CFR 122.26(b)(14)(x), (15)(i), and (15)(ii), constitute construction of a *point source* and therefore, pursuant to ECL section 17-0505 and 17-0701, the *owner or operator* must have coverage under a SPDES permit prior to *commencing construction activity*. The *owner or operator* cannot wait until there is an actual *discharge* from the *construction site* to obtain permit coverage.

Note: The italici ed words/phrases within this permit are defined in Appendix A.

NEW OR STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION SPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES

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Part 1. PERMIT COVERAGE AND LIMITATIONS

A. Permit Application

This permit authorizes stormwater *discharges* to *surface waters of the State* from the following *construction activities* identified within 40 CFR Parts 122.26(b)(14)(x), 122.26(b)(15)(i) and 122.26(b)(15)(ii), provided all of the eligibility provisions of this permit are met:

- 1. Construction activities involving soil disturbances of one (1) or more acres; including disturbances of less than one acre that are part of a *larger common plan of development or sale* that will ultimately disturb one or more acres of land; excluding *routine maintenance activity* that is performed to maintain the original line and grade, hydraulic capacity or original purpose of a facility;
- 2. Construction activities involving soil disturbances of less than one (1) acre where the Department has determined that a *SPDES* permit is required for stormwater *discharges* based on the potential for contribution to a violation of a *water quality standard* or for significant contribution of *pollutants* to *surface waters of the State.*
- Construction activities located in the watershed(s) identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

B. Effluent Limitations Applicable to Dischar es from Construction Activities

Discharges authorized by this permit must achieve, at a minimum, the effluent limitations in Part I.B.1. (a) – (f) of this permit. These limitations represent the degree of effluent reduction attainable by the application of best practicable technology currently available.

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

- a. **Erosion and Sediment Controls.** Design, install and maintain effective erosion and sediment controls to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such controls must be designed, installed and maintained to:
 - (i) *Minimize* soil erosion through application of runoff control and soil stabilization control measure to *minimize pollutant discharges*;
 - (ii) Control stormwater *discharges*, including both peak flowrates and total stormwater volume, to *minimize* channel and *streambank* erosion and scour in the immediate vicinity of the *discharge* points;
 - (iii) *Minimize* the amount of soil exposed during *construction activity*;
 - (iv) *Minimize* the disturbance of *steep slopes*;
 - (v) Minimize sediment discharges from the site;
 - (vi) Provide and maintain *natural buffers* around surface waters, direct stormwater to vegetated areas and maximize stormwater infiltration to reduce *pollutant discharges*, unless *infeasible*;
 - (vii) *Minimize* soil compaction. Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted;
 - (viii) Unless *infeasible*, preserve a sufficient amount of topsoil to complete soil restoration and establish a uniform, dense vegetative cover; and
 - (ix) *Minimize* dust. On areas of exposed soil, *minimize* dust through the appropriate application of water or other dust suppression techniques to control the generation of pollutants that could be discharged from the site.
- b. Soil Stabili ation. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within fourteen (14) days from the date the current soil disturbance activity ceased. For construction sites that *directly discharge* to one of the 303(d) segments

listed in Appendix E or is located in one of the watersheds listed in Appendix C, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. See Appendix A for definition of *Temporarily Ceased*.

- c. **Dewaterin** . *Discharges* from *dewatering* activities, including *discharges* from *dewatering* of trenches and excavations, must be managed by appropriate control measures.
- d. **Pollution Prevention Measures**. Design, install, implement, and maintain effective pollution prevention measures to *minimize* the *discharge* of *pollutants* and prevent a violation of the *water quality standards*. At a minimum, such measures must be designed, installed, implemented and maintained to:
 - (i) Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. This applies to washing operations that use clean water only. Soaps, detergents and solvents cannot be used;
 - (ii) Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, hazardous and toxic waste, and other materials present on the site to precipitation and to stormwater. Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a *discharge* of *pollutants*, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use); and
 - (iii) Prevent the *discharge* of *pollutants* from spills and leaks and implement chemical spill and leak prevention and response procedures.
- e. Prohibited Discharges. The following discharges are prohibited:
 - (i) Wastewater from washout of concrete;
 - (ii) Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;

- (iii) Fuels, oils, or other *pollutants* used in vehicle and equipment operation and maintenance;
- (iv) Soaps or solvents used in vehicle and equipment washing; and
- (v) Toxic or hazardous substances from a spill or other release.
- f. Surface Outlets. When discharging from basins and impoundments, the outlets shall be designed, constructed and maintained in such a manner that sediment does not leave the basin or impoundment and that erosion at or below the outlet does not occur.

C. Post construction Stormwater Mana ement Practice Re uirements

- The owner or operator of a construction activity that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must select, design, install, and maintain the practices to meet the *performance criteria* in the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015, using sound engineering judgment. Where post-construction stormwater management practices ("SMPs") are not designed in conformance with the *performance criteria* in the Design Manual, the owner or operator must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
- 2. The owner or operator of a construction activity that requires post-construction stormwater management practices pursuant to Part III.C. of this permit must design the practices to meet the applicable *sizing criteria* in Part I.C.2.a., b., c. or d. of this permit.

a. Si in Criteria for New Development

- (i) Runoff Reduction Volume ("RRv"): Reduce the total Water Quality Volume ("WQv") by application of RR techniques and standard SMPs with RRv capacity. The total WQv shall be calculated in accordance with the criteria in Section 4.2 of the Design Manual.
- (ii) Minimum RRv and Treatment of Remaining Total WQv: Construction activities that cannot meet the criteria in Part I.C.2.a.(i) of this permit due to site limitations shall direct runoff from all newly constructed impervious areas to a RR technique or standard SMP with RRv capacity unless infeasible. The specific site limitations that prevent the reduction of 100% of the WQv shall be documented in the SWPPP.

For each impervious area that is not directed to a RR technique or standard SMP with RRv capacity, the SWPPP must include documentation which demonstrates that all options were considered and for each option explains why it is considered infeasible.

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

- (iii) Channel Protection Volume ("Cpv"): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
 - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
 - (2) The site discharges directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria ("Qp"): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
 - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.
- (v) Extreme Flood Control Criteria ("Qf"): Requires storage to attenuate the post-development 100-year, 24-hour peak discharge rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
 - (1) the site discharges directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.

b. *Sizing Criteria* for *New Development* in Enhanced Phosphorus Removal Watershed

Runoff Reduction Volume (RRv): Reduce the total Water Quality
 Volume (WQv) by application of RR techniques and standard SMPs
 with RRv capacity. The total WQv is the runoff volume from the 1-year,
 24 hour design storm over the post-developed watershed and shall be

calculated in accordance with the criteria in Section 10.3 of the Design Manual.

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

In no case shall the runoff reduction achieved from the newly constructed *impervious areas* be less than the Minimum RRv as calculated usin the criteria in Section 10. of the Desi n Manual. The remaining portion of the total WQv that cannot be reduced shall be treated by application of standard SMPs.

- (iii) Channel Protection Volume (Cpv): Provide 24 hour extended detention of the post-developed 1-year, 24-hour storm event; remaining after runoff reduction. The Cpv requirement does not apply when:
 - (1) Reduction of the entire Cpv is achieved by application of runoff reduction techniques or infiltration systems, or
 - (2) The site *discharges* directly to tidal waters, or fifth order or larger streams.
- (iv) Overbank Flood Control Criteria (Qp): Requires storage to attenuate the post-development 10-year, 24-hour peak discharge rate (Qp) to predevelopment rates. The Qp requirement does not apply when:
 - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.
- (v) Extreme Flood Control Criteria (Qf): Requires storage to attenuate the post-development 100-year, 24-hour peak *discharge* rate (Qf) to predevelopment rates. The Qf requirement does not apply when:
 - (1) the site *discharges* directly to tidal waters or fifth order or larger streams, or
 - (2) A downstream analysis reveals that *overbank* control is not required.

c. Si in Criteria for Redevelopment Activity

- (i) Water Quality Volume (WQv): The WQv treatment objective for redevelopment activity shall be addressed by one of the following options. Redevelopment activities located in an Enhanced Phosphorus Removal Watershed (see Part III.B.3. and Appendix C of this permit) shall calculate the WQv in accordance with Section 10.3 of the Design Manual. All other redevelopment activities shall calculate the WQv in accordance with Section 4.2 of the Design Manual.
 - (1) Reduce the existing *impervious cover* by a minimum of 25% of the total disturbed, *impervious area*. The Soil Restoration criteria in Section 5.1.6 of the Design Manual must be applied to all newly created pervious areas, or
 - (2) Capture and treat a minimum of 25% of the WQv from the disturbed, impervious area by the application of standard SMPs; or reduce 25% of the WQv from the disturbed, impervious area by the application of RR techniques or standard SMPs with RRv capacity., or
 - (3) Capture and treat a minimum of 75% of the WQv from the disturbed, *impervious area* as well as any additional runoff from tributary areas by application of the alternative practices discussed in Sections 9.3 and 9.4 of the Design Manual., or
 - (4) Application of a combination of 1, 2 and 3 above that provide a weighted average of at least two of the above methods. Application of this method shall be in accordance with the criteria in Section 9.2.1(B) (IV) of the Design Manual.

If there is an existing post-construction stormwater management practice located on the site that captures and treats runoff from the *impervious area* that is being disturbed, the WQv treatment option selected must, at a minimum, provide treatment equal to the treatment that was being provided by the existing practice(s) if that treatment is greater than the treatment required by options 1 - 4 above.

- (ii) Channel Protection Volume (Cpv): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.
- (iii) Overbank Flood Control Criteria (Qp): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site.
- (iv) Extreme Flood Control Criteria (Qf): Not required if there are no changes to hydrology that increase the *discharge* rate from the project site

d. Si in Criteria for Combination of Redevelopment Activity and New Development

Construction projects that include both New Development and Redevelopment Activity shall provide post-construction stormwater management controls that meet the sizing criteria calculated as an aggregate of the Sizing Criteria in Part I.C.2.a. or b. of this permit for the New Development portion of the project and Part I.C.2.c of this permit for Redevelopment Activity portion of the project.

D. Maintainin Water uality

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

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

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

If there is evidence indicating that despite compliance with the terms and conditions of this general permit it is demonstrated that the stormwater *discharges* authorized by this permit are causing or contributing to a violation of *water quality standards*, or if the Department determines that a modification of the permit is necessary to prevent a violation of *water quality standards*, the authorized *discharges* will no longer be eligible for coverage under this permit. The Department may require the *owner or operator* to obtain an individual SPDES permit to continue discharging.

E. Eli ibility Under This General Permit

- 1. This permit may authorize all *discharges* of stormwater from *construction activity* to *surface waters of the State* and *groundwaters* except for ineligible *discharges* identified under subparagraph F. of this Part.
- 2. Except for non-stormwater *discharges* explicitly listed in the next paragraph, this permit only authorizes stormwater *discharges*; including stormwater runoff, snowmelt runoff, and surface runoff and drainage, from *construction activities*.
- 3. Notwithstanding paragraphs E.1 and E.2 above, the following non-stormwater discharges are authorized by this permit: those listed in 6 NYCRR 750-1.2(a)(29)(vi), with the following exception: "Discharges from firefighting activities are authorized only when the firefighting activities are emergencies/unplanned"; waters to which other components have not been added that are used to control dust in accordance with the SWPPP; and uncontaminated *discharges* from *construction site* de-watering operations. All non-stormwater discharges must be identified in the SWPPP. Under all circumstances, the *owner or operator* must still comply with *water quality standards* in Part I.D of this permit.
- 4. The *owner or operator* must maintain permit eligibility to *discharge* under this permit. Any *discharges* that are not compliant with the eligibility conditions of this permit are not authorized by the permit and the *owner or operator* must either apply for a separate permit to cover those ineligible *discharges* or take steps necessary to make the *discharge* eligible for coverage.

F. Activities Which Are Ineli ible for Covera e Under This General Permit

All of the following are **not** authorized by this permit:

- 1. *Discharges* after *construction activities* have been completed and the site has undergone *final stabilization*;
- Discharges that are mixed with sources of non-stormwater other than those expressly authorized under subsection E.3. of this Part and identified in the SWPPP required by this permit;
- 3. *Discharges* that are required to obtain an individual SPDES permit or another SPDES general permit pursuant to Part VII.K. of this permit;
- 4. Construction activities or discharges from construction activities that may adversely affect an endangered or threatened species unless the owner or

operator has obtained a permit issued pursuant to 6 NYCRR Part 182 for the project or the Department has issued a letter of non-jurisdiction for the project. All documentation necessary to demonstrate eligibility shall be maintained on site in accordance with Part II.D.2 of this permit;

- 5. *Discharges* which either cause or contribute to a violation of *water quality standards* adopted pursuant to the *ECL* and its accompanying regulations;
- 6. Construction activities for residential, commercial and institutional projects:
 - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
 - b. Which are undertaken on land with no existing impervious cover, and
 - c. Which disturb one (1) or more acres of land designated on the current United States Department of Agriculture ("USDA") Soil Survey as Soil Slope Phase "D", (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.
- 7. *Construction activities* for linear transportation projects and linear utility projects:
 - a. Where the *discharges* from the *construction activities* are tributary to waters of the state classified as AA or AA-s; and
 - b. Which are undertaken on land with no existing impervious cover, and

c. Which disturb two (2) or more acres of land designated on the current USDA Soil Survey as Soil Slope Phase "D" (provided the map unit name is inclusive of slopes greater than 25%), or Soil Slope Phase "E" or "F" (regardless of the map unit name), or a combination of the three designations.

- 8. Construction activities that have the potential to affect an *historic property*, unless there is documentation that such impacts have been resolved. The following documentation necessary to demonstrate eligibility with this requirement shall be maintained on site in accordance with Part II.D.2 of this permit and made available to the Department in accordance with Part VII.F of this permit:
 - a. Documentation that the *construction activity* is not within an archeologically sensitive area indicated on the sensitivity map, and that the *construction activity* is not located on or immediately adjacent to a property listed or determined to be eligible for listing on the National or State Registers of Historic Places, and that there is no new permanent building on the *construction site* within the following distances from a building, structure, or object that is more than 50 years old, or if there is such a new permanent building on the *construction site* within those parameters that NYS Office of Parks, Recreation and Historic Preservation (OPRHP), a Historic Preservation Commission of a Certified Local Government, or a qualified preservation professional has determined that the building, structure, or object more than 50 years old is not historically/archeologically significant.
 - 1-5 acres of disturbance 20 feet
 - 5-20 acres of disturbance 50 feet
 - 20+ acres of disturbance 100 feet, or
 - b. DEC consultation form sent to OPRHP, and copied to the NYS DEC Agency Historic Preservation Officer (APO), and
 - the State Environmental Quality Review (SEQR) Environmental Assessment Form (EAF) with a negative declaration or the Findings Statement, with documentation of OPRHP's agreement with the resolution; or
 - (ii) documentation from OPRHP that the *construction activity* will result in No Impact; or
 - (iii) documentation from OPRHP providing a determination of No Adverse Impact; or
 - (iv) a Letter of Resolution signed by the owner/operator, OPRHP and the DEC APO which allows for this *construction activity* to be eligible for coverage under the general permit in terms of the State Historic Preservation Act (SHPA); or
 - c. Documentation of satisfactory compliance with Section 106 of the National Historic Preservation Act for a coterminous project area:

- (i) No Affect
- (ii) No Adverse Affect
- (iii) Executed Memorandum of Agreement, or
- d. Documentation that:
- SHPA Section 14.09 has been completed by NYS DEC or another state agency.
- 9. *Discharges* from *construction activities* that are subject to an existing SPDES individual or general permit where a SPDES permit for *construction activity* has been terminated or denied; or where the *owner or operator* has failed to renew an expired individual permit.

Part II. PERMIT COVERAGE

A. How to Obtain Covera e

- An owner or operator of a construction activity that is not subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then submit a completed Notice of Intent (NOI) to the Department to be authorized to discharge under this permit.
- 2. An owner or operator of a construction activity that is subject to the requirements of a regulated, traditional land use control MS4 must first prepare a SWPPP in accordance with all applicable requirements of this permit and then have the SWPPP reviewed and accepted by the regulated, traditional land use control MS4 prior to submitting the NOI to the Department. The owner or operator shall have the "MS4 SWPPP Acceptance" form signed in accordance with Part VII.H., and then submit that form along with a completed NOI to the Department.
- 3. The requirement for an *owner or operator* to have its SWPPP reviewed and accepted by the *regulated, traditional land use control MS4* prior to submitting the NOI to the Department does not apply to an *owner or operator* that is obtaining permit coverage in accordance with the requirements in Part II.F. (Change of *Owner or Operator*) or where the *owner or operator* of the *construction activity* is the *regulated, traditional land use control MS4*. This exemption does not apply to *construction activities* subject to the New York City Administrative Code.

B. Notice of Intent (NOI) Submittal

 Prior to December 21, 2020, an owner or operator shall use either the electronic (eNOI) or paper version of the NOI that the Department prepared. Both versions of the NOI are located on the Department's website (http://www.dec.ny.gov/). The paper version of the NOI shall be signed in accordance with Part VII.H. of this permit and submitted to the following address:

NOTICE OF INTENT N S DEC, Bureau of Water Permits Broadway, th Floor Albany, New ork 1 0

- 2. Beginning December 21, 2020 and in accordance with EPA's 2015 NPDES Electronic Reporting Rule (40 CFR Part 127), the *owner or operator* must submit the NOI electronically using the *Department's* online NOI.
- The owner or operator shall have the SWPPP preparer sign the "SWPPP Preparer Certification" statement on the NOI prior to submitting the form to the Department.
- 4. As of the date the NOI is submitted to the Department, the *owner or operator* shall make the NOI and SWPPP available for review and copying in accordance with the requirements in Part VII.F. of this permit.

C. Permit Authori ation

- 1. An owner or operator shall not commence construction activity until their authorization to discharge under this permit goes into effect.
- 2. Authorization to *discharge* under this permit will be effective when the *owner or operator* has satisfied <u>all</u> of the following criteria:
 - a. project review pursuant to the State Environmental Quality Review Act ("SEQRA") have been satisfied, when SEQRA is applicable. See the Department's website (<u>http://www.dec.ny.gov/</u>) for more information,
 - b. where required, all necessary Department permits subject to the Uniform Procedures Act ("UPA") (see 6 NYCRR Part 621), or the equivalent from another New York State agency, have been obtained, unless otherwise notified by the Department pursuant to 6 NYCRR 621.3(a)(4). Owners or operators of construction activities that are required to obtain UPA permits

must submit a preliminary SWPPP to the appropriate DEC Permit Administrator at the Regional Office listed in Appendix F at the time all other necessary UPA permit applications are submitted. The preliminary SWPPP must include sufficient information to demonstrate that the *construction activity* qualifies for authorization under this permit,

- c. the final SWPPP has been prepared, and
- d. a complete NOI has been submitted to the Department in accordance with the requirements of this permit.
- 3. An *owner or operator* that has satisfied the requirements of Part II.C.2 above will be authorized to *discharge* stormwater from their *construction activity* in accordance with the following schedule:
 - a. For construction activities that are <u>not</u> subject to the requirements of a *regulated, traditional land use control MS4*:
 - (i) Five (5) business days from the date the Department receives a complete electronic version of the NOI (eNOI) for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.; or
 - (ii) Sixty (60) business days from the date the Department receives a complete NOI (electronic or paper version) for *construction activities* with a SWPPP that has <u>not</u> been prepared in conformance with the design criteria in technical standard referenced in Part III.B.1. or, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C., the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, or;
 - (iii) Ten (10) business days from the date the Department receives a complete paper version of the NOI for *construction activities* with a SWPPP that has been prepared in conformance with the design criteria in the technical standard referenced in Part III.B.1 and the *performance criteria* in the technical standard referenced in Parts III.B., 2 or 3, for *construction activities* that require post-construction stormwater management practices pursuant to Part III.C.

- b. For *construction activities* that are subject to the requirements of a *regulated, traditional land use control MS4*:
 - Five (5) business days from the date the Department receives both a complete electronic version of the NOI (eNOI) and signed "MS4 SWPPP Acceptance" form, or
 - (ii) Ten (10) business days from the date the Department receives both a complete paper version of the NOI and signed "MS4 SWPPP Acceptance" form.
- 4. Coverage under this permit authorizes stormwater *discharges* from only those areas of disturbance that are identified in the NOI. If an *owner or operator* wishes to have stormwater *discharges* from future or additional areas of disturbance authorized, they must submit a new NOI that addresses that phase of the development, unless otherwise notified by the Department. The *owner or operator* shall not *commence construction activity* on the future or additional areas until their authorization to *discharge* under this permit goes into effect in accordance with Part II.C. of this permit.

D. General Re uirements For Owners or Operators With Permit Covera e

- The owner or operator shall ensure that the provisions of the SWPPP are implemented from the commencement of construction activity until all areas of disturbance have achieved *final stabilization* and the Notice of Termination ("NOT") has been submitted to the Department in accordance with Part V. of this permit. This includes any changes made to the SWPPP pursuant to Part III.A.4. of this permit.
- 2. The owner or operator shall maintain a copy of the General Permit (GP-0-20-001), NOI, NOI Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form, inspection reports, responsible contractor's or subcontractor's certification statement (see Part III.A.6.), and all documentation necessary to demonstrate eligibility with this permit at the construction site until all disturbed areas have achieved final stabilization and the NOT has been submitted to the Department. The documents must be maintained in a secure location, such as a job trailer, on-site construction office, or mailbox with lock. The secure location must be accessible during normal business hours to an individual performing a compliance inspection.
- 3. The owner or operator of a construction activity shall not disturb greater than five (5) acres of soil at any one time without prior written authorization from the Department or, in areas under the jurisdiction of a *regulated, traditional land*

use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity). At a minimum, the owner or operator must comply with the following requirements in order to be authorized to disturb greater than five (5) acres of soil at any one time:

- a. The owner or operator shall have a qualified inspector conduct at least two (2) site inspections in accordance with Part IV.C. of this permit every seven (7) calendar days, for as long as greater than five (5) acres of soil remain disturbed. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
- b. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures must be initiated by the end of the next business day and completed within seven (7) days from the date the current soil disturbance activity ceased. The soil stabilization measures selected shall be in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016.
- c. The *owner or operator* shall prepare a phasing plan that defines maximum disturbed area per phase and shows required cuts and fills.
- d. The *owner or operator* shall install any additional site-specific practices needed to protect water quality.
- e. The *owner or operator* shall include the requirements above in their SWPPP.
- 4. In accordance with statute, regulations, and the terms and conditions of this permit, the Department may suspend or revoke an *owner's or operator's* coverage under this permit at any time if the Department determines that the SWPPP does not meet the permit requirements or consistent with Part VII.K..
- 5. Upon a finding of significant non-compliance with the practices described in the SWPPP or violation of this permit, the Department may order an immediate stop to all activity at the site until the non-compliance is remedied. The stop work order shall be in writing, describe the non-compliance in detail, and be sent to the *owner or operator*.
- 6. For construction activities that are subject to the requirements of a regulated, traditional land use control MS4, the owner or operator shall notify the

regulated, traditional land use control MS4 in writing of any planned amendments or modifications to the post-construction stormwater management practice component of the SWPPP required by Part III.A. 4. and 5. of this permit. Unless otherwise notified by the *regulated, traditional land use control MS4*, the owner or operator shall have the SWPPP amendments or modifications reviewed and accepted by the *regulated, traditional land use control MS4* prior to commencing construction of the post-construction stormwater management practice.

E. Permit Covera e for Dischar es Authori ed Under GP 0 1 00

 Upon renewal of SPDES General Permit for Stormwater Discharges from Construction Activity (Permit No. GP-0-15-002), an owner or operator of a construction activity with coverage under GP-0-15-002, as of the effective date of GP- 0-20-001, shall be authorized to discharge in accordance with GP- 0-20-001, unless otherwise notified by the Department.

An *owner or operator* may continue to implement the technical/design components of the post-construction stormwater management controls provided that such design was done in conformance with the technical standards in place at the time of initial project authorization. However, they must comply with the other, non-design provisions of GP-0-20-001.

F. Chan e of Owner or Operator

- When property ownership changes or when there is a change in operational control over the construction plans and specifications, the original owner or operator must notify the new owner or operator, in writing, of the requirement to obtain permit coverage by submitting a NOI with the Department. For construction activities subject to the requirements of a regulated, traditional land use control MS4, the original owner or operator must also notify the MS4, in writing, of the change in ownership at least 30 calendar days prior to the change in ownership.
- 2. Once the new *owner or operator* obtains permit coverage, the original *owner or operator* shall then submit a completed NOT with the name and permit identification number of the new *owner or operator* to the Department at the address in Part II.B.1. of this permit. If the original *owner or operator* maintains ownership of a portion of the *construction activity* and will disturb soil, they must maintain their coverage under the permit.
- 3. Permit coverage for the new *owner or operator* will be effective as of the date the Department receives a complete NOI, provided the original *owner or*

operator was not subject to a sixty (60) business day authorization period that has not expired as of the date the Department receives the NOI from the new owner or operator.

Part III. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

A. General SWPPP Re uirements

- A SWPPP shall be prepared and implemented by the owner or operator of each construction activity covered by this permit. The SWPPP must document the selection, design, installation, implementation and maintenance of the control measures and practices that will be used to meet the effluent limitations in Part I.B. of this permit and where applicable, the post-construction stormwater management practice requirements in Part I.C. of this permit. The SWPPP shall be prepared prior to the submittal of the NOI. The NOI shall be submitted to the Department prior to the commencement of construction activity. A copy of the completed, final NOI shall be included in the SWPPP.
- 2. The SWPPP shall describe the erosion and sediment control practices and where required, post-construction stormwater management practices that will be used and/or constructed to reduce the *pollutants* in stormwater *discharges* and to assure compliance with the terms and conditions of this permit. In addition, the SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of stormwater *discharges*.
- 3. All SWPPPs that require the post-construction stormwater management practice component shall be prepared by a *qualified professional* that is knowledgeable in the principles and practices of stormwater management and treatment.
- 4. The *owner or operator* must keep the SWPPP current so that it at all times accurately documents the erosion and sediment controls practices that are being used or will be used during construction, and all post-construction stormwater management practices that will be constructed on the site. At a minimum, the *owner or operator* shall amend the SWPPP, including construction drawings:
 - a. whenever the current provisions prove to be ineffective in minimizing *pollutants* in stormwater *discharges* from the site;

- b. whenever there is a change in design, construction, or operation at the *construction site* that has or could have an effect on the *discharge* of *pollutants*;
- c. to address issues or deficiencies identified during an inspection by the *qualified inspector,* the Department or other regulatory authority; and
- d. to document the final construction conditions.
- 5. The Department may notify the *owner or operator* at any time that the SWPPP does not meet one or more of the minimum requirements of this permit. The notification shall be in writing and identify the provisions of the SWPPP that require modification. Within fourteen (14) calendar days of such notification, or as otherwise indicated by the Department, the *owner or operator* shall make the required changes to the SWPPP and submit written notification to the Department that the changes have been made. If the *owner or operator* does not respond to the Department's comments in the specified time frame, the Department may suspend the *owner's or operator's* coverage under this permit or require the *owner or operator* to obtain coverage under an individual SPDES permit in accordance with Part II.D.4. of this permit.
- 6. Prior to the *commencement of construction activity*, the *owner or operator* must identify the contractor(s) and subcontractor(s) that will be responsible for installing, constructing, repairing, replacing, inspecting and maintaining the erosion and sediment control practices included in the SWPPP; and the contractor(s) and subcontractor(s) that will be responsible for constructing the post-construction stormwater management practices included in the SWPPP. The *owner or operator* shall have each of the contractors and subcontractors identify at least one person from their company that will be responsible for implementation of the SWPPP. This person shall be known as the *trained contractor*. The *owner or operator* shall ensure that at least one *trained contractor* is on site on a daily basis when soil disturbance activities are being performed.

The *owner or operator* shall have each of the contractors and subcontractors identified above sign a copy of the following certification statement below before they commence any *construction activity*:

"I hereby certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP and agree to implement any corrective actions identified by the *qualified inspector* during a site inspection. I also understand that the *owner or operator* must comply with

(Part III.A.6)

the terms and conditions of the most current version of the New York State Pollutant Discharge Elimination System ("SPDES") general permit for stormwater *discharges* from *construction activities* and that it is unlawful for any person to cause or contribute to a violation of *water quality standards*. Furthermore, I am aware that there are significant penalties for submitting false information, that I do not believe to be true, including the possibility of fine and imprisonment for knowing violations"

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

7. For projects where the Department requests a copy of the SWPPP or inspection reports, the *owner or operator* shall submit the documents in both electronic (PDF only) and paper format within five (5) business days, unless otherwise notified by the Department.

B. Re uired SWPPP Contents

- Erosion and sediment control component All SWPPPs prepared pursuant to this permit shall include erosion and sediment control practices designed in conformance with the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Where erosion and sediment control practices are not designed in conformance with the design criteria included in the technical standard, the *owner or operator* must demonstrate *equivalence* to the technical standard. At a minimum, the erosion and sediment control component of the SWPPP shall include the following:
 - a. Background information about the scope of the project, including the location, type and size of project

- b. A site map/construction drawing(s) for the project, including a general location map. At a minimum, the site map shall show the total site area; all improvements; areas of disturbance; areas that will not be disturbed; existing vegetation; on-site and adjacent off-site surface water(s); floodplain/floodway boundaries; wetlands and drainage patterns that could be affected by the *construction activity*; existing and final contours; locations of different soil types with boundaries; material, waste, borrow or equipment storage areas located on adjacent properties; and location(s) of the stormwater *discharge*(s);
- c. A description of the soil(s) present at the site, including an identification of the Hydrologic Soil Group (HSG);
- d. A construction phasing plan and sequence of operations describing the intended order of *construction activities*, including clearing and grubbing, excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance;
- e. A description of the minimum erosion and sediment control practices to be installed or implemented for each *construction activity* that will result in soil disturbance. Include a schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented;
- f. A temporary and permanent soil stabilization plan that meets the requirements of this general permit and the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016, for each stage of the project, including initial land clearing and grubbing to project completion and achievement of *final stabilization*;
- g. A site map/construction drawing(s) showing the specific location(s), size(s), and length(s) of each erosion and sediment control practice;
- The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices. Include the location and sizing of any temporary sediment basins and structural practices that will be used to divert flows from exposed soils;
- i. A maintenance inspection schedule for the contractor(s) identified in Part III.A.6. of this permit, to ensure continuous and effective operation of the erosion and sediment control practices. The maintenance inspection
schedule shall be in accordance with the requirements in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016;

- j. A description of the pollution prevention measures that will be used to control litter, construction chemicals and construction debris from becoming a *pollutant* source in the stormwater *discharges*;
- k. A description and location of any stormwater *discharges* associated with industrial activity other than construction at the site, including, but not limited to, stormwater *discharges* from asphalt plants and concrete plants located on the *construction site*; and
- I. Identification of any elements of the design that are not in conformance with the design criteria in the technical standard, New York State Standards and Specifications for Erosion and Sediment Control, dated November 2016. Include the reason for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.
- Post-construction stormwater management practice component The owner or operator of any construction project identified in Table 2 of Appendix B as needing post-construction stormwater management practices shall prepare a SWPPP that includes practices designed in conformance with the applicable sizing criteria in Part I.C.2.a., c. or d. of this permit and the performance criteria in the technical standard, New York State Stormwater Management Design Manual dated January 2015

Where post-construction stormwater management practices are not designed in conformance with the *performance criteria* in the technical standard, the *owner or operator* must include in the SWPPP the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the technical standard.

The post-construction stormwater management practice component of the SWPPP shall include the following:

 a. Identification of all post-construction stormwater management practices to be constructed as part of the project. Include the dimensions, material specifications and installation details for each post-construction stormwater management practice;

- b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice;
- c. A Stormwater Modeling and Analysis Report that includes:
 - Map(s) showing pre-development conditions, including watershed/subcatchments boundaries, flow paths/routing, and design points;
 - Map(s) showing post-development conditions, including watershed/subcatchments boundaries, flow paths/routing, design points and post-construction stormwater management practices;
 - (iii) Results of stormwater modeling (i.e. hydrology and hydraulic analysis) for the required storm events. Include supporting calculations (model runs), methodology, and a summary table that compares pre and postdevelopment runoff rates and volumes for the different storm events;
 - (iv) Summary table, with supporting calculations, which demonstrates that each post-construction stormwater management practice has been designed in conformance with the *sizing criteria* included in the Design Manual;
 - (v) Identification of any *sizing criteria* that is not required based on the requirements included in Part I.C. of this permit; and
 - (vi) Identification of any elements of the design that are not in conformance with the *performance criteria* in the Design Manual. Include the reason(s) for the deviation or alternative design and provide information which demonstrates that the deviation or alternative design is *equivalent* to the Design Manual;
- d. Soil testing results and locations (test pits, borings);
- e. Infiltration test results, when required; and
- f. An operations and maintenance plan that includes inspection and maintenance schedules and actions to ensure continuous and effective operation of each post-construction stormwater management practice. The plan shall identify the entity that will be responsible for the long term operation and maintenance of each practice.

3. Enhanced Phosphorus Removal Standards - All construction projects identified in Table 2 of Appendix B that are located in the watersheds identified in Appendix C shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the applicable *sizing criteria* in Part I.C.2. b., c. or d. of this permit and the *performance criteria*, Enhanced Phosphorus Removal Standards included in the Design Manual. At a minimum, the post-construction stormwater management practice component of the SWPPP shall include items 2.a - 2.f. above.

C. Re uired SWPPP Components by Project Type

Unless otherwise notified by the Department, *owners or operators* of *construction activities* identified in Table 1 of Appendix B are required to prepare a SWPPP that only includes erosion and sediment control practices designed in conformance with Part III.B.1 of this permit. *Owners or operators* of the *construction activities* identified in Table 2 of Appendix B shall prepare a SWPPP that also includes post-construction stormwater management practices designed in conformance with Part III.B.2 or 3 of this permit.

Part IV. INSPECTION AND MAINTENANCE RE UIREMENTS

A. General Construction Site Inspection and Maintenance Re uirements

- 1. The *owner or operator* must ensure that all erosion and sediment control practices (including pollution prevention measures) and all post-construction stormwater management practices identified in the SWPPP are inspected and maintained in accordance with Part IV.B. and C. of this permit.
- 2. The terms of this permit shall not be construed to prohibit the State of New York from exercising any authority pursuant to the ECL, common law or federal law, or prohibit New York State from taking any measures, whether civil or criminal, to prevent violations of the laws of the State of New York or protect the public health and safety and/or the environment.

B. Contractor Maintenance Inspection Re uirements

1. The owner or operator of each construction activity identified in Tables 1 and 2 of Appendix B shall have a *trained contractor* inspect the erosion and sediment control practices and pollution prevention measures being implemented within the active work area daily to ensure that they are being maintained in effective operating condition at all times. If deficiencies are identified, the contractor shall

begin implementing corrective actions within one business day and shall complete the corrective actions in a reasonable time frame.

- 2. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *trained contractor* can stop conducting the maintenance inspections. The *trained contractor* shall begin conducting the maintenance inspections in accordance with Part IV.B.1. of this permit as soon as soil disturbance activities resume.
- 3. For construction sites where soil disturbance activities have been shut down with partial project completion, the *trained contractor* can stop conducting the maintenance inspections if all areas disturbed as of the project shutdown date have achieved *final stabilization* and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational.

C. ualified Inspector Inspection Re uirements

The owner or operator shall have a *qualified inspector* conduct site inspections in conformance with the following requirements:

[Note: The *trained contractor* identified in Part III.A.6. and IV.B. of this permit **cannot** conduct the *qualified inspector* site inspections unless they meet the *qualified inspector* qualifications included in Appendix A. In order to perform these inspections, the *trained contractor* would have to be a:

- licensed Professional Engineer,
- Certified Professional in Erosion and Sediment Control (CPESC),
- New York State Erosion and Sediment Control Certificate Program holder
- Registered Landscape Architect, or
- someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity].
- 1. A *qualified inspector* shall conduct site inspections for all *construction activities* identified in Tables 1 and 2 of Appendix B, <u>with the exception of</u>:
 - a. the construction of a single family residential subdivision with 25% or less *impervious cover* at total site build-out that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is <u>not</u> located

in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E;

- b. the construction of a single family home that involves a soil disturbance of one (1) or more acres of land but less than five (5) acres and is <u>not</u> located in one of the watersheds listed in Appendix C and <u>not</u> directly discharging to one of the 303(d) segments listed in Appendix E;
- c. construction on agricultural property that involves a soil disturbance of one
 (1) or more acres of land but less than five (5) acres; and
- d. *construction activities* located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.
- 2. Unless otherwise notified by the Department, the *qualified inspector* shall conduct site inspections in accordance with the following timetable:
 - a. For construction sites where soil disturbance activities are on-going, the *qualified inspector* shall conduct a site inspection at least once every seven (7) calendar days.
 - b. For construction sites where soil disturbance activities are on-going and the owner or operator has received authorization in accordance with Part II.D.3 to disturb greater than five (5) acres of soil at any one time, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
 - c. For construction sites where soil disturbance activities have been temporarily suspended (e.g. winter shutdown) and *temporary stabilization* measures have been applied to all disturbed areas, the *qualified inspector* shall conduct a site inspection at least once every thirty (30) calendar days. The *owner or operator* shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a *regulated, traditional land use control MS4*, the *regulated, traditional land use control MS4* (provided the *regulated, traditional land use control MS4* is not the *owner or operator* of the *construction activity*) in writing prior to reducing the frequency of inspections.

- d. For construction sites where soil disturbance activities have been shut down with partial project completion, the *qualified inspector* can stop conducting inspections if all areas disturbed as of the project shutdown date have achieved final stabilization and all post-construction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational. The owner or operator shall notify the DOW Water (SPDES) Program contact at the Regional Office (see contact information in Appendix F) or, in areas under the jurisdiction of a regulated, traditional land use control MS4, the regulated, traditional land use control MS4 (provided the regulated, traditional land use control MS4 is not the owner or operator of the construction activity) in writing prior to the shutdown. If soil disturbance activities are not resumed within 2 years from the date of shutdown, the owner or operator shall have the qualified inspector perform a final inspection and certify that all disturbed areas have achieved final stabilization, and all temporary, structural erosion and sediment control measures have been removed; and that all post-construction stormwater management practices have been constructed in conformance with the SWPPP by signing the "Final Stabilization" and "Post-Construction" Stormwater Management Practice" certification statements on the NOT. The owner or operator shall then submit the completed NOT form to the address in Part II.B.1 of this permit.
- e. For construction sites that directly *discharge* to one of the 303(d) segments listed in Appendix E or is located in one of the watersheds listed in Appendix C, the *qualified inspector* shall conduct at least two (2) site inspections every seven (7) calendar days. The two (2) inspections shall be separated by a minimum of two (2) full calendar days.
- 3. At a minimum, the *qualified inspector* shall inspect all erosion and sediment control practices and pollution prevention measures to ensure integrity and effectiveness, all post-construction stormwater management practices under construction to ensure that they are constructed in conformance with the SWPPP, all areas of disturbance that have not achieved *final stabilization,* all points of *discharge* to natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site*, and all points of *discharge* from the *construction site*.
- 4. The *qualified inspector* shall prepare an inspection report subsequent to each and every inspection. At a minimum, the inspection report shall include and/or address the following:

- a. Date and time of inspection;
- b. Name and title of person(s) performing inspection;
- c. A description of the weather and soil conditions (e.g. dry, wet, saturated) at the time of the inspection;
- d. A description of the condition of the runoff at all points of *discharge* from the *construction site*. This shall include identification of any *discharges* of sediment from the *construction site*. Include *discharges* from conveyance systems (i.e. pipes, culverts, ditches, etc.) and overland flow;
- e. A description of the condition of all natural surface waterbodies located within, or immediately adjacent to, the property boundaries of the *construction site* which receive runoff from disturbed areas. This shall include identification of any *discharges* of sediment to the surface waterbody;
- f. Identification of all erosion and sediment control practices and pollution prevention measures that need repair or maintenance;
- Identification of all erosion and sediment control practices and pollution prevention measures that were not installed properly or are not functioning as designed and need to be reinstalled or replaced;
- Description and sketch of areas with active soil disturbance activity, areas that have been disturbed but are inactive at the time of the inspection, and areas that have been stabilized (temporary and/or final) since the last inspection;
- i. Current phase of construction of all post-construction stormwater management practices and identification of all construction that is not in conformance with the SWPPP and technical standards;
- j. Corrective action(s) that must be taken to install, repair, replace or maintain erosion and sediment control practices and pollution prevention measures; and to correct deficiencies identified with the construction of the postconstruction stormwater management practice(s);
- k. Identification and status of all corrective actions that were required by previous inspection; and

- I. Digital photographs, with date stamp, that clearly show the condition of all practices that have been identified as needing corrective actions. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report being maintained onsite within seven (7) calendar days of the date of the inspection. The *qualified inspector* shall also take digital photographs, with date stamp, that clearly show the condition of the practice(s) after the corrective action has been completed. The *qualified inspector* shall attach paper color copies of the digital photographs to the inspection report that documents the completion of the corrective action work within seven (7) calendar days of that inspection.
- 5. Within one business day of the completion of an inspection, the *qualified inspector* shall notify the *owner or operator* and appropriate contractor or subcontractor identified in Part III.A.6. of this permit of any corrective actions that need to be taken. The contractor or subcontractor shall begin implementing the corrective actions within one business day of this notification and shall complete the corrective actions in a reasonable time frame.
- 6. All inspection reports shall be signed by the *qualified inspector*. Pursuant to Part II.D.2. of this permit, the inspection reports shall be maintained on site with the SWPPP.

Part V. TERMINATION OF PERMIT COVERAGE

A. Termination of Permit Covera e

- 1. An owner or operator that is eligible to terminate coverage under this permit must submit a completed NOT form to the address in Part II.B.1 of this permit. The NOT form shall be one which is associated with this permit, signed in accordance with Part VII.H of this permit.
- 2. An *owner or operator* may terminate coverage when one or more the following conditions have been met:
 - a. Total project completion All *construction activity* identified in the SWPPP has been completed; <u>and</u> all areas of disturbance have achieved *final stabilization*; <u>and</u> all temporary, structural erosion and sediment control measures have been removed; <u>and</u> all post-construction stormwater management practices have been constructed in conformance with the SWPPP and are operational;

- b. Planned shutdown with partial project completion All soil disturbance activities have ceased; and all areas disturbed as of the project shutdown date have achieved *final stabilization*; and all temporary, structural erosion and sediment control measures have been removed; and all postconstruction stormwater management practices required for the completed portion of the project have been constructed in conformance with the SWPPP and are operational;
- c. A new *owner or operator* has obtained coverage under this permit in accordance with Part II.F. of this permit.
- d. The *owner or operator* obtains coverage under an alternative SPDES general permit or an individual SPDES permit.
- 3. For *construction activities* meeting subdivision 2a. or 2b. of this Part, the *owner or operator* shall have the *qualified inspector* perform a final site inspection prior to submitting the NOT. The *qualified inspector* shall, by signing the "*Final Stabilization*" and "Post-Construction Stormwater Management Practice certification statements on the NOT, certify that all the requirements in Part V.A.2.a. or b. of this permit have been achieved.
- 4. For construction activities that are subject to the requirements of a regulated, traditional land use control MS4 and meet subdivision 2a. or 2b. of this Part, the owner or operator shall have the regulated, traditional land use control MS4 sign the "MS4 Acceptance" statement on the NOT in accordance with the requirements in Part VII.H. of this permit. The regulated, traditional land use control MS4 official, by signing this statement, has determined that it is acceptable for the owner or operator to submit the NOT in accordance with the requirements of this Part. The regulated, traditional land use control MS4 can make this determination by performing a final site inspection themselves or by accepting the qualified inspector's final site inspection certification(s) required in Part V.A.3. of this permit.
- 5. For *construction activities* that require post-construction stormwater management practices and meet subdivision 2a. of this Part, the *owner or operator* must, prior to submitting the NOT, ensure one of the following:
 - a. the post-construction stormwater management practice(s) and any right-ofway(s) needed to maintain such practice(s) have been deeded to the municipality in which the practice(s) is located,

- b. an executed maintenance agreement is in place with the municipality that will maintain the post-construction stormwater management practice(s),
- c. for post-construction stormwater management practices that are privately owned, the *owner or operator* has a mechanism in place that requires operation and maintenance of the practice(s) in accordance with the operation and maintenance plan, such as a deed covenant in the *owner or operator's* deed of record,
- d. for post-construction stormwater management practices that are owned by a public or private institution (e.g. school, university, hospital), government agency or authority, or public utility; the *owner or operator* has policy and procedures in place that ensures operation and maintenance of the practices in accordance with the operation and maintenance plan.

Part VI. REPORTING AND RETENTION RECORDS

A. Record Retention

The owner or operator shall retain a copy of the NOI, NOI

Acknowledgment Letter, SWPPP, MS4 SWPPP Acceptance form and any inspection reports that were prepared in conjunction with this permit for a period of at least five (5) years from the date that the Department receives a complete NOT submitted in accordance with Part V. of this general permit.

B. Addresses

With the exception of the NOI, NOT, and MS4 SWPPP Acceptance form (which must be submitted to the address referenced in Part II.B.1 of this permit), all written correspondence requested by the Department, including individual permit applications, shall be sent to the address of the appropriate DOW Water (SPDES) Program contact at the Regional Office listed in Appendix F.

Part VII. STANDARD PERMIT CONDITIONS

A. Duty to Comply

The *owner or operator* must comply with all conditions of this permit. All contractors and subcontractors associated with the project must comply with the terms of the SWPPP. Any non-compliance with this permit constitutes a violation of the Clean Water

(Part VII.A)

Act (CWA) and the ECL and is grounds for an enforcement action against the *owner or operator* and/or the contractor/subcontractor; permit revocation, suspension or modification; or denial of a permit renewal application. Upon a finding of significant non-compliance with this permit or the applicable SWPPP, the Department may order an immediate stop to all *construction activity* at the site until the non-compliance is remedied. The stop work order shall be in writing, shall describe the non-compliance in detail, and shall be sent to the *owner or operator*.

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

B. Continuation of the Expired General Permit

This permit expires five (5) years from the effective date. If a new general permit is not issued prior to the expiration of this general permit, an *owner or operator* with coverage under this permit may continue to operate and *discharge* in accordance with the terms and conditions of this general permit, if it is extended pursuant to the State Administrative Procedure Act and 6 NYCRR Part 621, until a new general permit is issued.

C. Enforcement

Failure of the *owner or operator,* its contractors, subcontractors, agents and/or assigns to strictly adhere to any of the permit requirements contained herein shall constitute a violation of this permit. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines of up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense.

D. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for an *owner or operator* in an enforcement action that it would have been necessary to halt or reduce the *construction activity* in order to maintain compliance with the conditions of this permit.

E. Duty to Miti ate

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

F. Duty to Provide Information

The owner or operator shall furnish to the Department, within a reasonable specified time period of a written request, all documentation necessary to demonstrate eligibility and any information to determine compliance with this permit or to determine whether cause exists for modifying or revoking this permit, or suspending or denying coverage under this permit, in accordance with the terms and conditions of this permit. The NOI, SWPPP and inspection reports required by this permit are public documents that the owner or operator must make available for review and copying by any person within five (5) business days of the owner or operator receiving a written request by any such person to review these documents. Copying of documents will be done at the requester's expense.

G. Other Information

When the *owner or operator* becomes aware that they failed to submit any relevant facts, or submitted incorrect information in the NOI or in any of the documents required by this permit, or have made substantive revisions to the SWPPP (e.g. the scope of the project changes significantly, the type of post-construction stormwater management practice(s) changes, there is a reduction in the sizing of the post-construction stormwater management practice, or there is an increase in the disturbance area or *impervious area*), which were not reflected in the original NOI submitted to the Department, they shall promptly submit such facts or information to the Department using the contact information in Part II.A. of this permit. Failure of the *owner or operator* to correct or supplement any relevant facts within five (5) business days of becoming aware of the deficiency shall constitute a violation of this permit.

H. Si natory Re uirements

- 1. All NOIs and NOTs shall be signed as follows:
 - a. For a corporation these forms shall be signed by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

- a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
- (ii) the manager of one or more manufacturing, production or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
- b. For a partnership or sole proprietorship these forms shall be signed by a general partner or the proprietor, respectively; or
- c. For a municipality, State, Federal, or other public agency these forms shall be signed by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
 - (i) the chief executive officer of the agency, or
 - (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).
- 2. The SWPPP and other information requested by the Department shall be signed by a person described in Part VII.H.1. of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part VII.H.1. of this permit;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field,

superintendent, position of *equivalent* responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position) and,

- c. The written authorization shall include the name, title and signature of the authorized representative and be attached to the SWPPP.
- 3. All inspection reports shall be signed by the *qualified inspector* that performs the inspection.
- 4. The MS4 SWPPP Acceptance form shall be signed by the principal executive officer or ranking elected official from the *regulated, traditional land use control MS4,* or by a duly authorized representative of that person.

It shall constitute a permit violation if an incorrect and/or improper signatory authorizes any required forms, SWPPP and/or inspection reports.

I. Property Ri hts

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations. *Owners or operators* must obtain any applicable conveyances, easements, licenses and/or access to real property prior to *commencing construction activity*.

. Severability

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

. Re uirement to Obtain Covera e Under an Alternative Permit

1. The Department may require any owner or operator authorized by this permit to apply for and/or obtain either an individual SPDES permit or another SPDES general permit. When the Department requires any discharger authorized by a general permit to apply for an individual SPDES permit, it shall notify the discharger in writing that a permit application is required. This notice shall

include a brief statement of the reasons for this decision, an application form, a statement setting a time frame for the owner or operator to file the application for an individual SPDES permit, and a deadline, not sooner than 180 days from owner or operator receipt of the notification letter, whereby the authorization to discharge under this general permit shall be terminated. Applications must be submitted to the appropriate Permit Administrator at the Regional Office. The Department may grant additional time upon demonstration, to the satisfaction of the Department, that additional time to apply for an alternative authorization is necessary or where the Department has not provided a permit determination in accordance with Part 621 of this Title.

2. When an individual SPDES permit is issued to a discharger authorized to *discharge* under a general SPDES permit for the same *discharge*(s), the general permit authorization for outfalls authorized under the individual SPDES permit is automatically terminated on the effective date of the individual permit unless termination is earlier in accordance with 6 NYCRR Part 750.

L. Proper Operation and Maintenance

The owner or operator shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the owner or operator to achieve compliance with the conditions of this permit and with the requirements of the SWPPP.

M. Inspection and Entry

The owner or operator shall allow an authorized representative of the Department, EPA, applicable county health department, or, in the case of a *construction site* which *discharges* through an *MS4*, an authorized representative of the *MS4* receiving the discharge, upon the presentation of credentials and other documents as may be required by law, to:

- 1. Enter upon the owner's or operator's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;
- 2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit; and

- 3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment), practices or operations regulated or required by this permit.
- 4. Sample or monitor at reasonable times, for purposes of assuring permit compliance or as otherwise authorized by the Act or ECL, any substances or parameters at any location.

N. Permit Actions

This permit may, at any time, be modified, suspended, revoked, or renewed by the Department in accordance with 6 NYCRR Part 621. The filing of a request by the *owner or operator* for a permit modification, revocation and reissuance, termination, a notification of planned changes or anticipated noncompliance does not limit, diminish and/or stay compliance with any terms of this permit.

O. Definitions

Definitions of key terms are included in Appendix A of this permit.

P. Re Opener Clause

- If there is evidence indicating potential or realized impacts on water quality due to any stormwater discharge associated with construction activity covered by this permit, the owner or operator of such discharge may be required to obtain an individual permit or alternative general permit in accordance with Part VII.K. of this permit or the permit may be modified to include different limitations and/or requirements.
- 2. Any Department initiated permit modification, suspension or revocation will be conducted in accordance with 6 NYCRR Part 621, 6 NYCRR 750-1.18, and 6 NYCRR 750-1.20.

. Penalties for Falsification of Forms and Reports

In accordance with 6NYCRR Part 750-2.4 and 750-2.5, any person who knowingly makes any false material statement, representation, or certification in any application, record, report or other document filed or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished in accordance with ECL §71-1933 and or Articles 175 and 210 of the New York State Penal Law.

R. Other Permits

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

APPENDI A – Acronyms and Definitions

Acronyms

APO – Agency Preservation Officer

BMP – Best Management Practice

CPESC – Certified Professional in Erosion and Sediment Control

Cpv – Channel Protection Volume

CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)

DOW – Division of Water

EAF – Environmental Assessment Form

ECL - Environmental Conservation Law

EPA – U. S. Environmental Protection Agency

HSG – Hydrologic Soil Group

MS4 – Municipal Separate Storm Sewer System

NOI – Notice of Intent

NOT – Notice of Termination

NPDES – National Pollutant Discharge Elimination System

OPRHP – Office of Parks, Recreation and Historic Places

Qf – Extreme Flood

Qp – Overbank Flood

RRv – Runoff Reduction Volume

RWE – Regional Water Engineer

SEQR – State Environmental Quality Review

SEQRA - State Environmental Quality Review Act

SHPA – State Historic Preservation Act

SPDES – State Pollutant Discharge Elimination System

SWPPP – Stormwater Pollution Prevention Plan

TMDL – Total Maximum Daily Load

UPA – Uniform Procedures Act

USDA – United States Department of Agriculture

WQv – Water Quality Volume

Definitions

All definitions in this section are solely for the purposes of this permit. **A ricultural Buildin** – a structure designed and constructed to house farm implements, hay, grain, poultry, livestock or other horticultural products; excluding any structure designed, constructed or used, in whole or in part, for human habitation, as a place of employment where agricultural products are processed, treated or packaged, or as a place used by the public.

A ricultural Property –means the land for construction of a barn, *agricultural building*, silo, stockyard, pen or other structural practices identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" prepared by the Department in cooperation with agencies of New York Nonpoint Source Coordinating Committee (dated June 2007).

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

Combined Sewer means a sewer that is designed to collect and convey both "sewage" and "stormwater".

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

Construction Activity(ies) means any clearing, grading, excavation, filling, demolition or stockpiling activities that result in soil disturbance. Clearing activities can include, but are not limited to, logging equipment operation, the cutting and skidding of trees, stump removal and/or brush root removal. Construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility.

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

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

Direct Dischar e (to a specific surface waterbody) means that runoff flows from a *construction site* by overland flow and the first point of discharge is the specific surface waterbody, or runoff flows from a *construction site* to a separate storm sewer system

and the first point of discharge from the separate storm sewer system is the specific surface waterbody.

Dischar e(s) - means any addition of any pollutant to waters of the State through an outlet or *point source*.

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

Endan ered or Threatened Species – see 6 NYCRR Part 182 of the Department's rules and regulations for definition of terms and requirements.

Environmental Conservation Law (ECL) - means chapter 43-B of the Consolidated Laws of the State of New York, entitled the Environmental Conservation Law.

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

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

General SPDES permit - means a SPDES permit issued pursuant to 6 NYCRR Part 750-1.21 and Section 70-0117 of the ECL authorizing a category of discharges.

Groundwater(s) - means waters in the saturated zone. The saturated zone is a subsurface zone in which all the interstices are filled with water under pressure greater than that of the atmosphere. Although the zone may contain gas-filled interstices or interstices filled with fluids other than water, it is still considered saturated.

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

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

Infeasible – means not technologically possible, or not economically practicable and achievable in light of best industry practices.

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

For discrete construction projects that are located within a larger common plan of development or sale that are at least 1/4 mile apart, each project can be treated as a separate plan of development or sale provided any interconnecting road, pipeline or utility project that is part of the same "common plan" is not concurrently being disturbed.

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

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

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

National Pollutant Dischar e Elimination System (NPDES) - means the national system for the issuance of wastewater and stormwater permits under the Federal Water Pollution Control Act (Clean Water Act).

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

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

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

NOI Acknowled ment Letter - means the letter that the Department sends to an owner or operator to acknowledge the Department's receipt and acceptance of a complete Notice of Intent. This letter documents the owner's or operator's authorization to discharge in accordance with the general permit for stormwater discharges from *construction activity*.

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

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

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

Performance Criteria – means the design criteria listed under the "Required Elements" sections in Chapters 5, 6 and 10 of the technical standard, New York State Stormwater Management Design Manual, dated January 2015. It does not include the Sizing Criteria (i.e. WQv, RRv, Cpv, Qp and Qf) in Part I.C.2. of the permit.

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

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

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

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

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

Note: Inspections of any post-construction stormwater management practices that include structural components, such as a dam for an impoundment, shall be performed by a licensed Professional Engineer.

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

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

Re ulated, Traditional Land Use Control MS means a city, town or village with land use control authority that is authorized to discharge under New York State DEC's

SPDES General Permit For Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS4s) or the City of New York's Individual SPDES Permit for their Municipal Separate Storm Sewer Systems (NY-0287890).

Routine Maintenance Activity means *construction activity* that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of a facility, including, but not limited to:

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

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

Si in Criteria – means the criteria included in Part I.C.2 of the permit that are used to size post-construction stormwater management control practices. The criteria include; Water Quality Volume (WQv), Runoff Reduction Volume (RRv), Channel Protection Volume (Cpv), *Overbank* Flood (Qp), and Extreme Flood (Qf).

State Pollutant Dischar e Elimination System (SPDES) - means the system established pursuant to Article 17 of the ECL and 6 NYCRR Part 750 for issuance of permits authorizing discharges to the waters of the state.

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

Streambank – as used in this permit, means the terrain alongside the bed of a creek or stream. The bank consists of the sides of the channel, between which the flow is confined.

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

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

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

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

Total Maximum Daily Loads (TMDLs) - A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and *nonpoint sources*. It is a calculation of the maximum amount of a pollutant that a waterbody can receive on a daily basis and still meet *water quality standards*, and an allocation of that amount to the pollutant's sources. A TMDL stipulates wasteload allocations (WLAs) for *point source* discharges, load allocations (LAs) for *nonpoint sources*, and a margin of safety (MOS).

Trained Contractor means an employee from the contracting (construction) company, identified in Part III.A.6., that has received four (4) hours of Department endorsed

Appendix A

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

It can also mean an employee from the contracting (construction) company, identified in Part III.A.6., that meets the *qualified inspector* qualifications (e.g. licensed Professional Engineer, Certified Professional in Erosion and Sediment Control (CPESC), Registered Landscape Architect, New York State Erosion and Sediment Control Certificate Program holder, or someone working under the direct supervision of, and at the same company as, the licensed Professional Engineer or Registered Landscape Architect, provided they have received four (4) hours of Department endorsed training in proper erosion and sediment control principles from a Soil and Water Conservation District, or other Department endorsed entity).

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

Uniform Procedures Act (UPA) Permit - means a permit required under 6 NYCRR Part 621 of the Environmental Conservation Law (ECL), Article 70.

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

APPENDI B – Re uired SWPPP Components by Project Type

Table 1

Construction Activities that Re uire the Preparation of a SWPPP That Only Includes Erosion and Sediment Controls

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

- Single family home <u>not</u> located in one of the watersheds listed in Appendix C or <u>not</u> *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions with 25% or less impervious cover at total site build-out and not located in one of the watersheds listed in Appendix C and not directly discharging to one of the 303(d) segments listed in Appendix E
- Construction of a barn or other *agricultural building*, silo, stock yard or pen.

The followin construction activities that involve soil disturbances between five thousand (000) s uare feet and one (1) acre of land:

All construction activities located in the watersheds identified in Appendix D that involve soil disturbances between five thousand (5,000) square feet and one (1) acre of land.

- Installation of underground, linear utilities; such as gas lines, fiber-optic cable, cable TV, electric, telephone, sewer mains, and water mains
- Environmental enhancement projects, such as wetland mitigation projects, stormwater retrofits and stream restoration projects
- Pond construction
- Linear bike paths running through areas with vegetative cover, including bike paths surfaced with an impervious cover
- Cross-country ski trails and walking/hiking trails
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are not part of residential, commercial or institutional development;
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that include incidental shoulder or curb work along an existing highway to support construction of the sidewalk, bike path or walking path.
- Slope stabilization projects
- Slope flattening that changes the grade of the site, but does not significantly change the runoff characteristics

Table 1 (Continued) CONSTRUCTION ACTIVITIES THAT RE UIRE THE PREPARATION OF A SWPPP

THAT ONL INCLUDES EROSION AND SEDIMENT CONTROLS

- Spoil areas that will be covered with vegetation
- Vegetated open space projects (i.e. recreational parks, lawns, meadows, fields, downhill ski trails) excluding projects that *alter hydrology from pre to post development* conditions,
- Athletic fields (natural grass) that do not include the construction or reconstruction of *impervious* area and do not alter hydrology from pre to post development conditions
- · Demolition project where vegetation will be established, and no redevelopment is planned
- Overhead electric transmission line project that does not include the construction of permanent access roads or parking areas surfaced with *impervious cover*
- Structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State", excluding projects that involve soil disturbances of greater than five acres and construction activities that include the construction or reconstruction of impervious area
- Temporary access roads, median crossovers, detour roads, lanes, or other temporary impervious areas that will be restored to pre-construction conditions once the construction activity is complete

Table

CONSTRUCTION ACTIVITIES THAT RE UIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

- Single family home located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family home that disturbs five (5) or more acres of land
- Single family residential subdivisions located in one of the watersheds listed in Appendix C or *directly discharging* to one of the 303(d) segments listed in Appendix E
- Single family residential subdivisions that involve soil disturbances of between one (1) and five (5) acres of land with greater than 25% impervious cover at total site build-out
- Single family residential subdivisions that involve soil disturbances of five (5) or more acres of land, and single family residential subdivisions that involve soil disturbances of less than five (5) acres that are part of a larger common plan of development or sale that will ultimately disturb five or more acres of land
- Multi-family residential developments; includes duplexes, townhomes, condominiums, senior housing complexes, apartment complexes, and mobile home parks
- Airports
- Amusement parks
- · Breweries, cideries, and wineries, including establishments constructed on agricultural land
- Campgrounds
- Cemeteries that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Commercial developments
- Churches and other places of worship
- Construction of a barn or other *agricultural building* (e.g. silo) and structural practices as identified in Table II in the "Agricultural Management Practices Catalog for Nonpoint Source Pollution in New York State" that include the construction or reconstruction of *impervious area*, excluding projects that involve soil disturbances of less than five acres.
- Golf courses
- Institutional development; includes hospitals, prisons, schools and colleges
- Industrial facilities; includes industrial parks
- · Landfills
- Municipal facilities; includes highway garages, transfer stations, office buildings, POTW's, water treatment plants, and water storage tanks
- Office complexes
- · Playgrounds that include the construction or reconstruction of impervious area
- Sports complexes
- · Racetracks; includes racetracks with earthen (dirt) surface
- Road construction or reconstruction, including roads constructed as part of the construction activities listed in Table 1

Table (Continued)

CONSTRUCTION ACTIVITIES THAT RE UIRE THE PREPARATION OF A SWPPP THAT INCLUDES POST CONSTRUCTION STORMWATER MANAGEMENT PRACTICES

- Parking lot construction or reconstruction, including parking lots constructed as part of the construction activities listed in Table 1
- Athletic fields (natural grass) that include the construction or reconstruction of impervious area (>5% of disturbed area) or *alter the hydrology from pre to post development* conditions
- Athletic fields with artificial turf
- Permanent access roads, parking areas, substations, compressor stations and well drilling pads, surfaced with *impervious cover*, and constructed as part of an over-head electric transmission line project, wind-power project, cell tower project, oil or gas well drilling project, sewer or water main project or other linear utility project
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a residential, commercial or institutional development
- Sidewalk, bike path or walking path projects, surfaced with an impervious cover, that are part of a highway construction or reconstruction project
- All other construction activities that include the construction or reconstruction of *impervious area* or *alter the hydrology from pre to post development* conditions, and are not listed in Table 1

APPENDI C – Watersheds Re uirin Enhanced Phosphorus Removal

Watersheds where *owners or operators* of construction activities identified in Table of Appendix B must prepare a SWPPP that includes post construction stormwater mana ement practices desi ned in conformance with the Enhanced Phosphorus Removal Standards included in the technical standard, New ork State Stormwater Management Design Manual ("Design Manual").

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

Fi ure 1 New ork City Watershed East of the Hudson



Fi ure Ononda a Lake Watershed



Fi ure Greenwood Lake Watershed



Fi ure Oscawana Lake Watershed



Fi ure inderhook Lake Watershed


APPENDI D – Watersheds with Lower Disturbance Threshold

Watersheds where *owners or operators* of construction activities that involve soil disturbances between five thousand (000) s uare feet and one (1) acre of land must obtain covera e under this permit.

Entire New York City Watershed that is located east of the Hudson River See Figure 1 in Appendix C

APPENDI E – 0 (d) Se ments Impaired by Construction Related Pollutant(s)

List of 303(d) segments impaired by pollutants related to *construction activity* (e.g. silt, sediment or nutrients). The list was developed using "The Final New York State 2016 Section 303(d) List of Impaired Waters Requiring a TMDL/Other Strategy" dated November 2016. *Owners or operators* of single family home and single family residential subdivisions with 25% or less total impervious cover at total site build-out that involve soil disturbances of one or more acres of land, but less than 5 acres, and *directly discharge* to one of the listed segments below shall prepare a SWPPP that includes post-construction stormwater management practices designed in conformance with the New York State Stormwater Management Design Manual ("Design Manual"), dated January 2015.

COUNTY	WATERBODY	POLLUTANT
Albany	Ann Lee (Shakers) Pond, Stump Pond	Nutrients
Albany	Basic Creek Reservoir	Nutrients
Allegany	Amity Lake, Saunders Pond	Nutrients
Bronx	Long Island Sound, Bronx	Nutrients
Bronx	Van Cortlandt Lake	Nutrients
Broome	Fly Pond, Deer Lake, Sky Lake	Nutrients
Broome	Minor Tribs to Lower Susquehanna (north)	Nutrients
Broome	Whitney Point Lake/Reservoir	Nutrients
Cattaraugus	Allegheny River/Reservoir	Nutrients
Cattaraugus	Beaver (Alma) Lake	Nutrients
Cattaraugus	Case Lake	Nutrients
Cattaraugus	Linlyco/Club Pond	Nutrients
Сауида	Duck Lake	Nutrients
Cayuga	Little Sodus Bay	Nutrients
Chautauqua	Bear Lake	Nutrients
Chautauqua	Chadakoin River and tribs	Nutrients
Chautauqua	Chautauqua Lake, North	Nutrients
Chautauqua	Chautauqua Lake, South	Nutrients
Chautauqua	Findley Lake	Nutrients
Chautauqua	Hulburt/Clymer Pond	Nutrients
Clinton	Great Chazy River, Lower, Main Stem	Silt/Sediment
Clinton	Lake Champlain, Main Lake, Middle	Nutrients
Clinton	Lake Champlain, Main Lake, North	Nutrients
Columbia	Kinderhook Lake	Nutrients
Columbia	Robinson Pond	Nutrients
Cortland	Dean Pond	Nutrients

Dutchess	Fall Kill and tribs	Nutrients
Dutchess	Hillside Lake	Nutrients
Dutchess	Wappingers Lake	Nutrients
Dutchess	Wappingers Lake	Silt/Sediment
Erie	Beeman Creek and tribs	Nutrients
Erie	Ellicott Creek, Lower, and tribs	Silt/Sediment
Erie	Ellicott Creek, Lower, and tribs	Nutrients
Erie	Green Lake	Nutrients
Erie	Little Sister Creek, Lower, and tribs	Nutrients
Erie	Murder Creek, Lower, and tribs	Nutrients
Erie	Rush Creek and tribs	Nutrients
Erie	Scajaquada Creek, Lower, and tribs	Nutrients
Erie	Scajaquada Creek, Middle, and tribs	Nutrients
Erie	Scajaquada Creek, Upper, and tribs	Nutrients
Erie	South Branch Smoke Cr, Lower, and tribs	Silt/Sediment
Erie	South Branch Smoke Cr, Lower, and tribs	Nutrients
Essex	Lake Champlain, Main Lake, South	Nutrients
Essex	Lake Champlain, South Lake	Nutrients
Essex	Willsboro Bay	Nutrients
Genesee	Bigelow Creek and tribs	Nutrients
Genesee	Black Creek, Middle, and minor tribs	Nutrients
Genesee	Black Creek, Upper, and minor tribs	Nutrients
Genesee	Bowen Brook and tribs	Nutrients
Genesee	LeRoy Reservoir	Nutrients
Genesee	Oak Orchard Cr, Upper, and tribs	Nutrients
Genesee	Tonawanda Creek, Middle, Main Stem	Nutrients
Greene	Schoharie Reservoir	Silt/Sediment
Greene	Sleepy Hollow Lake	Silt/Sediment
Herkimer	Steele Creek tribs	Silt/Sediment
Herkimer	Steele Creek tribs	Nutrients
Jefferson	Moon Lake	Nutrients
Kings	Hendrix Creek	Nutrients
Kings	Prospect Park Lake	Nutrients
Lewis	Mill Creek/South Branch, and tribs	Nutrients
Livingston	Christie Creek and tribs	Nutrients
Livingston	Conesus Lake	Nutrients
Livingston	Mill Creek and minor tribs	Silt/Sediment
Monroe	Black Creek, Lower, and minor tribs	Nutrients
Monroe	Buck Pond	Nutrients
Monroe	Cranberry Pond	Nutrients

Monroe	Lake Ontario Shoreline, Western	Nutrients
Monroe	Long Pond	Nutrients
Monroe	Mill Creek and tribs	Nutrients
Monroe	Mill Creek/Blue Pond Outlet and tribs	Nutrients
Monroe	Minor Tribs to Irondequoit Bay	Nutrients
Monroe	Rochester Embayment - East	Nutrients
Monroe	Rochester Embayment - West	Nutrients
Monroe	Shipbuilders Creek and tribs	Nutrients
Monroe	Thomas Creek/White Brook and tribs	Nutrients
Nassau	Beaver Lake	Nutrients
Nassau	Camaans Pond	Nutrients
Nassau	East Meadow Brook, Upper, and tribs	Silt/Sediment
Nassau	East Rockaway Channel	Nutrients
Nassau	Grant Park Pond	Nutrients
Nassau	Hempstead Bay	Nutrients
Nassau	Hempstead Lake	Nutrients
Nassau	Hewlett Bay	Nutrients
Nassau	Hog Island Channel	Nutrients
Nassau	Long Island Sound, Nassau County Waters	Nutrients
Nassau	Massapequa Creek and tribs	Nutrients
Nassau	Milburn/Parsonage Creeks, Upp, and tribs	Nutrients
Nassau	Reynolds Channel, west	Nutrients
Nassau	Tidal Tribs to Hempstead Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Nutrients
Nassau	Tribs (fresh) to East Bay	Silt/Sediment
Nassau	Tribs to Smith/Halls Ponds	Nutrients
Nassau	Woodmere Channel	Nutrients
New York	Harlem Meer	Nutrients
New York	The Lake in Central Park	Nutrients
Niagara	Bergholtz Creek and tribs	Nutrients
Niagara	Hyde Park Lake	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Niagara	Lake Ontario Shoreline, Western	Nutrients
Oneida	Ballou, Nail Creeks and tribs	Nutrients
Onondaga	Harbor Brook, Lower, and tribs	Nutrients
Onondaga	Ley Creek and tribs	Nutrients
Onondaga	Minor Tribs to Onondaga Lake	Nutrients
Onondaga	Ninemile Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Lower, and tribs	Nutrients
Onondaga	Onondaga Creek, Middle, and tribs	Nutrients

Onondaga	Onondaga Lake, northern end	Nutrients
Onondaga	Onondaga Lake, southern end	Nutrients
Ontario	Great Brook and minor tribs	Silt/Sediment
Ontario	Great Brook and minor tribs	Nutrients
Ontario	Hemlock Lake Outlet and minor tribs	Nutrients
Ontario	Honeoye Lake	Nutrients
Orange	Greenwood Lake	Nutrients
Orange	Monhagen Brook and tribs	Nutrients
Orange	Orange Lake	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Orleans	Lake Ontario Shoreline, Western	Nutrients
Oswego	Lake Neatahwanta	Nutrients
Oswego	Pleasant Lake	Nutrients
Putnam	Bog Brook Reservoir	Nutrients
Putnam	Boyd Corners Reservoir	Nutrients
Putnam	Croton Falls Reservoir	Nutrients
Putnam	Diverting Reservoir	Nutrients
Putnam	East Branch Reservoir	Nutrients
Putnam	Lake Carmel	Nutrients
Putnam	Middle Branch Reservoir	Nutrients
Putnam	Oscawana Lake	Nutrients
Putnam	Palmer Lake	Nutrients
Putnam	West Branch Reservoir	Nutrients
Queens	Bergen Basin	Nutrients
Queens	Flushing Creek/Bay	Nutrients
Queens	Jamaica Bay, Eastern, and tribs (Queens)	Nutrients
Queens	Kissena Lake	Nutrients
Queens	Meadow Lake	Nutrients
Queens	Willow Lake	Nutrients
Rensselaer	Nassau Lake	Nutrients
Rensselaer	Snyders Lake	Nutrients
Richmond	Grasmere Lake/Bradys Pond	Nutrients
Rockland	Congers Lake, Swartout Lake	Nutrients
Rockland	Rockland Lake	Nutrients
Saratoga	Ballston Lake	Nutrients
Saratoga	Dwaas Kill and tribs	Silt/Sediment
Saratoga	Dwaas Kill and tribs	Nutrients
Saratoga	Lake Lonely	Nutrients
Saratoga	Round Lake	Nutrients
Saratoga	Tribs to Lake Lonely	Nutrients

Schenectady	Collins Lake	Nutrients
Schenectady	Duane Lake	Nutrients
Schenectady	Mariaville Lake	Nutrients
Schoharie	Engleville Pond	Nutrients
Schoharie	Summit Lake	Nutrients
Seneca	Reeder Creek and tribs	Nutrients
St.Lawrence	Black Lake Outlet/Black Lake	Nutrients
St.Lawrence	Fish Creek and minor tribs	Nutrients
Steuben	Smith Pond	Nutrients
Suffolk	Agawam Lake	Nutrients
Suffolk	Big/Little Fresh Ponds	Nutrients
Suffolk	Canaan Lake	Silt/Sediment
Suffolk	Canaan Lake	Nutrients
Suffolk	Flanders Bay, West/Lower Sawmill Creek	Nutrients
Suffolk	Fresh Pond	Nutrients
Suffolk	Great South Bay, East	Nutrients
Suffolk	Great South Bay, Middle	Nutrients
Suffolk	Great South Bay, West	Nutrients
Suffolk	Lake Ronkonkoma	Nutrients
Suffolk	Long Island Sound, Suffolk County, West	Nutrients
Suffolk	Mattituck (Marratooka) Pond	Nutrients
Suffolk	Meetinghouse/Terrys Creeks and tribs	Nutrients
Suffolk	Mill and Seven Ponds	Nutrients
Suffolk	Millers Pond	Nutrients
Suffolk	Moriches Bay, East	Nutrients
Suffolk	Moriches Bay, West	Nutrients
Suffolk	Peconic River, Lower, and tidal tribs	Nutrients
Suffolk	Quantuck Bay	Nutrients
Suffolk	Shinnecock Bay and Inlet	Nutrients
Suffolk	Tidal tribs to West Moriches Bay	Nutrients
Sullivan	Bodine, Montgomery Lakes	Nutrients
Sullivan	Davies Lake	Nutrients
Sullivan	Evens Lake	Nutrients
Sullivan	Pleasure Lake	Nutrients
Tompkins	Cayuga Lake, Southern End	Nutrients
Tompkins	Cayuga Lake, Southern End	Silt/Sediment
Tompkins	Owasco Inlet, Upper, and tribs	Nutrients
Ulster	Ashokan Reservoir	Silt/Sediment
Ulster	Esopus Creek, Upper, and minor tribs	Silt/Sediment
Warren	Hague Brook and tribs	Silt/Sediment

Warren	Huddle/Finkle Brooks and tribs	Silt/Sediment
Warren	Indian Brook and tribs	Silt/Sediment
Warren	Lake George	Silt/Sediment
Warren	Tribs to L.George, Village of L George	Silt/Sediment
Washington	Cossayuna Lake	Nutrients
Washington	Lake Champlain, South Bay	Nutrients
Washington	Tribs to L.George, East Shore	Silt/Sediment
Washington	Wood Cr/Champlain Canal and minor tribs	Nutrients
Wayne	Port Bay	Nutrients
Westchester	Amawalk Reservoir	Nutrients
Westchester	Blind Brook, Upper, and tribs	Silt/Sediment
Westchester	Cross River Reservoir	Nutrients
Westchester	Lake Katonah	Nutrients
Westchester	Lake Lincolndale	Nutrients
Westchester	Lake Meahagh	Nutrients
Westchester	Lake Mohegan	Nutrients
Westchester	Lake Shenorock	Nutrients
Westchester	Long Island Sound, Westchester (East)	Nutrients
Westchester	Mamaroneck River, Lower	Silt/Sediment
Westchester	Mamaroneck River, Upper, and minor tribs	Silt/Sediment
Westchester	Muscoot/Upper New Croton Reservoir	Nutrients
Westchester	New Croton Reservoir	Nutrients
Westchester	Peach Lake	Nutrients
Westchester	Reservoir No.1 (Lake Isle)	Nutrients
Westchester	Saw Mill River, Lower, and tribs	Nutrients
Westchester	Saw Mill River, Middle, and tribs	Nutrients
Westchester	Sheldrake River and tribs	Silt/Sediment
Westchester	Sheldrake River and tribs	Nutrients
Westchester	Silver Lake	Nutrients
Westchester	Teatown Lake	Nutrients
Westchester	Titicus Reservoir	Nutrients
Westchester	Truesdale Lake	Nutrients
Westchester	Wallace Pond	Nutrients
Wyoming	Java Lake	Nutrients
Wyoming	Silver Lake	Nutrients

<u>Re_ion</u>	<u>Covering the</u> FOLLOWING COUNTIES:	DIVISION OF ENVIRONMENTAL PERMITS (DEP) <u>PERMIT ADMINISTRATORS</u>	DIVISION OF WATER (DOW) <u>Water (SPDES) Program</u>
1	NASSAU AND SUFFOL	0 Circle Road Ston Broo , N 11 0 Tel. (1) 0	0 CIRCLE ROAD STON BROO , N 11 0 0 TEL. (1) 0 0
2	BRON , INGS, NEW OR , UEENS AND RICHMOND	1 HUNTERS POINT PLA A, 0 1st St. Long Island Cit , N 11101 0 Tel. (1)	1 HUNTERS POINT PLA A, 0 1ST ST. Long Island Cit , N 11101 0 Tel. (1)
3	DUTCHESS, ORANGE, PUTNAM, ROC LAND, SULLIVAN, ULSTER AND WESTCHESTER	1 South Putt Corners Road New Palt , N 1 11 Tel. () 0	100 HILLSIDE AVENUE, SUITE 1W WHITE PLAINS, N 10 0 TEL. (1) 0
4	ALBAN, COLUMBIA, DELAWARE, GREENE, MONTGOMER, OTSEGO, RENSSELAER, SCHENECTAD AND SCHOHARIE	11 0 North Westcott Road Schenectad, N 1 0 01 Tel. (1) 0	11 0 North Westcott Road Schenectad , N 1 0 01 Tel. (1) 0
5	CLINTON, ESSE , FRAN LIN, FULTON, HAMILTON, SARATOGA, WARREN AND WASHINGTON	111 STATE ROUTE , PO BO RA BROO ,N 1 0 TEL.(1) 1	GOLF COURSE ROAD WARRENSBURG, N 1 11 TEL. (1) 100
6	HER IMER, EFFERSON, LEWIS, ONEIDA AND ST. LAWRENCE	STATE OFFICE BUILDING 1 WASHINGTON STREET WATERTOWN, N 1 01 TEL. (1)	STATE OFFICE BUILDING 0 GENESEE STREET UTICA, N 1 01 TEL.(1)
7	BROOME, CA UGA, CHENANGO, CORTLAND, MADISON, ONONDAGA, OSWEGO, TIOGA AND TOMP INS	1 ERIE BLVD. WEST S RACUSE, N 1 0 00 TEL.(1)	1 ERIE BLVD. WEST S RACUSE, N 1 0 00 TEL.(1) 00
8	CHEMUNG, GENESEE, LIVINGSTON, MONROE, ONTARIO, ORLEANS, SCHU LER, SENECA, STEUBEN, WA NE AND ATES	EAST AVON LIMA ROADAVON, N 1 1 1 TEL. ()	EAST AVON LIMA RD. AVON, N 1 1 1 TEL. ()
9	ALLEGAN , CATTARAUGUS, CHAUTAU UA, ERIE, NIAGARA AND W OMING	0 MICHIGAN AVENUE BUFFALO, N 1 0 TEL.(1) 1 1	0 MICHIGAN AVENUE BUFFALO, N 1 0 TEL.(1) 1 0 0

APPENDI F – List of N S DEC Re ional Offices

Appendix E

Infiltration Maintenance & Installation

Drywell Installation:

1. Lay out lengths of 6-inch-diameter PVC pipe from the end of the downspout out to the dry-well location. Start with two 10-foot lengths of standard pipe.

2. Dig along each side of the standard pipe. Cut into the soil about 2 inches from either side of the pipe.

3. Set the standard pipes into the trench and use a 4-foot level to ensure they pitch about 1/4 inch per foot toward the dry well.

4. Connect the standard PVC pipe to the end of the downspout with a PVC 90 degree elbow and downspout adapter fitting.

5. Backfill around all pipes with soil dug from the trenches.

6. Line the dry-well hole with landscape fabric (filter fabric), then pour 4 to 6 inches of stone into the bottom of the hole. Spread the stone level.

7. Place the dry well in the hole, making sure the end of the pipe extends into the dry well.

8. Backfill around the dry well with the required stone envelope.

9. Set the plastic cover or metal as specified on plan onto the dry well and tap it down with a rubber mallet.

10. Cover the dry well with soil or expose as indicated on plans.

11. Rake the area over the dry well level, then plant grass seed.

Maintenance:

Drywells must be inspected twice yearly or after a major rain event. An accumulated sediment must be removed. If there is any evidence that they are not working properly, they must be repaired as needed.

Appendix F

Soil Erosion Measures Cut Sheets

STANDARD AND SPECIFICATIONS FOR CONSTRUCTION ROAD STABILIZATION



Definition & Scope

The stabilization of temporary construction access routes, on-site vehicle transportation routes, and construction parking areas to control erosion on temporary construction routes and parking areas.

Conditions Where Practice Applies

All traffic routes and parking areas for temporary use by construction traffic.

Design Criteria

Construction roads should be located to reduce erosion potential, minimize impact on existing site resources, and maintain operations in a safe manner. Highly erosive soils, wet or rocky areas, and steep slopes should be avoided. Roads should be routed where seasonal water tables are deeper than 18 inches. Surface runoff and control should be in accordance with other standards.

Road Grade – A maximum grade of 12% is recommended, although grades up to 15% are possible for short distances.

Road Width - 12 foot minimum for one-way traffic or 24 foot minimum for two-way traffic.

Side Slope of Road Embankment - 2:1 or flatter.

Ditch Capacity – On-site roadside ditch and culvert capacities shall be the 10 yr. peak runoff.

New York State Standards and Specifications For Erosion and Sediment Control **Composition** – Use a 6-inch layer of NYS DOT sub-base Types 1,2,3, 4 or equivalent as specified in NYSDOT Standard Specifications.

Construction Specifications

1. Clear and strip roadbed and parking areas of all vegetation, roots, and other objectionable material.

2. Locate parking areas on naturally flat areas as available. Keep grades sufficient for drainage, but not more than 2 to 3 percent.

3. Provide surface drainage and divert excess runoff to stabilized areas.

4. Maintain cut and fill slopes to 2:1 or flatter and stabilized with vegetation as soon as grading is accomplished.

5. Spread 6-inch layer of sub-base material evenly over the full width of the road and smooth to avoid depressions.

6. Provide appropriate sediment control measures to prevent offsite sedimentation.

<u>Maintenance</u>

Inspect construction roads and parking areas periodically for condition of surface. Top dress with new gravel as needed. Check ditches for erosion and sedimentation after rainfall events. Maintain vegetation in a healthy, vigorous condition. Areas producing sediment should be treated immediately.

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STANDARD AND SPECIFICATIONS FOR CONCRETE TRUCK WASHOUT



Definition & Scope

A temporary excavated or above ground lined constructed pit where concrete truck mixers and equipment can be washed after their loads have been discharged, to prevent highly alkaline runoff from entering storm drainage systems or leaching into soil.

Conditions Where Practice Applies

Washout facilities shall be provided for every project where concrete will be poured or otherwise formed on the site. This facility will receive highly alkaline wash water from the cleaning of chutes, mixers, hoppers, vibrators, placing equipment, trowels, and screeds. Under no circumstances will wash water from these operations be allowed to infiltrate into the soil or enter surface waters.

Design Criteria

Capacity: The washout facility should be sized to contain solids, wash water, and rainfall and sized to allow for the evaporation of the wash water and rainfall. Wash water shall be estimated at 7 gallons per chute and 50 gallons per hopper of the concrete pump truck and/or discharging drum. The minimum size shall be 8 feet by 8 feet at the bottom and 2 feet deep. If excavated, the side slopes shall be 2 horizontal to 1 vertical.

Location: Locate the facility a minimum of 100 feet from drainage swales, storm drain inlets, wetlands, streams and other surface waters. Prevent surface water from entering the structure except for the access road. Provide appropriate access with a gravel access road sloped down to the structure. Signs shall be placed to direct drivers to the facility after their load is discharged.

Liner: All washout facilities will be lined to prevent

leaching of liquids into the ground. The liner shall be plastic sheeting with a minimum thickness of 10 mils with no holes or tears, and anchored beyond the top of the pit with an earthen berm, sand bags, stone, or other structural appurtenance except at the access point.

If pre-fabricated washouts are used they must ensure the capture and containment of the concrete wash and be sized based on the expected frequency of concrete pours. They shall be sited as noted in the location criteria.

Maintenance

- All concrete washout facilities shall be inspected daily. Damaged or leaking facilities shall be deactivated and repaired or replaced immediately. Excess rainwater that has accumulated over hardened concrete should be pumped to a stabilized area, such as a grass filter strip.
- Accumulated hardened material shall be removed when 75% of the storage capacity of the structure is filled. Any excess wash water shall be pumped into a containment vessel and properly disposed of off site.
- Dispose of the hardened material off-site in a construction/demolition landfill. On-site disposal may be allowed if this has been approved and accepted as part of the projects SWPPP. In that case, the material should be recycled as specified, or buried and covered with a minimum of 2 feet of clean compacted earthfill that is permanently stabilized to prevent erosion.
- The plastic liner shall be replaced with each cleaning of the washout facility.
- Inspect the project site frequently to ensure that no concrete discharges are taking place in non-designated areas.

STANDARD AND SPECIFICATIONS FOR DUST CONTROL



Definition & Scope

The control of dust resulting from land-disturbing activities, to prevent surface and air movement of dust from disturbed soil surfaces that may cause off-site damage, health hazards, and traffic safety problems.

Conditions Where Practice Applies

On construction roads, access points, and other disturbed areas subject to surface dust movement and dust blowing where off-site damage may occur if dust is not controlled.

Design Criteria

Construction operations should be scheduled to minimize the amount of area disturbed at one time. Buffer areas of vegetation should be left where practical. Temporary or permanent stabilization measures shall be installed. No specific design criteria is given; see construction specifications below for common methods of dust control.

Water quality must be considered when materials are selected for dust control. Where there is a potential for the material to wash off to a stream, ingredient information must be provided to the NYSDEC.

No polymer application shall take place without written approval from the NYSDEC.

Construction Specifications

A. Non-driving Areas – These areas use products and materials applied or placed on soil surfaces to prevent airborne migration of soil particles.

Vegetative Cover – For disturbed areas not subject to traffic, vegetation provides the most practical method of

dust control (see Section 3).

Mulch (including gravel mulch) – Mulch offers a fast effective means of controlling dust. This can also include rolled erosion control blankets.

Spray adhesives – These are products generally composed of polymers in a liquid or solid form that are mixed with water to form an emulsion that is sprayed on the soil surface with typical hydroseeding equipment. The mixing ratios and application rates will be in accordance with the manufacturer's recommendations for the specific soils on the site. In no case should the application of these adhesives be made on wet soils or if there is a probability of precipitation within 48 hours of its proposed use. Material Safety Data Sheets will be provided to all applicators and others working with the material.

B. Driving Areas – These areas utilize water, polymer emulsions, and barriers to prevent dust movement from the traffic surface into the air.

Sprinkling – The site may be sprayed with water until the surface is wet. This is especially effective on haul roads and access route to provide short term limited dust control.

Polymer Additives – These polymers are mixed with water and applied to the driving surface by a water truck with a gravity feed drip bar, spray bar or automated distributor truck. The mixing ratios and application rates will be in accordance with the manufacturer's recommendations. Incorporation of the emulsion into the soil will be done to the appropriate depth based on expected traffic. Compaction after incorporation will be by vibratory roller to a minimum of 95%. The prepared surface shall be moist and no application of the polymer will be made if there is a probability of precipitation within 48 hours of its proposed use. Material Safety Data Sheets will be provided to all applicators working with the material.

Barriers – Woven geo-textiles can be placed on the driving surface to effectively reduce dust throw and particle migration on haul roads. Stone can also be used for construction roads for effective dust control.

Windbreak – A silt fence or similar barrier can control air currents at intervals equal to ten times the barrier height. Preserve existing wind barrier vegetation as much as practical.

<u>Maintenance</u>

Maintain dust control measures through dry weather periods until all disturbed areas are stabilized.

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STANDARD AND SPECIFICATIONS FOR PROTECTING VEGETATION DURING CONSTRUCTION



Definition & Scope

The protection of trees, shrubs, ground cover and other vegetation from damage by construction equipment. In order to preserve existing vegetation determined to be important for soil erosion control, water quality protection, shade, screening, buffers, wildlife habitat, wetland protection, and other values.

Conditions Where Practices Applies

On planned construction sites where valued vegetation exists and needs to be preserved.

Design Criteria

- 1. Planning Considerations
 - A. Inventory:

1) Property boundaries, topography, vegetation and soils information should be gathered. Identify potentially high erosion areas, areas with tree windthrow potential, etc. A vegetative cover type map should be made on a copy of a topographic map which shows other natural and manmade features. Vegetation that is desirable to preserve because of its value for screening, shade, critical erosion control, endangered species, aesthetics, etc., should be identified and marked on the map.

2) Based upon this data, general statements should be prepared about the present condition, potential problem areas, and unique features of the property.

B. Planning:

1) After engineering plans (plot maps) are prepared, another field review should take place and

recommendations made for the vegetation to be saved. Minor adjustments in location of roads, dwellings, and utilities may be needed. Construction on steep slopes, erodible soils, wetlands, and streams should be avoided. Clearing limits should be delineated (See "Determine Limits of Clearing and Grading" on page 2.2).

2) Areas to be seeded and planted should be identified. Remaining vegetation should blend with their surroundings and/or provide special function such as a filter strip, buffer zone, or screen.

3) Trees and shrubs of special seasonal interest, such as flowering dogwood, red maple, striped maple, serviceberry, or shadbush, and valuable potential shade trees should be identified and marked for special protective treatment as appropriate.

4) Trees to be cut should be marked on the plans. If timber can be removed for salable products, a forester should be consulted for marketing advice.

5) Trees that may become a hazard to people, personal property, or utilities should be removed. These include trees that are weak-wooded, disease-prone, subject to windthrow, or those that have severely damaged root systems.

6) The vigor of remaining trees may be improved by a selective thinning. A forester should be consulted for implementing this practice.

2. Measures to Protect Vegetation

A. Limit soil placement over existing tree and shrub roots to a maximum of 3 inches. Soils with loamy texture and good structure should be used.

B. Use retaining walls and terraces to protect roots of trees and shrubs when grades are lowered. Lowered grades should start no closer than the dripline of the tree. For narrow-canopied trees and shrubs, the stem diameter in inches is converted to feet and doubled, such that a 10 inch tree should be protected to 20 feet.

C. Trenching across tree root systems should be the same minimum distance from the trunk, as in "B". Tunnels under root systems for underground utilities should start 18 inches or deeper below the normal ground surface. Tree roots which must be severed should be cut clean. Backfill material that will be in contact with the roots should be topsoil or a prepared planting soil mixture.

D. Construct sturdy fences, or barriers, of wood, steel, or other protective material around valuable

vegetation for protection from construction equipment. Place barriers far enough away from trees, but not less than the specifications in "B", so that tall equipment such as backhoes and dump trucks do not contact tree branches.

E. Construction limits should be identified and clearly marked to exclude equipment.

F. Avoid spills of oil/gas and other contaminants.

G. Obstructive and broken branches should be pruned properly. The branch collar on all branches whether living or dead should not be damaged. The 3 or 4 cut method should be used on all branches larger than two inches at the cut. First cut about one-third the way through the underside of the limb (about 6-12 inches from the tree trunk). Then (approximately an inch further out) make a second cut through the limb from the upper side. When the branch is removed, there is no splintering of the main tree trunk. Remove the stub. If the branch is larger than 5-6 inches in diameter, use the four cut system. Cuts 1 and 2 remain the same and cut 3 should be from the underside of the limb, on the outside of the branch collar. Cut 4 should be from the top and in alignment with the 3rd cut. Cut 3 should be 1/4 to 1/3 the way through the limb. This will prevent the bark from peeling down the trunk. Do not paint the cut surface.

H. Penalties for damage to valuable trees, shrubs, and herbaceous plants should be clearly spelled out in the contract.

PROTECTING TREES IN HEAVY USE AREAS

The compaction of soil over the roots of trees and shrubs by the trampling of recreationists, vehicular traffic, etc., reduces oxygen, water, and nutrient uptake by feeder roots. This weakens and may eventually kill the plants. Table 2.6 rates the "Susceptibility of Tree Species to Compaction."

Where heavy compaction is anticipated, apply and maintain a 3 to 4 inch layer of undecayed wood chips or 2 inches of No. 2 washed, crushed gravel. In addition, use of a wooden or plastic mat may be used to lessen compaction, if applicable.

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Table 2.6Susceptibility of Tree Species to Compaction1

Resistant:

Box elder Green ash Red elm Hawthornes Bur oak Northern white cedar	Acer negundo Fraxinus pennsylvanica Ulmus rubra Crataegus spp. Quercus macrocarpa Thuia occidentalis	Willows Honey locust Eastern cottonwood Swamp white oak Hophornbeam	Salix spp. Gleditsia triacanthos Populus deltoides Quercus bicolor Ostrya virginiana
Normern white cedar	1 nuja occidentalis		

Intermediate:

Red mapleAcer ofSilver mapleAcer ofHackberryCeltisBlack gumNyssaRed oakQuerceBasswoodTilia de	rubrumSweetgumsaccharinumNorway maploccidentalisShagbark hiclsylvaticaLondon planecus rubraPin oakamericanaShagbark hicl	Liquidambar styraciflua e Acer platanoides cory Carya ovata Platanus x hybrida Quercus palustris
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Susceptible:

Sugar maple	Acer saccharum
White pine	Pinus strobus
Blue spruce	Picea pungens
White oak	Quercus alba
Red pine	Pinus resinosa

Austrian Pine	Pinus nigra
White ash	Fraxinus americana
Paper birch	Betula papyrifera
Moutain ash	Sorbus aucuparia
Japanese maple	Acer palmatum

¹ If a tree species does not appear on the list, insufficient information is available to rate it for this purpose.

STANDARD AND SPECIFICATIONS FOR SITE POLLUTION PREVENTION



Definition & Scope

A collection of management practices intended to control non-sediment pollutants associated with construction activities to prevent the generation of pollutants due to improper handling, storage, and spills and prevent the movement of toxic substances from the site into surface waters.

Conditions Where Practice Applies

On all construction sites where the earth disturbance exceeds 5,000 square feet, and involves the use of fertilizers, pesticides, petroleum based chemicals, fuels and lubricants, as well as sealers, paints, cleared woody vegetation, garbage, and sanitary wastes.

Design Criteria

The variety of pollutants on a particular site and the severity of their impacts depend on factors such as the nature of the construction activity, the physical characteristics of the construction site, and the proximity of water bodies and conveyances to the pollutant source.

1. All state and federal regulations shall be followed for the storage, handling, application, usage, and disposal of pesticides, fertilizers, and petroleum products.

2. Vehicle and construction equipment staging and maintenance areas will be located away from all drainage ways with their parking areas graded so the runoff from these areas is collected, contained and treated prior to discharge from the site.

3. Provide sanitary facilities for on-site personnel.

4. Store, cover, and isolate construction materials including topsoil, and chemicals, to prevent runoff of



pollutants and contamination of groundwater and surface waters.

5. Develop and implement a spill prevention and control plan. The plan should include NYSDEC's spill reporting and initial notification requirements.

6. Provide adequate disposal for solid waste including woody debris, stumps, and other construction waste and include these methods and directions in the construction details on the site construction drawings. Fill, woody debris, stumps and construction waste shall not be placed in regulated wetlands, streams or other surface waters.

7. Distribute or post informational material regarding proper handling, spill response, spill kit location, and emergency actions to be taken, to all construction personnel.

8. Refueling equipment shall be located at least 100 feet from all wetlands, streams and other surface waters.



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STANDARD AND SPECIFICATIONS FOR STABILIZED CONSTRUCTION ACCESS



Definition & Scope

A stabilized pad of aggregate underlain with geotextile located at any point where traffic will be entering or leaving a construction site to or from a public right-of-way, street, alley, sidewalk, or parking area. The purpose of stabilized construction access is to reduce or eliminate the tracking of sediment onto public rights-of-way or streets.

<u>Conditions Where Practice Applies</u>

A stabilized construction access shall be used at all points of construction ingress and egress.

Design Criteria

See Figure 2.1 on page 2.31 for details.

Aggregate Size: Use a matrix of 1-4 inch stone, or reclaimed or recycled concrete equivalent.

Thickness: Not less than six (6) inches.

Width: 12-foot minimum but not less than the full width of points where ingress or egress occurs. 24-foot minimum if there is only one access to the site.

Length: As required, but not less than 50 feet (except on a single residence lot where a 30 foot minimum would apply).

Geotextile: To be placed over the entire area to be covered with aggregate. Filter cloth will not be required on a singlefamily residence lot. Piping of surface water under entrance shall be provided as required. If piping is impossible, a mountable berm with 5:1 slopes will be permitted.

Criteria for Geotextile: The geotextile shall be woven or nonwoven fabric consisting only of continuous chain polymeric filaments or yarns of polyester. The fabric shall be inert to commonly encountered chemicals, hydro-carbons, mildew, rot resistant, and conform to the fabric properties as shown:

Fabric Proper- ties ¹	Light Duty ¹ Ronds Grade Sub- grade	Heavy Duty ¹ Haul Roads Rough Graded	Test Meth
Grab Tensile Strength (lbs)	200	220	ASTM D1682
Elongation at Failure (%)	50	60	ASTM D1682
Mullen Burst Strength (lbs)	190	430	ASTM D3786
Puncture Strength (lbs)	40	125	ASTM D751 Modified
Equivalent	40-80	40-80	US Std Sieve
Opening Size			CW-02215
Aggregate Depth	6	10	-

¹Light Duty Road: Area sites that have been graded to subgrade and where most travel would be single axle vehicles and an occasional multiaxle truck. Acceptable materials are Trevira Spunbond 1115, Mirafi 100X, Typar 3401, or equivalent.

²Heavy Duty Road: Area sites with only rough grading, and where most travel would be multi-axle vehicles. Acceptable materials are Trevira Spunbond 1135, Mirafi 600X, or equivalent.

³Fabrics not meeting these specifications may be used only when design procedure and supporting documentation are supplied to determine aggregate depth and fabric strength.

Maintenance

The access shall be maintained in a condition which will prevent tracking of sediment onto public rights-of-way or streets. This may require periodic top dressing with additional aggregate. All sediment spilled, dropped, or washed onto public rights-of-way must be removed immediately.

When necessary, wheels must be cleaned to remove sediment prior to entrance onto public rights-of-way. When washing is required, it shall be done on an area stabilized with aggregate, which drains into an approved sedimenttrapping device. All sediment shall be prevented from entering storm drains, ditches, or watercourses.

Figure 2.1 Stabilized Construction Access



STANDARD AND SPECIFICATIONS FOR WINTER STABILIZATION



Definition & Scope

A temporary site specific, enhanced erosion and sediment control plan to manage runoff and sediment at the site during construction activities in the winter months to protect off-site water resources.

Conditions Where Practice Applies

This standard applies to all construction activities involved with ongoing land disturbance and exposure between November 15th to the following April 1st.

Design Criteria

- 1. Prepare a snow management plan with adequate storage for snow and control of melt water, requiring cleared snow to be stored in a manner not affecting ongoing construction activities.
- 2. Enlarge and stabilize access points to provide for snow management and stockpiling. Snow management activities must not destroy or degrade installed erosion and sediment control practices.
- 3. A minimum 25 foot buffer shall be maintained from all perimeter controls such as silt fence. Mark silt fence with tall stakes that are visible above the snow pack.
- 4. Edges of disturbed areas that drain to a waterbody within 100 feet will have 2 rows of silt fence, 5 feet apart, installed on the contour.
- 5. Drainage structures must be kept open and free of snow and ice dams. All debris, ice dams, or debris from plowing operations, that restrict the flow of runoff and meltwater, shall be removed.
- 6. Sediment barriers must be installed at all appropriate

perimeter and sensitive locations. Silt fence and other practices requiring earth disturbance must be installed before the ground freezes.

- 7. Soil stockpiles must be protected by the use of established vegetation, anchored straw mulch, rolled stabilization matting, or other durable covering. A barrier must be installed at least 15 feet from the toe of the stockpile to prevent soil migration and to capture loose soil.
- 8. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures should be initiated by the end of the next business day and completed within three (3) days. Rolled erosion control blankets must be used on all slopes 3 horizontal to 1 vertical or steeper.
- 9. If straw mulch alone is used for temporary stabilization, it shall be applied at double the standard rate of 2 tons per acre, making the application rate 4 tons per acre. Other manufactured mulches should be applied at double the manufacturer's recommended rate.
- 10. To ensure adequate stabilization of disturbed soil in advance of a melt event, areas of disturbed soil should be stabilized at the end of each work day unless:
 - a. work will resume within 24 hours in the same area and no precipitation is forecast or;
 - b. the work is in disturbed areas that collect and retain runoff, such as open utility trenches, foundation excavations, or water management areas.
- 11. Use stone paths to stabilize access perimeters of buildings under construction and areas where construction vehicle traffic is anticipated. Stone paths should be a minimum 10 feet in width but wider as necessary to accommodate equipment.

Maintenance

The site shall be inspected frequently to ensure that the erosion and sediment control plan is performing its winter stabilization function. If the site will not have earth disturbing activities ongoing during the "winter season", all bare exposed soil must be stabilized by established vegetation, straw or other acceptable mulch, matting, rock, or other approved material such as rolled erosion control products. Seeding of areas with mulch cover is preferred but seeding alone is not acceptable for proper stabilization.

Compliance inspections must be performed and reports filed properly in accordance with the SWPPP for all sites under a winter shutdown.

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References

- 1. Northeastern Illinois Soil and Sedimentation Control Steering Committee. October 1981. Procedures and Standards for Urban Soil Erosion and Sediment Control in Illinois.
- J.F. Rushing, V.M. Moore, J.S. Tingle, Q. Mason, and T. McCaffery, 2005. Dust Abatement Methods for Lines of Communication and Base Camps in Temperate Climates. ERDC/GSL TR-05-23, October 2005.

STANDARD AND SPECIFICATIONS FOR MULCHING



Definition and Scope

Applying coarse plant residue or chips, or other suitable materials, to cover the soil surface to provide initial erosion control while a seeding or shrub planting is establishing. Mulch will conserve moisture and modify the surface soil temperature and reduce fluctuation of both. Mulch will prevent soil surface crusting and aid in weed control. Mulch can also be used alone for temporary stabilization in nongrowing months. Use of stone as a mulch could be more permanent and should not be limited to non-growing months.

Conditions Where Practice Applies

On soils subject to erosion and on new seedings and shrub plantings. Mulch is useful on soils with low infiltration rates by retarding runoff.

Criteria

Site preparation prior to mulching requires the installation of necessary erosion control or water management practices and drainage systems.

Slope, grade and smooth the site to fit needs of selected mulch products.

Remove all undesirable stones and other debris to meet the needs of the anticipated land use and maintenance required.

Apply mulch after soil amendments and planting is accomplished or simultaneously if hydroseeding is used.

Select appropriate mulch material and application rate or material needs. Hay mulch shall not be used in wetlands or in areas of permanent seeding. Clean straw mulch is preferred alternative in wetland application. Determine local availability.

Select appropriate mulch anchoring material.

NOTE: The best combination for grass/legume establishment is straw (cereal grain) mulch applied at 2 ton/ acre (90 lbs./1000sq.ft.) and anchored with wood fiber mulch (hydromulch) at 500 - 750 lbs./acre (11 - 17 lbs./1000 sq. ft.). The wood fiber mulch must be applied through a hydroseeder immediately after mulching.



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Mulch Material	Quality Standards	per 1000 Sq. Ft.	per Atte	Depth of Application	Remarks
Wood chips or shavings	Air-dried. Free of objectionable coarse material	500-900 Ibs.	10-20 tons	2-7"	Used primarily around shrub and tree plantings and recreation trails to inhibit weed competition. Resistant to wind blowing. Decomposes slowly.
Wood fiber cellulose (partly digested wood fibers)	Made from natural wood usually with green dye and dispersing agent	50 lbs.	2,000 lbs.	ļ	Apply with hydromulcher. No tie down required. Less erosion control provided than 2 tons of hay or straw.
Gravel, Crushed Stone or Slag	Washed; Size 2B or 3A—1 1/2"	9 cu. yds.	405 cu. yds.	3"	Excellent mulch for short slopes and around plants and ornamentals. Use 2B where subject to traffic. (Approximately 2,000 lbs./cu. yd.). Frequently used over filter fabric for better weed control.
Hay or Straw	Air-dried; free of undesirable seeds & coarse materials	90-100 Ibs. 2-3 bales	2 tons (100- 120 bales)	cover about 90% surface	Use small grain straw where mulch is maintained for more than three months. Subject to wind blowing unless anchored. Most commonly used mulching material. Provides the best micro-environment for germinating seeds.
Jute twisted yam	Undyed, unbleached plain weave. Warp 78 ends/yd., Weft 41 ends/ yd. 60-90 lbs./roll	48" x 50 yds. or 48" x 75 yds.			Use without additional mulch. Tie down as per manufacturers specifications. Good for center line of concentrated water flow.
Excelsior wood fiber mats	Interlocking web of excelsior fibers with photodegradable plastic netting	4' x 112.5' or 8' x 112.5'			Use without additional mulch. Excellent for seeding establishment. Anchor as per manufacturers specifications. Approximately 72 lbs./roll for excelsior with plastic on both sides. Use two sided plastic for centerline of waterways.
Straw or coconut fiber, or combination	Photodegradable plastic net on one or two sides	Most are 6.5 ft. x 3.5 ft.	81 rolls		Designed to tolerate higher velocity water flow, centerlines of waterways, 60 sq. yds. per roll.

Table 4.2Guide to Mulch Materials, Rates, and Uses

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Table 4.3Mulch Anchoring Guide

Anchoring Method or Material	Kind of Mulch to be Anchored	How to Apply
1. Peg and Twine	Hay or straw	After mulching, divide areas into blocks approximately 1 sq. yd. in size. Drive 4-6 pegs per block to within 2" to 3" of soil surface. Secure mulch to surface by stretching twine between pegs in criss-cross pattern on each block. Secure twine around each peg with 2 or more tight turns. Drive pegs flush with soil. Driving stakes into ground tightens the twine.
2. Mulch netting	Hay or straw	Staple the light-weight paper, jute, wood fiber, or plastic nettings to soil surface according to manufacturer's recommendations. Should be biodegradable. Most products are not suitable for foot traffic.
3. Wood cellulose fiber	Hay or straw	Apply with hydroseeder immediately after mulching. Use 500 lbs. wood fiber per acre. Some products contain an adhesive material ("tackifier"), possibly advantageous.
4. Mulch anchoring tool	Hay or straw	Apply mulch and pull a mulch anchoring tool (blunt, straight discs) over mulch as near to the contour as possible. Mulch material should be "tucked" into soil surface about 3".
5. Tackifier	Hay or straw	Mix and apply polymeric and gum tackifiers according to manufacturer's instructions. Avoid application during rain. A 24-hour curing period and a soil temperature higher than 45 ⁰ Fahrenheit are required.

STANDARD AND SPECIFICATIONS FOR PERMANENT CONSTRUCTION AREA PLANTING



Definition & Scope

Establishing **permanent** grasses with other forbs and/or shrubs to provide a minimum 80% perennial vegetative cover on areas disturbed by construction and critical areas to reduce erosion and sediment transport. Critical areas may include but are not limited to steep excavated cut or fill slopes as well as eroding or denuded natural slopes and areas subject to erosion.

Conditions Where Practice Applies

This practice applies to all disturbed areas void of, or having insufficient, cover to prevent erosion and sediment transport. See additional standards for special situations such as sand dunes and sand and gravel pits.

Criteria

All water control measures will be installed as needed prior to final grading and seedbed preparation. Any severely compacted sections will require chiseling or disking to provide an adequate rooting zone, to a minimum depth of 12", see Soil Restoration Standard. The seedbed must be prepared to allow good soil to seed contact, with the soil not too soft and not too compact. Adequate soil moisture must be present to accomplish this. If surface is powder dry or sticky wet, postpone operations until moisture changes to a favorable condition. If seeding is accomplished within 24 hours of final grading, additional scarification is generally not needed, especially on ditch or stream banks. Remove all stones and other debris from the surface that are greater than 4 inches, or that will interfere with future mowing or maintenance.

Soil amendments should be incorporated into the upper 2 inches of soil when feasible. The soil should be tested to determine the amounts of amendments needed. Apply

ground agricultural limestone to attain a pH of 6.0 in the upper 2 inches of soil. If soil must be fertilized before results of a soil test can be obtained to determine fertilizer needs, apply commercial fertilizer at 600 lbs. per acre of 5-5 -10 or equivalent. If manure is used, apply a quantity to meet the nutrients of the above fertilizer. This requires an appropriate manure analysis prior to applying to the site. Do not use manure on sites to be planted with birdsfoot trefoil or in the path of concentrated water flow.

Seed mixtures may vary depending on location within the state and time of seeding. Generally, warm season grasses should only be seeded during early spring, April to May. These grasses are primarily used for vegetating excessively drained sands and gravels. See Standard and Specification for Sand and Gravel Mine Reclamation. Other grasses may be seeded any time of the year when the soil is not frozen and is workable. When legumes such as birdsfoot trefoil are included, spring seeding is preferred. See Table 4.4, "Permanent Construction Area Planting Mixture Recommendations" for additional seed mixtures.

General Seed Mix:	Variety	lbs./ acre	lbs/1000 sq. ft.
Red Clover ¹ <u>OR</u>	Acclaim, Rally, Red Head II, Renegade	8 ²	0.20
Common white clover ¹	Common	8	0.20
PLUS			
Creeping Red Fescue	Common	20	0.45
PLUS			
Smooth Bromegrass <u>OR</u>	Common	2	0.05
Ryegrass (perennial)	Pennfine/Linn	5	0.10
¹ add inoculant immediately prior to seeding ² Mix 4 lbs each of Empire and Pardee OR 4 lbs of Birdsfoot and 4 lbs white clover per acre. All seeding rates are given for Pure Live Seed (PLS)			

Pure Live Seed, or (PLS) refers to the amount of live seed in a lot of bulk seed. Information on the seed bag label includes the type of seed, supplier, test date, source of seed, purity, and germination. Purity is the percentage of pure seed. Germination is the percentage of pure seed that will produce normal plants when planted under favorable conditions. To compute Pure Live Seed multiply the "germination percent" times the "purity" and divide that by 100 to get Pure Live Seed.

$Pure Live Sced(PLS) = \frac{\% \text{Germination} \times \% \text{Purity}}{100}$

For example, the PLS for a lot of Kentucky Blue grass with 75% purity and 96% germination would be calculated as follows:

$$\frac{(96) \times (75)}{100} = 72\%$$
 Pure Live Seed

For 10lbs of PLS from this lot =

$$\frac{10}{0.72}$$
=13.9 lb

Therefore, 13.9 lbs of seed is the actual weight needed to meet 10lbs PSL from this specific seed lot.

<u>Time of Seeding</u>: The optimum timing for the general seed mixture is early spring. Permanent seedings may be made any time of year if properly mulched and adequate moisture is provided. Late June through early August is not a good time to seed, but may facilitate covering the land without additional disturbance if construction is completed. Portions of the seeding may fail due to drought and heat. These areas may need reseeding in late summer/fall or the following spring.

<u>Method of seeding</u>: Broadcasting, drilling, cultipack type seeding, or hydroseeding are acceptable methods. Proper soil to seed contact is key to successful seedings.

<u>Mulching</u>: Mulching is essential to obtain a uniform stand of seeded plants. Optimum benefits of mulching new seedings are obtained with the use of small grain straw applied at a rate of 2 tons per acre, and anchored with a netting or tackifier. See the Standard and Specifications for Mulching for choices and requirements.

<u>Irrigation:</u> Watering may be essential to establish a new seeding when a drought condition occurs shortly after a new seeding emerges. Irrigation is a specialized practice and care must be taken not to exceed the application rate for the soil or subsoil. When disconnecting irrigation pipe, be sure pipes are drained in a safe manor, not creating an erosion concern.



80% Perennial Vegetative Cover



50% Perennial Vegetative Cover

Table 4.4 Permanent Construction Area Planting Mixture Recommendations

Seed Mixture	Variety	Rate in lbs./acre (PLS)	Rate in lbs./ 1, 000 ft ²
Mix #1			L
Creeping red fescue	Ensylva, Pennlawn, Boreal	10	.25
Perennial ryegrass	Pennfine, Linn	10	.25
*This mix is used extensively for	shaded areas.		
Mix #2			
Switchgrass	Shelter, Pathfinder, Trailblazer, or Blackwell	20	.50
*This rate is in pure live seed, this would be an excellent choice along the upland edge of a wetland to filter runoff and pro- vide wildlife benefits. In areas where erosion may be a problem, a companion seeding of sand lovegrass should be added to provide quick cover at a rate of 2 lbs. per acre (0.05 lbs. per 1000 sq. ft.).			
Mix #3			
Switchgrass	Shelter, Pathfinder, Trailblazer, or Blackwell	4	·.10
Big bluestem	Niagara	4	.10
Little bluestem Aldous or Camper 2 .05			
Indiangrass Rumsey 4 .10			
Coastal panicgrass	Atlantic	2	.05
Sideoats grama	El Reno or Trailway	2	.05
Wildflower mix		.50	.01
*This mix has been successful on sand and gravel plantings. It is very difficult to seed without a warm season grass seeder such as a Truax seed drill. Broadcasting this seed is very difficult due to the fluffy nature of some of the seed, such as bluestems and indiangrass.			
Mix #4			
Switchgrass	Shelter, Pathfinder, Trailblazer, or Blackwell	10	.25
Coastal panicgrass	Atlantic	10	·.25
This mix is salt tolerant, a good choice along the upland edge of tidal areas and roadsides.			
VIIx #5			
Saltmeadow cordgrass (Spartina patens)—This grass is used for tidal shoreline protection and tidal marsh restoration. It is planted by vegetative stem divisions.			
Cape' American beachgrass can be planted for sand dune stabilization above the saltmeadow cordgrass zone.			
ylix #6			
Creeping red fescue	Ensylva, Pennlawn, Boreal	20	.45
Chewings Fescue	Common	20	.45
Perennial ryegrass	Pennfine, Linn	5	.10
Red Clover	Common	10	.45
General purpose erosion control mix. Not to be used for a turf planting or play grounds.			
The second control and the control a curr planting of play grounds.			

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STANDARD AND SPECIFICATIONS FOR SOIL RESTORATION



Definition & Scope

The decompaction of areas of a development site or construction project where soils have been disturbed to recover the original properties and porosity of the soil; thus providing a sustainable growth medium for vegetation, reduction of runoff and filtering of pollutants from stormwater runoff.

Conditions Where Practice Applies

Soil restoration is to be applied to areas whose heavy construction traffic is done and final stabilization is to begin. This is generally applied in the cleanup, site restoration, and landscaping phase of construction followed by the permanent establishment of an appropriate ground cover to maintain the soil structure. Soil restoration measures should be applied over and adjacent to any runoff reduction practices to achieve design performance.



Design Criteria

1. Soil restoration areas will be designated on the plan views of areas to be disturbed.

2. Soil restoration will be completed in accordance with Table 4.6 on page 4.53.

Specification for Full Soil Restoration

During periods of relatively low to moderate subsoil moisture, the disturbed subsoils are returned to rough grade and the following Soil Restoration steps applied:

1. Apply 3 inches of compost over subsoil. The compost shall be well decomposed (matured at least 3 months). weed-free, organic matter. It shall be aerobically composted, possess no objectionable odors, and contain less than 1%, by dry weight, of man-made foreign matter. The physical parameters of the compost shall meet the standards listed in Table 5.2 - Compost Standards Table, except for "Particle Size" 100% will pass the 1/2" sieve. Note: All biosolids compost produced in New York State (or approved for importation) must meet NYS DEC's 6 NYCRR Part 360 (Solid Waste Management Facilities) requirements. The Part 360 requirements are equal to or more stringent than 40 CFR Part 503 which ensure safe standards for pathogen reduction and heavy metals content.



- 2. Till compost into subsoil to a depth of at least 12 inches using a cat-mounted ripper, tractor mounted disc, or tiller, to mix and circulate air and compost into the subsoil.
- 3. Rock-pick until uplifted stone/rock materials of four inches and larger size are cleaned off the site.
- 4. Apply topsoil to a depth of 6 inches.
- 5. Vegetate as required by the seeding plan. Use appropriate ground cover with deep roots to maintain the soil structure.
- 6. Topsoil may be manufactured as a mixture or a mineral component and organic material such as compost.

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At the end of the project an inspector should be able to push a 3/8" metal bar 12 inches into the soil just with body weight. This should not be performed within the drip line of any existing trees or over utility installations that are within 24 inches of the surface.

Maintenance

Keep the site free of vehicular and foot traffic or other weight loads. Consider pedestrian footpaths.

Table 4.6Soil Restoration Requirements

Type of Soil Disturbance	Soil Restoration Requirement		Comments/Examples
No soil disturbance	Restoration not permitted		Preservation of Natural Features
Minimal soil disturbance	Restoration not required		Clearing and grubbing
A reas where tonsoil is stringed only no	HSG A&B	HSG C&D	
change in grade	Apply 6 inches of topsoil Aerate* and app 6 inches of topsoil		Protect area from any ongoing construc- tion activities.
	HSG A&B	HSG C&D	
Areas of cut or fill	Aerate* and apply Apply full Soil 6 inches of topsoil Restoration**		
Heavy traffic areas on site (especially in a zone 5-25 feet around buildings but not within a 5 foot perimeter around foundation walls)	Apply full Soil Restoration (decompaction and compost enhance- ment)		
Areas where Runoff Reduction and/or Infiltration practices are applied	Restoration not required, but may be applied to enhance the reduction speci- fied for appropriate practices.		Keep construction equipment from crossing these areas. To protect newly installed practice from any ongoing construction activities construct a single phase operation fence area
Redevelopment projects	Soil Restoration is required on redevel- opment projects in areas where existing impervious area will be converted to pervious area.		
* Aeration includes the use of machines st roller with many spikes making indentatio	uch as tractor-drawn ns in the soil, or prop	implements with coungs which function li	lters making a narrow slit in the soil, a ke a mini-subsoiler.

** Per "Deep Ripping and De-compaction, DEC 2008".

STANDARD AND SPECIFICATIONS FOR STABILIZATION WITH SOD



Definition & Scope

Stabilizing restored, exposed soil surfaces by establishing long term stands of grass with sod to reduce damage from sediment and runoff to downstream areas and enhance natural beauty.

Conditions Where Practice Applies

On exposed soils that have a potential for causing off site environmental damage where a quick vegetative cover is desired. Moisture, either applied or natural, is essential to success.

Design Criteria

- Sod shall be bluegrass or a bluegrass/red fescue mixture or a perennial ryegrass for average sites. (CAUTION: Perennial ryegrass has limited cold tolerance and may winter kill.) Use turf type cultivars of tall fescue for shady, droughty, or otherwise more critical areas. For variety selection, contact Cornell Cooperative Extension Turf Specialist.
- 2. Sod shall be machine cut at a uniform soil thickness of 3/4 inch, plus or minus 1/4 inch. Measurement for thickness shall exclude top growth and thatch.
- 3. Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended vertically from a firm grasp on the upper 10 percent of the section.
- 4. Sod shall be free of weeds and undesirable coarse weedy grasses. Wild native or pasture grass sod shall not be used unless specified.
- 5. Sod shall not be harvested or transplanted when

moisture content (excessively dry or wet) may adversely affect its survival.

6. Sod shall be harvested, delivered, and installed within a period of 36 hours. Sod not transplanted within this period shall be inspected and approved by the contracting officer or his designated representative prior to its installation.

Site Preparation

Fertilizer and lime application rates shall be determined by soil tests. Under unusual circumstances where there is insufficient time for a complete soil test and the contracting officer agrees, fertilizer and lime materials may be applied in amounts shown in subsection 2 below. Slope land such as to provide good surface water drainage. Avoid depressions or pockets.

- 1. Prior to sodding, the surface shall be smoothed and cleared of all trash, debris, and of all roots, brush, wire, grade stakes and other objects that would interfere with planting, fertilizing or maintenance operations.
- 2. The soil should be tested to determine the amounts of amendments needed. Where the soil is acid or composed of heavy clays, ground limestone shall be spread to raise the pH to 6.5. If the soil must be fertilized before results of a soil test can be obtained to determine fertilizer needs, apply commercial fertilizer at 20 lbs. of 5-5-10 (or equivalent) and mix into the top 3 inches of soil with the required lime for every 1,000 square feet. Soil should be moist prior to sodding. Arrange for temporary storage of sod to keep it shaded and cool.

Sod Installation

- 1. For the operation of laying, tamping, and irrigating for any areas, sod shall be completed within eight hours. During periods of excessively high temperature, the soil shall be lightly moistened immediately prior to laying the sod.
- 2. The first row of sod shall be laid in a straight line with subsequent rows placed parallel to, and tightly wedged against, each other. Lateral joints shall be staggered to promote more uniform growth and strength. Ensure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause air drying of the roots. On sloping areas where erosion may be a problem, sod shall be laid with the long edges parallel to the contour and with

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staggered joints.

- 3. Secure the sod by tamping and pegging, or other approved methods. As sodding is completed in any one section, the entire area shall be rolled or tamped to ensure solid contact of roots with the soil surface.
- Sod shall be watered immediately after rolling or tamping until the underside of the new sod pad and soil surface below the sod are thoroughly wet. Keep sod moist for at least two weeks.

Sod Maintenance

1. In the absence of adequate rainfall, watering shall be performed daily, or as often as deemed necessary by the inspector, during the first week and in sufficient quantities to maintain moist soil to a depth of 4 inches. Watering should be done in the morning. Avoid excessive watering during applications.

2. After the first week, sod shall be watered as necessary to maintain adequate moisture and ensure establishment.

3. The first mowing should not be attempted until sod is firmly rooted. No more than 1/3 of the grass leaf shall be removed by the initial cutting or subsequent cuttings. Grass height shall be maintained between 2 and 3 inches unless otherwise specified. Avoid heavy mowing equipment for several weeks to prevent rutting.

4. If the soil must be fertilized before results of a soil test can be obtained to determine fertilizer needs, apply fertilizer three to four weeks after sodding, at a rate of 1 pound nitrogen/1,000 sq.ft. Use a complete fertilizer with a 2-1-1 ratio.

5. Weed Control: Target herbicides for weeds present. Consult current Cornell Pest Control Recommendations for Commercial Turfgrass Management or consult the local office of Cornell Cooperative Extension.

6. Disease Control: Consult the local office of the Cornell Cooperative Extension.

Additional References

1. Home Lawns, Establishment and Maintenance, CCE Information Bulletin 185, Revised November 1994. Cornell University, Ithaca, NY.

2. Installing a Sod Lawn. CCE Suffolk County, NY. Thomas Kowalsick February 1994, Revised January 1999. www.cce.cornell.edu/counties/suffolk/grownet

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STANDARD AND SPECIFICATIONS FOR TEMPORARY CONSTRUCTION AREA SEEDING



Definition & Scope

Providing temporary erosion control protection to disturbed areas and/or localized critical areas for an interim period by covering all bare ground that exists as a result of construction activities or a natural event. Critical areas may include but are not limited to steep excavated cut or fill slopes and any disturbed, denuded natural slopes subject to erosion.

Conditions Where Practice Applies

Temporary seedings may be necessary on construction sites to protect an area, or section, where final grading is complete, when preparing for winter work shutdown, or to provide cover when permanent seedings are likely to fail due to mid-summer heat and drought. The intent is to provide temporary protective cover during temporary shutdown of construction and/or while waiting for optimal planting time.

<u>Criteria</u>

Water management practices must be installed as appropriate for site conditions. The area must be rough graded and slopes physically stable. Large debris and rocks are usually removed. Seedbed must be seeded within 24 hours of disturbance or scarification of the soil surface will be necessary prior to seeding.

Fertilizer or lime are not typically used for temporary seedings.

IF: Spring or summer or early fall, then seed the area with ryegrass (annual or perennial) at 30 lbs. per acre (Approximately 0.7 lb./1000 sq. ft. or use 1 lb./1000 sq. ft.).

IF: Late fall or early winter, then seed Certified 'Aroostook' winter rye (cereal rye) at 100 lbs. per acre (2.5 lbs./1000 sq. ft.).

Any seeding method may be used that will provide uniform application of seed to the area and result in relatively good soil to seed contact.

Mulch the area with hay or straw at 2 tons/acre (approx. 90 lbs./1000 sq. ft. or 2 bales). Quality of hay or straw mulch allowable will be determined based on long term use and visual concerns. Mulch anchoring will be required where wind or areas of concentrated water are of concern. Wood fiber hydromulch or other sprayable products approved for erosion control (nylon web or mesh) may be used if applied according to manufacturers' specification. <u>Caution is</u> advised when using nylon or other synthetic products. They may be difficult to remove prior to final seeding and can be a hazard to young wildlife species.

STANDARD AND SPECIFICATIONS FOR TOPSOILING



Definition & Scope

Spreading a specified quality and quantity of topsoil materials on graded or constructed subsoil areas to provide acceptable plant cover growing conditions, thereby reducing erosion; to reduce irrigation water needs; and to reduce the need for nitrogen fertilizer application.

Conditions Where Practice Applies

Topsoil is applied to subsoils that are droughty (low available moisture for plants), stony, slowly permeable, salty or extremely acid. It is also used to backfill around shrub and tree transplants. This standard does not apply to wetland soils.

Design Criteria

- 1. Preserve existing topsoil in place where possible, thereby reducing the need for added topsoil.
- Conserve by stockpiling topsoil and friable fine textured subsoils that must be stripped from the excavated site and applied after final grading where vegetation will be established. Topsoil stockpiles must be stabilized. Stockpile surfaces can be stabilized by vegetation, geotextile or plastic covers. This can be aided by orientating the stockpile lengthwise into prevailing winds.
- 3. Refer to USDA Natural Resource Conservation Service soil surveys or soil interpretation record sheets for further soil texture information for selecting appropriate design topsoil depths.

Site Preparation

- 1. As needed, install erosion and sediment control practices such as diversions, channels, sediment traps, and stabilizing measures, or maintain if already installed.
- 2. Complete rough grading and final grade, allowing for depth of topsoil to be added.
- 3. Scarify all compact, slowly permeable, medium and fine textured subsoil areas. Scarify at approximately right angles to the slope direction in soil areas that are steeper than 5 percent. Areas that have been overly compacted shall be decompacted in accordance with the Soil Restoration Standard.
- 4. Remove refuse, woody plant parts, stones over 3 inches in diameter, and other litter.

Topsoil Materials

- 1. Topsoil shall have at least 6 percent by weight of fine textured stable organic material, and no greater than 20 percent. Muck soil shall not be considered topsoil.
- 2. Topsoil shall have not less than 20 percent fine textured material (passing the NO. 200 sieve) and not more than 15 percent clay.
- 3. Topsoil treated with soil sterilants or herbicides shall be so identified to the purchaser.
- 4. Topsoil shall be relatively free of stones over 1 1/2 inches in diameter, trash, noxious weeds such as nut sedge and quackgrass, and will have less than 10 percent gravel.
- 5. Topsoil containing soluble salts greater than 500 parts per million shall not be used.
- 6. Topsoil may be manufactured as a mixture of a mineral component and organic material such as compost.

Application and Grading

- 1. Topsoil shall be distributed to a uniform depth over the area. It shall not be placed when it is partly frozen, muddy, or on frozen slopes or over ice, snow, or standing water puddles.
- 2. Topsoil placed and graded on slopes steeper than 5 percent shall be promptly fertilized, seeded, mulched, and stabilized by "tracking" with suitable equipment.
- 3. Apply topsoil in the amounts shown in Table 4.7 below:

Table 4.7 - Topsoil Application Depth		
Site Conditions	Intended Use	Minimum Topsoil Depth
1. Deep sand or loamy sand	Mowed lawn	6 in.
	Tall legumes, unmowed	2 in.
	Tall grass, unmowed	1 in.
2. Deep sandy loam	Mowed lawn	5 in.
	Tall legumes, unmowed	2 in.
	Tall grass, unmowed	none
3. Six inches or more: silt loam, clay loam, loam, or silt	Mowed lawn	4 in.
	Tall legumes, unmowed	1 in.
	Tall grass, unmowed	1 in.

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STANDARD AND SPECIFICATIONS FOR TREES, SHRUBS, AND VINES



Definition & Scope

Establishing trees, shrubs, and vines or selectively reducing stand density and trimming woody plants to protect the soil and plant resources, improve an area for recreation and increase the attractiveness and usefulness of areas.

Conditions Where Practice Applies

On any area planned for recreation or landscape use such as yard areas, leisure areas, picnic areas, and park lands providing outdoor recreational opportunities.

Criteria and Specifications

- 1. Planting nursery stock
 - A. Select species to serve the intended purpose. See Appendix G, Table G.1, "Trees Suitable for Landscape and Conservation Plantings in New York." Where planting of trees is to be done in recreation areas, use those species resistant to compaction listed in Table G.2, "Susceptibility of Tree Species to Compaction" whenever possible.
 - B. Plant Materials

 Plants shall conform to the species, variety, size, number, and conditions as stated in a conservation plan or on a plant list shown on landscape drawings. "American Standard for Nursery Stock," by American Association of Nurserymen, shall be used to develop the plant list for landscape drawings and to check quality of plant materials.

2) Durable, legible labels with the scientific and common name and cultivar shall be securely

attached to plants, bundles of seedlings, containers, and/or flats.

C. Plant Protection

Prior to delivery, the trunk, branches, and foliage of the plants shall be sprayed with non-toxic antidesiccant, applied according to the manufacturer's recommendations. This does not apply to state nursery seedlings.

D. Planting Time

Deciduous trees and shrubs: April 1 to June 1 and October 15 to December 15. Evergreen trees and shrubs: April 1 to June 1 and September 1 to November 15.

E. Spacing

Plant all trees and shrubs well back from buildings to allow for mature crown size. The following are guides for planning:

Large Trees	50-60 feet apart
Small Trees	20-30 feet apart
Columnar Species	6-8 feet apart
Hedges	1-4 feet apart
Shrubs	For clumps, plan spacing so mature shrubs will be touching or overlap- ping by only 1 or 2 feet

F. Site Preparation

1) Individual sites for planting seedlings can be prepared by scalping the sod away from a four foot square area where the seedling is to be planted.

2) All planting beds shall be cultivated to a depth of 8 inches, or chemically treated for weed control. Remove objectionable objects that will interfere with maintenance of site.

G. Planting

1) Plants shall be located as shown on plans and/or drawings and, where necessary, located on the site by stakes, flags or other means.

2) Prior to planting, remove galvanized wire basket securing root ball, untie and roll down burlap covering from around the stem.
3) The plants shall be set upright in holes as illustrated in Figure G.1 in Appendix G.

4) All plants shall be thoroughly watered on the same day of planting. Plants that have settled shall be reset to grade.

H. Wrapping

Immediately after planting, wrap deciduous tree trunks from the bottom to the first limb with a 4 inch wide bituminous impregnated, insect resistant tape or paper manufactured for that purpose. Tie with jute (bag strings) at top and bottom. The wrap should be removed per nursery recommendations.

I. Mulching

Mulch the disturbed area around individual trees and shrubs with a 2-3" layer of wood chips. Pull wood chips 1 inch away from the base of shrubs to avoid fungus development.

J. Pruning

After planting, prune to remove injured twigs and branches. The natural shape of the plant should not be changed.

K. Cleanup and Maintenance

1) After all work is complete, all excess soil, peat moss, debris, etc., shall be removed from the site.

2) Water plants two weeks after planting. For two years, water plants every two weeks during dry periods, which exceed three weeks without a good soaking rain, or water as needed in accordance with local conditions. Shrubs may require 5 to 10 gallons and trees, 20 to 30 gallons for each watering.

3) Remove trunk wrap per nursery recommendation.

2. Transplanting "Wild" Stock

Successful transplanting of wild stock will require heavy equipment and considerable labor as a large weight of soil must be moved with the roots.

- A. Select trees and shrubs with good form and full crowns.
- B. Transplant only when plants are dormant and soil is moist. Wrap soil ball with burlap to prevent soil from separating from roots.
- C. Table 4.8 shows minimum diameter and

approximate weight of soil ball that must be moved with each size plant.

D. Plant and maintain as described above for nursery stock.

PRUNING AND THINNING

Use	Cleared Width Each Side of Trail Tread (ft.)	Cleared Height (ft.)
TRAILS		
Hiking	1	8
Bicycle	2	10
Motorbike	2	10
Horse	. 2	12
X-Country Ski	Total: 3-12	121
Snowmobile	Total: 6-12	12 ¹
PICNIC & CAN	IPING AREAS	
Campfire/Grill	10 ft. diam.	15
¹ Includes allowa	nce for snow depth and snow l	oad on branches

- 1. Pruning
 - A. Remove trees, limbs, and limb stubs to the above widths and heights specified for the intended use.
 - B. Remove dead, diseased, or dying limbs that may fall.
 - C. Do not remove more than one-third of the live crown of a tree in a year.
 - D. Cut limbs flush to the branch bark ridge.
 - E. Use the 3 or 4 cut pruning method on all branches over 2 inches in diameter: First cut about onethird the way through the underside of the limb (about 6-12 inches from the tree trunk). Then (approximately an inch further out) make a second cut through the limb from the upper side. When the branch is removed, there is no splintering of the main tree trunk. Remove the stub. If the branch is larger than 5-6 inches in diameter, use the four cut system. Cuts 1 and 2 remain the same and cut 3 should be from the underside of the limb, on the outside of the branch collar. Cut 4 should be from the top and in alignment with the 3rd cut. Cut 3 should be 1/4 to 1/3 the way through the limb. This will prevent the bark from peeling down the trunk. Do not paint the cut surface.

- 2. Thinning
 - A. Remove dead, diseased, dying, poorly anchored, or ice damaged trees that pose a hazard to recreationists or that interfere with intended use.
 - B. To maintain grass cover in a wooded area, thin according to formula Dx3 (average diameter of the trunk of overstory trees, in inches, times three—the answer is the spacing between trees to be left, in feet). For example, for trees with average diameter of 6 inches, spacing after thinning should leave trees 18 feet apart on average. Crown cover after thinning should be about 50 percent.
 - C. Selectively thin as needed to favor those trees that are most "resistant" to compaction around their roots. See Table G.2, "Susceptibility of Tree Species to Compaction" in Appendix G. If the soil on the site is naturally well drained, those species in the "intermediate" group may also be favored.

Table 4.8Size and Weight of Earth Ball Required to Transplant Wild Stock

Shade Trees (Maple, Ash, Oak, Birch, etc.)		Small Trees & Shrubs (Crabapple, Thornapple, Viburnum, Dogwood, etc. Up to 6 ft. Minimum		8	
				Dogwood, etc.)	
Caliper ¹ (Inches)	Diameter Ball (Inches)	Weight of Ball <u>(Ibs.)</u>	Height — 6 ft. and Caliper	Diameter Ball <u>(Inches)</u>	Weight of Ball (<u>Ibs.)</u>
1/2	14	88	2	12	55
3/4	16	130	3	14	88
Ì	18	186	4	16	130
1-1/4	20	227	5	18	186
1-1/2	22	302	3/4	18	186
1-3/4	24	390	1	20	227
2	28	621	1-1/2	22	302
3	32	836	1-3/4	24	390
3-1/2	38	1,400	2	28	621
4	42	1,887	2-1/2	32	836
	r . 201	· • • · · · · · · · · · · · · · · · · ·	1	18	1.400

Caliper is a diameter measurement of trees at a height of 6 inches above the ground.

STANDARD AND SPECIFICATIONS FOR SILT FENCE



Definition & Scope

A **temporary** barrier of geotextile fabric installed on the contours across a slope used to intercept sediment laden runoff from small drainage areas of disturbed soil by temporarily ponding the sediment laden runoff allowing settling to occur. The maximum period of use is limited by the ultraviolet stability of the fabric (approximately one year).

Conditions Where Practice Applies

A silt fence may be used subject to the following conditions:

- 1. Maximum allowable slope length and fence length will not exceed the limits shown in the Design Criteria for the specific type of silt fence used ; and
- 2. Maximum ponding depth of 1.5 feet behind the fence; and
- 3. Erosion would occur in the form of sheet erosion; and
- 4. There is no concentration of water flowing to the barrier; and
- 5. Soil conditions allow for proper keying of fabric, or other anchorage, to prevent blowouts.

Design Criteria

- 1. Design computations are not required for installations of 1 month or less. Longer installation periods should be designed for expected runoff.
- 2. All silt fences shall be placed as close to the disturbed area as possible, but at least 10 feet from the toe of a slope steeper than 3H:1V, to allow for maintenance and

roll down. The area beyond the fence must be undisturbed or stabilized.

3. The type of silt fence specified for each location on the plan shall not exceed the maximum slope length and maximum fence length requirements shown in the following table:

		Slope Length/Fence Length (ft.)			
Slope	Steepness	Standard	Reinforced	Super	
<2%	< 50:1	300/1500	N/A	N/A	
2-10%	50:1 to 10:1	125/1000	250/2000	300/2500	
10-20%	10:1 to 5:1	100/750	150/1000	200/1000	
20-33%	5:1 to 3:1	60/500	80/750	100/1000	
33-50%	3:1 to 2:1	40/250	70/350	100/500	
>50%	> 2:1	20/125	30/175	50/250	

Standard Silt Fence (SF) is fabric rolls stapled to wooden stakes driven 16 inches in the ground.

Reinforced Silt Fence (RSF) is fabric placed against welded wire fabric with anchored steel posts driven 16 inches in the ground.

Super Silt Fence (SSF) is fabric placed against chain link fence as support backing with posts driven 3 feet in the ground.

4. Silt fence shall be removed as soon as the disturbed area has achieved final stabilization.

The silt fence shall be installed in accordance with the appropriate details. Where ends of filter cloth come together, they shall be overlapped, folded and stapled to prevent sediment bypass. Butt joints are not acceptable. A detail of the silt fence shall be shown on the plan. See Figure 5.30 on page 5.56 for Reinforced Silt Fence as an example of details to be provided.

Criteria for Silt Fence Materials

1. Silt Fence Fabric: The fabric shall meet the following specifications unless otherwise approved by the appropriate erosion and sediment control plan approval authority. Such approval shall not constitute statewide acceptance.

Fabric Properties	Minimum Acceptable Value	Test Method
Grab Tensile Strength (lbs)	110	ASTM D 4632
Elongation at Failure (%)	20	ASTM D 4632
Mullen Burst Strength (PSI)	300	ASTM D 3786
Puncture Strength (lbs)	60	ASTM D 4833
Minimum Trapezoidal Tear Strength (lbs)	50	ASTM D 4533
Flow Through Rate (gal/ min/sf)	25	ASTM D 4491
Equivalent Opening Size	40-80	US Std Sieve ASTM D 4751
Minimum UV Residual (%)	70	ASTM D 4355

- 2. Fence Posts (for fabricated units): The length shall be a minimum of 36 inches long. Wood posts will be of sound quality hardwood with a minimum cross sectional area of 3.5 square inches. Steel posts will be standard T and U section weighing not less than 1.00 pound per linear foot. Posts for super silt fence shall be standard chain link fence posts.
- 3. Wire Fence for reinforced silt fence: Wire fencing shall be a minimum 14 gage with a maximum 6 in. mesh opening, or as approved.
- 4. Prefabricated silt fence is acceptable as long as all material specifications are met.

Reinforced Silt Fence



New York State Standards and Specifications For Erosion and Sediment Control





Figure 5.30 Reinforced Silt Fence



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New York State Standards and Specifica-For Erosion and Sediment Control

STANDARD AND SPECIFICATIONS FOR STORM DRAIN INLET PROTECTION



Definition & Scope

A **temporary** barrier with low permeability, installed around inlets in the form of a fence, berm or excavation around an opening, detaining water and thereby reducing the sediment content of sediment laden water by settling thus preventing heavily sediment laden water from entering a storm drain system.

Conditions Where Practice Applies

This practice shall be used where the drainage area to an inlet is disturbed, it is not possible to temporarily divert the storm drain outfall into a trapping device, and watertight blocking of inlets is not advisable. It is not to be used in place of sediment trapping devices. This practice shall be used with an upstream buffer strip if placed at a storm drain inlet on a paved surface. It may be used in conjunction with storm drain diversion to help prevent siltation of pipes installed with low slope angle.

Types of Storm Drain Inlet Practices

There are five (5) specific types of storm drain inlet protection practices that vary according to their function, location, drainage area, and availability of materials:

- I. Excavated Drop Inlet Protection
- II. Fabric Drop Inlet Protection
- III. Stone & Block Drop Inlet Protection
- IV. Paved Surface Inlet Protection
- V. Manufactured Insert Inlet Protection

Design Criteria

Drainage Area – The drainage area for storm drain inlets shall not exceed one acre. Erosion control/temporary stabilization measures must be implemented on the disturbed

New York State Standards and Specifications For Erosion and Sediment Control drainage area tributary to the inlet. The crest elevations of these practices shall provide storage and minimize bypass flow.

Type I – Excavated Drop Inlet Protection

This practice is generally used during initial overlot grading after the storm drain trunk line is installed.

Limit the drainage area to the inlet device to 1 acre. Excavated side slopes shall be no steeper than 2:1. The minimum depth shall be 1 foot and the maximum depth 2 feet as measured from the crest of the inlet structure. Shape the excavated basin to fit conditions with the longest dimension oriented toward the longest inflow area to provide maximum trap efficiency. The capacity of the excavated basin should be established to contain 900 cubic feet per acre of disturbed area. Weep holes, protected by fabric and stone, should be provided for draining the temporary pool.

Inspect and clean the excavated basin after every storm. Sediment should be removed when 50 percent of the storage volume is achieved This material should be incorporated into the site in a stabilized manner.

Type II – Fabric Drop Inlet Protection



This practice is generally used during final elevation grading phases after the storm drain system is completed.

Limit the drainage area to 1 acre per inlet device. Land area slope immediately surrounding this device should not exceed 1 percent. The maximum height of the fabric above the inlet crest shall not exceed 1.5 feet unless reinforced.

The top of the barrier should be maintained to allow overflow to drop into the drop inlet and not bypass the inlet to unprotected lower areas. Support stakes for fabric shall be a minimum of 3 feet long, spaced a maximum 3 feet apart. They should be driven close to the inlet so any overflow drops into the inlet and not on the unprotected soil. Improved performance and sediment storage volume can be obtained by excavating the area.

Inspect the fabric barrier after each rain event and make repairs as needed. Remove sediment from the pool area as necessary with care not to undercut or damage the filter fabric. Upon stabilization of the drainage area, remove all materials and unstable sediment and dispose of properly. Bring the adjacent area of the drop inlet to grade, smooth and compact and stabilize in the appropriate manner to the site.

Type III – Stone and Block Drop Inlet Protection

This practice is generally used during the initial and intermediate overlot grading of a construction site.

Limit the drainage area to 1 acre at the drop inlet. The stone barrier should have a minimum height of 1 foot and a maximum height of 2 feet. Do not use mortar. The height should be limited to prevent excess ponding and bypass flow.

Recess the first course of blocks at least 2 inches below the crest opening of the storm drain for lateral support. Subsequent courses can be supported laterally if needed by placing a 2x4 inch wood stud through the block openings perpendicular to the course. The bottom row should have a few blocks oriented so flow can drain through the block to dewater the basin area.

The stone should be placed just below the top of the blocks on slopes of 2:1 or flatter. Place hardware cloth of wire mesh with $\frac{1}{2}$ inch openings over all block openings to hold stone in place.

As an optional design, the concrete blocks may be omitted and the entire structure constructed of stone, ringing the outlet ("doughnut"). The stone should be kept at a 3:1 slope toward the inlet to keep it from being washed into the inlet. A level area 1 foot wide and four inches below the crest will further prevent wash. Stone on the slope toward the inlet should be at least 3 inches in size for stability and 1 inch or smaller away from the inlet to control flow rate. The elevation of the top of the stone crest must be maintained 6 inches lower than the ground elevation down slope from the inlet to ensure that all storm flows pass over the stone into the storm drain and not past the structure. Temporary diking should be used as necessary to prevent bypass flow.

The barrier should be inspected after each rain event and repairs made where needed. Remove sediment as necessary to provide for accurate storage volume for subsequent rains. Upon stabilization of contributing drainage area, remove all materials and any unstable soil and dispose of properly.

Bring the disturbed area to proper grade, smooth, compact and stabilize in a manner appropriate to the site.

Type IV – Paved Surface Inlet Protection



This practice is generally used after pavement construction has been done while final grading and soil stabilization is occurring. These practices should be used with upstream buffer strips in linear construction applications, and with temporary surface stabilization for overlot areas, to reduce the sediment load at the practice. This practice includes sand bags, compost filter socks, geo-tubes filled with ballast, and manufactured surface barriers. Pea gravel can also be used in conjunction with these practices to improve performance. When the inlet is not at a low point, and is offset from the pavement or gutter line, protection should be selected and installed so that flows are not diverted around the inlet.



November 2016 tions

New York State Standards and Specifica-For Erosion and Sediment Control

The drainage area should be limited to 1 acre at the drain inlet. All practices will be placed at the inlet perimeter or beyond to maximize the flow capacity of the inlet. Practices shall be weighted, braced, tied, or otherwise anchored to prevent movement or shifting of location on paved surfaces. Traffic safety shall be integrated with the use of this practice. All practices should be marked with traffic safety cones as appropriate. Structure height shall not cause flooding or by-pass flow that would cause additional erosion.

The structure should be inspected after every storm event. Any sediment should be removed and disposed of on the site. Any broken or damaged components should be replaced. Check all materials for proper anchorage and secure as necessary.

Type V - Manufactured Insert Inlet Protection



The drainage area shall be limited to 1 acre at the drain inlet. All inserts will be installed and anchored in accordance with the manufacturers recommendations and design details. The fabric portion of the structure will equal or exceed the performance standard for the silt fence fabric. The inserts will be installed to preserve a minimum of 50 percent of the open, unobstructed design flow area of the storm drain inlet opening to maintain capacity for storm events.

November 2016

Figure 5.31 Excavated Drop Inlet Protection



November 2016 tions

New York State Standards and Specifica-For Erosion and Sediment Control

Figure 5.32 Fabric Drop Inlet Protection



New York State Standards and Specifications For Erosion and Sediment Control

Figure 5.33 Stone & Block Drop Inlet Protection



November 2016 tions

New York State Standards and Specifica-For Erosion and Sediment Control Appendix G

Soil Survey



USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey

MAP	LEGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI)	Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:12,000.
Image: Area of Interest (AOI) Soils Soil Map Unit Polygons ✓ Soil Map Unit Polygons ✓ Soil Map Unit Points Special Point Features Image: Soil Map Unit Points Image: Soil Map Unit Points Special Point Features Image: Soil Map Unit Points Borrow Pit Image: Special Point Features Image: Soil Map Unit Points Image: Special Point Features Image: Spot Image: Spot Image: Spot Image: Spot Image: Spot Image: Spot Image: Spot	Image: ConstructImage: Construct </th <th>1:12,000. 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: Westchester County, New York Survey Area Data: Version 16, Jun 11, 2020 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Dec 31, 2009—Oct 5, 2016</th>	1:12,000. 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: Westchester County, New York Survey Area Data: Version 16, Jun 11, 2020 Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Dec 31, 2009—Oct 5, 2016
 Sandy Spot Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot 		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
NcA	Natchaug muck, 0 to 2 percent slopes	1.7	16.2%
PnB	Paxton fine sandy loam, 3 to 8 percent slopes	6.1	58.2%
Sh	Sun loam	1.4	12.9%
WdB	Woodbridge loam, 3 to 8 percent slopes	1.3	12.8%
Totals for Area of Interest		10.5	100.0%



Appendix H

Percolation Test Results

<u>Appendix I</u>

SWPPP Certification Forms

STORMWATER POLLUTION PREVENTION PLAN

INSPECTOR'S CERTIFICATION

I have agreed to perform compliance inspections for the 12 East Ridge Road project (including Site Stabilization) in accordance with this Storm Water Pollution Prevention Plan (SWPPP)

I have agreed to notify, within one business day of completion of the inspection, the owner, the contractor, and appropriate subcontractor(s) of ant corrective measures that need to be taken and also obtain a schedule of completion for such measures.

I certify under penalty of law that I understand and agree to comply with the terms and conditions of the SWPPP for conducting the required inspections.

Printed Name	Title
Signature	Date
Firm	
Address	
Phone	
Field Person in Charge	
Phone	

STORMWATER POLLUTION PREVENTION PLAN

CONSTRUCTION CONTRACTOR'S/SUB-CONTRACTOR'S CERTIFICATION

CONTRACTOR CERTIFICATION (Excavator-soil erosion & drainage)

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

CONTRACTOR/SUB-CONTRACTOR

Printed Name	Title
Signature	Date
Company Name	Address
Phone	
Field Person in Charge	Phone



MEMORANDUM

TO:	Chairperson Janet Andersen and Members of Lewisboro Planning Board
CC:	Ciorsdan Conran Judson Siebert, Esq. Joseph Angiello
FROM:	Jan K. Johannessen, AICP Joseph M. Cermele, P.E., CFM Town Consulting Professionals
DATE:	September 16, 2021
RE:	Site Development Plan Approval William Stein 51 Pine Hill Drive Sheet 29B, Block 10540, Lot 75

PROJECT DESCRIPTION

The subject property consists of 4.69 acres of land and is located at 51 Pine Hill Drive within the R-2A Zoning District; the subject property is currently vacant and wooded. The applicant is proposing to construct a single-family home, driveway, well, septic system and stormwater management facilities. This flag lot has frontage on Pine Hill Drive but is accessed via a common private driveway. The subject parcel contains wetlands and a watercourse that are jurisdictional to the Town of Lewisboro; an off-site wetland, regulated by both the Town and the New York State Department of Environmental Conservation (NYSDEC), is located to the east. The proposed house, driveway, and stormwater management practices are proposed to be located within the wetland buffer while the proposed septic system appears to be located outside of this regulated area. A NYSEG easement and associated utilities are located along the northerly (rear) property line.

SEQRA

The proposed action has been preliminarily identified as a Type II Action and is therefore categorically exempt from the State Environmental Quality Review Act (SEQRA).

CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | SITE & ENVIRONMENTAL PLANNING

Chairperson Janet Andersen September 16, 2021 Page 2 of 4

REQUIRED APPROVALS

- 1. A Wetland Activity Permit and Town Stormwater Permit is required from the Planning Board; a public hearing is required to be held on the Wetland Permit.
- 2. A NYS Town Law 280-a variance may be required for access onto a private road; we defer to the Planning Board Attorney and Building Inspector on this issue.
- 3. The proposed potable water well and sanitary sewage treatment system require approval from the Westchester County Department of Health (WCDH).
- 4. The subject property is located within the NYC East of Hudson Watershed and proposed land disturbance exceeds 5,000 s.f. Coverage under New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001) will be required.

COMMENTS

- 1. This office defers review of the plan for zoning compliance to the Building Inspector. It is recommended that the application be referred to the Building Inspector for review.
- 2. The applicant shall coordinate with the New York City Department of Environmental Protection (NYCDEP) and provide written verification regarding their extent of jurisdiction.
- 3. The subject property is located within the NYSDEC "check zone" and a NYSDEC wetland is located at the northeast corner of the site (off-site). Please illustrate this off-site wetland on the drawing, its associated Town and NYSDEC buffer areas, and coordinate with the NYSDEC regarding their extent of jurisdiction, if any.
- 4. Consideration should be given to pushing the house footprint to the side yard zoning setback line (to the east) which would locate the house footprint further from the wetland. Depending on sight distance, the driveway could also be relocated further from the wetland.
- 5. The applicant shall develop a Wetland Mitigation Plan which provides, at a minimum, mitigation at a ratio of 1:1 (for every s.f. of wetland or wetland buffer disturbance proposed, an equal or greater amount of mitigation shall be provided). Reference is made to the Town's mitigation guidelines provided in Chapter 217, Appendix B. Stormwater infrastructure (including the rain gardens) cannot be included as wetland mitigation.

Chairperson Janet Andersen September 16, 2021 Page 3 of 4

- 6. The wetland report references a 100-foot buffer where the Town regulates a 150-foot buffer; the proposed project description and identification of project components within the buffer and associated impacts is incorrect and/or requires further explanation. The report is rather generic and requires further site and project specific detail. Additionally, the wetland report shall contain the information required under Sections 217-5 and 6 of the Town's wetland ordinance.
- 7. The driveway width dimension provided on the driveway detail does not correspond to the width of the driveway when scaled on the plan. As the driveway is located within the buffer and is relatively flat, it is recommended that a gravel driveway be considered in lieu of asphalt.
- 8. The applicant shall perform deep and percolation soil testing in the vicinity of the proposed mitigation system to be witnessed by the Town Engineer. The test locations and results shall be shown on the plan. Contact this office to schedule the testing.
- 9. Land disturbance is proposed to exceed ≥5,000 s.f. and will therefore require conformance with the NYSDEC SPDES General Permit (GP-0-20-001) and the filing of a Notice of Intent (NOI) and MS4 Acceptance Form with the NYSDEC. Submit draft copies to this office for review.
- 10. The plan shall identify the size, slope, and material of all proposed drainage pipe. Provide details and include outlet protection.
- 11. The plan shall illustrate the footing drain location. Include the size, slope, and material of drainage pipe and provide outlet protection details.
- 12. The proposed stormwater practice shall include an emergency overflow to a stabilized outfall. Provide details.
- 13. Rain garden sizing calculations shall be provided and shall follow the NYS Stormwater Design Manual, accounting for ponding, soil media and gravel layer volumes. Provide details and planting requirements for the rain garden.
- 14. The plan proposes to mitigate 5,600 SF of impervious are to a proposed rain garden. As per the NYSDEC Stormwater Design manual, rain gardens are limited to mitigation of 1,000 SF of impervious surface. Consider an alternate means for mitigation.
- 15. The primary components of the septic system shall be illustrated (tanks, pipes, absorption trenches, etc.) Upon receipt, please provide a fully executed copy of the permit and plans endorsed by the WCDH.
- 16. The finished floor elevations as noted on the plan should be reviewed and clarified.

Chairperson Janet Andersen September 16, 2021 Page 4 of 4

- 17. The plan shall illustrate the location of all existing and proposed utilities (electric, water, sewer, gas, etc.).
- 18. All proposed walkways, decks, patios, utility pads, generators, propane tanks, etc. shall be illustrated.
- 19. Provide dimensions of the driveway on the plan and demonstrate that a vehicle can turn around on-site; the driveway may need to be reconfigured to allow for a vehicle to turn around more easily.
- 20. The applicant shall submit the current property deed and access/maintenance agreement, if any. Also, please identify any restrictions or limitations associated with work within the NYSEG easement.
- 21. The names of the adjacent property owners and the location of any neighboring driveways, structures, buildings, wells and septic areas shall appear on the plan.
- 22. The plan shall be revised to identify the dimension between buildings/structures and the closest property line(s).
- 23. The Site Development Plan Application was filed but is not applicable for single-family residential projects. Please submit the Town's Wetland Activity Permit and Stormwater Permit applications.

In order to expedite the review of subsequent submissions, the applicant should provide annotated responses to each of the comments outlined herein.

PLANS REVIEWED, PREPARED BY HILDENBRAND ENGINEERING, PLLC, DATED JULY 28, 2021:

- Existing Conditions (EX.1)
- Site Plan (SP.1)
- Details & Notes (D.1)

DOCUMENTS REVIEWED:

- Site Development Plan Application
- Short EAF, dated August 7, 2021
- Letter, prepared by Brian Hildenbrand, P.E., dated August 9, 2021
- Stormwater Pollution Prevention Plan Report, dated July 1, 2021
- Wetland Evaluation and Impact Report, prepared by Michael Nowicki, dated August 23, 2020
- Survey of Property

JKJ/dc
nttps://kellardsessionsconsulti.sharepoint.com/sites/Kellard/Municipal/Lewisboro/Correspondence/2021-09-16_LWPB_Stein - 51 Pine Hill Drive_Review Memo.docx

то:	Town of Lewisboro Planning Board
FROM:	Lewisboro Conservation Advisory Council
SUBJECT:	Stein Residence 51 Pine Hill Drive, South Sale, NY
DATE:	October 6, 2020

The Conservation Advisory Council (CAC) reviewed the applicant's submission of a sketch plan for site plan approval for construction of a single-family home.

The CAC understand that these are very preliminary submissions but would like to see a more detailed set of plans for the home including area of impervious surfaces added (house, any patios and location and driveway materials), location of the septic field, demarcation of the wetland buffer and location of Cross River relative to the property. A topographical map should also be supplied to help understand stormwater runoff.

As the property appears to be in the wetland buffer, the CAC would like to see a wetland mitigation plan and a stormwater management plan.

TOWN OF LEWISBORO PLANNING BOARD 79 Bouton Road, South Salem , NY 10590 Tel: (914) 763-5592 Email: <u>planning@lewisborogov.com</u>

Site Development Plan	/Subdivision Plat A	pplication - Check all that apply:

Waiver of Site Development Plan Procedures Site Development Plan ApprovalStep ISpecial Use Permit Approval Subdivision Plat ApprovalStep I	Step II Step II Step III		
Project Information	•		
Project Name:51 Pine Hill Drive			
Project Address: 51 Pine Hill Drive, South Salem, NY 10590)		
Gross Parcel Area: 4.69 Ac Zoning District: R-2A Sheet(s): <u>54.2-1-1</u> Block (s): Lot(s):		
Project Description: Development of a single-family residen	ce on a vacant lot with new driveway, well, septic		
and stormwater management system			
1			
Is the site located within 500 feet of any Town boundary? Is the site located within the New York City Watershed? Is the site located on a State or County Highway?	YES NO V YES V NO V YES NO V		
Does the proposed action require any other permits/approvals from other agencies/departments? Town Board ZBA Building Dept. Image: Comparison of the second se			
Other			
<u>Owner's Information</u> William Stein			
Name:90 Bloomer Rd, Mahonac, NY 10541	Email:		
Address:	Phone:		
Applicant's Information (if different)	mirallageanstruction lle@gmail.com		
Name: Daniele Miralles	Email:		
Address: 162 North Clove Road, Verbank 12585	Phone:		
Authorized Agent's Information			
Name: Brian Hildenbrand, P.E.	Email: Brian@HildenEng.com		
Address: 208 Creamery Road, Hopewell Junction NY 12533	Phone: (845) 206-6994		
THE APPLICANT understands that any application is considered complete only when all information and documents required have been submitted and received by the Planning Board. The applicant further understands that the applicant is responsible for the payment of all application and review fees incurred by the Planning Board.			
THE UNDERSIGNED WARRANTS the truth of all statements contained herein ar	id in all supporting documents according to the best of his/her knowledge		
APPLICANT'S SIGNATURE	DATE 7/16/21		
OWNER'S SIGNATURE . X William Attein	DATE 7/18/2021		

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem, NY 10590 Email: <u>planning@lewisborogov.com</u> Tel: (914) 763-5592 Fax: (914) 875-9148

Affidavit of Ownership

State of :	New York	
County of:	Westchester	
William Stein	n	, being duly sworn, deposes and says that he/she
resides at $\frac{90}{2}$	Bloomer Road, Mahopac	
in the Count	y of	, State ofNew York
and that he/	she is (check one) 🔽 the owner, or	r the
of 51 Pine H	lill Drive, South Salem, NY 10541	Title
01	Name of corporation, partnership, or o	other legal entity
which is the	owner, in fee of all that certain log, pi	ece or parcel of land situated, lying and being in the
Town of Lew	visboro, New York, aforesaid and kno	w and designated on the Tax Map in the Town of
Lewisboro a	s:	
Block	. 54.2, Lot	, on Sheet
		William & them
	Owne	r's Signature
Sworn to be 19th day	efore me this y of	,2 <u>02/</u>
	Keng Prece	KELLY PUCCIO
Notary Pub	lic – affix stamp	Notary Public, State of New York No. 01PU6088070 Qualified in Putnam County Commission Expires March 03, 20

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem, NY 10590 Email: <u>planning@lewisborogov.com</u> Tel: (914) 763-5592 Fax: (914) 875-9148

Tax Payment Affidavit Requirement

This form must accompany all applications to the Planning Board.

Under regulations adopted by the Town of Lewisboro, the Planning Board may not accept any application unless an affidavit from the Town of Lewisboro Receiver of Taxes is on file in the Planning Board office. The affidavit must show that all amounts due to the Town of Lewisboro as real estate taxes and special assessments on the total area encompassed by the application, together with all penalties and interest thereon, have been paid.

Under New York State law, the Westchester County Clerk may not accept any subdivision map for filing unless the same type of affidavit from the Town of Lewisboro Receiver of Taxes is submitted by the applicant at the time of filing.

This form must be completed by the applicant and must accompany all applications to the Planning Board. Upon receipt, the Planning Board Secretary will send the form to the Receiver of Taxes for signature and notarization. If preferred, the applicant may directly obtain the signature of the Receiver of Taxes and notarization prior to submission.

		To Be Completed by Applican (Please type or print)	ıt	
Daniele Miralles		51 Pine Hill Drive		
Name of Applica	nt	Project Name		
Property Description Property Assessed to:				
Tax Block(s):	10540	William Stein & Janiu	e Stein	
Tax Lot(s):	75	Name 90 Bloomer Road		
Tax Sheet(s):	29B	Address Mahopac	NY	_20541
		City	State	Zip

The undersigned, being duly sworn deposes and says that a search of the tax records in the office of the Receiver of Taxes, Town of Lewisboro, reveals that all amounts due to the Town of Lewisboro as real estate taxes and special assessments, together with all penalties and interest thereon, affecting the premises described below, have been paid.

Signature - Receiver of Taxes:	8/11/2021 Date
Sworn to before me this	
day of Unclust	2021
δ	
Allert & Dohohne	JANET L. DONOHUE NOTARY PUBLIC, STATE OF NEW YORK No. 01D06259627 Qualified in Westchester County 4 Commission Expires April 16, 2020
Signature - Notary Public (affix stamp)	

August 9, 2021

Lewisboro Planning Board c/o Ciorsdan Conran 79 Bouton Road South Salem, NY 10590

RE: Stein 51 Pine Hill Drive South Salem, NY 10590

Dear Ms. Conran:

Please find enclosed submission of the following items:

- Site Plan Package, 3-sheets, dated July 28, 2021 prepared by Hildenbrand Engineering, PLLC. (6 Full size sets & 3-reduced sets)
- SWPPP Report dated July 1, 2021 prepared by Hildenbrand Engineering, PLLC.
- Planning Board Application
- Short EAF
- Survey of the property.
- Affidavit of Ownership
- Tax Payment Affidavit
- Check #2691 in the amount of \$205 for Sketch Plan Application fee
- Check #2692 in the amount of \$255 for Site Development Plan fee
- Check #2693 in the amount of \$155 for Stormwater fee.
- Wetland report prepared by Ecological Solutions dated August 23, 2020.

The subject property is 4.69 acres and is currently vacant. The lot is located in the R-2A Zoning District. The proposal includes the construction of a single-family residence and other typical improvements, including a driveway, well, septic, yard areas etc. The development of the lot will require a Local Wetland Permit and the Stormwater Permit from the Town.

We look forward to presenting this project to the Board at the next Planning Board meeting.

Very truly yours,

Brian Hildenbrand

Brian Hildenbrand P.E



Brian Hildenbrand, P.E. 208 Creamery Road Hopewell Junction, NY 12533 (845) 206-6994 Brian@HildenEng.com

Cc: (via email)

William Stein, Owner Danny Miralles, Applicant Kellard Sessions Consulting



Short Environmental Assessment Form Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. 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.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information		
Name of Action or Project:		
Project Location (describe, and attach a location map):		
Brief Description of Proposed Action:		
Name of Applicant or Sponsor:	Telephone:	
	E-Mail:	
Address:		
City/PO:	State:	Zip Code:
1. Does the proposed action only involve the legislative adoption of a plan, loc administrative rule, or regulation?	al law, ordinance,	NO YES
If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.		
2. Does the proposed action require a permit, approval or funding from any oth If Yes, list agency(s) name and permit or approval:	er government Agency?	NO YES
3. a. Total acreage of the site of the proposed action?		
4. Check all land uses that occur on, are adjoining or near the proposed action:		
5. Urban Rural (non-agriculture) Industrial Commercia	ial Residential (subur	rban)
☐ Forest Agriculture Aquatic Other(Spe □ Parkland	ecify):	

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?			
b. Consistent with the adopted comprehensive plan?			
6 Is the proposed action consistent with the predominant character of the existing built or natural landscape	 ?	NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		NO	YES
If Yes, identify:			
8 a Will the proposed action result in a substantial increase in traffic above present levels?		NO	YES
b. Are public transportation convices evailable at or part the site of the proposed action?			
b. Are public transportation services available at or heat the site of the proposed action?			
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?			
9. Does the proposed action meet or exceed the state energy code requirements?		NO	YES
If the proposed action will exceed requirements, describe design features and technologies:			
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No, describe method for providing potable water:			
11. Will the proposed action connect to existing wastewater utilities?		NO	YES
If No, describe method for providing wastewater treatment:			
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or distr	rict	NO	YES
which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	he		
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?			
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?		NO	YES
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?			
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:			

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:		
□Shoreline □ Forest Agricultural/grasslands Early mid-successional		
Wetland 🗆 Urban Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or	NO	YES
Federal government as threatened or endangered?		
16. Is the project site located in the 100-year flood plan?	NO	YES
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
If Yes,		
a. Will storm water discharges flow to adjacent properties?		
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe:		
18. Does the proposed action include construction or other activities that would result in the impoundment of water	NO	YES
or other liquids (e.g., retention pond, waste lagoon, dam)?		
If fes, explain the purpose and size of the impoundment		
49. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste	NO	YES
If Yes, describe:		
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?	NO	YES
If Yes, describe:		
I CERTIEV THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BE	ST OF	
MY KNOWLEDGE	or or	
Applicant/sponsor/name: Date:		
Signature: Brian Hildenbrand		



Part 1 / Question 7 [Critical Environmental Area]	No
Part 1 / Question 12a [National or State Register of Historic Places or State Eligible Sites]	No
Part 1 / Question 12b [Archeological Sites]	No
Part 1 / Question 13a [Wetlands or Other Regulated Waterbodies]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
Part 1 / Question 15 [Threatened or Endangered Animal]	No
Part 1 / Question 16 [100 Year Flood Plain]	No
Part 1 / Question 20 [Remediation Site]	No

Wetland Evaluation and Impact Report

Stein Site 51 Pine Hill Road Town of Lewisboro Westchester County, New York

August 23, 2020

Prepared by:

Michael Nowicki Ecological Solutions, LLC 1248 Southford Road Southbury, Connecticut 06488

 1.0 EXISTING CONDITIONS/SUMMARY
 3

 2.0 WETLAND FUNCTIONS
 4

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1.0 EXISTING CONDITIONS/SUMMARY

Regulatory Review - Ecological Solutions, LLC completed a wetland evaluation and

wetland/buffer impact assessment for a proposed single family residence (approximately 4.500 SF), located on a 4.68 acres parcel at 51 Pine Hill Road in the Town of Lewisboro. Only a small area of the site is unencumbered by wetland or the 100 foot buffer area. The proposed house is sited toward the southeastern section of the site and is proposed at the furthest point from the wetland and 100 foot buffer as possible while meeting zoning setbacks. Impacts to the buffer are for the proposed driveway and a small portion of the septic system.

The wetland boundary on the site was delineated by Ecological Solutions, LLC in accordance with the Routine Onsite Determination Method prescribed in the 1987 USACE Wetlands Delineation Manual and Northcentral/Northeast supplement and subsequently the Town of Lewisboro Code. Sequentially numbered ribbon were placed in the field along the wetland/watercourse boundary and survey located. The Town prescribed wetland buffer shall be extend 100 feet horizontally away from and paralleling the outermost wetland boundary.

The US Army Corps of Engineers (USACE) also regulates the delineated wetland however since there is no discharge of fill material into the wetland no authorization of the project is required from the USACE.

According to Josh Fisher of the New York State Department of Environmental Conservation (NYSDEC) there is no regulated NYSDEC wetland on the site.

Existing Wetland/Buffer Conditions – The wetland on the site is forested and contains scattered red maple and sycamore with spicebush and red-osier dogwood in the understory and skunk cabbage as the dominant herbaceous plant and is associated with a small watercourse.

<u>Project Description/Impacts</u> - The Applicant is seeking to construct a single family residence, driveway, well, and septic system. There is no wetland impact proposed. The impact to the 100 foot buffer area is limited to a minor encroachment for the driveway and a small section of the septic system. Impacts to the 100 foot buffer is 0.26 acres.

Supporting documentation provided in this report concludes that the Applicant has met the standards and requirements set forth in the Town of Lewisboro Code and that the proposed regulated activity can be permitted without adverse impact to the wetland functions and that the buffer impact is minimal and utilizes previously impacted area.

2.0 WETLAND FUNCTIONS

An assessment of wetland functions and values was conducted on the wetland identified and delineated on the site. Using a widely accepted method for wetland functions and values assessment developed by the New England District, U.S. Army Corps of Engineers, 13 distinct wetland functions and values were assessed for the delineated wetlands on the site. This method yielded an objective, descriptive quality index of each wetland rather than a subjective quantified rating of each wetland. This assessment had two major objectives:

- 1. Objectively identify the functions and values provided by the wetland.
- 2. Provide baseline data with which the Applicant could work in planning land uses, and against which the Applicant could assess potential impacts of proposed development of the site.

The descriptive quality index of each wetland, based on this methodology, is summarized in this report.

Wetlands are legally protected because of the functions they perform and the benefits that society reaps from those functions. Wetland functions are chemical, physical, and biological processes that wetlands naturally perform as a matter of course, such as absorption of nutrients or floodwaters, or provision of habitat for fish and wildlife. Wetland values are the benefits that society derives from wetland functions, such as flood abatement, or water quality maintenance.

The functions and values assessment conducted on the property was based on the method outlined in *The Highway Methodology Workbook Supplement: Wetland Functions and Values, A Descriptive Approach*, by the U.S. Army Corps of Engineers New England District. This method was selected over an arbitrary numeric quantifying assessment scheme because it provides an objective, descriptive approach to functions and values assessment based on professional observation and judgment rather than a simple numeric value rating system. Quantified functions and values assessments do not always provide for descriptive information about wetlands and therefore may overlook important aspects of wetland functions and values.

The Highway Method provides for assessment of each wetland for thirteen defined functions and values. Of these, the first eight are considered wetland functions, and the last five are considered to be wetland values.

Findings of the assessment are outlined below.

The wetland on the site is a broad-leafed deciduous forested wetland associated with a small watercourse that flows through the site. The wetland has a small upland wooded buffer. Functions and values provided by the wetland includes floodflow attenuation, sediment trapping, nutrient removal, and fish/wildlife habitat. Of these, the most significant functions based on extent of rationale in identifying functions and values are floodflow attenuation and fish/wildlife habitat. Wildlife useage noted in the wetland is consistent with other sites in the area since there were deer tracks observed in the substrate as well as raccoon tracks and other mammals. Common bird species would also be expected to utilize the wetland for nesting and foraging.

The following functions were reviewed:

1. Groundwater Recharge/Discharge – the potential for a wetland to serve as a recharge area for an aquifer or as a surface discharge point for groundwater.

The proposed house and associated features does not impact the wetland and only slightly impacts the buffer. The proposed project will not impact this function.

2. Floodflow Attenuation – A wetland's ability to store and attenuate floodwaters during prolonged precipitation events, thereby reducing or preventing flood damage.

This is one of the major functions provided by the wetland on the site. The proposed house and associated features do not impact the wetland and only slightly impact the buffer for the driveway access and a section of the septic system. The amount of impervious surface added to the site is small enough that there is no stormwater treatment required. The proposed project will not adversely impact this function.

3. Fish and Shellfish Habitat - The ability of permanent or temporary water bodies to provide suitable habitat for fish or shellfish.

There will be no impact to open water bodies or tributaries so no impact is expected.

4. Sediment/Toxicant/Pathogen Retention – The effectiveness of the wetland in trapping sediments, toxicants or pathogens, thereby protecting water quality.

This is also one of the major functions provided by the wetland on the site. Erosion controls will minimize any runoff from the work area during construction so that no sediment will reach the wetland. The proposed project will not adversely impact this function.
5. Nutrient Removal/Retention/Transformation – The effectiveness of the wetland at absorbing, retaining, and transforming or binding excess nutrients, thereby protecting water quality.

This is also one of the major functions provided by the wetland on the site. As with sedimentation, erosion controls will minimize any runoff from the work area so that no sediment/additional nutrient load will reach the wetland. The proposed project will not adversely impact this function.

6. Production Export - The wetland's ability to produce food or usable products for humans or other living organisms.

The is no impact to this function.

7. Sediment/Shoreline Stabilization – The wetland's ability to prevent erosion and sedimentation by stabilizing soils along stream banks or the shorelines of water bodies.

The is no impact to this function since there is no impact to wetland or watercourse.

8. Wildlife Habitat – The ability of wetlands to provide food, water, cover, or space for wildlife populations typically associated with wetlands or their adjacent areas, both resident and migratory.

This is one of the major functions provided by the wetland on the site. The proposed house and associated features do not impact the wetland and only impact 0.26 acres of buffer area. In the short-term during construction wildlife will move to adjacent habitat but once installed and completed wildlife will return. The proposed project will not adversely impact this function.

9. Recreation – The value placed on a wetland by society for providing consumptive and non-consumptive as well as active or passive recreational opportunities such as canoeing/boating, fishing, hunting, bird/wildlife watching, hiking, etc.

The is no impact to this function.

10. Education/Scientific Value – The value placed on a wetland by society for providing subjects for scientific study or research or providing a teaching resource for schools.

The is no impact to this function.

11. Uniqueness/Heritage – The value placed on a wetland by society for having unique characteristics such as archaeological sites or sites of historical events, unusual aesthetic qualities, or unique plants, animals, or geologic features, etc.

The is no impact to this function. The wetland is a common red maple swamp with watercourse.

12. Visual Quality/Aesthetics – The value placed on a wetland by society for having visual and/or other aesthetic qualities.

The is no impact to this function.

13. Threatened or Endangered Species Habitat – The value placed on a wetland by society for effectively harboring or providing habitat for threatened or endangered species.

There is no impact to this function since tree clearing is minimal and no known threatened or endangered species or habitat associated with the site.

3.0 STANDARDS FOR PERMIT ISSUANCE/FINDINGS

§ 217-8 Standards for issuance of notices of determination and permits.

(1) The overall impact of the proposed activity, and existing and reasonably anticipated similar activities, upon neighboring land uses and wetland, watercourse and/or buffer area functions as set forth in § 217-1 of this chapter, including but not limited to the:

(a)_Milling of a wetland, watercourse and/or buffer area, and other modification of natural topographic contours.

(b) Disturbance or destruction of native flora and fauna.

(c)_Influx of sediments or other materials causing increased water turbidity and/or substrate aggradations.

(d) Removal or disturbance of wetland, watercourse or buffer area soils.

(e) Reductions or increases in wetland or watercourse water supply.

(f) Interference with wetland or watercourse water circulation and flow.

(g) Changes in the amount or type of wetland or watercourse nutrients.

(h) Influx or discharge of toxic chemicals and/or heavy metals.

(i) Physical and chemical changes to the wetland or watercourse water supply.

(j) Destruction, reduction and diminution of natural and native aesthetic values.

(k) Reduction in public recreational or educational use and access.

(I) Impact to and alteration or disturbance of buffer areas.

Impacts to wetland functions are addressed in Section 2.0 of this report. There is 0.26 acres of impact proposed to the wooded wetland buffer for a section of the proposed driveway and a small area of the proposed septic system. The proposed house and well are located in the only area of the site that is not wetland or regulated buffer area.

(2) Any existing wetland, watercourse and/or buffer area impacts and the cumulative effect of reasonably anticipated future wetland, watercourse and/or buffer area activities in the wetland, watercourse and/or buffer area subject to the application.

Impacts to wetland functions are addressed in Section 2.0 of this report.

(3) The impact of the proposed activity and reasonably anticipated similar activities upon flood flows, flood storage, storm barriers, and water quality.

Impacts to wetland functions are addressed in Section 2.0 of this report.

(4) The potential effect of flooding, erosion, hurricane winds, soil limitations, and other hazards on the proposed activity, and possible losses to the applicant and subsequent purchasers of the land.

The proposed single family residence and features are located at the high point of the site. There is no other alternative to the proposed location.

(5) The adequacy of water supply and waste disposal for the proposed use.

All approvals for the septic system and well will be obtained.

(6) Consistency with federal, state, county, regional and local comprehensive land use plans and regulations.

There are no wetland permits or authorization required from the USACE or the NYSDEC.

(7) The availability of preferable or environmentally compatible alternative locations on the subject parcel or, in the case of an activity which cannot be undertaken on the property without disturbance to wetlands, watercourses and/or buffer areas, the availability of other reasonable or practicable locations for the activity.

Although the parcel is 4.68 acres only a small area is not encumbered by wetland or buffer area. This is the focus of the proposed single family residence.







ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.



GENERAL NOTES

ZONING DISTRICT: R-2A

- 1. THIS MAP IS NOT A SURVEY. EXISTING CONDITIONS REFERENCED FROM MAP ENTITLED "SURVEY OF PROPERTY PREPARED FOR WILLIAM J. STEIN BEING PARCEL 10 AS SHOWN ON PINE HILL ESTATES" DATED LAST REVISED MAY 13, 2020 PREPARED BY TERRY BERGENDORFF COLLINS.
- 2. WETLAND FLAGS AS FIELD DELINEATED BY MIKE NOWICKI ARE SHOWN HEREON PER FIELD SURVEY COMPLETED MAY 13, 2020.

LEGEND



- EXISTING PROPERTY LINE PROPOSED 2' CONTOUR
- LOCAL WETLAND BOUNDARY
- LOCAL WETLAND 150' BUFFER

TOWN OF LEWISBORO ZONING REQUIREMENTS (R-2A ZONING)					
REQUIRED EXISTING PROPOSED					
LOT AREA (AC)	2.0	4.7	4.7		
MIN. LOT WIDTH (FT.)	200	602	602		
FRONT YARD FROM STREET CENTERLINE (FT)	75	-	537		
FRONT YARD (FT.)	50	-	124		
SIDE YARD (FT.)	40	-	80		
REAR YARD (FT.)	50	-	104		
MAX. BUILDING HEIGHT (STORY/FT)	2.5/35	-	<2.5/<35		
MAX. BUILDING COVERAGE (%)	9%	_	2.4%		







51 PINE HILL DRIVE

TOWN OF LEWISBORO, WESTCHESTER COUNTY, NEW YORK

EXISTING CONDITIONS

DATE: PROJECT NO.: SCALE: DRAWN BY:

PROJECT:

DRAWING:

07-28-2021 --AS SHOWN B.J.H.





BRIAN HILDENBRAND, P.E. LIC# 092374



STORMWATER SOIL TESTING IN	FORMATION
DEEP TEST HOLE DESCRIPTION	INFILTRATION RATE (IN/HR)
DT-1: 0"-4" TOPSOIL; 4" TO 84" BROWN SANDY LOAM;	RUN #1 = 20"/HR RUN #2 =25"/HR RUN #3 = 23"/HR RUN #4 = 26"/HR (DESIGN RATE =25 "/HR)

WETLAND MITIGATION TABLE			
TOTAL PROJECT DISTURBANCE	42,170 S.F.		
150' TOWN WETLAND BUFFER DISTURBANCE	31,700 S.F.		
PROPOSED IMPERVIOUS WITHIN 150' TOWN WETLAND BUFFER	5,688 S.F.		
CONTRIBUTING DRAINAGE AREA TO RAIN GARDEN – MITIGATION OF THE ENTIRE 100-YEAR DESIGN STORM	36,680 S.F.		

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

- ENTRANCE" DETAIL.
- 4. PRIOR TO ANY ADDITIONAL CLEARING OR GRUBBING, THE CONTRACTOR SHALL INSTALL THE STRAW BALE W/ SILT FENCE BARRIER AT CRITICAL AREAS SHOWN ON THE DESIGN DRAWINGS. THE CONTRACTOR SHALL ALSO INSTALL SILT FENCE AS INDICATED ON THE DESIGN DRAWINGS. THE STRAW BALE W/ SILT FENCE IS INTENDED TO BE REDUNDANT TO FURTHER ENSURE WETLAND PROTECTION FROM ERODED SOILS DURING CONSTRUCTION.
 THE PRIMARY AND RESERVE SEPTIC ABSORPTION AREAS SHALL BE PROTECTED FROM COMPACTION DURING CONSTRUCTION. THE ONLY CONSTRUCTION IN THIS AREA SHALL BE FOR THE INSTALLATION OF THE FILL PAD AND ABSORPTION FIELDS. NO MACHINERY, EQUIPMENT, SOILS, OR DEBRIS SHALL BE
- STOCKPILED OVER ABSORPTION FIELD AREA.
- 6. ONCE ALL SILT FENCE AND STRAW BALES ARE IN PLACE, THE CONTRACTOR MAY PROCEED TO CLEAR, GRUB AND STRIP TOPSOIL. 7. PROCEED WITH EARTHWORK OPERATIONS AS REQUIRED TO CONFORM TO THE PROPOSED SUBGRADES.
- 8. INSTALL DRAINAGE SYSTEMS. 9. PREPARE FOR WELL INSTALLATION BY INSTALLING STRAW BALES AND SILT FENCE AS INDICATED. EXCAVATING SPOILS PIT. PLACE EXCAVATED SOIL UP-GRADIENT OF STRAW BALES AND COVER WITH A TARP IF IT WILL BE LEFT FOR MORE THAN ONE DAY OR CHANCE OF RAIN. 10. INSTALL WELL. ENSURE THAT ALL WELL SPOILS ARE DIRECTED TO THE SPOILS PIT. DISPOSE THE SPOILS IN THE PIT AND BACKFILL PIT WITH NATIVE 10. INSTALL WELL. ENSURE THAT ALL WELL SPOILS ARE DIRECTED TO THE SPOILS PT. DISPOSE THE SPOILS IN THE PTT AND BACKFILL PTT WITH NATIVE BACKFILL IMMEDIATELY AND TOPSOIL AND PERMANENTLY VEGETATE PER THE VEGETATIVE SPECIFICATIONS DETAILS.
 11. UPON COMPLETION OF CUT SLOPES AND EMBANKMENT FILLS, STABILIZE IMMEDIATELY PER VEGETATIVE SPECIFICATIONS.
 12. ONCE THE SITE WORK AREA IS NEAR COMPLETE AND STABILIZED WITH PERMANENT VEGETATIVE COVER, PROCEED TO ANY PLANTING. ALL SPOILS IN
- CAUSED BY PLANTINGS SHALL BE STOCKPILED UP-GRADIENT TO THE STRAW BALES AND COVERED WITH A TARP IF LEFT OVERNIGHT OR BEFORE ANY RAINFALL.
- 13. AFTER PLANTINGS ARE COMPLETE AND THE AREA IS PERMANENTLY STABILIZED, INSTALL THE PERMANENT BOULDER LINE AND SIGNAGE TO PREVENT
- FUTURE DISTURBANCE. 14. SOIL EROSION CONTROL MEASURES SHALL BE INSPECTED ON A DAILY BASIS AND MAINTAINED OR REPLACED SO AS TO FUNCTION AS ORIGINALLY INSTALLED.
- 15. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND PROMPTLY STABILIZED IN SUCH A MANNER THAT IT WILL NOT ERODE. 16. NO SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AND THE AREA PERMANENTLY STABILIZED UNTIL THEIR IRRESPECTIVE UP-GRADIENT DRAINAGE AREAS HAVE BEEN PERMANENTLY STABILIZED.



HOPEWELL JUNCTION, NY 845.206.6994



<u>OWNER :</u>	William and Janet Stein 90 Bloomer Road Mahopac, NY 10541		
<u>APPLICANT:</u>	Daniele Miralles 162 North Clove Road Verbank NY, 12585		
PROJECT LOCATION:			
	51 Pine Hill Drive South Salem, NEW YORK 10590		
PROPERTY AREA:	4.69 ACRES		
TAX MAP:	54.2-1-1		
ZONING DISTRICT:	R-2A		

LEGEND



TOWN OF LEWISBORO ZONING REQUIREMENTS (R-2A ZONING)					
REQUIRED EXISTING PROPOSED					
LOT AREA (AC)	2.0	4.7	4.7		
MIN. LOT WIDTH (FT.)	200	602	602		
FRONT YARD FROM STREET CENTERLINE (FT)	75	_	537		
FRONT YARD (FT.)	50	_	124		
SIDE YARD (FT.)	40	_	80		
REAR YARD (FT.)	50	_	104		
MAX. BUILDING HEIGHT (STORY/FT)	2.5/35	_	<2.5/<35		
MAX. BUILDING COVERAGE (%) 9% - 2.4%					





LIC# 092374

PROJECT:					
	<u>51 PIN</u>	IE HILL DRIVE			
TOWN OF L	EWISBORO,	WESTCHESTER COUNTY, N	EW YORK		
DRAWING:	DRAWING:				
SITE PLAN					
DATE:	07-28-2021	DRAWING NO.:	SHEET:		
PROJECT NO.:			2		
SCALE:	AS SHOWN	<u>5</u> 2.1	ר / ו		
DRAWN BY:	B.J.H.				



THIS SWPPP AND ACCOMPANYING PROJECT PLANS IDENTIFY BOTH TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES. WHICH HAVE BEEN DESIGNED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, LATEST REVISION. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED DURING CONSTRUCTION TO MINIMIZE SOIL EROSION AND CONTROL SEDIMENT TRANSPORT OFF-SITE. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED AFTER CONSTRUCTION TO CONTROL THE QUALITY AND QUANTITY OF STORMWATER RUNOFF FROM THE DEVELOPED SITE.

EROSION AND SEDIMENT CONTROL MEASURES

TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES TO BE UTILIZED DURING CONSTRUCTION GENERALLY INCLUDE THE FOLLOWING:

1. STABILIZED CONSTRUCTION ENTRANCE - PRIOR TO CONSTRUCTION, STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED TO REDUCE THE TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS. CONSTRUCTION TRAFFIC MUST ENTER AND EXIT THE SITE AT THE STABILIZED CONSTRUCTION ENTRANCE. THE ENTRANCE SHALL BE MAINTAINED IN GOOD CONDITION, WHICH WILL CONTROL TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR STREETS. WHEN NECESSARY, THE PLACEMENT OF ADDITIONAL AGGREGATE ATOP THE FILTER FABRIC SHALL BE DONE TO ASSURE THE MINIMUM THICKNESS IS MAINTAINED. ALL SEDIMENTS AND SOILS SPILLED, DROPPED, OR WASHED ONTO THE PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH SUBSTANTIAL RAINFALL EVENT.

2.DUST CONTROL - WATER TRUCKS SHALL BE USED, AS NEEDED, DURING CONSTRUCTION TO REDUCE DUST GENERATED ON THE SITE. DUST CONTROL MUST BE PROVIDED BY THE GENERAL CONTRACTOR TO A DEGREE THAT IS ACCEPTABLE TO THE OWNER/OPERATOR, AND IN COMPLIANCE WITH THE APPLICABLE LOCAL AND STATE DUST CONTROL REQUIREMENTS.

3. TEMPORARY SOIL STOCKPILE - MATERIALS, SUCH AS TOPSOIL, SHALL BE TEMPORARILY STOCKPILED (IF NECESSARY) ON THE SITE DURING THE CONSTRUCTION PROCESS. STOCKPILES SHALL BE LOCATED IN AN AREA AWAY FROM STORM DRAINAGE, WATER BODIES AND/OR COURSES, AND SHALL BE PROPERLY PROTECTED FROM EROSION BY A SURROUNDING SILT FENCE BARRIER OR HAY BALES WHEN LOCATED ON PAVED AREAS.

4.SILT FENCING - PRIOR TO THE INITIATION OF AND DURING CONSTRUCTION ACTIVITIES, SILT FENCING SHALL BE ESTABLISHED ALONG THE PERIMETER OF ALL AREAS TO BE DISTURBED AS A RESULT OF THE CONSTRUCTION WHICH LIE UP GRADIENT OF WATER COURSES OR ADJACENT PROPERTIES. THESE BARRIERS MAY EXTEND INTO NON-IMPACT AREAS TO ENSURE ADEQUATE PROTECTION OF ADJACENT LANDS. CLEARING AND GRUBBING SHALL BE PERFORMED ONLY AS NECESSARY FOR THE INSTALLATION OF THE SEDIMENT CONTROL BARRIER. TO ENSURE EFFECTIVENESS OF THE SILT FENCING, DAILY INSPECTIONS AND INSPECTIONS IMMEDIATELY AFTER SIGNIFICANT STORM EVENTS SHALL BE PERFORMED BY SITE PERSONNEL. MAINTENANCE OF THE FENCE SHALL BE PERFORMED

5. TEMPORARY SEEDING - WITHIN SEVEN DAYS AFTER CONSTRUCTION ACTIVITY CEASES ON ANY PARTICULAR AREA OF THE SITE, ALL DISTURBED AREAS WHERE THERE SHALL NOT BE CONSTRUCTION FOR LONGER THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND MULCHED TO MINIMIZE EROSION AND SEDIMENT LOSS.

6. TEMPORARY SEDIMENT BASIN - A TEMPORARY SEDIMENT BASIN SHALL BE CONSTRUCTED TO INTERCEPT SEDIMENT LADEN RUNOFF, REDUCE THE AMOUNT OF SEDIMENT LEAVING THE DISTURBED AREAS, AND PROTECT DRAINAGE WAYS, PROPERTIES, AND RIGHTS-OF-WAY. PROJECTS THAT HAVE PROPOSED STORMWATER PONDS CAN BE USED AS TEMPORARY SEDIMENT BASINS DURING CONSTRUCTION. TEMPORARY SEDIMENT BASINS SHALL BE INSPECTED AT LEAST EVERY SEVEN CALENDAR DAYS. ALL DAMAGES CAUSED BY SOIL EROSION AND CONSTRUCTION EQUIPMENT SHALL BE REPAIRED UPON DISCOVERY. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASIN/TRAP WHEN IT REACHES 50 PERCENT OF THE DESIGN CAPACITY AND SHALL NOT EXCEED 50 PERCENT. SEDIMENT SHALL NOT BE PLACED DOWNSTREAM FROM THE EMBANKMENT, ADJACENT TO A STREAM, OR FLOODPLAIN.

7.DEWATERING - DEWATERING, IF REQUIRED, SHALL NOT BE DISCHARGED DIRECTLY INTO WETLANDS, WATER COURSES, WATER BODIES, AND STORM SEWER SYSTEMS. PROPER METHODS AND DEVICES SHALL BE UTILIZED TO THE EXTENT PERMITTED BY LAW, SUCH AS PUMPING WATER INTO TEMPORARY SEDIMENT BASINS, PROVIDING SURGE PROTECTION AT THE INLET AND OUTLET OF PUMPS, FLOATING THE INTAKE OF THE PUMP, OR OTHER METHODS TO MINIMIZE AND

PERMANENT EROSION AND SEDIMENT CONTROL MEASURES TO BE UTILIZED AFTER CONSTRUCTION GENERALLY INCLUDE THE FOLLOWING:

1. ESTABLISHMENT OF PERMANENT VEGETATION - DISTURBED AREAS THAT ARE NOT COVERED BY IMPERVIOUS SURFACES SHALL BE SEEDED IN ACCORDANCE WITH THE ACCOMPANYING PLANS. THE TYPE OF SEED, MULCH, AND MAINTENANCE MEASURES SHALL BE FOLLOWED. ALL AREAS AT FINAL GRADE SHALL BE SEEDED AND MULCHED WITHIN SEVEN (7) DAYS AFTER COMPLETION OF THE MAJOR CONSTRUCTION ACTIVITY. ALL SEEDED AREAS SHALL BE PROTECTED WITH MULCH AND/OR HAY. FINAL SITE STABILIZATION IS ACHIEVED WHEN ALL SOIL-DISTURBING ACTIVITIES AT THE SITE HAS BEEN COMPLETED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 80 PERCENT HAS BEEN ESTABLISHED OR EQUIVALENT STABILIZATION MEASURES (SUCH AS THE USE OF MULCHES OR GEOTEXTILES) HAVE BEEN EMPLOYED ON ALL UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES.

2.FINAL SEEDING AND PLANTING - FINAL SEEDING AND PLANTING SHALL BE INSTALLED AS SHOWN ON THE ACCOMPANYING PLANS. FINAL SEEDING AND PLANTING WILL HELP MINIMIZE EROSION AND SEDIMENT LOSS.

3. ROCK OUTLET PROTECTION - ROCK OUTLET PROTECTION SHALL BE INSTALLED AT THE LOCATIONS AS SHOWN ON THE ACCOMPANYING PLANS. THE INSTALLATION OF ROCK OUTLET PROTECTION WILL REDUCE THE DEPTH, VELOCITY, AND ENERGY OF WATER, SUCH THAT THE FLOW WILL NOT ERODE THE RECEIVING WATER COURSE OR WATER BODY.

SPECIFIC EROSION AND SEDIMENT CONTROL MEASURES, INSPECTION FREQUENCY, AND REMEDIATION PROCEDURES ARE PROVIDED IN THE SUBSEQUENT SECTIONS AND

GOOD HOUSEKEEPING PRACTICES ARE DESIGNED TO MAINTAIN A CLEAN AND ORDERLY WORK ENVIRONMENT. GOOD HOUSEKEEPING MEASURES SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROCESS BY THOSE PARTIES INVOLVED WITH THE DIRECT CARE AND DEVELOPMENT OF THE SITE. THE FOLLOWING MEASURES SHOULD BE IMPLEMENTED TO CONTROL THE POSSIBLE EXPOSURE OF HARMFUL SUBSTANCES AND MATERIALS TO STORMWATER RUNOFF:

1. MATERIAL RESULTING FROM THE CLEARING AND GRUBBING OPERATION SHALL BE STOCKPILED AWAY FROM STORM DRAINAGE, WATER BODIES AND/OR WATERCOURSES AND SURROUNDED WITH ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES. SOIL STOCKPILE LOCATIONS SHALL BE EXPOSED NO LONGER

2.EQUIPMENT MAINTENANCE AREAS SHALL BE PROTECTED FROM STORMWATER FLOWS AND SHALL BE SUPPLIED WITH APPROPRIATE WASTE RECEPTACLES FOR SPENT CHEMICALS, SOLVENTS, OILS, GREASES, GASOLINE, AND ANY POLLUTANTS THAT MIGHT CONTAMINATE THE SURROUNDING HABITAT AND/OR WATER SUPPLY. EQUIPMENT WASH-DOWN ZONES SHALL BE LOCATED WITHIN AREAS DRAINING TO SEDIMENT CONTROL DEVICES.

3. THE USE OF DETERGENTS FOR LARGE-SCALE (I.E., VEHICLES, BUILDINGS, PAVEMENT SURFACES, ETC.) WASHING IS PROHIBITED.

4.MATERIAL STORAGE LOCATIONS AND FACILITIES (I.E., COVERED STORAGE AREAS, STORAGE SHEDS, ETC.) SHALL BE LOCATED ONSITE AND SHALL BE STORED ACCORDING TO THE MANUFACTURER'S STANDARDS IN A DEDICATED STAGING AREA. CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER TOXIC MATERIAL MUST BE STORED IN WATERPROOF CONTAINERS. RUNOFF CONTAINING SUCH MATERIALS MUST BE COLLECTED, REMOVED FROM THE SITE, TREATED AND DISPOSED AT AN APPROVED SOLID WASTE OR CHEMICAL DISPOSAL FACILITY.

5. HAZARDOUS SPILLS SHALL BE IMMEDIATELY CONTAINED TO PREVENT POLLUTANTS FROM ENTERING THE SURROUNDING HABITAT AND/OR WATER SUPPLY. SPILL KITS SHALL BE PROVIDED ONSITE AND SHALL BE DISPLAYED IN A PROMINENT LOCATION FOR EASE OF ACCESS AND USE. SPILLS GREATER THAN FIVE (5) GALLONS SHALL BE REPORTED TO THE NYSDEC RESPONSE UNIT AT 1-800-457-7362. IN ADDITION, A RECORD OF THE INCIDENT(S) AND/OR NOTIFICATIONS SHALL BE DOCUMENTED AND ATTACHED TO THE SWPPP.

6.PORTABLE SANITARY WASTE FACILITIES SHALL BE PROVIDED ONSITE FOR WORKERS AND SHALL BE PROPERLY MAINTAINED.

7.DUMPSTERS AND/OR DEBRIS CONTAINERS SHALL BE LOCATED ONSITE AND SHALL BE OF ADEQUATE SIZE TO MANAGE RESPECTIVE MATERIALS. REGULAR COLLECTION AND DISPOSAL OF WASTES SHALL OCCUR AS REQUIRED.

8. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED AND DISPOSED OF. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED AND/OR REPAIRED, SEEDED, AND

9.NON-STORMWATER COMPONENTS OF SITE DISCHARGE MUST BE CLEAN WATER. WATER USED FOR CONSTRUCTION, WHICH DISCHARGES FROM THE SITE, MUST ORIGINATE FROM A PUBLIC WATER SUPPLY OR PRIVATE WELL APPROVED BY THE HEALTH DEPARTMENT. WATER USED FOR CONSTRUCTION THAT DOES NOT ORIGINATE FROM AN APPROVED PUBLIC SUPPLY MUST NOT DISCHARGE FROM THE SITE. IT CAN BE RETAINED IN THE PONDS UNTIL IT INFILTRATES AND

- l<u>b./acre</u>
- KENTUCKY BLUE GRASS RYE GRASS OR REDTOP
- 3. SEEDING

BRIAN HILDENBRAND, P.E.

LIC# 092374

- a.) PREPARE SEED BED BY RAKING TO REMOVE ROOTS AND OTHER STONES, TWIGS,
- FOREIGN MATERIA b.) APPLY SOIL AMENDMENTS AND INTEGRATE
- INTO SOIL c.) APPLY SEED UNIFORMLY BY CYCLONE
- SEEDER CULTI-PACKER OR HYDRO-SEEDER AT RATE INDICATED.
- d.) STABILIZE SEEDED AREAS IN DRAINAGE SWALES.
- e.) IRRIGATE TO FULLY SATURATE SOIL LAYER,
- BUT NOT TO DISLODGE PLANTING SOIL f.) SEED BETWEEN MARCH 15TH TO MAY 31ST

TEMPORARY VEGETATIVE COVER: 1. SITE PREPARATION a.) INSTALL EROSION CONTROL MEASURES.

- b.) SCARIFY AREAS OF COMPACTED SOIL. c.) FERTILIZE WITH 10-10-10 AT 400/ACRE
- d.) LIME AS REQUIRED TO PH 6.5.
- 2. SEED SPECIES MIXTURE LB./ACRE PERENNIAL RYEGRASS CEREAL OATS
- SEEDING SAME AS PERMANENT VEGETATIVE COVER

0

AND SEPTEMBER 1ST TO NOVEMBER 15TH. SEEDING MAY OCCUR BETWEEN MAY 31ST AND AUGUST 15TH IF ADEQUATE IRRIGATION IS PROVIDED. **VEGETATION SPECIFICATIONS** PROJECT 51 PINE HILL DRIVE TOWN OF LEWISBORO.WESTCHESTER COUNTY. NEW YORK DRAWING: **DETAILS & NOTES** DRAWING NO .: DATE: 07-28-2021 SHEET: 3 ROJECT NO. D. AS SHOWN CALE:

RAWN BY:

B.J.H.

Stormwater Pollution Prevention Plan

51 Pine Hill Drive Town of Lewisboro

July 1, 2021



Hildenbrand Engineering, PLLC Hopewell Junction, NY 12533

Brian@HildenEng.com



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1 Executive Summary

This Stormwater Pollution Prevention Plan (SWPPP) and accompanying project plans have been prepared for the construction activities associated with 51 Pine Hill Drive located in the Town of New Lewisboro, New York. The stormwater management, pollution prevention, and erosion and sediment control measures identified and detailed in this SWPPP and on the accompanying project plans have been designed in accordance with the requirements of the Town of Lewisboro and the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Phase II technical standards.

The proposed project:

- 1. Maintains the existing drainage patterns..
- 2. Controls increases in the rate of stormwater runoff resulting from the proposed development without adversely affecting adjacent or downstream properties or receiving wetlands, watercourses or bodies.
- 3. Reducing potential stormwater quality impacts and soil erosion resulting from stormwater runoff generated both during and after construction.

The pre- and post-development stormwater runoff conditions have been reviewed and evaluated. The proposed stormwater management facilities have been designed to provide both water quality and quantity controls. Stormwater runoff will be detained, treated, and released at a rate equal to or less than that which existed prior to development of the project site.

2 **Project Description**

The Stein family owns 34 Pine Hill Drive. The subject lot is 4.69 acres and located on the north side of Pine Hill Drive. Access to the site is via an existing commons driveway shard by 3 total parcels. The property is located in the R-2A Zoning District.

2.1 **Pre-Development Conditions**

The site is currently a wooded vacant lot. An over head utility easement traverses the site along the eastern property line. There is a local wetland and water course located through the center of the lot, flowing south to north

Stormwater runoff generally flows overland to the north, towards the onsite wetland.

2.2 Post-Development Conditions

The proposal includes the construction of single-family residence, asphalt driveway, well, septic and typical yard areas.

Runoff from the new impervious area will be collected and conveyed to a proposed rain garden. Soil testing was performed in the proposed stormwater treatment area. The soils had a depth to bedrock of greater than 7', no groundwater and a very fast percolation rate. Therefore, the rain garden will be constructed without an underdrain to take advantage of the infiltration.



The proposed stormwater management facilities will treat the stormwater runoff generated from the proposed development prior to discharging and leaving the site in a controlled manner. Therefore, no adverse impacts to groundwater are anticipated as a result of the development.

3 Construction Sequencing

The total disturbance of the proposed project is 0.9 acres. The proposed project will be completed in a single phase. The construction sequencing is outlined on the accompanying plans and is provided below. The construction sequencing is as follows:

- 1. The Contractor shall flag the limits of disturbance prior to the commencement of construction. Bright orange construction fencing shall be used to demarcate the limits of disturbance to ensure over clearing does not occur.
- 2. All temporary erosion and sediment control measures (e.g., stabilized construction entrances, silt fencing, storm drain inlet protection, etc.) shall be installed as shown on the project plans. Temporary erosion and sediment control measures shall be constructed, stabilized, and functional before site disturbance begins within their tributary areas.
- 3. Stake out the locations of the limits of disturbance, proposed stormwater management facilities, and improvements (e.g., roadways, etc.).
- 4. Remove trees, stumps, and vegetation within the disturbance limits in accordance with the project plans. All stumps shall be stockpiled for either grinding in-place or removal from site. The stump pile shall be protected in accordance with the stockpile detail on the project plans as appropriate. Stump burial is prohibited
- 5. Rough grade the site. Place surplus material in the temporary soil stockpile locations shown on the project plans.
- 6. Construct all site utilities and utility service connections as shown on the project plans.
- 7. Finish grading and stabilize all disturbed areas. All erosion and sediment control measures must be left in place to prevent sediment from entering the infiltration practices. The Contractor shall clean all catch basins, manholes, and drainage lines of any accumulated silt and sediment prior to finalizing the infiltrations area.
- 8. Remove all temporary erosion and sediment control measures. Immediately stabilize the areas disturbed during their removal. Establish permanent vegetative cover and install all landscaping.

4 Erosion and Sediment Control Plan

This SWPPP and accompanying project plans identify both temporary and permanent erosion and sediment control measures, which have been designed in accordance with the *New York State Standards and Specifications for Erosion and Sediment Control*, latest revision. Temporary erosion and sediment control



measures will be implemented during construction to minimize soil erosion and control sediment transport off-site. Permanent erosion and sediment control measures will be implemented after construction to control the quality and quantity of stormwater runoff from the developed site.

4.1 Erosion and Sediment Control Measures

Temporary erosion and sediment control measures to be utilized during construction generally include the following:

- 1. **Stabilized Construction Entrance** Prior to construction, stabilized construction entrances shall be installed to reduce the tracking of sediment onto public roadways. Construction traffic must enter and exit the site at the stabilized construction entrance. The entrance shall be maintained in good condition, which will control tracking of sediment onto public rights-of-way or streets. When necessary, the placement of additional aggregate atop the filter fabric shall be done to assure the minimum thickness is maintained. All sediments and soils spilled, dropped, or washed onto the public rights-of-way must be removed immediately. Periodic inspection and needed maintenance shall be provided after each substantial rainfall event.
- 2. **Dust Control** Water trucks shall be used, as needed, during construction to reduce dust generated on the site. Dust control must be provided by the general contractor to a degree that is acceptable to the owner/operator, and in compliance with the applicable local and state dust control requirements.
- 3. **Temporary Soil Stockpile** Materials, such as topsoil, shall be temporarily stockpiled (if necessary) on the site during the construction process. Stockpiles shall be located in an area away from storm drainage, water bodies and/or courses, and shall be properly protected from erosion by a surrounding silt fence barrier or hay bales when located on paved areas.
- 4. **Silt Fencing** Prior to the initiation of and during construction activities, silt fencing shall be established along the perimeter of all areas to be disturbed as a result of the construction which lie up gradient of water courses or adjacent properties. These barriers may extend into non-impact areas to ensure adequate protection of adjacent lands. Clearing and grubbing shall be performed only as necessary for the installation of the sediment control barrier. To ensure effectiveness of the silt fencing, daily inspections and inspections immediately after significant storm events shall be performed by site personnel. Maintenance of the fence shall be performed as needed.
- 5. **Temporary Seeding** Within seven days after construction activity ceases on any particular area of the site, all disturbed areas where there shall not be construction for longer than 14 days shall be temporarily seeded and mulched to minimize erosion and sediment loss.
- 6. **Dewatering** Dewatering, if required, shall not be discharged directly into wetlands, water courses, water bodies, and storm sewer systems. Proper methods and devices shall be utilized to the extent permitted by law, such as pumping water into temporary sediment basins, providing surge protection at the inlet and outlet of pumps, floating the intake of the pump, or other methods to minimize and retain the suspended solids.



Permanent erosion and sediment control measures to be utilized after construction generally include the following:

- 1. Establishment of Permanent Vegetation Disturbed areas that are not covered by impervious surfaces shall be seeded in accordance with the accompanying plans. The type of seed, mulch, and maintenance measures shall be followed. All areas at final grade shall be seeded and mulched within seven (7) days after completion of the major construction activity. All seeded areas shall be protected with mulch and/or hay. Final site stabilization is achieved when all soil-disturbing activities at the site has been completed and a uniform, perennial vegetative cover with a density of 80 percent has been established or equivalent stabilization measures (such as the use of mulches or geotextiles) have been employed on all unpaved areas and areas not covered by permanent structures.
- 2. **Final Seeding and Planting** Final seeding and planting shall be installed as shown on the accompanying plans. Final seeding and planting will help minimize erosion and sediment loss.
- 3. **Rock Outlet Protection** Rock outlet protection shall be installed at the locations as shown on the accompanying plans. The installation of rock outlet protection will reduce the depth, velocity, and energy of water, such that the flow will not erode the receiving water course or water body.

Specific erosion and sediment control measures, inspection frequency, and remediation procedures are provided in the subsequent sections and on the accompanying project plans.

4.2 **Pollution Prevention Controls**

Good housekeeping practices are designed to maintain a clean and orderly work environment. Good housekeeping measures shall be maintained throughout the construction process by those parties involved with the direct care and development of the site. The following measures should be implemented to control the possible exposure of harmful substances and materials to stormwater runoff:

- 1. Material resulting from the clearing and grubbing operation shall be stockpiled away from storm drainage, water bodies and/or watercourses and surrounded with adequate erosion and sediment control measures. Soil stockpile locations shall be exposed no longer than 14 days before seeding.
- 2. Equipment maintenance areas shall be protected from stormwater flows and shall be supplied with appropriate waste receptacles for spent chemicals, solvents, oils, greases, gasoline, and any pollutants that might contaminate the surrounding habitat and/or water supply. Equipment wash-down zones shall be located within areas draining to sediment control devices.
- 3. The use of detergents for large-scale (i.e., vehicles, buildings, pavement surfaces, etc.) washing is prohibited.



- 4. Material storage locations and facilities (i.e., covered storage areas, storage sheds, etc.) shall be located onsite and shall be stored according to the manufacturer's standards in a dedicated staging area. Chemicals, paints, solvents, fertilizers, and other toxic material must be stored in waterproof containers. Runoff containing such materials must be collected, removed from the site, treated and disposed at an approved solid waste or chemical disposal facility.
- 5. Hazardous spills shall be immediately contained to prevent pollutants from entering the surrounding habitat and/or water supply. Spill Kits shall be provided onsite and shall be displayed in a prominent location for ease of access and use. Spills greater than five (5) gallons shall be reported to the NYSDEC Response Unit at 1-800-457-7362. In addition, a record of the incident(s) and/or notifications shall be documented and attached to the SWPPP.
- 6. Portable sanitary waste facilities shall be provided onsite for workers and shall be properly maintained.
- 7. Dumpsters and/or debris containers shall be located onsite and shall be of adequate size to manage respective materials. Regular collection and disposal of wastes shall occur as required.
- 8. Temporary concrete washout facilities should be located a minimum of 50 feet from storm drain inlets, open drainage facilities, and watercourses. Each facility should be located away from construction traffic or access areas to prevent disturbance or tracking. A sign should be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities. When temporary concrete washout facilities are no longer required for the work, the hardened concrete shall be removed and disposed of. Materials used to construct the temporary concrete washout facilities shall be removed and disposed of. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities shall be backfilled and/or repaired, seeded, and mulched for final stabilization.
- 9. Non-stormwater components of site discharge must be clean water. Water used for construction, which discharges from the site, must originate from a public water supply or private well approved by the Health Department. Water used for construction that does not originate from an approved public supply must not discharge from the site. It can be retained in the ponds until it infiltrates and evaporates.



4.3 Soil Restoration

The soils within in the limits of disturbance are Type A soils. In accordance with Table 5.3 of the *New York State Stormwater Management Design Manual*, the soils shall be restored as outlined in <u>Table 1</u> below:

Type of Soil Disturbance	Soil Postoration Poquiromont	Commont
Type of Son Disturbance	Son Restoration Requirement	Comment
No soil disturbance	Restoration not permitted	Protect from any ongoing construction
(preservation of natural features)		activity
Minimal soil disturbance	Restoration not permitted	Clearing and grubbing activities
Areas where topsoil is stripped	Apply 6" of topsoil	Protect from any ongoing construction
only (no change in grade)		activity
Areas of cut or fill	Aerate and apply 6" of topsoil	Aeration includes the use of machines
		such as tractor-drawn implements with
		coulters making a narrow slit in the
		soils, a roller with many spikes making
		indentations in the soil, or prongs with
		function like a mini-subsoiler.
Heavy traffic areas on site	Apply full soil restoration (de-	Deep rip the affected thickness of the
(especially in a zone 5-25' around	compaction and compost	exposed subsoil material, aggressively
buildings but not within a 5'	enhancement)	fracturing it before the protected
perimeter around foundation walls)		topsoil is reapplied on site. De-
		compact simultaneously through the
		restored topsoil layer and the upper
		half of the affected subsoil.
Areas where runoff reduction	Restoration not required, but may	Protect from any ongoing construction
and/or infiltration practices are	be applied to enhance the	activity
applied	reduction specified for appropriate	
	practices.	

Table 1: Soil Restoration

During periods of relatively low to moderate subsoil moisture, the disturbed soils are returned to rough grade and the following soil restoration steps are applied:

- 1. Apply 3-inches of compost over subsoil.
- 2. Till compost into subsoil to a depth of at least 12" using a cat-mounted ripper, tractormounted disc, or tiller, mixing and circulating air and compost into subsoils.
- 3. Rock-pick until uplifted stone/rock materials of 4-inches and larger size are cleaned off the site.
- 4. Apply topsoil to a depth of 6-inches.
- 5. Vegetate as required by the project plans.

5 Stormwater Management Plan

The goals of this Stormwater Management Plan are to:

- 1. Analyze the peak rate of runoff under pre- and post-development conditions.
- 2. Maintain the pre-development rate of runoff in order to minimize impacts to adjacent or downstream properties.



3. Minimize the impact of the quality of runoff exiting the site.

These objectives will be met by applying Green Infrastructure Practices and Best Management Practices (BMPs). Stormwater runoff from the proposed project will be collected and conveyed to the proposed stormwater management facilities. Stormwater runoff will be detained, treated, and released at a rate equal to or less than that which existed prior to development of the project site.

5.1 Hydrologic Analysis

The study area was made up of one subcatchment for pre-development conditions and postdevelopment conditions. This was dictated by watershed conditions, methods of collection, conveyance, and points of discharge. Watershed delineations were defined using the surveyed site topography.

HydroCAD, a Computer-Aided-Design (CAD) program, was used to analyze the hydrologic characteristics of the pre-development watershed conditions, post-development watershed conditions, and proposed stormwater management systems. HydroCAD has the capability of computing hydrographs (which represents discharge rates characteristic of specified watershed conditions, precipitation, and geologic factors), combining hydrographs, and routing flows though pipes, streams, channels, and ponds.

5.1.1 Rainfall Data

Rainfall data utilized in the modeling and analysis was obtained from National Weather Service (NWS) Technical Paper 40 (TP-40), Rainfall Frequency Atlas of the U.S. Weather Bureau, published by the U.S. Department of Commerce. A Type III rainfall distribution was used to evaluate the pre- and post-development stormwater runoff conditions for the 1-, 10-, and 100-year 24-hour storm events for the project site. Rainfall data specific to the portion of Westchester County under consideration is provided in <u>Table 2</u> below.

Table 2. Kainan Data			
Storm Event	24-Hour Rainfall		
1-year	2.84 inches		
10-year	5.10 inches		
25- year	6.40 inches		
50-year	7.61 inches		
100-year	9.06 inches		

Table 2: Rainfall Data



5.1.2 Unified Stormwater Sizing Criteria

5.1.2.1 Water Quantity Control

5.1.3 Comparison of Peak Discharge Rates

A comparison of the pre- and post-development peak discharge rates is provided in <u>Table 3</u> below.

• • • • • • • • • • • • • • • • • • •					
Storm Event	Pre (cfs)	Post (cfs)	Difference		
1-year	0.31	0.00	-100%		
10-year	1.53	0.00	-100%		
25-year	2.39	0.00	-100%		
50-year	3.24	1.08	-66%		
100-year	4.31	0.00	-28%		

Table 3: Comparison of Pre- & Post-Development Peak Discharge Rates

Comparison of the peak discharge rates for pre- and post-development watershed conditions demonstrates a complete infiltration of all rain event, including the 25-year storm with significant reductions in the 50 and 100-year storms. Therefore, the proposed development will not adversely impact the downstream or adjacent properties, receiving water bodies or courses, or wetlands. The results of the computer modeling used to analyze the pre- and post-development watershed conditions are presented in <u>Appendix A</u> and <u>Appendix B</u>, respectively.

ENG		1		Γ	51 Pine Hil	Stormwater F 1 Drive, Lewi
Description of Remedy Procedures	-Remove -Remove -Replace and/or repair, as necessary -Remove pollutants from catch basins.	-Remove (sweep min. 2 times/year) -Remove	-Stabilize and restore to original specs - Stabilize and restore to original specs -Remove - Stabilize and restore to original specs	-Restore original specs -Remove -Mow a min. of 3 times/year. May increase for aesthetic reasons. -Remove	-Remove -Remove -Remove in early spring by sweeping	- Stabilize and restore to original specs -Repair and restore to original specs -Mow
Description of Inspection Parameters	-Accumulated sediment in catch basin sumps -Accumulated debris and litter -Damage or fatigue of storm structures or associated components -Accumulation of pollutants, including oils	-Accumulated sediment in paved areas -Accumulated debris and litter	 Differential settlement of embankments Embankment erosion Animal burrows Cracking, bulging, or sliding of embankment 	-Vegetation: 80% coverage + less than 15% invasive plant species -Unauthorized plantings -Undesirable vegetative growth -Accumulated debris and litter	-Accumulation of snow and ice on catch basins, inlet and outlet structures, and end sections -Stock piled snow near inlets and outlets -Remaining deicing materials	-Erosion of side slopes -Formation of rills or gullies -Excess grass growth
Frequency	Annual & After Major Storms	Biannual/ Annual	Annual	Annual	Monthly	Monthly
Maintenance Item	Site Structures	Pavement	Embankments	Grass and Landscaped areas	Winter Maintenance	Swales

Table 4: General Site Post-Construction Inspection and Maintenance

-Remove -Remove & replace any damaged vegetation

-Remove

-Accumulated debris, litter, or sediment

-Undesirable vegetative growth

-Residual deicing materials (sand)



6 Conclusion

This Stormwater Pollution Prevention Plan for the for 51 Pine Hill Drive incorporates an Erosion and Sediment Control Plan and Stormwater Management Plan. The SWPPP identifies the measures to be implemented during construction to minimize soil erosion and control sediment transport offsite, and after construction to control the water quality and quantity of stormwater runoff from the developed site to minimize adverse effects to downstream conditions.

This Stormwater Pollution Prevention Plan has been developed in accordance with the requirements of the Town of New Castle and the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Phase II technical standards. It is our opinion that the proposed project will not adversely impact adjacent or downstream properties, or receiving surface waters or wetlands, if the erosion and sediment control measures and stormwater management facilities are properly constructed, and maintained in accordance with the requirements outlined herein.



Appendix A

Pre-Development HydroCAD Analysis



Area Listing (selected nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
0.750	66	Woods, Poor, HSG B (2S)
0.750	66	TOTAL AREA

Summary for Subcatchment 2S: Existing

Runoff = 0.31 cfs @ 12.11 hrs, Volume= 0.029 af, Depth= 0.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs Type III 24-hr 1-YR Rainfall=2.84"

32,680 66 Woods, Poor, HSG B 32,680 100.00% Pervious Area Tc Length Slope Velocity Capacity Description (min) (feet) (ft/ft) (ft/sec) (cfs) 5.0 Direct Entry, Subcatchment 2S: Existing Hydrograph 0.32 0.31 cfs Type III 24-hr 0.32 0.31 cfs Type III 24-hr 0.28 0.24 Runoff Area=32,680 sf 0.24 Runoff Volume=0.029 af 0.16 Runoff Depth=0.47" 0.18 CN=66 0.04 0.04	A	rea (sf)	CN D	escription			
32,680 100.00% Pervious Area		32,680	66 V	loods, Poo	r, HSG B		
Tc Length (feet) Slope (ft/ft) Velocity (cfs) Description (cfs) 5.0 Direct Entry, Subcatchment 2S: Existing Hydrograph 0.34 0.31 cfs 0.32 0.31 cfs 0.33 0.31 cfs 0.34 0.31 cfs 0.32 0.31 cfs 0.34 Type III 24-hr 0.24 1-YR Rainfall=2.84" 0.24 Runoff Area=32,680 sf 0.34 Runoff Volume=0.029 af 0.14 Tc=5.0 min 0.14 CN=66 0.04 0.02		32,680	1	00.00% Pe	rvious Are	a	
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0.02	0.04-						
	0.02					i i i i i i i i i i i i i i i i i i i	
┚╫┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼┉┼	0-			<u>, , , , , , , , , , , , , , , , , , , </u>	· · · · · ·		ļ

Summary for Subcatchment 2S: Existing

Runoff = 1.53 cfs @ 12.09 hrs, Volume= 0.112 af, Depth= 1.80"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs Type III 24-hr 10-YR Rainfall=5.10"



Summary for Subcatchment 2S: Existing

Runoff = 2.39 cfs @ 12.08 hrs, Volume= 0.171 af, Depth= 2.74"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs Type III 24-hr 25-YR Rainfall=6.40"



Summary for Subcatchment 2S: Existing

Runoff = 3.24 cfs @ 12.08 hrs, Volume= 0.231 af, Depth= 3.69"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs Type III 24-hr 50-YR Rainfall=7.61"



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Summary for Subcatchment 2S: Existing

Runoff = 4.31 cfs @ 12.08 hrs, Volume= 0.306 af, Depth= 4.89"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs Type III 24-hr 100-YR Rainfall=9.06"





Appendix B

Post-Development HydroCAD Analysis



Area Listing (selected nodes)

Area	CN	Description
(acres)		(subcatchment-numbers)
0.711	69	50-75% Grass cover, Fair, HSG B (1S)
0.131	98	House & Drive (1S)
0.842	73	TOTAL AREA

Summary for Subcatchment 1S: PROPOSED

Runoff = 0.58 cfs @ 12.16 hrs, Volume= Routed to Pond 3P : Rain Garden 0.053 af, Depth= 0.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs Type III 24-hr 1-YR Rainfall=2.84"

	A	rea (sf)	CN	Description									
*		5,688	98	House & Dr	House & Drive								
		30,992	69	50-75% Gra	0-75% Grass cover, Fair, HSG B								
		36,680	73	Weighted A	verage								
		30,992		84.49% Pervious Area									
		5,688		15.51% Imp	pervious Ar	rea							
_(Tc min)	Length (feet)	Slop (ft/fl	e Velocity) (ft/sec)	Capacity (cfs)	Description							
	10.0					Direct Entry,							

Subcatchment 1S: PROPOSED



Summary for Reach 4R: Design Point

Inflow A	rea =	0.842 ac, 1	5.51% Impervious,	Inflow Depth = 0.0	00" for 1-YR event
Inflow	=	0.00 cfs @	0.00 hrs, Volume	= 0.000 af	
Outflow	=	0.00 cfs @	0.00 hrs, Volume	= 0.000 af,	Atten= 0%, Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs

Reach 4R: Design Point



Summary for Pond 3P: Rain Garden

Inflow Area = 0.842 ac, 15.51% Impervious, Inflow Depth = 0.76" for 1-YR event Inflow = 0.58 cfs @ 12.16 hrs, Volume= 0.053 af Outflow = 0.45 cfs @ 12.10 hrs, Volume= 0.054 af, Atten= 24%, Lag= 0.0 min Discarded = 0.45 cfs @ 12.10 hrs, Volume= 0.054 af Primary = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af Routed to Reach 4R : Design Point 0.00-36.00 hrs, dt= 0.05 hrs / 4											
Peak Elev= 485.72' @ 12.27 hrs Surf.Area= 770 sf Storage= 67 cf											
Plug-Flow detention time= (not calculated: outflow precedes inflow) Center-of-Mass det. time= 0.5 min (877.9 - 877.4)											
Volume	Invert	Avail.Stor	age	Storage De	escription						
#1	488.00'	1,97	'0 cf	Storage A	bove Surfa	ce (Prisi	matic)Liste	d below (Recalc)			
#2	486.00'	46	62 cf	Soil Media	(Prismatio verall x 30.	c)Listed b 0% Voids	pelow (Rec	alc)			
#3	485.50'	15	54 cf	Gravel (Pr 385 cf Ove	rismatic)Listerall x 40.0	sted belov % Voids	w (Recalc)				
-		2,58	36 cf	Total Avail	able Storag	е					
Elevation	Surf A	lrea	Inc	Store	Cum Stor	۵					
(feet)	(s	a-ft)	(cubic	-feet)	(cubic-feet	t)					
488.00	(-	770	(0	(0					
490.00	1,	200		1,970	1,97	0					
Elevation	Surf.A	Area	Inc.	Store	Cum.Stor	е					
(feet)	(s	q-ft)	(cubic	-feet)	(cubic-feet	t)					
486.00		770		0		0					
488.00		770	-	1,540	1,54	0					
Elevation	Surf.A	Area	Inc.	Store	Cum.Stor	е					
(feet)	(s	q-ft)	(cubic	-feet)	(cubic-feet	t)					
485.50		770		0		0					
486.00		770		385	38	5					
Device R	outing	Invert	Outle	t Devices							
#1 Di	iscarded	485.50'	25.00	0 in/hr Ext	filtration ov	/er Surfa	ice area fr	om 485.00' - 488.00'			
#2 Primary 489.50' 10.0' long x 3.0' breadth Broad-Crested Rectangular We Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.30 2.50 3.00 3.50 4.00 4.50 0.20 0.44 2.58 2.68 2.67 2.65 2.64 2.68 2.72 2.81 2.92 2.97 3.07 3.32						t angular Weir 1.40 1.60 1.80 2.00 64 2.64 2.68 2.68					

Discarded OutFlow Max=0.45 cfs @ 12.10 hrs HW=485.55' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 0.45 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=485.50' (Free Discharge) **2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)



Pond 3P: Rain Garden

Summary for Subcatchment 1S: PROPOSED

Runoff = 2.00 cfs @ 12.15 hrs, Volume= Routed to Pond 3P : Rain Garden 0.166 af, Depth= 2.36"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs Type III 24-hr 10-YR Rainfall=5.10"

	A	rea (sf)	CN	Description								
*		5,688	98	House & Dr	ouse & Drive							
		30,992	69	50-75% Gra	0-75% Grass cover, Fair, HSG B							
		36,680	73	73 Weighted Average								
		30,992		84.49% Pervious Area								
		5,688		15.51% Imp	pervious Ar	ea						
	Tc (min)	Length (feet)	Slop (ft/ft	e Velocity (ft/sec)	Capacity (cfs)	Description						
	10.0					Direct Entry,						

Subcatchment 1S: PROPOSED

Hydrograph



Summary for Reach 4R: Design Point

Inflow /	Area :	=	0.842 ac,	15.51% Impe	ervious,	Inflow Depth =	0.0	0" for 10-	YR event
Inflow	=	=	0.00 cfs @	0.00 hrs,	Volume	= 0.000	af		
Outflow	v =	=	0.00 cfs @	0.00 hrs,	Volume	= 0.000) af,	Atten= 0%,	Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs

Reach 4R: Design Point


Summary for Pond 3P: Rain Garden

Inflow Area Inflow Outflow Discarded Primary Routed Routing by Peak Elev=	= 0.8 = 2.00 = 1.34 = 1.34 = 0.00 to Reach 4R Stor-Ind met = 488.13' @ 2	42 ac, 15.5) cfs @ 12 4 cfs @ 12 4 cfs @ 12 0 cfs @ 0 : Design P thod, Time 3 12.29 hrs	51% Impo 2.15 hrs, 2.20 hrs, 2.20 hrs, 0.00 hrs, 0.00 hrs, 0.01 hrs, 0.01 hrs, 0.01 hrs, 0.02 hrs, 0.02 hrs, 0.02 hrs, 0.02 hrs, 0.02 hrs, 0.02 hrs, 0.02 hrs, 0.02 hrs, 0.02 hrs, 0.00 hr	ervious, li Volume= Volume= Volume= Volume= .00-36.00 a= 2,338 s	nflow Depth 0.1 0.1 0.1 0.1 0.1 0.0 hrs, dt= 0.0	= 2.36' 66 af 65 af, A 65 af 000 af 5 hrs / 4 = 719 cf	' for 10-YR ev tten= 33%, Lag	′ent = 3.1 min
Center-of-N	lass det. tim	e= 7.6 min e= 4.2 min	(846.9 -	842.7)	5 al (99% C	n milow)		
Volume	Invert	Avail.Stor	age St	orage Des	scription			
#1	488.00'	1,97	'0 cf St	orage Ab	ove Surfac	e (Prism	atic)Listed below	w (Recalc)
#2	486.00'	46	2 cf So 1.5	540 cf Ove	(Prismatic) erall x 30.0	Listed be % Voids	low (Recalc)	
#3	485.50'	15	4 cf G i 38	r avel (Pris 35 cf Over	smatic)List	ed below Voids	(Recalc)	
		2,58	6 cf To	otal Availa	ble Storage			
Elevation	Surf.	Area	Inc.Ste	ore	Cum.Store			
(feet)	(s	sq-ft)	(cubic-fe	et)	(cubic-feet)			
488.00		770		0	0			
490.00	1	,200	1,9	70	1,970			
Elevation	Surf.	Area	Inc.Sto	ore	Cum.Store			
(feet)	(ទ	sq-ft)	(cubic-fe	et)	(cubic-feet)			
486.00		770	4 -	0	0			
488.00		//0	1,5	40	1,540			
Elevation	Surf.	Area	Inc.Sto	ore	Cum.Store			
	(5	<u>3q-ii)</u>	<u>ei-olauo)</u>	<u>el)</u>	(Jeel-Sidus)			
485.50 486.00		770 770	3	0 885	0 385			
Device R	outina	Invert	Outlet D	Devices				
#1 D	iscarded	485.50'	25.000	in/hr Exfil	Itration ove	er Surfac	e area from 48	5.00' - 488.00'
#2 Pi	rimary	489.50'	10.0' lo Head (fe 2.50 3. Coef. (E 2.72 2.	ng x 3.0' eet) 0.20 00 3.50 4 English) 2 81 2.92 2	breadth Bi 0.40 0.60 4.00 4.50 .44 2.58 2 2.97 3.07 (road-Cre 0.80 1.0 .68 2.67 3.32	sted Rectangul 00 1.20 1.40 1 2.65 2.64 2.64	ar Weir .60 1.80 2.00 4 2.68 2.68

Discarded OutFlow Max=1.34 cfs @ 12.20 hrs HW=488.05' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 1.34 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=485.50' (Free Discharge) 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)



Pond 3P: Rain Garden

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Summary for Subcatchment 1S: PROPOSED

Runoff = 2.92 cfs @ 12.15 hrs, Volume= Routed to Pond 3P : Rain Garden 0.240 af, Depth= 3.42"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs Type III 24-hr 25-YR Rainfall=6.40"

	A	rea (sf)	CN	Description						
*		5,688	98	House & Dr	House & Drive					
		30,992	69	50-75% Gra	0-75% Grass cover, Fair, HSG B					
		36,680	73	73 Weighted Average						
		30,992		84.49% Pervious Area						
		5,688		15.51% Imp	pervious Are	rea				
	Tc (min)	Length (feet)	Slop (ft/ft	e Velocity) (ft/sec)	Capacity (cfs)	Description				
	10.0					Direct Entry,				

Subcatchment 1S: PROPOSED

Hydrograph



Summary for Reach 4R: Design Point

Inflow /	Area :	=	0.842 ac,	15.51% Impe	ervious,	Inflow Depth =	0.0	0" for 25-	YR event
Inflow	=	=	0.00 cfs @	0.00 hrs,	Volume	= 0.000	af		
Outflov	v =	=	0.00 cfs @	0.00 hrs,	Volume	= 0.000) af,	Atten= 0%,	Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs

Reach 4R: Design Point



Summary for Pond 3P: Rain Garden

Inflow Area Inflow Outflow Discarded Primary Routed Routing by Peak Elev=	= 0.84 = 2.92 = 1.34 = 1.34 = 0.00 to Reach 4R Stor-Ind metl = 489.06' @ 1	2 ac, 15.5 cfs @ 12. cfs @ 12. cfs @ 12. cfs @ 12. cfs @ 0. : Design Po hod, Time S 2.41 hrs S	1% Impervious, 15 hrs, Volume 10 hrs, Volume 10 hrs, Volume 00 hrs, Volume oint Span= 0.00-36.0 Surf.Area= 2,538	Inflow Depth = = 0.240 = 0.240 = 0.240 = 0.000 0 hrs, dt= 0.05 h sf Storage= 1	3.42" for 25-YR event af af, Atten= 54%, Lag= 0.0 min af af mrs / 4 ,553 cf
Center-of-N	lass det. time	e= 8.2 min c e= 6.6 min (838.5 - 831.9)	240 at (100% of	Inflow)
Volume	Invert	Avail.Stora	age Storage D	escription	
#1	488.00'	1,970) cf Storage A	bove Surface (Prismatic)Listed below (Recalc)
#2	486.00'	462	2 cf Soil Media 1,540 cf O	a (Prismatic) Lis verall x 30.0%	ited below (Recalc) Voids
#3	485.50'	154	4 cf Gravel (Pi 385 cf Ove	r ismatic) Listed erall_x 40.0% Vo	below (Recalc) bids
		2,586	S cf Total Avail	able Storage	
Elevation	Surf.A	Area	Inc.Store	Cum.Store	
(feet)	(s	q-ft) (cubic-feet)	(cubic-feet)	
488.00		770	0	0	
490.00	1,	200	1,970	1,970	
Elevation	Surf.A	Area	Inc.Store	Cum.Store	
(feet)	(s	q-ft) (cubic-feet)	(cubic-feet)	
486.00		770	0	0	
488.00		770	1,540	1,540	
Elevation	Surf.A	Area	Inc.Store	Cum.Store	
(feet)	(s	q-ft) (cubic-feet)	(cubic-feet)	
485.50		770	0	0	
486.00		770	385	385	
Device R	outing	Invert	Outlet Devices		
#1 D	iscarded	485.50'	25.000 in/hr Ex Excluded Surfac	filtration over S	Surface area from 485.00' - 488.00'
#2 P	rimary	489.50'	10.0' long x 3.0 Head (feet) 0.2 2.50 3.00 3.50 Coef. (English) 2.72 2.81 2.92	bit bit <td>d-Crested Rectangular Weir 80 1.00 1.20 1.40 1.60 1.80 2.00 8 2.67 2.65 2.64 2.64 2.68 2.68 2</td>	d-Crested Rectangular Weir 80 1.00 1.20 1.40 1.60 1.80 2.00 8 2.67 2.65 2.64 2.64 2.68 2.68 2

Discarded OutFlow Max=1.34 cfs @ 12.10 hrs HW=488.03' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 1.34 cfs)

Primary OutFlow Max=0.00 cfs @ 0.00 hrs HW=485.50' (Free Discharge) 2=Broad-Crested Rectangular Weir (Controls 0.00 cfs)



Pond 3P: Rain Garden

Summary for Subcatchment 1S: PROPOSED

Runoff = 3.80 cfs @ 12.14 hrs, Volume= Routed to Pond 3P : Rain Garden 0.313 af, Depth= 4.47"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs Type III 24-hr 50-YR Rainfall=7.61"

	Area (sf)	CN	Description						
*	5,688	98	House & Dr	House & Drive					
	30,992	69	50-75% Gra	i0-75% Grass cover, Fair, HSG B					
	36,680	73	3 Weighted Average						
	30,992		84.49% Pervious Area						
	5,688		15.51% Imp	pervious Ar	rea				
ſ	c Length	Slope	e Velocity	Capacity	Description				
(mii	n) (feet)	(ft/ft	:) (ft/sec)	(cfs)					
10	.0				Direct Entry,				

Subcatchment 1S: PROPOSED



Summary for Reach 4R: Design Point

Inflow /	Area =	=	0.842 ac,	15.51% Impe	ervious,	Inflow Depth	= 0.2	21" for 50-	YR event
Inflow	=	=	1.08 cfs @	12.31 hrs,	Volume	= 0.0	15 af		
Outflow	v =	=	1.08 cfs @	12.31 hrs,	Volume	= 0.0	15 af,	Atten= 0%,	Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs

Reach 4R: Design Point



Summary for Pond 3P: Rain Garden

Inflow Area Inflow Outflow Discarded Primary Routed	= 0.842 a = 3.80 cfs = 2.42 cfs = 1.34 cfs = 1.08 cfs to Reach 4R : D	ac, 15.51% I () 12.14 h () 12.31 h () 12.31 h () 12.05 h () 12.31 h () 12.31 h () 12.31 h	mpervious, rs, Volume rs, Volume rs, Volume rs, Volume	Inflow Depth = = 0.31 = 0.31 = 0.29 = 0.01	= 4.47" 3 af 3 af, Atter 9 af 5 af	for 50-YR eve n= 36%, Lag=	nt 9.9 min
Routing by Peak Elev=	Stor-Ind method 489.62' @ 12.3	, Time Span 1 hrs Surf. <i>I</i>	= 0.00-36.0 Area= 2,659	0 hrs, dt= 0.05 sf Storage=	hrs / 4 2,151 cf		
Plug-Flow of Center-of-N	detention time= (/ass det. time= {	not calculate 3.3 min (832	ed: outflow p 2.5 - 824.3)	precedes inflov	v)		
Volume	Invert A	ail.Storage	Storage D	escription			
#1	488.00'	1.970 cf	Storage A	bove Surface	(Prismati	ic)Listed below	(Recalc)
#2	486.00'	462 cf	Soil Media	a (Prismatic)L	isted belov	w (Recalc)	()
#3	485.50'	154 cf	Gravel (P 385 cf Ove	rismatic)Liste erall x 40.0%	d below (R √oids	lecalc)	
		2,586 cf	Total Avai	lable Storage			
Elevation (feet)	Surf.Area (sq-ft	a Inc) (cubi	.Store c-feet)	Cum.Store (cubic-feet)			
488.00	77()	<u> </u>				
490.00	1,200)	1,970	1,970			
Elevation	Surf.Area	a Inc	Store	Cum.Store			
(feet)	(sq-ft) (cubi	c-feet)	(cubic-feet)			
486.00	77()	0	0			
488.00	770)	1,540	1,540			
Elevation	Surf.Area	a Inc	Store	Cum.Store			
(feet)	(sq-ft) (cubi	c-feet)	(cubic-feet)			
485.50	77()	0	0			
486.00	77()	385	385			
Device R	outing	Invert Out	et Devices				
#1 D	iscarded 48	35.50' 25.0 Excl	00 in/hr Ex uded Surfac	filtration over ce area = 0 sf	Surface a	area from 485.	00' - 488.00'
#2 P	rimary 4	39.50' 10.0 Hea 2.50 Coe 2.72	' long x 3.0 d (feet) 0.2 3.00 3.50 f. (English) 2.81 2.92	D' breadth Bro 0 0.40 0.60 (4.00 4.50 2.44 2.58 2.6 2.97 3.07 3.	ad-Creste 0.80 1.00 68 2.67 2. 32	ed Rectangula 1.20 1.40 1.6 .65 2.64 2.64	r Weir 60 1.80 2.00 2.68 2.68

Discarded OutFlow Max=1.34 cfs @ 12.05 hrs HW=488.08' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 1.34 cfs)

Primary OutFlow Max=1.02 cfs @ 12.31 hrs HW=489.62' (Free Discharge) **2=Broad-Crested Rectangular Weir** (Weir Controls 1.02 cfs @ 0.85 fps)



Pond 3P: Rain Garden

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 Type III 24-hr
 100-YR Rainfall=9.06"

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Summary for Subcatchment 1S: PROPOSED

Runoff = 4.89 cfs @ 12.14 hrs, Volume= Routed to Pond 3P : Rain Garden 0.404 af, Depth= 5.76"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs Type III 24-hr 100-YR Rainfall=9.06"

	Area (s	f) CN	N D	escription					
*	5,68	8 98	8 H	louse & Dr	ive				
	30,99	2 69	95	0-75% Grass cover, Fair, HSG B					
	36,68	0 73	73 Weighted Average						
	30,99	2	84.49% Pervious Area						
	5,68	8	1	5.51% Imp	ervious Are	ea			
_									
_	Tc Leng	gth S	lope	Velocity	Capacity	Description			
(mi	<u>n) (fe</u>	et) ((ft/ft)	(ft/sec)	(cfs)				
10	.0					Direct Entry,			
						-			

Subcatchment 1S: PROPOSED



Summary for Reach 4R: Design Point

Inflow /	Area	=	0.842 ac,	15.51% Impe	rvious,	Inflow Depth =	0.6	69" for 10	0-YR event
Inflow		=	3.10 cfs @	12.22 hrs,	Volume	= 0.048	af		
Outflow	v	=	3.10 cfs @	12.22 hrs,	Volume	= 0.048	af,	Atten= 0%	Lag= 0.0 min

Routing by Stor-Ind+Trans method, Time Span= 0.00-36.00 hrs, dt= 0.05 hrs

Reach 4R: Design Point



Summary for Pond 3P: Rain Garden

Inflow Area Inflow Outflow Discarded Primary Routed to Routing by Peak Elev= Plug-Flow of Center-of-M	$= 0.842 \\ = 4.89 \\ = 4.44 \\ = 1.34 \\ = 3.10 \\ = 3.10 \\ to Reach 4R : \\ Stor-Ind meth \\ = 489.75' @ 12 \\ detention times \\ Hass det. times \\ = 489.75' \\ = 480.75' \\ = 480.75$	2 ac, 15.51% cfs @ 12.14 cfs @ 12.22 cfs @ 12.00 cfs @ 12.22 Design Poin od, Time Spa 2.22 hrs Sur = 10.5 min ca = 8.1 min (8	6 Impervious, hrs, Volume hrs, Volume hrs, Volume hrs, Volume hrs, Volume f.Area= 2,687 alculated for 0 25.1 - 817.0)	Inflow Depth = = 0.404 = 0.403 = 0.354 = 0.048 0 hrs, dt= 0.05 H sf Storage= 2 .403 af (100% of	5.76" for 100-YR event 4 af 3 af, Atten= 9%, Lag= 4.5 min 4 af 3 af hrs / 4 2,298 cf of inflow)
Volume	Invert	Avail.Storage	e Storage D	escription	
#1	488.00'	1,970 c	f Storage A	bove Surface	(Prismatic)Listed below (Recalc)
#2	486.00'	462 c	f Soil Media	a (Prismatic)Lis	sted below (Recalc)
#3	485.50'	154 c	f Gravel (P 385 cf Ove	r ismatic) Listed erall x 40.0% V	below (Recalc) oids
		2,586 c	f Total Avai	lable Storage	
Elevation	Surf.Ar	rea l	nc.Store	Cum.Store	
(feet)	(sq	-ft) (cu	bic-feet)	(cubic-feet)	
488.00	7	70	0	0	
490.00	1,2	200	1,970	1,970	
Elevation	Surf.Aı	rea l	nc.Store	Cum.Store	
(feet)	(sq	-ft) (cu	bic-feet)	(cubic-feet)	
486.00	7	70	0	0	
488.00	1	70	1,540	1,540	
Elevation	Surf.Ar	rea l	nc.Store	Cum.Store	
(feet)	(sq	-ft) (cu	bic-feet)	(cubic-feet)	
485.50	7	70	0	0	
486.00	7	70	385	385	
Device R	outing	Invert O	utlet Devices		
#1 Di	iscarded	485.50' 25	5.000 in/hr Ex	filtration over	Surface area from 485.00' - 488.00'
#2 Pi	rimary	489.50' 10 He 2. Co 2.	ciuded Surfac .0' long x 3. ead (feet) 0.2 50 3.00 3.50 bef. (English) 72 2.81 2.92	ce area = 0 sf D' breadth Broa 0 0.40 0.60 0. 4.00 4.50 2.44 2.58 2.68 2.97 3.07 3.3	ad-Crested Rectangular Weir .80 1.00 1.20 1.40 1.60 1.80 2.00 8 2.67 2.65 2.64 2.64 2.68 2.68 32

Discarded OutFlow Max=1.34 cfs @ 12.00 hrs HW=488.14' (Free Discharge) **1=Exfiltration** (Exfiltration Controls 1.34 cfs)

Primary OutFlow Max=2.77 cfs @ 12.22 hrs HW=489.73' (Free Discharge) 2=Broad-Crested Rectangular Weir (Weir Controls 2.77 cfs @ 1.19 fps)



Pond 3P: Rain Garden



MEMORANDUM

TO:	Chairperson Janet Andersen and Members of Lewisboro Planning Board
CC:	Ciorsdan Conran Judson Siebert, Esq. Joseph Angiello
FROM:	Jan K. Johannessen, AICP Joseph M. Cermele, P.E., CFM Town Consulting Professionals
DATE:	September 16, 2021
RE:	Wetland Permit Approval Rubina & Satya Nitta 10 Lambert Ridge Sheet 17, Block 10533, Lot 443

PROJECT DESCRIPTION

The subject property consists of \pm .985 acre of land and is located at 10 Lambert Ridge within the R-1A Zoning District. The subject property is developed with a single-family residence and driveway and is connected to a central water and sewage system. The applicant is proposing to install a 35' x 16' inground pool and associated stone patio. An off-site wetland is located at the southwest corner of the subject property and the pool and patio is proposed entirely within the buffer area.

SEQRA

The proposed action has been preliminarily identified as a Type II Action and is therefore categorically exempt from the State Environmental Quality Review Act (SEQRA).

REQUIRED APPROVALS/REFERRALS

1. A Wetland Activity Permit and a Town Stormwater Permit is required from the Planning Board; a public hearing is required to be held on the Wetland Permit.

CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | SITE & ENVIRONMENTAL PLANNING

Chairperson Janet Andersen September 16, 2021 Page 2 of 4

2. The subject property is located within the NYC East of Hudson Watershed and proposed land disturbance exceeds 5,000 s.f. Coverage under New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-20-001) will be required.

COMMENTS

- 1. This office defers review of the plan for zoning compliance to the Building Inspector. It is recommended that the application be referred to the Building Inspector for review.
- 2. Wetland Flags A-1 through A-7, as delineated by Stephen Coleman, shall appear on the plans and a note referring to the wetland delineation (delineator/date of delineation) shall be provided.
- 3. The applicant shall develop a wetland mitigation plan which provides, at a minimum, mitigation at a ratio of 1:1 (for every s.f. of wetland or wetland buffer disturbance proposed, an equal or greater amount of mitigation shall be provided). Reference is made to the Town's mitigation guidelines provided in Chapter 217, Appendix B. Currently the plan will result in 5,295 s.f. of disturbance with the wetland buffer but only 3,516 s.f. of mitigation is provided. Please note that stormwater facilities that are otherwise required as part of the Town Stormwater Permit is not counted toward wetland mitigation.
- 3. Based on the proposed elevations of the proposed pool patio, french drain, and proposed rain garden, it does not appear there is adequate depth and pitch for French drain to meet the proposed rain gardens. Please coordinate between model and plan and clarify.
- 4. The scale on the grading, sediment and erosion control plan shall be provided at 1' = 10'.
- 5. The plan shall illustrate and identify the location, specie type and diameter at breast height (dbh) of all trees with a dbh of 8 inches or greater and located within the limits of disturbance and 25 feet beyond. Indicate trees to be removed and/or protected. If no trees are proposed to be removed, a note to this effect shall be added to the plan.
- 6. Land disturbance within the buffer is proposed to exceed ≥5,000 s.f. and will therefore require conformance with NYSDEC SPDES General Permit (GP-0-20-001) and filing of a Notice of Intent (NOI) and MS4 Acceptance Form with the NYSDEC. Submit draft copies to this office for review.
- 7. The applicant shall prepare and submit a Stormwater Pollution Prevention Plan (SWPPP) prepared in compliance with Chapter 189, Stormwater Management and Erosion and Sediment Control, as well as the NYSDEC SPDES General Permit (GP-0-20-001) and the NYSDEC Stormwater Management Design Manual.

Chairperson Janet Andersen September 16, 2021 Page 3 of 4

- 8. The applicant shall provide stormwater mitigation and design calculations for the runoff generated by the net increase in impervious surface for the 25-year, 24-hour storm event. Provide details of the stormwater mitigation system.
- 9. Rain garden sizing calculations shall be provided and shall follow the NYS Stormwater Design Manual, accounting for ponding, soil media and gravel layer volumes. Provide details and planting requirements for the rain garden.
- 10. Provide rim and invert elevations along with the size and materials of all drainage facilities. Provide details.
- 11. The plan shall illustrate the connection between the pool equipment and the infiltration practice. The hydraulic model shall demonstrate the mitigation of the 6-inch pool drawdown.
- 12. The proposed wall does not appear to be located within the limits of disturbance; the proposed wall should be noted on the plan and top and bottom elevations shall be provided. Any grading in this area should be illustrated.
- 13. Please correct the Wetland Permit Application to indicate proposed disturbance is between 5,000 square feet and one (1) acre. Please submit the Town of Lewisboro Stormwater Permit Application.
- 14. The applicant shall submit an updated existing condition survey (boundary and 2-foot contours), signed and sealed by a NYS Licensed Land Surveyor.
- 15. The plan shall illustrate the location of all existing and proposed utilities (electric, water, sewer, gas, etc.).
- 16. Provide fence and gate height; provide a construction detail.
- 17. The plan shall note that disturbance limits shall be staked in the field prior to construction.
- 18. Zoning setback lines shall appear on the site plan.
- 19. The applicant shall submit the current property deed.
- 20. The names of the adjacent property owners and the location of any neighboring driveways, structures, and buildings shall be illustrated on a plan.

Chairperson Janet Andersen September 16, 2021 Page 4 of 4

In order to expedite the review of subsequent submissions, the applicant should provide annotated responses to each of the comments outlined herein.

PLAN REVIEWED, PREPARED BY CARRIAGE HOUSE GARDENS & ASSOCIATES, INC., DATED AUGUST 31, 2021:

Mitigation Plan (L-3)

DOCUMENTS REVIEWED:

- Wetland Permit Application
- Letter, prepared by Stephen W. Coleman, dated July 31, 2021

JKJ/dc

https://kellardsessionsconsulti.sharepoint.com/sites/Kellard/Municipal/Lewisboro/Correspondence/2021-09-16_LWPB_Nitta - 10 Lambert Ridge_Review Memo.docx

TO:	The Town of Lewisboro Planning Board
FROM:	Lewisboro Conservation Advisory Council
SUBJECT:	Nitta Residence, 10 Lambert Ridge, Cross River, NY 10518
DATE:	September 15, 2021

The Conservation Advisory Council (CAC) has reviewed the materials submitted by the applicant for the construction a pool. The provided drawings show the 150 foot wetland buffer but do not show the 100 foot buffer line. The CAC would like to see updated drawings that indicate where the 100 foot wetland buffer is located.

The CAC would like to:

- Know if there is an alternative location for the pool that is not in the buffer
- See the wetland mitigation plan updated with a calculation to show one to one mitigation
- Understand what the water type is for the pool (ie. salt, chlorine or other)
- See a plan to prevent any escape or overflow from the pool going into the wetland.

Application No.: Fee: 4255 Date: TOWN OF LEWISBORO CH#175 Date: WETLAND PERMIT APPLICATION	53-21WP 8/17/2/
79 Bouton Road, South Salem, NY 10590 escrew Phone: (914) 763-5592 cutt 176 Fax: (914) 875-9148 cutt 176	5 toe
Project Address: 10 Lambert Ridge Road, Cross River, NY	AUS 1 7 2021
17 42.3 Block: 10533 Lot(s): 109 443	BOARD

Project Description (Identify the improvements proposed within the wetland/wetland buffer and the approximate amount of wetland/wetland buffer disturbance): A pool will be placed close to the house and within the wetland buffer.

Owner's Name: Rubina & Satya Nitta	Phone: (845) 702-6199
Owner's Address:	Email: Rubinanitta@gmail.com
Cairrage House Gardens c/o Greg Mercurio Applicant's Name (if different):	Phone: (845) 216-8587
Applicant's Address:	Email:
Agent's Name (if applicable):	Phone:
Agent's Address:	Email:

TO BE COMPLETED BY OWNER/APPLICANT

What type of Wetland Permit is required? (see §217-5C and §217-5D of the Town Code)

□ Administrative Planning Board

Is the project located within the NYCDEP Watershed?

Yes No No

Total area of proposed disturbance: **E** < 5,000 s.f. □ 5,000 s.f. - < 1 acre $\Box \geq 1$ acre

Does the proposed action require any other permits/approvals from other agencies/departments? (Planning Board, Town Board, Zoning Board of Appeals, Building Department, Town Highway, ACARC, NYSDEC, NYCDEP, WCDOH, NYSDOT, etc): Identify all other permits/approvals required: building dept.

Note: Initially, all applications shall be submitted with a plan that illustrates the existing conditions and proposed improvements. Said plan must include a line which encircles the total area of proposed land disturbance and the approximate area of disturbance must be calculated (square feet). The Planning Board and/or Town Wetland Inspector may require additional materials, information, reports and plans, as determined necessary, to review and evaluate the proposed action. If the proposed action requires a Planning Board Wetland Permit, the application materials outlined under §217-7 of the Town Code must be submitted, unless waived by the Planning Board. The Planning Board may establish an initial escrow deposit to cover the cost of application/plan review and inspections conducted by the Town's consultants.

For administrative wetland permits, see attached Administrative Wetland Permit Fee Schedule.

Owner Signature: Julie Mitta

Date: ______8/16/21



Environmental Planning & Site Analysis Wetland Mitigation & Restoration Plans Wetland Delineation & Assessment Natural Resource Management Pond & Lake Management Wildlife & Plant Surveys Breeding Bird Surveys Landscape Design

July 31, 2021

Ms. Rubina Nitta 10 Lambert Ridge Road Cross River, New York 10518

Via email: <u>Rubinanitta@gmail.com</u>

Re: 8 Lambert Ridge Road, Cross River, NY – Wetlands Investigation and Delineation

Dear Ms. Nitta:

As per the request of Greg Mercurio, I have completed a wetland investigation and delineation of the above referenced parcel that is adjacent to your property. As noted, the wetland is located on the adjacent parcel (8 Lambert Ridge) and the 150 ft. wetland buffer extends onto your property.

This assessment of the existing wetlands and watercourses present on the subject parcel was completed on 07-22-21. Greg Mercurio was present for the wetland investigation. The respective wetland area was flagged in accordance with Chapter 217 "Freshwater Wetlands" of the Town of Lewisboro. As noted in the Town Code, vegetation, soils, and hydrological parameters were used to determine the outer wetland boundary limits. The wetland/upland boundary was field determined and pink surveyors flagging labeled "Wetland Boundary" were hung along the respective boundary.

The property consists of a secondary mixed deciduous forest that is dominated by red oak, black birch, American elm, and red maple trees. The wetland area consists of a depressional sloping wetland that meanders throughout the rear of the property. A prominent stone wall runs parallel and near the shared western side yard.

The outermost wetland boundary closest to the subject property line was flagged with wetland flag numbers A-01-A-07.

Dominant tree species along the boundary of the wetland consisted of red maple and American elm with several upland species including red oak, shagbark hickory and black birch. The shrub layer within the outer edges of the wetland was dominated by spicebush, maple-leaved viburnum, and invasive shrub species – multi-flora rose and Japanese barberry. The herbaceous layer along the edge of the wetland included common wetland indicator plants including jewelweed, skunk cabbage, common rush, tussock sedge and cinnamon ferns.

3 ASPEN COURT, OSSINING, NY 10562 • 914-494-5544 • stevecoleman.scec@gmail.com

The hydric soils present within the wetland are classified as ridgebury soils with a prominent sandy layer present at approximately 14-16 inches within the soil profile. Soil profile samples exhibited a uniform mineral soil with evidence of reduction and mottling within the subsurface layer.

Several primary and secondary hydrological indicators were also present including soil saturation within the test hole, buttressed tree roots, and positive drainage patterns.

A prominent stone wall is present that runs parallel to the western side yard that separates the two properties. The wetland is located on the western side of the stonewall and provides protection of the wetland from typical residential activities. The buffer that extends to the side yard consists of native vegetation and has been supplemented with additional native and ornamental shrubs, likely part of a prior wetland buffer mitigation plan,

Based upon my review of the proposed application, a proposed pool located within the rear yard will encroach within the 150 ft. wetland buffer. The applicant has proposed an extensive buffer mitigation planting plan which will enhance the existing maintained natural buffer on the parcel. The proposed pool will not result in a significant adverse impact to the functioning of the wetland buffer area present on the parcel. The additional mitigation plantings will enhance the remaining buffer area and provide adequate protection of the functions provided by the adjacent wetland.

This completes my initial wetlands investigation to determine the respective outer wetlands boundary of the parcel. Please let me know if you have questions or require additional information.

Sincerely,

Stephen Coleman

Stephen W. Coleman cc: G.Mercurio

3 ASPEN COURT, OSSINING, NY 10562 • 914-494-5544 • stevecoleman.scec@gmail.com

2

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem, NY 10590 Email: planning@lewisborogov.com Tel: (914) 763-5592 Fax: (914) 875-9148

Affidavit of Ownership

State of: New York	
County of: Westchester	
Rubina Mitta resides at 10 LAmbort Ridge	_, being duly sworn, deposes and says that he/she
in the County of Westchester	State of <u>New 106/C</u>
and that he/she is (check one) the owner, or	the
of	Title
Name of corporation, partnership, or oth	her legal entity

which is the owner, in fee of all that certain log, piece or parcel of land situated, lying and being in the

Town of Lewisboro, New York, aforesaid and know and designated on the Tax Map in the Town of

Lewisboro as:

Block_____

109 on Sheet 42-3 Rubice Nitta

Owner's Signature

Sworn to before me this

day of /

Notary Public - affix stamp

RENEE M SIBRIZZI NOTARY PUBLIC-STATE OF NEW YORK No. 01\$16246776 Qualified in Westchester County My Commission Expires 8/15/2023

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem, NY 10590 Email: nlanging@lewisharagav.com Tel: (914) 763-5592 Fax: (914) 875-9148

Tax Payment Affidavit Requirement

This form must accompany all applications to the Planning Board.

Under regulations adopted by the Town of Lewisboro, the Planning Board may not accept any application unless an affidavit from the Town of Lewisboro Receiver of Taxes is on file in the Planning Board office. The affidavit must show that all amounts due to the Town of Lewisboro as real estate taxes and special assessments on the total area encompassed by the application, together with all penalties and interest thereon, have been paid.

Under New York State law, the Westchester County Clerk may not accept any subdivision map for filing unless the same type of affidavit from the Town of Lewisboro Receiver of Taxes is submitted by the applicant at the time of filing.

This form must be completed by the applicant and must accompany all applications to the Planning Board. Upon receipt, the Planning Board Secretary will send the form to the Receiver of Taxes for signature and notarization. If preferred, the applicant may directly obtain the signature of the Receiver of Taxes and notarization prior to submission.

	To Be Completed by Applicant (Please type or print)
RUBINA NITTA Name of Applicant	NITTA POOL Project Name
Property Description	Property Assessed to:
Tax Block(s):	RUBINA & SATYANARAYANA VINITTA
Tax Lot(s):	Name 10 trad LANBERT RINGE
Tax Sheet(s):17	CROSS RIVER AN 10518
	City State Zip
Town of Lewisboro, reveals that all amounts du together with all penalties and interest thereor Signature - Receiver of Taxes:	The only of the value of the tax records in the office of the Receiver of Taxes, is to the Town of Lewisboro as real estate taxes and special assessments, is, affecting the premises described below, have been paid. $\frac{MP}{MP} \frac{MP}{MP} \frac{MP}{2021}$
Sworn to before me this	Date / /
- 9th day of august	2001
Juit & Donor	JANET L. DONOHUE NOTARY PUBLIC, STATE OF NEW YORK No. 01D06259627 Qualitied in Westchester County Commission Expires April 16, 202
ignature - Notary Public (affix stamp)	
NAMES AND ADDRESS AND ADDRESS ADDR	

Strategicalities and an analysis requires relations to the control of the strategical st



____ ADDITIONAL MITIGATION PLANTING - PLANT LIST

Trees			
Scientific Name	Common Name	Size	Quantity
Chamaecyparis thyroides	Atlantic White Cedar	5 gal.	2
Chamaecyparis thyroides	Atlantic White Cedar	10 gal.	1
Chionanthus virginicus	American Fringe Tree	10 gal.	1
Ilex opaca	American Holly	4-5' ht.	2
Shrubs			
Aesculus parviflora	Bottlebrush Buckeye	3 gal.	1
Azalea viscosum	Swamp White Azalea	3 gal.	1
Hydrangea quercifolia '	Oakleaf Hydrangea	3 gal.	3
Ilex glabra	Inkberry	3 gal.	20
Ilex glabra 'Gem Box'	Gem Box Inkberry	3 gal.	13
Ilex glabra 'Gem Box'	Gem Box Inkberry	10 gal.	4
Rhus aromatica 'Gro-Low'	Gro-Low Sumac	3 gal.	22
Viburnum dentatum	Arrowwood Viburnum	3 gal.	6
Perennials			
Amsonia hubrichtii	Blue Star	2 gal.	5
Aster 'Snow Flurry'	Snow Flurry Aster	tray (50)	1
Allium cernuum	Nodding Onion	tray (50)	1
Dalea candida	White Prarie Clover	tray (50)	1
Echinacea purpurea	Purple Cone Flower	tray (32)	2
Iris versicolor	Blue Flag Iris	tray (50)	2
Liatris spicata	Gayfeather	1g	18
Schizachyrium scoparium	Little Bluestem	tray (50)	2



ORIGINAL MITIGATION PLANTING AREAS A. 805 SF B. 70 SF C.146 SF D. 76 SF E. 689 SF 1,686 SF

G. 1,830 SF - NEW AREAS

(To include the rain gardens)

TOTAL = 3,516 SF

ORIGINAL

PLANT MATERIAL LIST - N	NATIVES		
Trees			
Scientific Name	Common Name	<u>Size</u>	<u>Qty.</u>
Ilex opaca	American Holly	6-7' ht.	1
Nyssa sylvatica	Black Gum	2-3'' cal.	1
Thuja occidentalis	Eastern White Cedar (transplant)	10-11' ht.	20
Shrubs			
Scientific Name	Common Name	Size	Qty.
Clethera alinfolia	Summersweet	3g	8
Hydrangea arborescens	Annabelle Hydrangea	3g	6
Hydrangea quercifolia	Oakleaf Hydrangea	3g	8
Rhus aromatica	Gro*Low Sumac	3g	14
Viburnum dentatum	Arrowwood Viburnum	3g	6
Pollinator Perennials			
Scientific Name	Common Name	Size	Qty.
Aster spp.	Snow Flurry Aster	plug	150
Solidago spp.	Solar Cascade Goldernrod	plug	100

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ALTERATION OF THIS DRAWING, EXCEPT IF DONE BY OR UNDER THE DIRECTION OF THE LICENSED L.A. THAT PREPARED THEM, IS A VIOLATION OF NYS EDUCATION LAW.		
BASE SURVEY PROVIDED BY OWNER. Dated 3/26/99. Conducted by Donald J. Donnelly LSPC Yorktown Heights, NY Lic No. 49922 TOPOGRAPHIC INFORMATION RETRIEVED FROM THE WESTCHESTER COUNTY GIS AND OVERLAYED ON SURVEY.		
PROPERTY NOTES:		
• THERE IS <u>NO W</u> PROPERTY.	<u>(ELL ON THIS</u>	
THERE IS <u>NO S</u> PROPERTY	EPTIC ON THIS	
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REVISION	DATF	
	5/27/21	
	Q11 C10	
SCOPE FOR MITIGATION PLANTING	0/16/21	
ADDITIONAL MITIGATION PLANTING AND CALCULATIONS	8/31/21	
NITTA RESIDENCE I O LAMBERT RIDGE ROAD CROSS RIVER, NEW YORK		
MITIGATIC	DN PLAN	
CARRIAGE HOUSE GARDENS & ASSOCIATES INC. 4 BROADWAY - SUITE 10 VALHALLA, NEW YORK 10595 PHONE: (845) 216 - 8587 CELL: (203) 922-1004 greg@@carriagehousegardens.net		
CARE D LANDSC.		
DATE:	SCALE:	
May 5th, 2021	AS NOTED	
DRAWN BY:	DRAWING #	
GM	L - 3	



COMPLIANCE NOTES:

- ALL CONSTRUCTION SHALL FOLLOW
 SWIMMING POOL SHALL BE ALARMED THE CURRENT RESIDENTIAL CODE OF NEW YORK STATE THROUGHOUT THE DURATION OF THE PROJECT.
- POOL IS DESIGNED IN ACCORDANCE WITH ANSI / APSP / IIC5.
- R326.4.1 TEMPORARY FENCING SHALL BE INSTALLED UPON CONSTRUCTION UNTIL PREEMINENT FENCING IS PROVIDED.
- R326.4.2PERMANENT BARRIER SHALL BE 48" FROM THE GRADE AND THE BOTTOM HORIZONTAL NO GREATER THAN 2" FROM THE GRADE. ON THE SIDE OF THE BARRIER AWAY FROM THE POOL. TO BE INSTALLED WITHIN 90 DAYS OF THE COMMENCEMENT OF WORK..

ASTM F2208

- consumption.
- R326.4.2.8



AS PER NYS CODE - R326.7 AND

 POOL SHALL BE IN COMPLIANCE WITH R403.10 (2020 ECC) for energy

 DOOR AND WINDOW ALARM TO COMPLY WITH: NYS CODE

• R326.4.7 GATES SHALL COMPLY WITH SECTIONS R326.4.2.7.1 - 3 GATES TO OPEN OUT. GATES TO BE SELF CLOSING AND SELF LATCHING. ALL GATES TO BE SECURELY LOCKED WITH A KEY, COMBINATION OR OTHER CHILD-PROOF LOCK.





MAGNA LATCH "Vertical Pull" Model - GATE SAFETY LATCH SYSTEM

ZONING DATA:				
ZONE: R-1A				
TAX	MAP: 42	2.3 - 1 - 109	Э	
FIRE	DISTRIC	CT: LEWISBC	RO	
SCH	OOL DIS	STRICT: LEW	ISBORO	
GRO	SS LOT	AREA = (O	.985 Ac)	
			PERMITTED	EXISTING
MAX. F.A.R.		N/A	N/A	
MIN. LOT AREA		I ACRE	0.985 ACRE	
DEPTH		N.A	N/A	
WIDTH		N/A	N/A	
	FRONT	street	40 FT.	160.0'
ARD	REAR		40 FT.	85.7'
MIN.) SETB/	SIDE I		30 FT.	51.6'
	SIDE 2		30 FT.	36.5'

ALL RIGHTS RESERVED. COPY THIS PLAN OR ANY PORTION, T WITHOUT THE WRITTEN PERMIS	OR REPRODUCTION OF HEREOF IS PROHIBITED SION OF THE LANDSCAPE	
WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. ALTERATION OF THIS DRAWING, EXCEPT IF DONE BY OR		
UNDER THE DIRECTION OF THE LICENSED L.A. THAT PREPARED THEM, IS A VIOLATION OF NYS EDUCATION LAW.		
BASE SURVEY PROVIDED BY O Conducted by Donald J. Donnell Lic No. 49922	WNER. Dated 3/26/99. y LSPC Yorktown Heights, NY	
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PROPERTY NOTES:		
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PROPERTY		
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RELOCATE POOL	5/26/21	
EQUIP and ASSOC. TRENCHING and		
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NITTA RE		
	RIDGE ROAD	
CROSS RIVER, NEW YORK		
PROPC	ISED TE PLAN	
TOOL JI	IL I LAN	
CARRIAGE HOU	SE GARDENS	
& ASSOCIATES	INC.	
VALHALLA, NEW YORK	10595	
CELL: (203) 922-100	3587 94	
greg@@carriagehouse www.carriagehousegar	egardens.net dens.net	
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DATE:	SCALE:	
DATE: May 5th, 2021	SCALE: AS NOTED	
DATE: May 5th, 2021	SCALE: AS NOTED	
DATE: May 5th, 2021	SCALE: AS NOTED	
DATE: May 5th, 2021 DRAWN BY:	SCALE: AS NOTED DRAWING #	





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TAW BASE SURVEY PROVIDED BY OWNER. Dated 3/26/99. Conducted by Donald J. Donnelly LSPC Yorktown Heights, NY

TOPOGRAPHIC INFORMATION RETRIEVED FROM THE WESTCHESTER COUNTY GIS AND OVERLAYED ON SURVEY.

PROPERTY NOTES:

Lic No. 49922

- THERE IS <u>NO WELL</u> ON THIS PROPERTY.
- THERE IS NO SEPTIC ON THIS PROPERTY



REVISION	DATE
RELOCATE POOL EQUIP and ASSOC. TRENCHING and LOD	5/26/21
RAIN GARDENS AND DETAILS	8/16/21
NITTA RES 10 LAMBERT CROSS RIVER	SIDENCE RIDGE ROAD R, NEW YORK
GRADING, S ∉ E CONTROL PLAN	
CARRIAGE HOU and Associates 171 HUSTIS ROAD COLD SPRING, NEW Y PHONE: (845) 216 - 8 CELL: (203) 922-100 greg@@carriagehouse www.carriagehousegard	SE GARDENS Inc. ORK 10516 3587 4 egardens.net dens.net
CRED LANDSC, SRED	A TOPA CONTRACTOR
DATE:	SCALE:
May 5th, 2021	" = O' - O"
DRAWN BY: GM	drawing # L - 2



MITIGATION PLANTING AREAS A. 805 SF B. 70 SF C.146 SF D. 76 SF E. 689 SF G. 1519 SF - NEW AREAS (To include the rain gardens) TOTAL = 3,305 SF

ATIVES		
Common Name	Size	Qt
American Holly	6-7' ht.	1
Black Gum	2-3" cal.	1
Eastern White Cedar (transplant)	10-11' ht.	20
Common Name	Size	Qt
Summersweet	3g	8
Annabelle Hydrangea	3g	6
Oakleaf Hydrangea	3g	8
Gro*Low Sumac	3g	14
Arrowwood Viburnum	3g	6
Common Name	Size	Qt
Snow Flurry Aster	plug	15
Solar Cascade Goldernrod	plug	10
	ATIVES Common Name American Holly Black Gum Eastern White Cedar (transplant) Common Name Summersweet Annabelle Hydrangea Oakleaf Hydrangea Gro*Low Sumac Arrowwood Viburnum Common Name Snow Flurry Aster Solar Cascade Goldernrod	ATIVES Common Name Size American Holly 6-7' ht. Black Gum 2-3" cal. Eastern White Cedar (transplant) 10-11' ht. Common Name Size Summersweet 3g Annabelle Hydrangea 3g Oakleaf Hydrangea 3g Gro*Low Sumac 3g Arrowwood Viburnum 3g Common Name Size Size Snow Flurry Aster plug Solar Cascade Goldernrod plug

POOL DESIGN - LIMIT OF DISTURBANCE ENCROACHMENT INTO 150' WETLAND BUFFER --- 5,295 SF





MEMORANDUM

Chairperson Janet Andersen and Members of Lewisboro Planning Board
Ciorsdan Conran Judson Siebert, Esq. Joseph Angiello
Jan K. Johannessen, AICP Joseph M. Cermele, P.E., CFM Town Consulting Professionals
September 16, 2021
Wetland and Stormwater Permit Application Paul Stevelman Fruit Orchard 12 Robins Wood Lane Sheet 53, Block 9834, Lot 145

PROJECT DESCRIPTION

The subject property consists of ± 1.06 acres of land and is located at 12 Robin Woods Lane within the R-1A Zoning District. The subject property is undeveloped and wooded; the applicant owns the residence which abuts the subject parcel to the south. The applicant is proposing to clear the parcel and install a fruit orchard, which is considered "the raising of field and garden crops" and is an allowable use subject to the issuance of a Special Use Permit from the Zoning Board of Appeals. An off-site wetland is located at the northwest corner of the property and approximately one-third of the parcel is located within the Town's 150-foot wetland buffer.

SEQRA

The proposed action has been preliminarily identified as a Type II Action and is therefore categorically exempt from the State Environmental Quality Review Act (SEQRA).

REQUIRED APPROVALS/REFERRALS

1. A Wetland Activity Permit and Town Stormwater Permit is required from the Planning Board; a public hearing is required to be held on the Wetland Permit.

CIVIL ENGINEERING | LANDSCAPE ARCHITECTURE | SITE & ENVIRONMENTAL PLANNING

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- 2. A Special Use Permit is required from the Zoning Board of Appeals.
- 3. Work proposed within the Town right-of-way will require a Driveway Opening Permit from the Town Highway Superintendent.
- 4. The application must be referred to the Westchester County Planning Board in accordance with Section 239-m of the General Municipal Law. The Planning Board Administrator will coordinate this referral.

COMMENTS

- 1. This office defers review of the plan for zoning compliance to the Building Inspector. It is recommended that the application be referred to the Building Inspector for review.
- 2. The applicant has submitted a description of their planned use. Accommodations for parking should be described (for guests, landscape workers, arborists, if applicable), as should pedestrian and vehicular access.
- 3. The width of the mowed paths shall be dimensioned. Is any parking proposed (for guests)? The interconnection between the subject parcel and the owner's adjacent residential parcel is unknown and should be clarified.
- 4. The clearing, grubbing and grading of nearly one (1) acre of land could result in erosion and off-site impacts to properties located downgradient. The property slopes to the northeast and is adjacent to a residentially developed parcel. Consideration should be given to developing the orchard in phases to reduce the amount of land that would be considered unstable at any given time. It is recommended that at greater wooded buffer be left along the northerly property line. The applicant should demonstrate that the rate of runoff in the proposed condition is equal or less than that in the existing condition and should provide measures to safeguard downhill properties both during and after construction.
- 5. The stabilized construction access road must be a minimum length of 50 feet.
- 6. The applicant has indicated that irrigation is proposed and Note #7 references a proposed well. The well location, details, and irrigation distribution system should be identified and the anticipated water demand for the orchard shall be provided.
- 7. The size of the apple trees, at planting, shall be identified. The proposed seed mix shall be specified and hydroseeding should be considered.

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- 8. The areas of proposed land disturbance is just under one (1) acre (42,900 square feet). The plan shall note that disturbance limits shall be staked in the field prior to construction.
- 9. Proposed erosion controls must be shown to be located within the proposed limits of disturbance line, including the tracking pad at the construction entrance to the property line.
- 10. Is any signage proposed? Signage requires approval from the ACARC.
- 11. All proposed utility runs shall be illustrated on the plan (water, electric, etc.); show trenching and connections.
- 12. The applicant shall submit the current property deed.
- 13. The owner/applicant's name and address shall be identified on the plan.
- 14. The names of the adjacent property owners and the location of any neighboring driveways, structures, buildings, wells and septic areas shall appear on the plan.

In order to expedite the review of subsequent submissions, the applicant should provide annotated responses to each of the comments outlined herein.

PLAN REVIEWED, PREPARED BY LOUIS FUSCO LANDSCAPE ARCHITECTS, DATED JULY 17, 2021:

Erosion and Sediment Control Plan (EC-1)

DOCUMENTS REVIEWED:

- Wetland and Stormwater Permit Applications
- Short EAF, dated August 17, 2021

JKJ/dc

https://kellardsessionsconsulti.sharepoint.com/sites/Kellard/Municipal/Lewisboro/Correspondence/2021-09-16_LWPB_Stevelman - 12 Robins Wood Lane_Review Memo.docx

TO:	The Town of Lewisboro Planning Board
FROM:	Lewisboro Conservation Advisory Council
SUBJECT:	Stevelman Orchard, 12 Robins Wood Lane, South Salem, NY 10590
DATE:	September, 2021

The Conservation Advisory Council (CAC) has reviewed the materials submitted by the applicant for the construction of an orchard on a currently vacant lot. The lot is heavily treed and the terrain appears to be uneven. Part of the property that will be disturbed is within the 150 foot buffer.

Constructing the orchard will require the removal of a significant number of trees and no detail has been provided for this. It also appears that significant filling and grading will be necessary. Additionally, how this relates to the town's tree ordinance also needs to be reviewed. A detailed mitigation plan has been provided but a calculation to meet the 1 to 1 criteria also needs to be provided.

The CAC would like to see if there are any plans to use pesticides on the orchard.

TOWN OF LEWISBORG WETLAND PERMIT APPLIC/ 79 Bouton Road, South Salem, Phono: (014) 763 550	Application No.: $62 - 21WP$ Fee: 4255 Date: $8/18/2/$ ATION Pd $Ch = 4180$ NY 10590 $escrew est d$
Fax: (914) 763-559.	cu≠ 418/
Project Address: 12 RODINS VVOOD LN	
Sheet: <u>53</u> Block: <u>9834</u> Lot(s): <u>145</u>	
Project Description (Identify the improvements proposed wit approximate amount of wetland/wetland buffer disturbance): Development of a fruit orchard, meadow grasses and sitting sp	hin the wetland/wetland buffer and the aces on existing undeveloped property.
Owner's Name: Paul Stevelman	Phone: 203-870-5376
Ouner's Address, 10 Robins woods Ln	paul.stevelman@rbs.com
(next to vacant parcel)	Email:
Applicant's Name (if different):	Phone:
Applicant's Address:	Email:
Agent's Name (if applicable):	Phone:
Agent's Address:	Email:
TO BE COMPLETED BY OWNER/A	PPLICANT
What type of Wetland Permit is required? (see §217-5C and §21	7-5D of the Town Code)
🗆 Administrative 📃 Pl	anning Board
Is the project located within the NYCDEP Watershed?	No
Total area of proposed disturbance: $\Box < 5,000 \text{ s.f.}$ 5 ,000 s.	f < 1 acre □ ≥1 acre
Does the proposed action require any other permits/approv (Planning Board, Town Board, Zoning Board of Appeals, Buildin NYSDEC, NYCDEP, WCDOH, NYSDOT, etc): Identify all other perm Stormwater. Received Zoning Board approval at July Meeting.	als from other agencies/departments? ng Department, Town Highway, ACARC, nits/approvals required:
Note: Initially, all applications shall be submitted with a plan that illustrates the existi must include a line which encircles the total area of proposed land disturbance and th (square feet). The Planning Board and/or Town Wetland Inspector may require ad determined necessary, to review and evaluate the proposed action. If the proposed application materials outlined under §217-7 of the Town Code must be submitted, unl may establish an initial escrow deposit to cover the cost of application/plan review and in	ng conditions and proposed improvements. Said plan e approximate area of disturbance must be calculated ditional materials, information, reports and plans, as action requires a Planning Board Wetland Permit, the ess waived by the Planning Board. The Planning Board nspections conducted by the Town's consultants.
For administrative wetland permits, see attached Administrativ	Date: 8/16/29

	Application No.: $5-21$ SW
TOWN OF LEWISBOR STORMWATER PERMIT APPL	o P $Ch # 4190$
79 Bouton Road, South Salem, Phone: (914) 763-559 Fax: (914) 875-9148 Project Address: 12 Robins Wood Ln	NY 10590 2
Sheet: <u>53</u> Block: <u>9834</u> Lot(s): <u>145</u>	
Project Description (describe overall project including all propo Development of a fruit orchard, meadow grasses and sitting spaces on exis	sed land development activities): ting undeveloped property.
Owner's Name: Paul Stevelman	Phone: 203-870-5376
Owner's Address: 10 Robins woods Ln	Email:
(nort to vacant parcel Applicant's Name (if different):	Phone:
Applicant's Address:	Email:
Agent's Name (if applicable):	_ Phone:
Agent's Address:	_Email:
TO BE COMPLETED BY OWNER//	APPLICANT

The approval authority is? (see §189-5 of the Town Code)

🗆 Town Engineer and Stormwater Management Officer 🔳 Planning Board

Is the project located within the NYCDEP Watershed?

Yes No

Total area of proposed disturbance: ■ 5,000 s.f. - < 1 acre □ ≥1 acre

Will the project require coverage under the NYSDEC General Permit for Stormwater Discharges from Construction Activity?

Yes No
Requires post-construction stormwater practice

Does the proposed action require any other permits/approvals from other agencies/departments? (Wetland Inspector, Planning Board, Town Board, Zoning Board of Appeals, Building Department, Town Highway, ACARC, NYSDEC, NYCDEP, WCDOH, NYSDOT, etc): Identify all other permits/approvals required: Wetlands. Received Zoning Board approval at July Meeting.

Note: The applicant, owner and/or agent is responsible for reviewing and complying with Chapter 189, "Stormwater Management and Erosion and Sediment Control," of the Town Code. Tris application must be submitted with all applicable plans, reports and documentation specified under §189-8, "SWPPP requirements," of the Town Code; all SWPPP's shall be prepared in conformance with Chapter 189 and shall be prepared by a qualified professional, as defined therein. The provision for obtaining a Town Stormwater Permit is in addition to the requirement of obtaining coverage under the SPDES General Permit for Stormwater Discharges from Construction Activity, if applicable.

Owner Signature: _

8/16/2021 Date:

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem, NY 10590 Email: <u>planning@lewisborogov.com</u> Tel: (914) 763-5592 Fax: (914) 875-9148

Affidavit of Ownership

State of :	Neul	York		_			
County of:	Wester	roster		_			
P	al St	tere(man	, being duly	sworn, d	leposes and	says that l	1e/she
resides at	10	(Rosins (Jool L	4			a
in the County	of	est cy+ste	-5	, Stat	e of	NY	
and that he/sl	he is (check one)	the owner, o	or the	Ti	tle	L	
N	lame of corporatio	on, partnership, or	other legal enti	ty			
which is the o	wner, in fee of all	that certain log, p	iece or parcel c	of land sit	uated, lying	g and being	; in the
Town of Lewis	sboro, New York,	aforesaid and kno	w and designat	ted on th	e Tax Map i	n the Towi	ı of
Lewisboro as: Block _	9834	Lot_(45	, on	Sheet	53		

Owner's Signature

Sworn to before me this 167. day of h 202

Simone Petromelis Notary Public - State of New York No. 02PE4969164 Qualified in Westchester County My Commission Expires January 17, 20145

Notary Public – affix stamp

TOWN OF LEWISBORO PLANNING BOARD

79 Bouton Road, South Salem, NY 10590 Email: <u>planning@lewisborogov.com</u> Tel: (914) 763-5592 Fax: (914) 875-9148

Tax Payment Affidavit Requirement

This form must accompany all applications to the Planning Board.

Under regulations adopted by the Town of Lewisboro, the Planning Board may not accept any application unless an affidavit from the Town of Lewisboro Receiver of Taxes is on file in the Planning Board office. The affidavit must show that all amounts due to the Town of Lewisboro as real estate taxes and special assessments on the total area encompassed by the application, together with all penalties and interest thereon, have been paid.

Under New York State law, the Westchester County Clerk may not accept any subdivision map for filing unless the same type of affidavit from the Town of Lewisboro Receiver of Taxes is submitted by the applicant at the time of filing.

This form must be completed by the applicant and must accompany all applications to the Planning Board. Upon receipt, the Planning Board Secretary will send the form to the Receiver of Taxes for signature and notarization. If preferred, the applicant may directly obtain the signature of the Receiver of Taxes and notarization prior to submission.

To Be Completed by Applicant (Please type or print)							
Paul Stevelman		Stevelman					
Name of Applic	cant	Project Name					
Property Description		Property Assessed to:	Property Assessed to:				
Tax Block(s):	9834	Paul Stevelman					
Tax Lot(s): Tax Sheet(s):	145	Name 1 Robbins Wood Lane					
	53	Address South Salem NY 10590					
		City	State	Zip			

The undersigned, being duly sworn deposes and says that a search of the tax records in the office of the Receiver of Taxes, Town of Lewisboro, reveals that all amounts due to the Town of Lewisboro as real estate taxes and special assessments, together with all penalties and interest thereon, affecting the premises described below, have been paid.

Signature - Receiver of Taxes: Date Sworn to before me this JANET L. DONOHUE NOTARY PUBLIC, STATE OF NEW YORK No. 01D06259627 Qualified in Westchester County Commission Expires April 16, 2020

Signature - Notary Public (affix stamp)
Robins Wood Fruit Orchard 12 Robins Wood Lane, South Salem

Project Description: 1-acre wooded lot transformed into eco-friendly, organic apple orchard to share with friends, neighbors, community, and local non-profits that support food insecure families. Related activities: wildflower garden; honeybee keeping and composting. In addition to the apple trees, the entire property will be seeded with a low mow fescue, wildflowers, and mowed lawn paths to maximize soil stabilization.

The existing site consist of a variety of common northeast native canopy trees. There is currently little to no understory plantings and a number of invasive species along Robin Woods Lane. The proposed plantings along with the apple orchard will increase biodiversity and provide a stabilized site condition with improved stormwater runoff.

Background: Paul and Peri Stevelman are residents of 10 Robins Wood Lane and purchased the vacant wooded lot next to us at 12 Robins Wood for exclusive purpose of expanding our fruit orchard and supporting local non-profits that support food insecure families. My passion is growing fruit, particularly rare heirloom varieties. Also, this project will bring our family closer to the community we live in and also will be fun and rewarding and will serve charitable purposes. I have been growing fruit trees on my existing lot for almost 20 years and have been successful in growing apple trees and having bountiful harvests.

Work involved: Removing existing trees, stumps, rocks, and underbrush to enable grading and planting of orchard and wildflower/grass meadow. Installation of native wetlands tolerant plant material within the 150' wetland buffer. Installation of 6' high deer fencing on 3 sides of the property.

All work within the wetlands buffer will be completed by hand and no machinery will be used for plantings or maintenance in this area.

Our Commitments:

- **Organic:** no synthetic pesticides, herbicides, or fertilizers. Will use composting, organic materials. (Standard fruit trees are vigorous and therefore have innate insect and disease resistance compared to dwarf trees.)
- **Charitable:** Apples are for friends, family, neighbors, community events and local non-profits, as begun by our family years ago: e.g., Inspirica (Stamford) and New Covenant House (Stamford). Eager to share with our community
- No commercial sales: We don't sell apples. We donate them. It's a passion not a business.
- Orchard Process: Trees spaced 30 feet apart on hardy, standard sized rootstock, with massive 30foot root systems and canopies when mature. Trees attract beneficial insects, e.g., honeybees and lady bugs. Commitment to organic gardening and no synthetic pesticides or herbicides or fertilizers. Maintenance of property, trees and harvesting of fruit is all manual and requires no motorized vehicles other than a lawn mower.
- Heritage and Modern varieties: Many classic New York apples like Cortland and Liberty, to be mixed with heirloom varieties e.g., King of Tompkins County; Hudson Golden Gem.

Environmental Impact:

- Cornell University study: in each growing season, an acre of apple trees fixes 20 tons of CO2 from the air, releases 15 tons of O2, and provides 15 billion BTUs of cooling power. (Alan Lasko, Dept. Horticulture, Cornell)
- Vigorous root systems absorb storm water and reduce erosion.
- Reduces transportation costs and CO2 emissions: local fruit production means less reliance on imported produce.
- Attracts beneficial insects, birds, and wildlife.

Short Environmental Assessment Form Part 1 - Project Information

Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. 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.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information							
Name of Action or Project:							
Project Location (describe, and attach a location map	p):						
Brief Description of Proposed Action:							
Name of Applicant or Sponsor:			Teleph	ione:			
			E-Mail	l:			
Address:							
City/PO:			State:		Zip C	ode:	
1. Does the proposed action only involve the legisl administrative rule, or regulation?	lative adoption of a p	plan, local	l law, or	dinance,		NO	YES
If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.							
2. Does the proposed action require a permit, appr- If Vas list agency(s) name and permit or approval:	oval or funding from	n any othe	er govern	nment Agency?		NO	YES
in res, ist agency(s) name and permit of approval.							
3. a. Total acreage of the site of the proposed action? acres b. Total acreage to be physically disturbed? acres c. Total acreage (project site and any contiguous properties) owned acres or controlled by the applicant or project sponsor? acres							
4. Check all land uses that occur on, are adjoining of	or near the proposed	action:					
□ Urban Rural (non-agriculture)	Industrial Co	ommercia	ıl F	Residential (subur	ban)		
Forest Agriculture Aquatic Other(Specify): Parkland							

5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?			
b. Consistent with the adopted comprehensive plan?			
6 Is the proposed action consistent with the predominant character of the existing built or natural landscape	 ?	NO	YES
o. Is the proposed action consistent with the predominant character of the existing built of natural fandscape			
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		NO	YES
If Yes, identify:			
8 a Will the proposed action result in a substantial increase in traffic above present levels?		NO	YES
b Are public transportation services available at or near the site of the proposed action?			
b. Are public transportation services available at or near the site of the proposed action.			
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed action?			
9. Does the proposed action meet or exceed the state energy code requirements?		NO	YES
If the proposed action will exceed requirements, describe design features and technologies:			
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No, describe method for providing potable water:			
11. Will the proposed action connect to existing wastewater utilities?		NO	YES
If No, describe method for providing wastewater treatment:			
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or distri	ct	NO	YES
which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places?	e		
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?			
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?		NO	YES
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?			
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:			

14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:		
Shoreline Forest Agricultural/grasslands Early mid-successional		
Wetland 🗌 Urban 🖌 Suburban		
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or	NO	YES
Federal government as threatened or endangered?	\checkmark	
16. Is the project site located in the 100-year flood plan?	NO	YES
	\checkmark	
17 Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES
If Yes,	\checkmark	
a. Will storm water discharges flow to adjacent properties?	\checkmark	
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)?	\checkmark	
IT Yes, briefly describe:		
10. Devide the sense of the sen	NO	YES
or other liquids (e.g., retention pond, waste lagoon, dam)?		1110
If Yes, explain the purpose and size of the impoundment:		
1		
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste	NO	YES
management facility?		
If Yes, describe:	\checkmark	
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste?		
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE B	EST OF	5
MY KNOWLEDGE	-71	
Applicant/sponsor/name: Louis Fusco	00	
Signature:		

å

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USDA Natural Resources Conservation Service Web Soil Survey National Cooperative Soil Survey





Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI
CIC	Charlton fine sandy loam, 8 to 15 percent slopes, very stony	0.7	53.0%
HnB Hinckley loamy sand, 3 percent slopes		0.4	33.1%
Ub Udorthents, smoothed		0.2	13.9%
Totals for Area of Interest		1.3	100.0%





Latin Name	Common Name	Quantity	Size	
Abies Concolor	White fir	6	B & B 6-7'	
llex opaca	American Holly	6	B & B 6-7'	
	SHRUBS			
Cornus stolonifera 'Variegata'	Variegated Redtwig Dogwood	13	10 gal.	
llex verticillata	Winterberry	9	5 gal	
Kalmia polifolia	Mountain Laurel	11	B & B 36"-42"	
Rubus 'Caddo'	Caddo' Thornless Blackberry	6	3 gal.	
Rubus 'Reveille'	Reveilli' Red Raspberry	6	3 gal.	
Vaccinium corymbosum	Highbush Blueberry	12	3 gal.	
Viburnum trilobum	American Highbush Cranberry	22	B & B 36"	
P	PERENNIALS AND GRASSES			
Aster novae-angliae	New England Aster	35	2 gal.	
Carex pensylvanica	Pennsylvania Sedge	50	2 gal.	
Echinacea purpurea	Purple Coneflower	22	2 gal.	
Iris versicolor	Wild Blue Flag Iris	5	1 gal.	
Polystichum acrostichoides	Christmas Fern	53	2 gal.	
Rudbeckia fulgida 'Goldstrum'	Black Eyed Susan	55	2 gal.	
zachyrium scoparium 'Standing Ovation'	Little Bluestem Grass	49	1 gal.	

LOWABLE		EXISTING		PROPOSED		
	CRE	1.063 A 46,304	ACRE 28 S.F.			
	5,227.2 S.F.	0.0%	0.0 S.F.	1.13%	525.0 S.F.	
	40'	2	40'		40'	
30'		30'		30'		
	40'	4	40'	40'		

Michael Fuller Sirignano

Attorney and Counselor at Law

Old Post Road Professional Building 892 Route 35, P.O. Box 784 Cross River, New York 10518 Tel: (914) 763-5500 Fax: (914) 763-9589 Email: lawoffice@sirignano.us

August 27, 2021

Janet Andersen, Chair Lewisboro Planning Board 79 Bouton Road South Salem, NY 10590

> Re: Laurel Ridge aka Oakridge Gardens Cal. No. 6-02 P.B.

Dear Ms. Andersen and Members of the Planning Board:

I am writing to you on behalf of Laurel Ridge regarding certain conditions of your June 12, 2012 Resolution, as amended September 24, 20212 approving 46 multifamily residences. Condition SP56 [a] – [d] at Page 20 of 21 requires various site work, final "As-built" survey plan and "sign-offs" from involved agencies be completed prior to the authorized issuance of the Certificate of Occupancy for the Forty-First (41^{st}) unit.

Building 11 is completed, while Buildings 9 and 10 are under active construction, albeit at difference stages. Completion of Building 10 is expected in October. The first CO issued for a unit in Building 10 would be the Forty-First (41st). The two other units in Building 10 and the 3 units in Building 9 will be ready for CO's later this year.

Due to the staging of the construction of Buildings 9, 10 and 11, we respectfully ask the Planning Board to amend said SP56 conditions so as to require completion/satisfaction of same prior to the Certificate of Occupancy for the Forty-Sixth (46th), not the Forty-First (41st) unit. Final parking lot paving and site improvements, landscaping, as-built surveying, etc. would, practically speaking, best await completion of all Phase 3 Buildings.

Phil Pine and I will be happy to appear before your Board and answer any questions.

Thank you.

Very truly yours,

Michael Fuller Sirignano

Michael Fuller Sirignano

RESOLUTION LEWISBORO PLANNING BOARD

AMENDED #4 APPROVALS WETLAND ACTIVITY PERMIT STORMWATER PERMIT SITE DEVELOPMENT PLAN

LAUREL RIDGE (aka OAKRIDGE GARDENS)

Sheet 49D, Block 9830, Parcels 1-A-8 and 1-A-9 Cal. No. 6-02 P.B.

SEPTEMBER 24, 2012

WHEREAS, on October 12, 2010, the Town of Lewisboro Planning Board ("Planning Board") granted the following Approvals pertaining to the development of forty-six (46) "multifamily residences" as defined and regulated in Chapter 220, Zoning, of the Code of the Town of Lewisboro known as "Oakridge Gardens" (aka Laurel Ridge) (Cal. No. 6-02 P.B.), along with certain permissible zoning related waivers (collectively "Approvals"), for property consisting of approximately 9.194 acres of land located on the northerly and southerly sides of Oakridge Drive (a private access road connecting with NYS Route 123) within an R-MF Multifamily Residence District, in the Hamlet of Vista, Town of Lewisboro, Westchester County, New York, designated on the Town of Lewisboro Tax Maps as Sheet 49L, Block 9830, Parcel 1-A-8 (4.056 acres) and Sheet 49M, Block 9830, Parcel 1-A-9 (5.138 acres):

- Wetland Activity Permit Approval;
- Stormwater Permit Approval;
- Site Development Plan Approval; and

WHEREAS, the Planning Board granted Amended Approvals of the above on July 11, 2011, June 12, 2012 and August 14, 2012, the conditions of which, along with all other applicable conditions were set forth in a document entitled <u>Consolidated Conditions of Approval - Laurel Ridge (aka Oakridge Gardens)</u> ("Consolidated Conditions of Approval") dated August 14, 2012; and

WHEREAS, the project sponsor, Smith Ridge Housing, LLC ("applicant"), has requested additional amendment to the above noted Consolidated Conditions of Approval to modify the timing sequence of when the required posting of a bond or letter of credit in the amount of \$243,770.00 as per Condition SP11 is required, from the current prior to signing final Site Plans by the Planning Board Chair and Secretary to instead, prior to the issuance of the first Building Permit;

NOW THEREFORE BE IT RESOLVED, that upon full consideration of the above, that the Planning Board hereby amends the August 14, 2012 Consolidated Conditions of Approval, subject to the following limitations and conditions:

A1. This Resolution hereby authorizes the following specific amendment to the August 14, 2012 Consolidated Conditions of Approval, no other changes or amendments to said Consolidated Conditions of Approval are implied or included:

Amend the timing sequence of compliance of Condition SP11 (i.e., the posting of a bond or letter of credit in the amount of \$243,770.00) as a prerequisite of the signing final Site Plans by the Planning Board Chair and Secretary, to instead be required prior to the issuance of the first Building Permit, thereby renumbering Condition SP11 to SP39, and renumbering Conditions SP12 through SP39 as SP11 through SP38, respectively, as well as revise any other reference to said Condition numbers accordingly.

- **A2.** All other conditions and requirements, as well as the time periods to complete all conditions of the approvals pertaining to implementation thereof and permit expirations shall remain in full force and effect, unchanged by this Resolution.
- A3. To ensure clarity and for purposes of subsequent inspection and enforcement of the approvals previously granted and amended herein, the full extent and sequencing of all applicable conditions of approval, as previously approved and amended herein are as set forth in the attached entitled document "<u>Consolidated Conditions of Approval Laurel Ridge (aka Oakridge Gardens)</u>" dated September 24, 2012, thereby superceding and replacing the same titled document dated August 14, 2012.

ADOPTION OF RESOLUTION

WHEREUPON, the Resolution herein was declared adopted by the Planning Board of the Town of Lewisboro as follows:

The motion was moved by	konaed.	Tetilman_			
The motion was seconded by	John	D'Donnell			
The vote was as follows:				/	
JEROME KERNER	Arc		10		
JOHN GUSMANO	M/C	and		ve/	2012
JOHN O'DONNELL	HYE	Verome Kerner, C	Shair	September 24	, 2012
RONALD TETELMAN	Ave				

LEWISBORO PLANNING BOARD

CONSOLIDATED CONDITIONS OF APPROVAL LAUREL RIDGE (aka OAKRIDGE GARDENS)

WETLAND ACTIVITY PERMIT STORMWATER PERMIT SITE DEVELOPMENT PLAN

Sheet 49D, Block 9830, Parcels 1-A-8 and 1-A-9 Cal. No. 6-02 P.B.

JUNE 12, 2012 AS AMENDED – AUGUST 14, 2012 AS AMENDED – SEPTEMBER 24, 2012

WETLAND ACTIVITY PERMIT APPROVAL

PRIOR TO ISSUANCE OF WETLAND ACTIVITY IMPLEMENTATION PERMIT

- W1. This Amended Wetland Activity Permit shall replace and supercede the previous Wetland Activity Permit dated October 12, 2010. The Amended Site Development Plans (hereinafter referred to as "Site Plans") also approved herein, as signed final by the Planning Board Chair and Secretary, shall also constitute the approved Amended Wetland Activity Permit Plans.
- W2. This Amended Wetland Activity Permit shall not take effect until the Site Plans also approved herein are revised and filed with sufficient copies in the office of the Planning Board as required below, and a Final Subdivision Plat is approved, signed and filed in the offices of the Westchester County Clerk, Division of Land Records and the Lewisboro Planning Board.
- W3. No construction activity shall commence prior to the issuance of an authorized Wetland Activity Implementation Permit by the Lewisboro Wetland Inspector, a Stormwater Management and Erosion and Sediment Control Permit for Construction Activities by the Lewisboro SMO, and a Building Permit by the Lewisboro Building Inspector, or any other required local, Federal, State, and County permit approvals.
- W4. Prior to the issuance of a Wetland Activity Implementation Permit by the Wetland Inspector, the owner and contractor shall provide a written statement to the Planning Board Secretary acknowledging that they have read, and will be abide by all conditions of this Resolution.

CONDITIONS OF WETLAND ACTIVITY CONSTRUCTION

- W5. At least two (2) weeks prior to any authorized construction or site disturbance activity, the Consulting Town Engineer, Building Inspector, Wetland Inspector, Design Engineer and Contractor shall meet to review the approved Site Plans and permit conditions.
- W6. Prior to any construction or site disturbance activity, all erosion and wetland protection measures shall be properly installed by the applicant, and inspected and approved by the Wetland Inspector and Town Consulting Engineer to protect existing site wetlands/watercourses and their associated 150-foot regulated buffer areas not authorized to be disturbed.
- W7. All permits and approvals shall be maintained as current throughout the duration of construction, and a copy of this Resolution, Wetland Activity Implementation Permit, Building Permit, and a complete approved set of the signed Site Plans shall be maintained on the premises at all times during construction.
- W8. There shall be no clearing, grading, removal of vegetation, or other alteration except as shown on the approved and signed Site Plans.
- W9. Use of herbicides shall require the prior obtaining of all appropriate permits and certifications, including approval by the Wetland Inspector. A New York State certified applicator shall be onsite at any time herbicides are applied.
- W10. All erosion and wetland protection measures shall be maintained in proper working order until construction is completed and all disturbed soils areas have been stabilized and properly revegetated. Authorization to remove said controls shall be obtained from the Wetland Inspector and Town Consulting Engineer.
- W11. During construction, the project site shall be monitored weekly by an applicant funded qualified environmental consultant as determined acceptable by the Planning Board for compliance with the approved Site Plans, particularly with regard to erosion controls and wetland protection measures. Written reports outlining the site, construction status, identified issues if any, and measures taken to correct any such issues shall be provided to the Wetland Inspector, Building Inspector, Town Consulting Engineer and Planning Board. All required site inspections shall be coordinated with the Wetland Inspector, Town Consulting Engineer and other permit officials and other inspections as required herein for Amended Stormwater Permit Approval and Amended Site Development Plan Approval.
- W12. All inlet and outlet drainage structures shall be regularly maintained and any blocking debris shall be removed by hand to maximize capacity of same during storm events.
- W13. Any changes or modifications to the regulated activities approved herein or for any other disturbances or alterations of wetlands, watercourses or associated 150-foot buffer areas shall require the prior review and approval of the Planning Board.

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- W14. All wetland mitigation plantings shall be 'guaranteed' for a minimum period of five (5) years from the date of accepted installation as deemed complete by the Wetland Inspector. Thereafter, at minimum, an annual inspection shall be conducted by the applicant's approved environmental consultant monitor. A report shall be provided to the Planning Board and Wetland Inspector documenting the findings of said inspections no later than fourteen (14) calendar days from the date of inspections. Each annual report shall include the number, species and location of any plants found to be diseased or dead, and the presence, location and species of any found invasive species growing in the mitigation areas. Within said five (5) year monitoring period, all dead or diseased plantings shall replaced and all invasive species shall be appropriately removed and disposed of off-site within thirty (30) calendar days of Planning Board acceptance of the report as verified by the Wetland Inspector.
- W15. Prior to the issuance of the first (1) Certificate of Occupancy for any individual multifamily residence unit a qualified cost estimate for all wetland mitigation plantings (materials and labor) shall be provided for Planning Board acceptance and an appropriate escrow account shall be established. The applicant shall establish an escrow account in an amount of 125% of the cost (materials and labor) of all wetland mitigation plantings based on the accepted cost estimate by the Planning Board, to cover planting and replacement during the monitoring period, and to cover the cost during the required five (5) year monitoring period of inspections and reporting as set forth in Condition W14 above.

Said escrow account may be held by the firm of Hocherman Tortorella & Wekstein, LLP of White Plains, New York, or other such law firm selected by the applicant and approved by the Planning Board, in trust for the applicant. Should the firm of Hocherman Tortorella & Wekstein or other approved law firm be dissolved or terminated for any reason, the escrow account shall be transferred to the Town of Lewisboro. Said escrow account shall be maintained throughout the entire five (5) year monitoring period. At the end of the 5-year monitoring period, the applicant would be refunded any balance of the escrow fund.

Portions of said escrow account shall be released to the Oakridge Gardens Master HOA or the Town of Lewisboro, as appropriate, upon the filing of a demand, stating that the applicant or the Association, as the case may be, is in default of its obligations relative to replacement of dead or diseased plantings, removal of invasive species or filing of inspections, as set forth in Condition W14, above. The amount demanded to be released shall be supported by a bona fide estimate of cost, which shall be filed with the demand. When accompanied by a bona fide estimate of cost, the escrow agent shall have no discretion in release of the funds demanded.

In the alternative, the applicant at its discretion may post a bond or letter of credit, subject to the approval of a security agreement by the Lewisboro Town Board and Town Attorney.

PRIOR TO ISSUANCE OF WETLAND PERMIT CERTIFICATE OF COMPLIANCE

- W16. Prior to issuance of a Certificate of Compliance by the Wetland Inspector, all Wetland Activity Permit related site improvements shall be completed in accordance with the approved Site Plans. The owner shall be responsible for all work and shall request the Wetland Inspector to inspect completed work in support of its request for a Certificate of Compliance. Incomplete work or unsatisfactory site conditions shall be remediated immediately upon notice by the Wetland Inspector or his authorized representative.
- W17. A Certificate of Compliance shall be deemed to authorize the initial and continued activity and use affecting the regulated resources so long as continued full conformity and compliance are maintained with the terms and conditions of this Resolution and the provisions of the Town's Wetlands and Watercourses Law, and any amendments thereto.

WETLAND ACTIVITY PERMIT APPROVAL EXPIRATION

- W18. This Amended Wetland Activity Permit shall expire without further written notice if the requirements of this Resolution are not completed as set forth herein. As provided pursuant to the Town Wetlands and Watercourses Law, this Wetland Activity Permit is subject to revocation should the permitee not comply with the terms and conditions of this Resolution.
- W19. This Amended Wetland Activity Permit shall expire two (2) years from the date of the signing of the *final* Site Plans approved herein, unless a Certificate of Compliance as required above has been obtained prior thereto.

STORMWATER PERMIT APPROVAL

Stormwater Management / Erosion and Sediment Control

CONDITIONS OF AMENDED STORMWATER PERMIT IMPLEMENTATION

- SW1. This Amended Stormwater Permit shall replace and supercede the previous Stormwater Permit dated October 12, 2010. The Site Plans also approved herein, as signed final by the Planning Board Chair and Secretary, shall also constitute the approved Amended Stormwater Permit Plans. This Amended Stormwater Permit shall not take effect until the Site Plans also approved herein are revised and filed with sufficient copies in the office of the Planning Board as required herein below, and a Final Subdivision Plat is approved, signed and filed in the offices of the Westchester County Clerk, Division of Land Records and the Lewisboro Planning Board.
- SW2. No construction activity shall commence prior to the issuance of an authorized Stormwater Management and Erosion and Sediment Control Permit for Construction Activities by the SMO, a Wetland Activity Implementation Permit by the Wetland Inspector and a Building Permit by the Building Inspector; and the owner shall provide a copy of valid and current NYSDEC NOI Acknowledgment Letter consistent with the standards of NYSDEC SPDES GP 01-10-001.

- SW3. During construction, the SMO may require site inspections as necessary to determine compliance with the provisions of Chapter 189 of the Code of the Town of Lewisboro and this Resolution, to examine erosion and sediment controls and the approved stormwater management practices. All required site inspections of stormwater management controls and erosion and sedimentation control devices shall be coordinated with the SMO and other permit officials as required herein for Amended Wetland Activity Permit and Amended Site Development Plan Approvals.
- SW4. To obtain required inspections, the applicant shall notify the SMO and Town Consulting Engineer in writing at least forty-eight (48) hours before any of the SMO's requirements as listed in §189-16(A)(1)-(10). The owner shall engage a 'qualified inspector' subject to approval by the SMO and Town Consulting Engineer to conduct inspections weekly and within twenty-four (24) hours of any storm event producing 0.5 inch of precipitation or more in accordance with §189-12.B. Corresponding inspection reports prepared by the qualified inspector shall be provided to the SMO, Town Consulting Engineer and Planning Board no later than seven (7) days from the date of any inspection.
- SW5. Sediment shall be removed and legally disposed of from stormwater management traps or sediment ponds whenever their design capacity has been reduced by fifty (50%) percent.
- SW6. Any changes or modifications to the stormwater management and erosion and sediment control measures approved herein or for any other disturbances or alterations of soils shall require the prior review and approval of the Planning Board.

PRIOR TO ISSUANCE OF CERTIFICATE OF COMPLETION

- SW7. Prior to issuance of a Stormwater Permit Certificate of Completion by the SMO, all site work shall be completed and the site stabilized. The permitee shall be responsible for all work and shall request the SMO to inspect completed work in support of its request for a Certificate of Completion. Incomplete work or unsatisfactory site conditions shall be remediated immediately upon notice by the SMO or his authorized representative.
- SW8. A Certificate of Completion shall be deemed valid so long as continued full conformity and compliance are maintained with the terms and conditions of an issued Stormwater Permit and the provisions of Chapter 189 of the Code of the Town of Lewisboro.

STORMWATER PERMIT APPROVAL EXPIRATION

SW9. This Amended Stormwater Permit shall expire without further written notice if the requirements of this Resolution are not completed within the expiration time period for Amended Site Development Plan Approval as set forth herein, or as may be amended or extended. As provided pursuant to the Town Stormwater Management and Erosion and Sediment Control Law, this Permit is subject to revocation should the permitee not comply with the terms and conditions of this Resolution.

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SITE DEVELOPMENT PLAN APPROVAL

GENERAL CONDITIONS OF APPROVAL

- SP1. This Resolution authorizes only the activities approved herein and as delineated on the *signed* and *filed final* Site Plans as required below.
- SP2. Any alterations or modifications to the approved *final signed* Site Plans, or to the approved and subsequently constructed site improvements, facilities and mitigation measures, shall require the prior review and approval of the Planning Board.
- SP3. This Amended Site Development Plan Approval shall replace and supercede the previous Site Development Plan Approval dated October 12, 2010. This Amended Site Development Plan Approval shall not take effect until the Site Plans as approved herein are revised and filed with sufficient copies in the office of the Planning Board as required herein, and a Final Subdivision Plat is approved, signed and filed in the offices of the Westchester County Clerk, Division of Land Records and the Lewisboro Planning Board.
- SP4. No construction activity shall commence prior to the issuance of an authorized Stormwater Management and Erosion and Sediment Control Permit for Construction Activities by the SMO, a Wetland Activity Implementation Permit by the Wetland Inspector and a Building Permit by the Building Inspector, or any other required local, Federal, State, and County permit approvals.

PRIOR TO PLANNING BOARD ENDORSEMENT OF FINAL SITE PLANS

Within six (6) months of the date of this Resolution of Approval, the applicant shall complete the following prior to endorsement of the Site Plans as Final by the Planning Board Chair and Secretary:

Other Required Permit Approvals

- SP5. Copies of the following other required permit approvals shall be provided to the Planning Board, the Building Inspector and Wetland Inspector. All permit approvals shall be current and valid at the time of submission, and shall extend sufficiently into the future to cover the implementation and Building Permit phase. Existing or standing permit approvals may require confirmation of continued validity (e.g., NYSDEC Stormwater Permit Coverage may require renewal or modification under the current 2010 General Permit standards of SPDES GP 01-10-001). Any plan related changes as a result of the following and/or other required agency permit approvals shall be incorporated and listed in a memorandum to the Planning Board, citing what if any changes or effects said changes have on the approved Site Plans as reviewed and approved to date (any such changes or effects are subject to further review and approval by the Planning Board):
 - a. ACARC recommendation of building and trim colors. All buildings of an individual construction phase shall be colored the same, with each phase being a different color except the trim color shall be the same on all buildings in all three (3) phases.

- b. Oakridge Water District approvals, including but not limited to water connection and conveyance of Well #7.
- c. Oakridge Sewer District approvals, including but not limited to sewer connection.
- d. Lewisboro Planning Board Final Subdivision Plat Approval, including resolution of the needed or required "control" of the land area within 200 feet of Well #7.
- e. Westchester County Health Department approvals, including but not limited to endorsement of the Final Subdivision Plat and approvals pertaining to the water mains and sanitary sewer extensions.
- f. New York State Department of Environmental Conservation approvals, including but not limited to approval of the required Stormwater Pollution Prevention Plan, SPDES Permit for General Stormwater Discharges, Freshwater Wetland Permit, and Water Quality Certification.
- g. U.S. Army Corps of Engineers Approval for all direct wetland impact activities.

Revised Final Site Plans

- SP6. The applicant shall submit *final* Site Plans revised as follows, and said revised Site Plans shall be reviewed and recommended for signature by the Town Planning Consultant prior to signature by the Planning Board Chair and Secretary:
 - a. Each and every individual Sheet included in the final Site Plan set shall include:
 - (1) An authorized original signature of Smith Ridge Housing, LLC.
 - (2) An original signature and certification seal of the professional(s) responsible for the preparation of each individual Sheet.
 - (3) A common revision date, dated no sooner than July 13, 2011.
 - b. Notation shall be added consistent with the *final* Oakridge Gardens Construction Sequence Specifications restricting and limiting construction access and deliveries through the existing abutting Oakridge Shopping Center parcel only, as well as referencing permitted hours and days of construction.
 - c. On Sheets SP-2 and SP-18, the "Zoning Chart" shall be revised to include notation referring to the new zoning standards relative to compliance of minimum lot area and bulk standards for Condominium Lots developed under a coordinated Site Plan.

- d. Sheet SP-6a and Sheet SP-11 shall be revised to add the following note: No construction trailers shall be permitted; construction offices will reside within an existing tenant space within the abutting Oakridge Shopping Center. No construction related parking, staging or storage of construction related vehicles, equipment or materials shall be permitted on the abutting Oakridge Shopping Center parcel except as related to the installation of the off-site stormwater improvements to be installed thereon.
- e. Revise Sheet SP-11, Construction Sequence Notes, Note #11 to also reference the permitted hours and days of construction, and restricted hours for construction access to avoid peak am and pm hours on Smith Ridge Road, at the abutting Shopping Center and for existing Oakridge residents.

Revised Final SWPPP

SP7. The applicant shall submit a *final* Stormwater Pollution Prevention Plan (SWPPP) and Report, prepared according to the requirements and contents as stated in Section 189-8(A-C) of the Town of Lewisboro Stormwater Management and Erosion and Sediment Control Law and all applicable State General Permit standards, as approved by the Lewisboro SMO. The SWPPP and Report shall include a signature block signed by the applicant and owner, and include a signature block consistent with that shown on the Site Plans for the endorsement by the SMO, Planning Board Chair and Secretary. The revised SWPPP shall be reviewed and recommended for signature by the Town Consulting Engineer prior to signature by the SMO and Planning Board Chair and Secretary.

Revised Oakridge Gardens Construction Sequence Specifications

- SP8. The applicant shall submit a *final* Oakridge Gardens Construction Sequence Specifications document revised as follows, and said revised document shall be reviewed and recommended for signature by the Town Planning Consultant prior to signature by the Planning Board Chair and Secretary:
 - a. Clarify the owner's address (number and spelling) as indicated on the cover.
 - b. Specific permissible hours of construction vehicle access via the construction ingress and egress so not to conflict with peak hour traffic on Smith Ridge Road or with that of the shopping center or existing residences of Oakridge shall be included.
 - c. Add the following note to Page 1: All specifications, materials and methods of construction shall be in accordance with the standards set forth in the Town of Lewisboro Land Subdivision Regulations, Zoning Ordinance, Wetlands and Watercourses Law, Sign Law and Stormwater Law, and more specifically as set forth in the Town of Lewisboro Planning Board Resolutions pertaining to Amended Approvals for Oakridge Gardens dated July 11, 2011, Amended #2 Approvals for Laurel Ridge (aka Oakridge Gardens) dated June 12, 2012, and Final Subdivision Plat Approval for Laurel Ridge (aka Oakridge Gardens) dated June 12, 2012; Cal. No. 6-02 P.B.

Legal Instruments and Other Permit Documents

- SP9. The applicant shall provide evidence of the filing of the Recreation Agreement with the Oakridge Condominium Association with the Office of the Westchester County Clerk, Division of Land Records.
- SP10. A complete set of legal instruments pertaining to the proposed action shall be provided for review and acceptance as *final* by the Planning Board and its consultants. Final approved instruments shall be filed in the office of the Westchester County Clerk, Division of Land Records and/or State Attorney General, as appropriate. Filing shall be coordinated with the Planning Board Attorney and two (2) copies of same shall be provided to the Planning Board.
 - Letter from abutting Oakridge Shopping Center parcel owner confirming existing easement and maintenance provisions.
 - Construction Access Easement and Maintenance Access Easement to Master HOA related to the stormwater management and treatment controls installed on the abutting Oakridge Shopping Center parcel to the east.
 - Maintenance Access Easement to Master HOA related to stormwater management and treatment controls to be installed on the subject property.
 - Maintenance Access Easement to Master HOA related to all wetland mitigation measures.
 - Maintenance Access Easement to Master HOA related to all common landscape improvements.
 - Maintenance Access Easement to Master HOA related to all common roadway, driveway and parking improvements.
 - Access Easement to Fire Department.
 - Access and Maintenance Easement to Oakridge Sewer District related to all sewer collection (mains) improvements to be conveyed to or maintained by the Sewer District.
 - Access and Maintenance Easement to Oakridge Water District related to all water supply (well) and distribution (mains) improvements to be conveyed to or maintained by the Water District.
 - Access and Maintenance Easement to Oakridge Water District related to the existing pump house building located on the subject property.
 - Declaration protecting all designated open space areas on the subject property.
 - Declaration (deed restriction) related to limitations on clearing, wetlands, NYSDEC wetlands, etc.
 - All easements as included and/or required on the Final Subdivision Plat.

Bonds, Fees, Escrow and Contributions

- SP11. The applicant shall pay to the Town of Lewisboro, by certified check, the following:
 - a. Any outstanding professional review fees in accordance with §220-77 of the Zoning Ordinance, §217-10 of the Wetlands and Watercourses Law, §195-12 of the Land Subdivision Regulations, and §189-18 of the Stormwater Management and Erosion and Sediment Control Law.

- b. An engineering and inspection fee, including Stormwater Permit inspection fee, in the amount of \$51,027.00 being 5% of the applicant provided qualified cost estimate for all approved site preparation and construction activities (excluding improvements directly related to the construction of buildings and excluding wetland plantings and wetland mitigation work), which estimated amount was recommended by Thomas Altermatt, P.E., Town Consulting Engineer via memorandum to the Planning Board dated April 21, 2011.
- c. A Wetland Permit monitoring and inspection fee escrow account shall be established with the Town of Lewisboro by the applicant with a deposit in the amount of \$8,000.00. A positive balance shall be maintained by the applicant in said escrow account throughout all three (3) phases of construction and the five (5) year wetland mitigation monitoring period following the issuance of Wetland Permit Certificate of Compliance, whichever is later, and at which time of completion the applicant would be refunded any balance of the escrow account.
- SP12. The applicant shall provide evidence of payment of two-hundred thousand (\$200,000) dollars of the total contribution of one-million (\$1,000,000) dollars to the Oakridge Water and Sewer Districts; the balance of which shall be paid, and evidence of payment provided, according to the following payment schedule:

\$1,000	\$1,000,000 CONTRIBUTION PAYMENT SCHEDULE TO OAKRIDGE SEWER AND WATER DISTRICTS									
PHASE # OF AMOUNT UNITS PER UNIT			PAYMENT MADE PRIOR TO	PAYMENT TOTAL	CUMULATIVE TOTAL	BALANCE				
#1		\$200,000	Prior to Signing Site Plans	\$200,000	\$200,000	\$800,000				
	14 MRU	\$19,600/MRU	w/Each CO for a MRU	\$274,400	\$474,400	\$525,600				
5 MIU N/A All completed in Phase 1										
#2		\$100,000	Prior to 1st BP of Phase 2	\$100,000	\$574,400	\$425,600				
	17	\$13,718/MRU	w/Each CO for a MRU	\$233,206	\$807,606	\$192,394				
#3 \$50,000 Prior to 1st BP of Phase 3		Prior to 1st BP of Phase 3	\$50,000	\$857,606	\$142,394					
10 \$14,240/MRU w/Each CO for a MRU		\$142,400	\$1,000,000	0						
TERMS USED:COLewisboro Certificate of OccupancyMRUMarket Rate UnitBPLewisboro Building PermitMIUMiddle-Income Unit										

Final Copies for Endorsement

- SP13. Upon revision of the Site Plans as required herein, the applicant shall furnish the Planning Board with two (2) complete mylar sets of the following plans for *final* review by the Town Planning Consultant and endorsement by the Planning Board Chair and Secretary as the *final* Site Plans, following the endorsement of the Site Plans by the Planning Board Chair and Secretary as *final*, one (1) mylar set will be returned to the applicant for copying and the second mylar set will be retained by the Planning Board copy:
 - ► SP-1 OAKRIDGE COMMONS MASTER PLAN (D&A)
 - SP-2 OVERALL OAKRIDGE GARDENS SITE LAYOUT PLAN (D&A)
 - ► SP-2a SITE LAYOUT PLAN (KS&C)
 - ► SP-2b SITE LAYOUT PLAN (KS&C)
 - ► SP-3a GRADING PLAN (KS&C)
 - ► SP-3b GRADING PLAN (KS&C)
 - ► SP-4a UTILITY PLAN (KS&C)
 - ► SP-4b UTILITY PLAN (KS&C)
 - ► SP-5a ROAD PROFILES PLAN (KS&C)
 - SP-5b ROAD PROFILES PLAN (KS&C)
 - ► SP-5c ROAD PROFILES PLAN (KS&C)
 - ► SP-6a EROSION CONTROL PLAN (KS&C)
 - ► SP-6b EROSION CONTROL PLAN (KS&C)
 - ► SP-7a OVERALL PLANTING PLAN (D&A)
 - ► SP-7b OVERALL PLANTING PLAN (D&A)
 - ► SP-8a TYPICAL UNIT PLANTING PLAN (D&A)
 - ► SP-8b TYPICAL UNIT PLANTING PLAN (D&A)
 - SP-9a OVERALL WETLAND BUFFER RESTORATION/ENHANCEMENT PLANTING PLAN (D&A)
 - ► SP-9b WATER QUALITY BASIN PLANTING PLAN (D&A)
 - ► SP-10a LIGHTING PLAN (D&A)
 - ▶ SP-10b LIGHTING PLAN (D&A)
 - ▶ SP-11 SITE DETAILS & NOTES (KS&C)
 - ► SP-12 SITE DETAILS & NOTES (KS&C)
 - ► SP-13 SITE DETAILS & NOTES (KS&C)
 - ► SP-14 SITE DETAILS & NOTES (KS&C)
 - ► SP-15 SITE DETAILS & NOTES (KS&C)
 - ► SP-16 WATER QUALITY BASIN DETAIL PLAN (KS&C)
 - ► SP-17 SITE SECTIONS (D&A)
 - SP-18 ORIGINAL SLOPE MAP 25% (PRE-DISTURBANCE) (D&A)
 - ► SP-19 EXISTING CONDITIONS/DEMOLITION PLAN (D&A)
 - ► SP-20 OFF-SITE DRAINAGE DATA (KS&C)
 - ► SP-21 OPEN SPACE PLAN (D&A)
 - A-1 UNIT A PLANS
 - ► A-2 UNIT B PLANS
 - ► A-3 UNIT C PLANS
 - ► A-4 UNIT D PLANS

- ► A-5 UNIT E PLANS
- ► A-6 UNIT F PLANS
- A-7 BUILDING 1 PLANS
- ► A-8 BUILDING 1 ELEVATIONS
- A-9 BUILDING 5 PLANS
- ► A-10 BUILDING 5 ELEVATIONS
- SP14. Upon the applicant's satisfactory completion of Conditions SP5 through SP13 herein, the Planning Board Chair and Secretary shall be authorized to endorse the revised Site Plans and other documents as *final*.
- SP15. Within ten (10) days after endorsement of the Site Plans by the Planning Board Chair and Secretary as *final*, the applicant shall deliver to the Planning Board Secretary nine (9) printed sets, collated and folded, of the *final signed* Site Plans, as well as nine (9) copies of all other final approved documents (SWPPP, Oakridge Gardens Construction Sequence Specifications and Legal Instruments).

CONDITIONS OF CONSTRUCTION

- SP16. Development of the subject property shall conform to the intent, statements, findings, requirements and mitigation measures set forth on the *signed final* Site Plans, Oakridge Construction Sequence Specifications, SWPPP and this Resolution of Approval. The Planning Board Secretary shall monitor the progress of the site development and the compliance of the applicant of the various milestones and specified time periods set forth herein throughout the duration of this project. To facilitate that monitoring, the applicant shall provide copies of the following to the Planning Board Secretary within ten (10) calendar days of said item:
 - a. All correspondence with the Town Consulting Engineer, SMO, Wetland Inspector and Building Inspector
 - b. Copies of all requests for Building Permits, Wetland Certificates of Completion and Building/Site related Certificates of Occupancy and/or Completion.
 - c. Copies of all issued Wetland Certificates of Completion and Building/Site related Certificates of Occupancy and/or Completion.
- SP17. Construction access and deliveries shall be restricted to the existing abutting Oakridge Shopping Center parcel only. Permitted hours and days of construction shall be limited to that set forth in the *signed final* Oakridge Gardens Construction Sequence Specifications.
- SP18. No construction trailers shall be permitted; construction offices will reside within an existing tenant space within the abutting Oakridge Shopping Center. No construction related parking, staging or storage of construction related vehicles, equipment or materials shall be permitted on the abutting Oakridge Shopping Center parcel except as related to the installation of the off-site stormwater improvements to be installed thereon.

- SP19. No construction activity shall commence prior to the issuance of authorized permit approvals from the Wetland Inspector, SMO and Building Inspector, and coordination with the Town Consulting Engineer.
- SP20. Prior to site preparation or construction, the owner and contractor(s) shall meet with the Wetland Inspector, SMO, Building Inspector and Town Consulting Engineer.
- SP21. Prior to commencement of any site work, all contractor certifications and/or maintenance easements as may be required by Chapter 189 of the Code of the Town of Lewisboro shall be completed and copies provided to the SMO, Town Consulting Engineer and Building Inspector.
- SP22. Prior to the commencement of any site work or construction activity, erosion and sedimentation controls shall be installed and shall be subject to continual maintenance and additional controls as may be required by the Wetland Inspector, SMO, Building Inspector, Town Consulting Engineer, or their authorized agents. All site construction inspections shall be coordinated with the Town Consulting Engineer, SMO, Wetlands Inspector and Building Inspector. Erosion of excavated soils shall be controlled to prevent discharge of sediments and dust at all times.
- SP23. A clean and legible copy of this Resolution (as signed by the Planning Board Chair) and a copy of the *signed final* Site Plans, Oakridge Construction Sequence Specifications, and SWPPP (as signed by the Planning Board Chairman and Secretary) shall be maintained on the subject property at all times and made available upon request by an authorized Town official or inspector, or other permit approval agency representative.
- SP24. All new or replacement site utilities (electric, telephone, cable, sanitary sewer, water supply, etc) shall be installed underground and shall be routed in a single trench where possible to reduce site excavation and disturbances.
- SP25. Construction of site utilities, stormwater management systems and roadways shall be supervised by a New York State licensed and registered Professional Engineer.
- SP26. Any subsequent alterations, modifications, additions or changes to the approved and constructed improvements shall require the prior review and written approval by the Planning Board as a new, modified and/or amended Application for Site Development Plan Approval.

CONDITIONS OF OPERATION

- SP27. Each multifamily residence unit approved herein and as shown on the approved Site Plans shall include 2-bedrooms. There shall be no addition or conversions of non-bedrooms to bedrooms permitted, as the approved and permitted density units for the subject property have been totally exhausted by the Site Plans approved herein.
- SP28. No oil storage tanks shall be permitted; heat and hot water service shall be electric, any change in service or related site improvements not presently shown on Site Plans shall require the prior review and approval by the Planning Board as an Amended Site Development Plan.

- SP29. Units #3, #8, #12, #13 and #18 shall be sold and/or rented in perpetuity as middle-income residences in accordance with the provisions and standards as set forth in §220-26(F) of the Lewisboro Zoning Ordinance. Said units shall be constructed and a Certificate of Occupancy shall be obtained for said units prior to the completion of Phase 1. The first and any subsequent deed to each of the five (5) individual middle-income units shall contain language requiring that the occupancy and the sale or rental of said units shall only be in compliance with §220-26(F) and any amendment or successor thereto.
- SP30. All five (5) middle-income units shall be constructed with pre-framing and wiring for stair chairlifts, ADA compliant 36"-wide doorways and block framing for grab bar installation in the bathrooms.
- SP31. All forty-six (46) multifamily units shall be constructed with a minimum 2-hour firewall between units and to include a fire sprinkler system according to NFPA13R specifications.
- SP32. Snow removal shall occur internally to the subject property, and no plowed snow shall be stored within travel lanes, parking spaces, wetland or wetland buffer areas, or over landscaping to the detriment of said landscaping.
- SP33. No signs, lights, or other materials or devices, except as approved and detailed on the Site Plans, shall be permitted to be supported, hung, flown or otherwise attached to site buildings, structures or the site grounds.
- SP34. No changes to the appearance, paint coloring or physical dimensions, roofline, facades, building footprints, etc of any multifamily residence building shall be permitted or authorized without the prior review and approval by the Planning Board.
- SP35. The site roadways and parking facilities, buildings and structures and other above and below ground site improvements shall be maintained in good working order at all times, and shall be regularly maintained in a neat and orderly manner, free of debris, sediments or litter and refuse.
- SP36. Refuse containers shall be maintained and stored in the garages of the individual units, except for a reasonable period of time to accommodate pickup by a private licensed refuse disposal carter.
- SP37. The appearance and function of all buildings, roadways, walkways, walls, fencing, landscaping, wetland mitigation measures, stormwater collection and treatment facilities, site utilities, and other site improvements shall be maintained in an orderly working fashion as designed and approved.

PRIOR TO ISSUANCE OF A BUILDING PERMIT

The following conditions shall be completed by the applicant prior to the authorized issuance of a Building Permit by the Lewisboro Building Inspector:

- SP38. The Building Inspector shall not be authorized to issue a Building Permit(s) pertaining to the activities and improvements approved herein until the applicant has provided to the Planning Board the required copies of the revised *signed final* Site Plans, SWPPP, Oakridge Gardens Construction Sequence Specifications, legal instruments, and other related documents as stipulated herein, and all fees and other contributions as set forth herein have been paid.
- SP39. The applicant shall post a bond or letter of credit in the amount of \$243,770.00 being 100% of the estimated construction (materials and labor) cost of the water and sewer improvements to be conveyed to the Oakridge Sewer and Water Districts, which estimated amount was recommended by Thomas Altermatt, P.E., Town Consulting Engineer via memorandum to the Planning Board dated April 21, 2011. Posting of the bond or letter of credit shall be in accordance with an approval of a security agreement by the Lewisboro Town Board and Town Attorney, copies of which shall be provided to the Building Inspector, Planning Board and Planning Board Attorney.
- SP40. Authorized issuance of a Building Permit(s) by the Building Inspector shall be fully based on, and in accordance with this Resolution of Approval and the *final* Site Plans *signed* by the Planning Board Chair and Secretary. Any alteration or deviation from the *signed final* Site Plans shall require the prior review and approval by the Planning Board of the Town of Lewisboro. The Building Inspector shall include reference to the *final* Site Plans and this Resolution of Approval on any issued Building Permit(s).
- SP41. Phasing of site construction, consisting of a total of three (3) phases, shall follow the Oakridge Gardens Construction Sequence Specifications as *signed final* by the Planning Board Chair and Secretary. Any deviation or changes to said construction sequence and/or specifications shall require the prior review and approval of the Planning Board. Phasing of the multifamily residence units shall consist of the following:
 - Phase 1 Nineteen (19) units (#1-19), including all five (5) middle-income units.
 - Phase 2 Seventeen (17) units (#20-36).
 - Phase 3 Ten (10) units (#37-46).
- SP42. The removal of invasive species shall start with the commencement of authorized site work and shall be completed in accordance with the *signed final* Site Plans.

Prior to a Building Permit for a Multifamily Residence Unit in Phase 1

- SP43. The applicant shall compete the following prior to the authorized issuance of a Building Permit by the Building Inspector pertaining to the first multifamily residence unit and/or multifamily building:
 - a. The following shall be installed and fully operational, and the disturbed area associated with same shall be stabilized as determined appropriate by the Town Consulting Engineer, SMO and Wetland Inspector:
 - (1) All erosion and sedimentation controls associated with Phase 1.
 - (2) All wetland protection measures associated with wetland disturbances and wetland mitigation measures.
 - (3) All temporary stormwater swales and sediment basins.
 - (4) All permanent inlet, outlet and piping infrastructure between the south parcels and the north parcel associated with the sediment basins.
 - (5) All permanent inlet and outlet infrastructure between the two treatment basins, and between the treatment basins and all outlets to or into Lake Oakridge.
 - b. Prior to any further site work and prior to the backfilling of any related improvements which will be permanent, the Design Engineer shall submit a letter of certification to the Planning Board, Building Inspector, Town Consulting Engineer, SMO and Wetland Inspector that said installation is consistent and installed in accordance with the approved Site Plans. The Town Consulting Engineer, SMO and Wetland Inspector shall inspect said installation of all temporary and permanent infrastructure improvements and concur in writing to the Planning Board and Building Inspector with their substantial completion as approved. Refer to Condition SP51 regarding the final completion and acceptance of same.
 - c. The applicant shall provide evidence to the Planning Board and Building Inspector of its contribution to the Oakridge Condominium Association or of the establishment of an escrow account (below) in the amount of two-hundred and fifty thousand (\$250,000) dollars for repair of the existing recreation facilities.

Said contribution may be deposited in an escrow account held by the firm of Hocherman Tortorella & Wekstein, LLP of White Plains, New York, or other such law firm selected by the applicant and approved by the Planning Board, in trust for the applicant and Oakridge Condominium Association for payment as improvement contracts are approved according to the Contract Agreement between the applicant and the Oakridge Condominium Association. Should the firm of Hocherman Tortorella & Wekstein or other approved law firm be dissolved or terminated for any reason, the escrow account shall be transferred to the Town of Lewisboro.

- d. The following legal instruments shall be provided for review and acceptance as *final* by the Planning Board and its consultants. Final approved instruments shall be filed as required by law or regulation. Filing shall be coordinated with the Planning Board Attorney and two (2) copies of same, as filed, shall be provided to the Planning Board:
 - Draft Declaration of Covenants, Conditions, Restrictions and Easements for the Oakridge Gardens Condominium 1, 2 and 3, and Master HOAs.
 - Draft By-Laws of the Oakridge Gardens Condominium 1, 2 and 3 and Master HOA.
- P44. The escrow set forth above in Condition SP43(c) shall be held for that period of time as set forth in the Recreation Agreement. As offered by the applicant, in the event that the Oakridge Condominium Association does not act in a timely manner to complete the refurbishment of the existing recreation facilities, including obtaining Site Development Plan approval as may be required for same from the Planning Board, the contribution funds shall be paid to the Town of Lewisboro as a fee in lieu of recreation improvements.
- SP45. Upon satisfactory completion of Condition SP43, Building Permits for individual multifamily residence units #1 through #5 of Building 1 may be issued. No Certificate of Occupancy shall be issued for any of these units until Conditions SP52 and SP51 have been satisfactorily completed.

Prior to a Building Permit for a Multifamily Residence Unit in Phase 2

SP46. The scheduled contribution to the Oakridge Water and Sewer Districts shall be made per the payment schedule set forth in Condition SP12 and evidence of same shall be provided to the Planning Board Secretary, who will notify the Building Inspector said condition has been satisfied.

Prior to a Building Permit for a Multifamily Residence Unit in Phase 3

SP47. The scheduled contribution to the Oakridge Water and Sewer District shall be made per the payment schedule set forth in Condition SP12 and evidence of same shall be provided to the Planning Board Secretary, who will notify the Building Inspector said condition has been satisfied.

PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY

The following conditions shall be completed by the applicant prior to the issuance of a Certificate of Occupancy by the Building Inspector:

General Conditions of Certificate of Occupancy for All Individual Multifamily Residence Units

SP48. As a condition of Certificate of Occupancy, the Building Inspector shall require all site improvements be maintained in accordance with this Resolution, best management practices, and in strict accordance with all applicable rules, regulations, ordinances and laws.

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- SP49. Failure to comply with any of the conditions set forth herein shall be deemed a violation of this Approval, which may lead to the revocation of said Approval, or the revocation by the Building Inspector of any issued Certificate of Occupancy pertaining thereto.
- SP50. A Certificate of Occupancy shall be deemed to authorize and is required for both initial and continued occupancy and use of the building or land to which it applies, and shall continue in effect as long as such building and the use thereof, or use of such land, is in full conformity with the provisions of the Lewisboro Zoning Ordinance and any requirements made pursuant thereto.

Prior to Certificate of Occupancy for Each Individual Multifamily Residence Unit

- SP51. Prior to the authorized issuance of a Certificate of Occupancy by the Building Inspector for each multifamily residence unit, the following shall be completed, and the Wetland Inspector, SMO and/or Town Consulting Engineer, as appropriate, shall confirm that all such approved site improvements have been completed in accordance with the *final signed* Site Plans:
 - a. All utilities (water supply, sewage disposal, HVAC, electric, telephone, cable, etc) shall be connected to and operational for each unit located in the common building to which said individual unit is attached, including appropriate conveyances as the case may be to the related utility entities with copies evidencing said conveyances to the Planning Board, Planning Board Attorney, Town Consulting Engineer and Building Inspector. The Town Consulting Engineer shall inspect the completion of these facilities in consultation with the various utility entities.
 - b. The exterior facade of the entire common building to which said individual unit is attached shall be complete and painted, including related landscaping about the immediate perimeter of said common building and all individual unit decks, patios, lighting, and driveways. Landscaping improvements may be deferred to the next earliest planting season if planting is determined to be prohibitive at the given time, provided the applicant post cash, a bond or letter of credit in a form, amount and manner of execution as determined acceptable by the Planning Board Attorney prior to the issuance of any related Certificate of Occupancy by the Building Inspector.
 - c. An "As-Built" plan showing the installed and completed improvements, certified by the supervising New York State licensed Professional Engineer and a New York State licensed and registered Land Surveyor shall be prepared at the sole expense of the applicant. Copies of said "As-Built" plan shall be provided to the Planning Board, Wetland Inspector, SMO, Town Consulting Engineer and Building Inspector, documenting satisfactory completion of all related authorized construction activities and zoning compliance.
 - d. The scheduled contribution to the Oakridge Water and Sewer District shall be made per the payment schedule set forth in Condition SP12 and evidence of same shall be provided to the Planning Board Secretary, who will notify the Building Inspector said condition has been satisfied.

Prior to Certificate of Occupancy for the First Individual Multifamily Residence Unit

- SP52. Prior to the authorized issuance of a Certificate of Occupancy by the Building Inspector for the first individual multifamily residence unit, the following shall be completed, and the Wetland Inspector, SMO and/or Town Consulting Engineer, as appropriate, shall confirm in writing that all such approved site improvements have been completed in accordance with the *final signed* Site Plans:
 - a. Completion as set forth in Condition W14 above.
 - b. Completion as set forth in Condition SP12 above.
 - c. Completion as set forth in Condition SP51 above.
 - d. Well #7 shall be connected to the existing Oakridge Water District water treatment plant, shall be fully operational, and conveyed to the Oakridge Water District. All associated legal instruments shall be duly filed in the office of the Westchester County Clerk, Division of Land Records, and copies of same provided to the Planning Board, Planning Board Attorney, Town Consulting Engineer and Building Inspector. An "As-Built" plan consistent with Condition SP51(c) of this Resolution shall be provided and the Town Consulting Engineer shall determine the completion of the Well installation and related force mains in consultation with the Oakridge Water District Engineer.
 - e. Road A (loop road on the southern parcels) shall be deemed "substantially complete" by the Town Consulting Engineer, including installation of water, hydrant, sewer and stormwater mains and related facilities, as well as related landscaping and parking improvements.
 - f. The access driveway to the Lake Oakridge dry hydrant shall be paved, and approved by the Town Consulting Engineer in consultation with the Vista Fire Department.
 - g. The final course of pavement shall be installed on Oakridge Drive (over the entire section where there is presently no top course) and a portion of the new internal loop road (Road A), that portion primarily serving Phase 1 from Oakridge Drive to the upper elevation of the looped portion near section 7+00, as determined sufficient by the Town Consulting Engineer.
 - h. All Wetland Mitigation Plan measures shall be deemed "substantially complete" by the Wetland Inspector, and the walking trail shall be completed.
 - i. The stormwater improvements on the abutting Oakridge Shopping Center parcel shall be completed and operational. The supervising Professional Engineer for the project shall provide an "As-Built" certifying their completion in accordance with the *signed final* Site Plans and according to the standards of all related permit approvals and governing rules, regulations and laws. The Town Consulting Engineer and SMO shall inspect same and concur with its completion as approved.

Prior to Certificate of Occupancy for any Phase 2 Individual Multifamily Residence Unit

SP53. The final course of pavement shall be installed over the remaining portion of the new internal loop road (Road A) from Phase 1 final course paving back to Oakridge Drive, including the repair of any portion of the previously paved section of the loop road that may have been damaged or otherwise altered as a result of Phase 2 construction, to the satisfaction of the Town Consulting Engineer.

Prior to Certificate of Occupancy for any Phase 3 Individual Multifamily Residence Unit

- SP54. Temporary Sediment Basin #2 shall be converted to a permanent Stormwater Quality basin and planted as set forth on the approved *signed final* Site Plans.
- SP55. Road B (on the northern parcel) shall be deemed "complete" by the Town Consulting Engineer, including installation of water, hydrant, sewer and stormwater mains and related facilities, final course of paving, as well as related landscaping and parking improvements.

Prior to Certificate of Occupancy for the Forty-First (41) Multifamily Residence Unit

- SP56. Prior to the authorized issuance of the forty-first (41) multifamily residence unit Certificate of Occupancy by the Building Inspector, the following shall be completed:
 - a. All site improvements shall be completed and operational, and the Wetland Inspector, SMO, Town Consulting Engineer and Town Planning Consultant, as appropriate, shall confirm that all such approved site improvements have been completed in accordance with the *final signed* Site Plans.
 - b. A final "As-built" survey plan consistent with Condition SP51(c) of this Resolution shall be provided certifying all completed site and building improvements in accordance with the approved signed Site Plans.
 - c. The applicant shall provide evidence of satisfactory completion and "sign-off" from all other involved Federal, State, County and local (including the Oakridge Sewer and Water Districts) agencies.
 - d. All site landscaping, including all wetland mitigation plantings and all stormwater basin plantings, shall be completed and inspected by the Consulting Town Engineer and Wetland Inspector for compliance with the approved Site Plans. Modifications as may be necessary to achieve the intended plan purposes shall be subject to referral back to the Planning Board for review and approval.

SITE DEVELOPMENT PLAN APPROVAL EXPIRATION

- SP57. This Approval shall be deemed to authorize only the particular site use and improvements specified herein, and shall be null and void without further written notice unless:
 - Conditions SP5 through SP13 shall be completed by the applicant prior to the expiration of the Town of Lewisboro Planning Board Resolution granting Amended Approvals pertaining to Oakridge Gardens, Sheet 49d, block 9830, Parcels 1-A-8 and 1-A-9, Cal. No. 6-02 P.B., dated July 12, 2011, as extended on June 26, 2012.
 - A Building Permit pertaining to Phase 1 is obtained and work initiated pursuant thereto within one (1) year of the date of the signing of the *final* Site Plans, and all nineteen (19) units of Phase 1 are completed with issuance of a Certificate of Occupancy within three (3) years of the date of the signing of the final Site Plans.
 - A Building Permit pertaining to Phase 2 is obtained and work initiated pursuant thereto within three (3) years of the date of the signing of the *final* Site Plans, and all seventeen (17) units of Phase 2 are completed with issuance of a Certificate of Occupancy within three (3) years of the date of the first Phase 2 Building Permit.
 - d. A Building Permit pertaining to Phase 3 is obtained and work initiated pursuant thereto within six (6) years of the date of the signing of the *final* Site Plans, and all ten (10) units of Phase 3 are completed with issuance of a Certificate of Occupancy within three (3) years of the date of the first Phase 3 Building Permit.
 - e. All approved improvements are completed and a Certificate of Occupancy is obtained for all forty-six (46) multifamily residence units within nine (9) years from the date of the signing of the *final* Site Plans.
- SP58. This Approval shall be null and void without further written notice if construction or use shall cease for more than one (1) year for any reason, or if the approved improvements are not maintained and all conditions and standards complied with.
- SP59. The time frames set forth in this Resolution of Approval may only be amended or extended by the Planning Board. Any request for extension of the Approvals granted herein shall be made in writing a minimum of forty-five (45) days prior to the expiration date as stipulated in this Resolution of Approval, and shall state the circumstances for the requested extension. In considering any such requests, the Planning Board may require an Amendment review and may require a Public Hearing.
- SP60. As set forth herein, the phrases "this approval," "in this Resolution," and "in this Resolution of Approval" shall refer to the Lewisboro Planning Board Resolution granting Amended Approvals pertaining to Oakridge Gardens, Sheet 49d, block 9830, Parcels 1-A-8 and 1-A-9, Cal. No. 6-02 P.B., dated July 12, 2011 and June 12, 2012, except to the extent the conditions of said Amended Approvals set forth therein are specifically amended herein.

RESOLUTION LEWISBORO PLANNING BOARD

FINAL SUBDIVISION PLAT APPROVAL CONDOMINIUM LOTS

LAUREL RIDGE (aka OAKRIDGE GARDENS) Sheet 49D, Block 9830, Parcels 1-A-8 and 1-A-9 Cal. No. 6-02 P.B.

JUNE 12, 2012

WHEREAS, the Planning Board of the Town of Lewisboro, located in Westchester County, New York, has received an application for Final Subdivision Plat Approval from Smith Ridge Housing, LLC (applicant); and

WHEREAS, the subdivision property consists of approximately 5.138 acres located on the southerly side of Oakridge Drive (a private access road connecting with NYS Route 123) within an R-MF Multifamily Residence District, in the Hamlet of Vista, Town of Lewisboro, Westchester County, New York, designated on the Town of Lewisboro Tax Maps as Sheet 49M, Block 9830, Parcel 1-A-9; and

WHEREAS, the subdivision property is proposed to be resubdivided into two (2) multifamily condominium lots consistent with the standards and requirements as set forth in Chapter 195, Lewisboro Land Subdivision Regulations and §220-26(I) of the Lewisboro Zoning Ordinance, as follows:

- Parcel 1-A-9a, consisting of approximately 2.036 acres;
- Parcel 1-A-9b, consisting of approximately 3.102 acres; and

WHEREAS, together, with an adjoining approximately 4.056 acre parcel located on the northerly side of Oakridge Drive, also within an R-MF Multifamily Residence District, in the Hamlet of Vista, Town of Lewisboro, Westchester County, New York, designated on the Town of Lewisboro Tax Maps as Sheet 49L, Block 9830, Parcel 1-A-8, a total of approximately 9.194 acres are proposed to be developed according to a single, unified and coordinated development plan (pursuant to Lewisboro Planning Board Site Development Plan, Wetland Activity Permit and Stormwater Permit Approvals, as well as other required permit approvals from other local, County, Regional, State and Federal agencies); and

WHEREAS, the three (3) parcels are proposed to be developed in a coordinated manner under a single unified Site Plan with a total of forty-six (46) "multifamily residences" as defined and regulated in Chapter 220, Zoning, of the Code of the Town of Lewisboro; and

WHEREAS, the subject property is commonly referred to as "Oakridge Gardens" and includes areas of regulated wetlands and associated 150-feet upland buffer areas (including portions of NYSDEC Wetland D-11), woodlands, steep slopes and previously disturbed land areas; and

WHEREAS, for purposes of the applicant's marketing, the project, its associated legal instruments and the condominium entities which will be formed relating thereto, will henceforth be titled "Laurel Ridge" and/or "Laurel Ridge Condominium Association, Inc.," provided that certain project permits and associated plans will retain and/or include the name Oakridge Gardens for the purpose of record continuity; and

WHEREAS, water and sewer services are proposed to be provided by connection to existing services of the Oakridge Water and Sewer Districts, respectively; and

WHEREAS, the proposed action includes conveyance of a new well (Well #7) to Oakridge Water District; and

WHEREAS, the proposed action includes the formation of a Master Homeowners' Association ("HOA") and subordinate HOAs whose total membership will consist of the owners of the new multifamily dwellings; and

WHEREAS, the collective HOAs will own and maintain all common aspects of the site development plan, including but not limited to site access roads, signage, landscaping, stormwater collection and treatment, wetland mitigation measures, and all other common elements as shown on the unified Site Plans; and

WHEREAS, materials and plans submitted in support of the proposed action include:

- · Application for Final Subdivision Plat Approval, March 20, 2012;
- · Applications for Amended Site Development Plan, Wetland Activity and Stormwater Permit Approvals, as well as certain Planning Board Waivers;
- · Signed Agreement w/Oakridge Condominiums for use of Recreational Facilities, April 26, 2011;
- · Oakridge Gardens Construction Sequencing Specifications, March 2012;
- · Stormwater Pollution Prevention Plan for Oakridge Gardens, January, 2007, revised February 27, 2012;
- Laurel Ridge Site & Utility Costs, February 25, 2012;
- Preliminary Resubdivision Plat, March 23, 2012;
- · Letter to the Planning Board from Smith Ridge Associates, LLC confirming easement and maintenance provisions, May 25, 2012;
- · Revised Draft Proposed Legal Instruments, May 18, 2012;
- Final Resubdivision Plat and Easement Plan, May 5, 2012;
- Site Plans, Sheets SP-1 through SP-21, revised February 27, 2012, including Sheets: Cover, SP-2, SP-3a, SP-3b, SP4a, SP4b, SP6a, SP6b, SP10a, SP10b, SP11, SP18, and PH-1, revised May 9, 2012;
- · Architectural Plans, Sheets A1 through A10 (Sheets 33 through 42), revised February 27, 2012; and

WHEREAS, the applicant has entered into a contract agreement with the existing abutting Oakridge Condominium Association (in lieu of membership in said Association, which has not been granted by said Association) for access for all residents and their guests in Laurel Ridge (aka Oakridge Gardens) to the existing Oakridge Condominium Association recreation facilities, thereby satisfying applicable Zoning and Land Subdivision Regulations requirements for provision of on-site recreation; and

WHEREAS, the applicant, among other things, will provide a contribution of two-hundred and fifty-thousand (\$250,000) dollars to the Oakridge Condominium Association to be used for the improvement and/or repair of existing recreation facilities; and

WHEREAS, on June 14, 2011, the Planning Board issued a SEQR Negative Declaration for the proposed Unlisted action pursuant to SEQR 6 NYCRR Part 617 and the Lewisboro Environmental Quality Review Law (LEQR), for which a coordinated environmental review with the other involved SEQR agencies has *not* been conducted; and

WHEREAS, the Lewisboro Conservation Advisory Council (CAC) has reviewed the proposed action and has provided commentary to the Planning Board; and

WHEREAS, the Planning Board duly referred the proposed action and application materials to the Westchester County Planning Board in accordance with §239-1, m and n of General Municipal Law and §277.61 of the County Administrative Code; and

WHEREAS, on May 9, 2011, the Westchester County Planning Board responded (LEW 11-004) to the above noted referral but offered no new recommendations from previous referral responses related to the proposed action; and

WHEREAS, the Planning Board is familiar with the subject property and the general surrounding area; and

WHEREAS, the Planning Board considered the proposed action at a duly noticed Public Hearing opened and adjourned on May 24, 2011, reconvened and closed on June 14, 2011, at which times interested parties were afforded an opportunity to be heard; and

WHEREAS, on July 12, 2012, the Planning Board issued Preliminary Subdivision Plat Approval, subject to several conditions; and

WHEREAS, the Planning Board has considered the materials submitted by the applicant in support of its proposal, the written and verbal comments of the Board's professional consultants made via memoranda (which memoranda are incorporated herein by reference), the verbal commentary made, including public comments, during the Planning Board's meetings and public hearings pertaining to the review and evaluation of the proposed action;

FINAL SUBDIVISION PLAT APPROVAL

NOW THEREFORE BE IT RESOLVED, that upon full consideration of the above, the Planning Board of the Town of Lewisboro hereby determines that the resubdivision of Parcel 1-A-9 into two (2) separate "condominium lots" is consistent with the standards set forth in the Lewisboro Land Subdivision Regulations and §220-26(I) of the Lewisboro Zoning Ordinance, will facilitate construction financing and phasing, and will not change the manner in which all forty-six (46) units would be developed, and thereby grants Final Subdivision Plat Approval to Smith Ridge Housing, LLC, subject to the following conditions:

PRIOR TO SIGNING FINAL RESUDBIVISION PLAT

The applicant shall complete the following prior to the signing of the Final Resubdivision Plat by the Planning Board Chair and Secretary:

- 1. By acceptance of the approval herein, the applicant agrees that said approval is contingent upon strict compliance with the Town Code of the Town of Lewisboro, all applicable regulations, and all of the conditions set forth herein.
- 2. This Resolution authorizes only the activities approved herein, as delineated on the Final Resubdivision Plat as endorsed by the Planning Board Chair and Secretary, and as filed in the Office of the Westchester County Clerk, Division of Land Records, as well as on the signed Final Construction Plans. Any alterations or modifications shall require the prior review and approval of the Lewisboro Planning Board.
- 3. The applicant shall complete the following prior to the *signing* of the Final Resubdivision Plat and Final Construction Plans by the Planning Board Chair and Secretary, or the approval and filing of the associated Legal Instruments thereto:
 - a. Other Permit Approvals Required shall be obtained by the applicant consistent with Condition SP5 set forth in the document entitled <u>Consolidated Conditions of Approval Laurel</u> <u>Ridge (aka Oakridge Gardens)</u> as attached to the Planning Board's related Resolution of Amended #2 Approvals dated June 12, 2012, a copy thereof provided to the Planning Board and Building Inspector, and any corresponding plan changes shall be listed in a memorandum to the Planning Board, citing what if any changes or effects said plan changes have on the Final Resubdivision Plat or Final Construction Plans so the Planning Board can determine their consistency with the approval granted herein.
 - b. A <u>Final Resubdivision Plat</u> shall be submitted revised as set forth below, certified by a New York State Licensed Land Surveyor and Professional Engineer, endorsed by the Westchester County Department of Health, and in final form suitable for filing in the Office of the Westchester County Clerk, Division of Land Records. The Final Resubdivision Plat shall be revised as follows and submitted for final review by the Planning Board and its consultants:
 - (1) An original signature of the applicant shall be provided thereon.
- (2) A revision date post the date of this Resolution and preceding the date of endorsement by the Westchester County Health Department shall be provided thereon.
- (3) Replace Note #4 with the following note instead: Reference is made to the Town of Lewisboro Planning Board Resolutions pertaining to Amended Approvals for Oakridge Gardens dated July 11, 2011, Amended #2 Approvals for Laurel Ridge (aka Oakridge Gardens) dated June 12, 2012, and Final Subdivision Plat Approval for Laurel Ridge (aka Oakridge Gardens) dated June 12, 2012; Cal. No. 6-02 P.B.
- (4) Revise Note #5 with the correct title name of the Site Plans retaining "Oakridge Gardens" as previously agreed; and to also include a single common final revision date reference.
- (5) Complete the blanks in the note located immediately above the title block.
- c. <u>Final Construction Plans</u> shall be submitted in final form as set forth according to the coordinated Wetland Activity Permit, Stormwater Permit and Site Development Plan Approvals for the unified site development of Parcels 1-A-8, 1-A-9a and 1-A-9b, dated July 12, 2011 and as amended on June 12, 2012, bearing an original signature of the applicant, and an original signature and certification seal of all professionals responsible for their preparation.
- d. <u>Final Legal Instruments</u> shall be submitted in final form as set forth according to the coordinated Wetland Activity Permit, Stormwater Permit and Site Development Plan Approvals for the unified site development of Parcels 1-A-8, 1-A-9a and 1-A-9b, dated July 12, 2011 and as amended on June 12, 2012, and suitable for filing in the Office of the Westchester County Clerk, Division of Land Records.
- 4. The applicant shall pay to the Town of Lewisboro, by certified check, all outstanding professional review fees in accordance with §220-77 of the Zoning Ordinance.
- 5. The Planning Board Chair and Secretary, as officers of the Planning Board, are authorized to endorse the Final Resubdivision Plat upon the applicant's satisfactory completion of Conditions 1 through 4 above; the applicant shall furnish the Planning Board with two (2) mylar originals of all plans for endorsement by the Planning Board Chair and Secretary.
- 6. Upon payment of all required fees and subsequent endorsement of the Final Resubdivision Plat by the Planning Board Chair and Secretary, one (1) mylar copy will be returned to the applicant for filing the *signed* Final Resubdivision Plat in the Office of the Westchester County Clerk, Division of Land Records; the second mylar set will be retained by the Planning Board as a record copy.
- 7. Within ten (10) days after endorsement of the Final Resubdivision Plat by the Planning Board Chair and Secretary, the applicant shall deliver to the Planning Board Secretary nine (9) printed and folded copies of the filed Final Resubdivion Plat, and three (3) reduced copies as filed, showing all signatures and acknowledgments of filing. The applicant shall also deliver to the Planning Board Secretary nine (9) printed and folded copies of the signed Final Construction Plans, as well as nine (9) printed copies of the filed Legal Instruments, showing all signatures and acknowledgments of filing.

PRIOR TO COMMENCEMENT OF SITE DEVELOPMENT

The following conditions shall be completed by the applicant prior to the commencement of any site development or the authorized issuance by the Building Inspector of any Building Permit:

- 8. The Building Inspector shall not issue any Building Permit until the required copies of the *signed* and *filed* Final Resubdivision Plat, Final Construction Plans and *filed* Legal Instruments as stipulated herein have been provided to the Planning Board.
- 9. No site work, tree or land clearing, or construction activity shall be authorized to commence, without prior compliance with the conditions as set forth herein, the conditions set forth in the coordinated unified Wetland Activity Permit, Stormwater Permit and Site Development Plan Approvals dated July 12, 2011 and as amended on June 12, 2012, and without the prior issuance of all required Federal, State, Regional, County and/or local permits.
- 10. All site development shall conform to the intent, statements, findings, requirements and mitigation measures set forth in the project Environmental Assessment Form, SEQR Negative Declaration, *filed* Final Resubdivision Plat, *signed* Final Construction Plans and related documents, *filed* associated Legal Instruments, the unified Wetland Activity Permit, Stormwater Permit and Site Development Plan Approvals Resolution dated July 12, 2011 and as amended on June 12, 2012, all other related Federal, State, Regional, County and local permit approvals, and this Resolution.

SITE DEVELOPMENT CONSTRUCTION

- 11. The issuance of Town of Lewisboro administrative permits (including but not limited to Wetland Implementation Permit, Stormwater Permit, Building Permit) related to the approved construction of Parcels 1-A-8, 1-A-9a and 1-A-9b, as well as construction operations, sequencing, inspections thereof, and issuance of certificates of occupancy shall be governed as set forth in the unified Wetland Activity Permit, Stormwater Permit and Site Development Plan Approvals Resolution dated July 12, 2011 and as amended on June 12, 2012, along with all applicable requirements, standards and permit conditions of related Federal, State, Regional, County and local permit approvals.
- 12. The applicant shall be responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with the terms, conditions and modifications set forth in this Resolution and all documents and plans related thereto.
- 13. A clean and legible copy of this Resolution (as *signed* by the Planning Board Chair and Secretary) and a copy of the Final Construction Plans and related documents (as *signed* by the Planning Board Chair and Secretary) shall be maintained at the site at all times and made available upon request by an authorized Town official or inspector, or other permit approval agency representative.

APPROVAL EXPIRATION

- 14. This Final Subdivision Plat Approval shall expire and be revoked, without further notice, unless Conditions 1 through 4 above are satisfactorily completed by the applicant within one hundred eighty (180) days of the date of this Resolution, unless such time has been extended by the Planning Board, and only the Planning Board, upon request of the applicant in writing, stating the reason or justification for such extension, prior to said expiration.
- 15. Nothing herein shall extend, change or otherwise modify the conditions or time periods set forth in the unified Wetland Activity Permit, Stormwater Permit and Site Development Plan Approvals Resolution dated July 12, 2011 and as amended on June 12, 2012.
- 16. This Final Subdivision Plat Approval shall expire without further notice if the *signed* Final Resubdivision Plat is not filed in the office of the Westchester County Clerk, Division of Land Records within sixty (60) days of the date of endorsement thereof.
- 17. Failure to comply with any of the conditions set forth herein shall be deemed a violation of this Approval, which may lead to the revocation of said approval, or the revocation by the Building Inspector of any issued Building Permit or Certificate of Occupancy pertaining thereto.

ADOPTION OF RESOLUTION

WHEREUPON, the Resolution herein was declared adopted by the Planning Board of the Town of Lewisboro as follows:

The motion was moved by	for ald Tetilman		
The motion was seconded by _	kichan Ellodt		

The vote was as follows:

JEROME KERNER	Arc	
JOHN GUSMANO	Are	
RICHARD ELLRODT	Aje	
JOHN O'DONNELL	NO	Journe flore
RONALD TETELMAN	Aye	Jefome Kerner, Chair July 12, 2012

STATE OF NEW YORK COUNTY OF WESTCHESTER TOWN OF LEWISBORO

I, Constance Rendich, Assistant Secretary of the Planning Board of the Town of Lewisboro, County of Westchester, State of New York, do hereby certify that I have compared the preceding copy of a resolution adopted by the Planning Board of the Town Lewisboro, County Westchester at a meeting held on the 12th day of June, 2012 and that the same is a true and correct copy of said original and of the whole thereof.

ou V

Constance Rendich Assistant Planning Board Secretary

Dated at South Salem, New York This 13th day of June, 2012



August 5, 2021

Mr. Jan Johannessen Kellard Sessions Consulting, P.C. 500 Main Street Armonk, NY 10504

Via Electronic Transmission

RE: NY American Water Wild Oaks Water System Wetland Ordinance 217-5.B(4)

Dear Mr. Johannessen:

Per Wetland Ordinance 217-5.(B), WSP USA Inc., and related company Hydrogeologic, Architecture, Land Surveying, Landscape Architecture Services, P.C. (WSP), on behalf of New York American Water (NY American), is requesting an emergency authorization allowing access through a Town of Lewisboro controlled wetland and wetland adjacent area to drilling a replacement well on Pump House Station No. 2 parcel (31.1/1/37) at the Wild Oaks Water System in the Town of Lewisboro, New York (Figure 1).

NY American is pursuing the drilling of the replacement well (aka Well 7) to address the Westchester County Department of Health's (WCDH) requirement to develop supplemental source capacity for the Wild Oaks water system. Attached in Appendix I is the October 2020 email from WCDH containing the directive to pursue additional well source development.

The Wild Oaks existing supply Wells 4 and 6, located on a separate well field parcel east of Pump House Station No. 2 (Figure 1), have experienced a reduction in capacity in 2020 and 2021. There is a third well, Well 2, located at the same well field parcel with Wells 4 and 6. However, Well 2 has elevated manganese that will require treatment. Treatment design alternatives are being prepared. However, the existing infrastructure is not adequately sized to house the treatment equipment, and the use of Well 2 is not a near term solution to address the current deficiency. At this time, to meet system needs NY American has implemented the trucking in of water to keep an adequate level in the water storage tank. In 2021, trucked water deliveries have been received on June 26 (10 loads), July 2 (5 loads), July 28 (8 loads), and August 5 (10 loads are scheduled for delivery). Trucking water is a very temporary solution to maintain an adequate storage tank level because low water level within the atmospheric storage tank reduces the available water for fire flow/fire protection, posing a threat to real property and the health and safety of the residents.

Various options have been considered by WSP and NY American for sites to drill a redundant water source for the system that meet the requirements of WCDH laid out in the October 2020 email. The limitation on the favorable drilling sites is the availability of suitable land. The New York State Department of Health (NYSDOH) requires that a public water-supply well maintain a 100-foot radius of

WSP USA 4 Research Drive, Suite 204 Shelton, CT 06484

Phone: +1 (203) 929-8555 Fax: +1 (203) 926-9140 wsp.com

property ownership and a 200-foot radius of sanitary control around the well head. At the present time, NY American only has ownership rights for the small well field parcel containing Wells 2, 4, and 6 and the parcel containing Well 3 (Figure 1). NY American is also pursuing the purchase of additional lands in and around the water district. However, this will take time and is also not a near term solution to address the current system deficiency. Therefore, drilling on the Pump House Station No. 2 parcel has been identified as the most feasible and suitable option at the present time.

A stipulation of the WCDH directive to develop an additional water source was that it be located far enough from the current wells (Wells 4 and 6) minimize aquifer interface between the new and existing wells. The Pump House Station No. 2 parcel affords the necessary distance to achieve this directive and prior pumping test data from Wells 4 and 6 testing showed no drawdown interface with the existing Well 3 on the Pump House Station No. 2 parcel.

Well 3 is not currently in service due to low yield and is in need of redevelopment and deepening work to address the yield reduction. However, the well is enclosed in a concrete pump house which has rendered the well inaccessible to conduct the needed rehabilitation work without significant disturbance to the area. To avoid excessive disturbance, the applicant is proposing to drill a replacement well (Well 7) just outside of the existing pump house. Because of the small parcel size (Plate 1), Well 7 has been sited near the center of the property to maximize the available property ownership radius and easements that are in place.

A Well Site Permit application has been submitted to the WCDH. A copy of that submission is included in Appendix II. Comments from WCDH related to that submission have been received and are in the process of being addressed. A copy of the comments received from WCDH are included in Appendix III.

Proposed Well Location

The wetland and watercourse delineations completed for the Pump House Sta. No. 2 parcel are provided on Plate 1. Existing Well 3 and the proposed replacement Well 7 are located within the delineated wetland area and access to the well location from Nash Road will pass through the wetland and wetland/watercourse 150-foot adjacent area. The well field parcel is not large enough to move the proposed replacement well location outside of the wetland because of the NYSDOH property ownership and sanitary easement requirements for public water-supply wells.

The proposed access route to the well location is shown on Plates 1 and 2 and photographs of the site are provided in Appendix IV. A track-mounted drill rig will be utilized to drill the proposed replacement well to limit the disturbance. The track-mounted rig can pass over a variety of terrains that the standard truck-mounted rig cannot reach without road construction. This results in less clearing and typically causes less ground disturbance than the standard truck-mounted rig.

The well field will be accessed using the existing gravel access road which connects to Nash Road. From the existing access road, the track-mounted rig will cross through the wetland adjacent area up to the stream crossing. No brush or tree clearing is needed for the track-mounted drill rig access through this stretch of the access route and the ground in this area was stable and dry.

A temporary wooden bridge constructed of crane mats will be placed over the drainage channel to allow the track-mounted drill rig to cross. A photograph showing crane mats is provided in Appendix IV. Crane mats are pre-bolted wooden plank approximately 12 feet long by 3 feet wide. Four planks will be laid across the drainage ditch to allow crossing and will be removed upon completion of work.

From the bridge crossing, the access route turns north toward the pump house. The trackmounted rig can reach the proposed Well 7 location with no clearing along this remaining route. There is a second small ditch mapped on the survey. This ditch is approximately 6 inches in depth and does not require any modifications to cross.

At the proposed well site, there is a thorn bush just north of the well site that will be removed. A settling collection pit will also be dug to the north of the well location to collect drill cuttings and allow sediment to settle from the discharge water generated during the drilling process. The settling pit will be backfilled with native material once the drilling operations are completed.

Erosion controls will be placed around the drilling area and on the western side (downgradient side) of the access route from the stream crossing to the proposed well location. Details for the erosion controls are shown on Plate 2 and they will consist of strawbales and silt fencing.

Well Construction and Yield Testing

The proposed bedrock test well (Well 7) will be drilled in accordance the NYSDOH and WCDH regulations for public water-supply wells. The well will be constructed using 6-inch diameter casing and a 6-inch borehole will be drilled into the underlying bedrock. A minimum of 50 feet of 6-inch casing will be installed through the overburden soil into bedrock. The total depth of the well will be determined based on the geologic conditions encountered during drilling, particularly the depth and yield of the water-bearing fractures encountered in the bedrock, but the estimated depth is a minimum of 500 feet. A water-tight cap will be placed on the well following the completion of drilling.

If sufficient yield is obtained from the well for potential use as a public water-supply source, a 72-hour pumping test will be conducted. The well will be tested to demonstrate a minimum of six hours of stabilized yield and water-level drawdown and water samples will be collected for analysis for all parameters listed in the NYSDOH Sanitary Code Part 5, Subpart 5-1 for community public water-supply wells and for microscopic particulate analysis (MPA). Discharge water from the well during the test will be directed away from the well to prevent recharge of the aquifer during the test period. The water will be released in a controlled manner using tarps and strawbales to prevent erosion at the end of the discharge hose.

At the conclusion of the 72-hour pumping test and water-quality sampling event, if the well is determine to be suitable for use to supply the existing water system, a follow-up wetland activities permit application will be submitted to the Town of Lewisboro detailing the design of the connection of the well to the existing water system and requesting approval to complete any activities within the wetland and wetland/water course adjacent areas.

If the test well is drilled and determined to have insufficient yield, the well will either be maintained as a water-level monitor well equipped with a water-tight cap or be abandoned in accordance with NYSDOH and WCDH protocols.

Thank you for your time and consideration. Should you have any questions, please contact Stacy directly at (475) 882-1723.

Kind regards,

WSP/USA Klacy Stut

Stacy Stieber, CPG, PG (NY) Lead Hydrogeologist

Reviewed by:

Thomas P. Cusack, CPG, PG (NY) Senior Supervising Hydrogeologist

SS:cmm Enclosures cc: Ciorsdan Conran - Town of Lewisboro, ACARC/Comprehensive Plan Steering Committee/Planning Board Administrator Rosa Fernandez – NY American Water H:\American Water Co\Wild Oaks\2021\Replacement Well by Well 3\Emergency Application.docx

APPENDIX I

Subject:

FW: Wild Oaks

From: Schneider, Wayne <<u>wts1@westchestergov.com</u>> Sent: Thursday, October 29, 2020 7:59 AM To: Natasha V Cambria <<u>Natasha.Cambria@amwater.com</u>> Cc: Steve B Wondrack <<u>Steve.Wondrack@amwater.com</u>>; John T Kilpatrick <<u>John.Kilpatrick@amwater.com</u>>; Thein, Zaw <<u>ztt1@westchestergov.com</u>> Subject: RE: Wild Oaks

EXTERNAL EMAIL: The Actual Sender of this email is <u>wts1@westchestergov.com</u> "Think before you click!".

Natasha, Steve, John,

The Project Status Summary provided, dated October 8, 2020, from H2M references a minimum separation distance for new well locations of 800 feet from the current wells. A minimum distance between wells is not required. Rather it must be shown, through yield testing, that pumping of any new (test) well does not impact the water level in any existing onsite well. If the test well does influence one of the existing wells, simultaneous yield testing must be conducted to determine the stabile pumping rate of both wells. In all cases of yield testing, offsite wells must also be monitored for impact.

On 11/5/19 a Short-Term and Long-Term Water Supply Plan for Wild Oaks was provided by WSP indicating "one year needed to acquire land, obtain any easements, locate, drill, test and incorporate an new source of supply. In light of the numerous Water truck deliveries over the last few months, used to supplement demand, it is imperative that the water supply provides a plan for additional source capacity as soon as possible. This plan must include new test well locations/application and/or system design for any treatment required to bring water from Well 2 into compliance with Part 5, subpart 5-1 of NYSSC. Please provide such plan no later than December 31, 2020. Contact me with any questions or concerns in the interim. Best regards,

Wayne Schneider Assistant Engineer Westchester County Department of Health Bureau of Environmental Quality 25 Moore Ave, Mt Kisco, NY 10549 Ph: 914-864-7358, Fax: 914-864-7341 wts1@westchestergov.com

From: Natasha V Cambria <<u>Natasha.Cambria@amwater.com</u>> Sent: Friday, October 9, 2020 8:55 AM To: Schneider, Wayne <<u>wts1@westchestergov.com</u>> Cc: Steve B Wondrack <<u>Steve.Wondrack@amwater.com</u>>; John T Kilpatrick <<u>John.Kilpatrick@amwater.com</u>> Subject: FW: Wild Oaks

Good morning Wayne,

As discussed on our call yesterday, there has been progress at Wild Oaks in evaluating a location for a redundant source of supply. Attached is the summary of the site investigation. Please review and provide comments if necessary. Best regards, Natasha

APPENDIX II



April 28, 2021

Mr. Wayne Schneider Westchester County Department of Health Mount Kisco District Office 25 Moore Avenue Mount Kisco, NY 10549

> RE: Well Site Application – Replacement Well Wild Oaks Water System Lewisboro, New York PWS ID: NY 5903479

Dear Mr. Schneider:

WSP USA, Inc., and related company Hydrogeologic, Architecture, Land Surveying, Landscape Architecture Services, P.C. (WSP), on behalf of the New York American Water Company (NY American) is proposing to drill a replacement well near the former production Well 3 at the Wild Oaks Water System on Nash Road in Lewisboro, New York (Figures 1 and 2). The replacement well is proposed to be used to supplement the existing supply wells at the Wild Oaks system.

Well 3 was previously used a community, public water-supply well for the Wild Oaks water system. The well is reported to be 180 feet in depth and had an original yield of 14 gpm (gallons per minute); however, no well completion report is available for the well. Under the prior system ownership, Well 3 experienced a significant loss in capacity and was taken out of service. Completion of well redevelopment work on Well 3 is not feasible because the well head is inaccessible for drilling equipment as a result of the concrete bunker style well house that was constructed around the well.

NY American is requesting authorization to drill a replacement well adjacent to the existing Well 3 (Figure 2) just outside of the pumphouse building. The original Well 3 was drilled to a relatively shallow completion depth (180 feet) which potentially affected the long-term viability of the well. The replacement well will be drilled deeper, to approximately 700 feet with the intention of encountering deeper water-bearing zones in the bedrock. The final depth of the well will be determined based on the conditions encountered during drilling, i.e. the location and yield of water-bearing fractures and the hardness and type of bedrock encountered.

At the present time the Wild Oaks Water System is supplied by bedrock Wells 4 and 6 on a well field parcel to the east of the Well 3. The yields of Wells 4 and 6 are 80 gpm each, but the wells cannot be pumped concurrently. A third well, Well 2, is located at the same well field as Wells 4 and 6. Well 2 is completed in the sand and gravel aquifer at the well field and has a tested capacity of 80 gpm. However, Well 2 is currently out of service while treatment options for elevated manganese in the well are evaluated. The goal of drilling this replacement well near the location of Well 3 is to supplement the water system and to provide an additional source that is not hydraulically connected with the current bedrock supply Wells 4 and 6.

WSP USA, Inc. 4 Research Drive, Suite 204 Shelton, CT 06484

Tel.: +1 (203) 929-8555 wsp.com



As shown on Figure 2, the replacement well will be drilled near the existing Well 3 on land owned by NY American. However, the required 100-foot ownership radius and 200-foot sanitary control radius for the replacement well do fall slightly outside of the existing land ownership and protective easement boundaries that were previously established for Well 3 onto the adjacent Wild Oaks open space parcel. There are no known potential sources of pollution listed in the New York State Department of Health (NYSDOH) Sanitary Code Part 5 Appendix 5-D within 200 feet of the proposed replacement well location with the exception of the existing sanitary sewer line which is located greater than 50 feet from the well.

There are wetlands and watercourses located near the site of the proposed replacement well location, and it is likely that the replacement well is located in a Town of Lewisboro regulated wetland buffer zone. Delineation and of the wetland and watercourse boundaries is underway and a permit application will be submitted to the Town to obtain a wetland disturbance permit prior to initiating work on the replacement well if warranted.

Well Drilling

The replacement well will be drilled near the existing Well 3 at the location shown on Figure 2 on property owned by NY American. The test well would be drilled in accordance with the New York State Department of Health (NYSDOH) and Westchester County Health Department (WCDH) regulations for public water-supply wells. The well will be constructed in accordance with Part 5, Subpart 5-1, Appendices 5-B and 5-D. The well would be constructed by installing and grouting in place 8-inch diameter casing a minimum of 50 ft bg (feet below grade) if bedrock is encountered within the first 40 feet of drilling or 10 feet into competent rock if bedrock is greater than 40 ft bg. The test well would be drilled to an approximate depth of 700 feet, if a suitable yield is not encountered at a shallower depth. A hydrogeologist would analyze the water-production data obtained as the borehole is drilled and decide when it is appropriate to terminate the well.

A profile view of the standard well design is shown on Figure 3. A vermin proof cap will be placed on the well after drilling is complete. If the test well is determined to be a viable potable supply based on future yield testing and water-quality analysis data, a pitless adaptor would be installed below the frostline following WCDH approval.

WSP estimates the test well would require three to four days to drill and construct, depending on the drilling conditions encountered. In addition to the WCDH well site application, the well driller will file the well logs after completion. A Dig Safely mark-out will be requested prior to the start of drilling.

If the test well drilled is determined to have insufficient yield it will either be maintained as a water-level monitor well equipped with water-tight caps or be abandoned in accordance with NYSDOH and WCDH protocols.

A track-mounted drill rig will be used to access the well location. Only minor clearing will be needed to reach the well site. However, there are wetlands near the location that may be regulated by the Town of Lewisboro and a Wetland Disturbance permit will be sought, if warranted, prior to initiating drilling work.



Well Yield Testing

Following the completion of drilling, if sufficient yield is encountered in the new well, WSP will coordinate the completion of a 72-hour pumping test on the well that will be designed and implemented in accordance with Part 5, Subpart 5-1, Appendix 5-D and the New York State Department of Health (NYSDEC) December 2019 "Pumping Test Procedures for Water Withdrawal Applications". The pumping test would be run for a minimum of 72 hours until stabilized yield and water-level drawdown has been demonstrated. If stabilization has not occurred at the end of 72 hours of pumping, the test duration may be extended until stabilization has been achieved.

The 72-hour pumping test will include water-level monitoring in the existing Wild Oaks production wells and select offsite private potable supply wells to determine potential drawdown impacts if any wells are present within 2,000 feet of the new well. Surface-water monitoring of wetlands and streams located near the replacement well will also be conducted during the test.

Water samples would be collected near the end of the 72-hour test and submitted for analysis for parameters listed in the NYSDOH Sanitary Code Part 5, Subpart 5-1in Tables 8A, 8B, 8C, 8D, 9C, 9D, 12 and MTBE, turbidity, total coliform, radon, propylene glycol, 1,4-dioxane and perfluorinated compounds PFOS/PFOA. The extra analyses for dioxin, diquat, endothall, and glyphosate and disinfection byproducts in Table 9A (THM/HAA5) would not be included unless instructed to by WCDH.

A microscopic particulate analysis (MPA) sample would also be collected from the replacement well because it is located within 200 feet of a surface-water body. Physical parameter measurements of pH, temperature and conductivity would be collected during the test from the discharge water and similar physical parameter data would be collected from the nearby surface water for use in comparison and determination of potential Groundwater Under Direct Influence of Surface Water (GWUDI) risk. The preliminary GWUDI data (MPA and physical parameter monitoring) would be collected for reference only, and it is understood that the well would require treatment under the Surface Water Treatment Rule while an appropriate GWUDI assessment was conducted should the well be placed into service in the future.

Should the results of the 72-hour yield test and the water-quality analysis indicate that the well is a viable source for the Wild Oaks Water System, engineering plans would be prepared detailing the connection of the well and any treatment that is warranted. These plans would be submitted to WCDH for review and approval before connection and use of the well would occur. In addition, a modification to the NYSDEC Water Withdrawal permit for the Wild Oaks water system to include the new well would be requested.

Authorization

A Certificate of Resolution for Authorization is included in Appendix I. Authorization for WSP to submit these plans on behalf of NY American is provided in Appendix II. A signed form DOH-348 is included in Appendix III. A check for \$840 for the Well Site Application fee is also included with this submission.



If you have any questions, please feel free to contact Stacy directly at (475) 882-1706.

Kind regards,

WSP USA Inc.

Kracy Kru

Stacy Stieber, PG(NY) Lead Hydrogeologist

Dla

Thomas P. Cusack, PG(NY) Senior Supervising Hydrogeologist

Reviewed by:



Stephen K. Rupar, P.E. Water Practice Leader

SS:cmm Enclosures H:\American Water Co\Wild Oaks\2021\WCDH\Well Site Application Well 3 Replacement.doc



FIGURES





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5.	LEGEND
-	
	NYAW WELL FIELD PARCEL
	SS — EXISTING SANITARY SEWER
	BEDROCK PRODUCTION WELL, NO LONGER IN SERVICE
	PROPOSED REPLACEMENT WELL LOCATION
<u> </u>	100-FOOT RADIUS OF OWNERSHIP
<u> </u>	200-FOOT RADIUS OF SANITARY CONTROL
· · · · · · · · · · · · · · · · · · ·	SEAL
÷- ·	
n Water Company ater System	PROPOSED REPLACEMENT WELL LOCATION
New YOrk	FIGURE 2





(FT BG)

GRADE (FT)

AND MODEL

REDUCER

GROUT



APPENDIX I

CERTIFICATE OF RESOLUTION FOR AUTHORIZATION

The undersigned, James Runzer	of
Name of CorporationNew York American Water Company , a cor	poration
Duly organized and validly existing under the laws of (State)New York	
Hereby certifies that the following resolution was duly adopted by the Board of Corporation at a meeting duly called and held on the day of	of Directors, of said
Be it resolved that the Board of Directors, or President, if there is no Board of of CorporationNew York American Water Company	Directors, of (Name
With Offices at:60 Brooklyn Ave. Merrick, NY 11566	
Hereby authorized (Name if person authorized): James Runzer	
To execute and deliver to the Westchester County Department of Health, for a Corporation, and application for a permit to operate (type of operation) Construct	nd on behalf of said tion of a Potable Supply Well
To execute and deliver any and all additional documents which may be approproted approproted to the the term of term o	oriate or desirable in
The undersigned further certifies that said resolution has not been revoked, res and remains in full force and effect on the date hereof.	cinded or modified

In	WITNESS	WHEREOF,	, the undersigned	l has duly	executed this	certificate o	n this 2	day
of	KIDAI	, 20-)		-				

OFFICER'S SIGNATURE	Affix Corporate Seal
TITLE: Vice President of Operations	
ACKNOWLEDGEMENT	
STATE OF New York	
COUNTY OF Nassau): ss:	
One this $2(a \text{ day of } \Delta_1 \sim a)$, 2021 , before me personally came.	ames Runza
to me known, and known to me to be the VPDF DDerat	or of
New Var America Water Cuthe corporation refe	erred to in the within
Certificate of Resolution, who being by duly sworn did depose and say t	hat (s)he)is
of said corporation and that (s)he signed his/her name thereto.	Sem. Simpt
ROSE M SIMPSON	Notary Public

ROSE M. SIMPSON Notary Public, State of New York No. 01SI5031048 Qualified in Nassau County Commission Expires July 25, 2022

County

Saw Co

DIV



APPENDIX II

DATE: April 21, 2021

 TO: Westchester County Department of Health Bureau of Environmental Quality Mount Kisco District Office
25 Moore Avenue Mount Kisco, NY 10549

> Re: Construction of Bedrock Replacement Well NY American Water Company Wild Oaks Water System Nash Road, Lewisboro, NY

> > Section 31.1 Block 1 Lot 37

Gentlemen:

This letter is to authorize <u>Stephen Rupar</u> a duly licensed professional engineer/registered architect to apply for a Construction Permit/Construction Compliance for a separate sewage treatment system; private water supply; to serve the above-noted property in accordance with the standards, rules or regulations as promulgated by the Commissioner of the Westchester County Department of Health, and to prepare application and plans on my behalf in connection with the matter and to supervise the construction of said system or systems in conformity with the provisions of Article 145 or 147 of the State Education Law, the Public Health Law, and the Westchester County Sanitary Code.

Very truly yours,

Signed

(TOwner of Property) James M. Runzer

(Print Name)

Countersigned:		
STATE OF NEW YOR	, P.E., R.A.#	
* Contraction of the second		
Profession 102000	(Seal)	
ADDESS		

4 Research Drive, Suite 204

60 Brooklyn Ave. Merrick, NY 11566

(Address)

516-632-2240

(Telephone)

Shelton, CT 06484

203-929-8555

Revised 2/20/08



APPENDIX III

NEW YORK STATE DEPARTMENT OF HEALTH

Bureau of Water Supply Protection

Application for Approval of Plans for Public Water Supply Improvement

Applicant NY American Water Co.	Location of works (Town of Lewisbord	(C,V,T)	County Westchester		Water District (area served) Wild Oaks Water System
Type of Ownership					
Municipal	Commercial	Private -	• Other	Authority	☐ Interstate
Industrial	🛛 Water Works Corp.	Board o	f Education	State	Native American Reservation
Modifications to existing s	system. If checked, provid	le PWS ID#	NY59034	79	
New System? If checked,	provide capacity develops	nent (viability) analysis*		
If this project involves a ne	ew system, new water dist	rict, or a distri	ct extension pr	ovide boundary o	description location details in
digital format. If digital bound	lary location details are no	ot available pro	vide a text des	cription. NA	
Digital GIS Data Provided Provided	Digital CAD Data I	Provided	Other Dig	gital Data provid	ed Text Description
Funding Source Priva	ate DWSRF**	Federal	Othe	r	
If DWSRF is checked, provid	e DWSRF #				
Estimated Project Cost					
Source \$20,000	Treatment \$_TBD		Storage	e \$Existing	Distribution \$Existing
Pumping \$25,000	Engineering \$_TBI)	Legal/Per	mitting \$_TBD_	Total
Type of Project	Corrosion Con	trol	U.V. Di	sinfection	Distribution
Transmission	Chlorination		Other T	reatment	Other
Project DescriptionApplica serviceable at the Wild Oaks	ant is seeking approval to o Water System	drill one bedro	ck replacemen	t well near the e	cisting Well 3 which is no longer
Population				0.4	
of Service area 1.100	% population actually serve	ed 100%		% po af	fected by project 100%
Latest total consumption data	(in MGD)		NYS Profes	sional	
Avg. day 0.0495 MGD Max. day 0.136 MGD Peak hr. <u>NA</u>	Year 2020 Year 2020 Year 2020		Licensed En Stamp & Sig	gineer gnature***	SINE OF NEW YOOPT
Name of design engineer		i in			
Address 4 Research Drive,	suite 204, Shelton, CT 064	<u>A Inc.</u> 484 7	elephone No.	(203) 929-85	55
E-Mail Stephen.rupar@wsp.o	com	F	ax No. <u>(203)</u>	926-9140	
Name and title of applicant or designated representative James Runzer, Vice President of Operations					ons
Address 60 Brooklyn Ave.	Merrick, NY 11566				
3-					ulza ha
Sig	gnature of Applicant		<u> </u>		Date
NOTE: All applications must be accordiscussed with the appropriate city, c authorization *Additional information regarding ca	ompanied by 3 sets of plans, 3 se ounty, district or regional public	ets of specification health engineer. S and at: <u>https://www</u>	s and an engineer Signature by a desi .health.ny.gov/env	's report describing d gnated representative (ironmental/water/dr	ne project in detail The project must first be e must be accompanied by a letter of inking/index.htm

Current DWSRF project listings may be found at: https://www.health.ny.gov/environmental/water/drinking/index.htm *By affixing the stamp and signature the Design Engineer agrees that the plans and specifications have been prepared in accordance with the most recent version of the recommended standards for water works and in accordance with the NYS Sanitary Code.

DOH - 348 (10/2018)

APPENDIX III

Stieber, Stacy

From:	Schneider, Wayne <wts1@westchestergov.com></wts1@westchestergov.com>
Sent:	Tuesday, June 1, 2021 10:01 AM
To:	Stieber, Stacy
Subject:	Wild Oaks TEst well, C21-024
Attachments:	Scanned from Network Copier.pdf

Ms. Stieber,

The application for the test well to replace well #3 has been received and reviewed. The following are my comments:

- 1. Provide notes on Figure 3 akin to the attached- a previous example provided by WSP for another water system)
- 2. Provide designation for proposed well that is unique to the system (ie test well 7)
- 3. Modify Figure 2 or provide additional sheets to show the following:
 - a. Delineation of watercourses and NYSDEC and local wetlands.
 - b. 100 year flood elevation.
 - c. Location of all existing wells. Label Well 3 as to be decommissioned.
 - d. Location of all wells on neighboring parcels within 1000 ft of the proposed well.
 - e. Designation of wells to be tested (PWS and offsite) during yield testing
- 4. Provide wetland disturbance permit from Town of Lewisboro for proposed well.

Please contact me with any questions and provide an estimated time frame for completion of the above. Best Regards,

Wayne

Wayne Schneider Assistant Engineer Westchester County Department of Health Bureau of Environmental Quality 25 Moore Ave, Mt Kisco, NY 10549 Ph: 914-864-7358, Fax: 914-864-7341 wts1@westchestergov.com

-----Original Message-----From: Schneider, Wayne <wts1@westchestergov.com> Sent: Tuesday, June 1, 2021 9:01 AM To: Schneider, Wayne <wts1@westchestergov.com> Subject: Scanned from Network Copier

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1. WELLS WILL BE CONSTRUCTED IN ACCORDANCE WITH PART 5, SUBPART 5-1, APPENDIX 5-A (RECOMMENDED STANDARDS FOR WATER WORKS), APPENDIX 5-D.

- 2. WELLS WILL BE SUBJECT TO A MINIMUM 72-HOUR YIELD TEST CONDUCTED IN ACCORDANCE WITH PART 5, SUBPART 5-1, APPENDIX 5-D AND NYSDEC PUMPING TEST PROCEDURES FOR WATER WITHDRAWAL. PRIOR TO THE TEST, A PUMPING TEST PLAN WILL BE SUBMITTED TO WCDH FOR REVIEW AND COMMENT.
- 3. DURING THE 72-HOUR PUMPING TEST WATER SAMPLES WILL BE COLLECTED AT THE CONCLUSION OF THE YIELD TEST. WATER SAMPLES WILL BE COLLECTED AND ANALYZED FOR THE PARAMETERS LISTED IN PART 5, SECTION 5-1 TABLES 8A, 8B, 8C, 8D, 9B, 9C, 9D, 10A, 11A, 12 AND LEAD AND COPPER FOR DRINKING WATER COMPLIANCE OF PART 5, SECTION 5-1. SAMPLES WILL ALSO BE ANALYZED FOR PERFLUOROOCTANE SULFONATES AND PERFLUOROOCTANIC ACID (PFOS/PFOA). IN ADDITION, A MICROSCOPIC PARTICULATE ANALYSIS (MPA) SAMPLE WILL BE COLLECTED FROM TEST WELLS 1A, 2A AND 2A ALTERNATE IF SUBJECT TO A YIELD TEST.
- 4. THE WELLS WILL BE SEALED AGAINST WATER AND CONTAMINANTS. THE WELLS WILL BE CAPPED WITH A WELDED METAL PLATE IN ACCORDANCE WITH PART 5, SUBPART 5-1, APPENDIX 5-A AFTER ALL OF THE TESTING IS COMPLETED.
- 5. IF REQUIRED, WETLAND DISTURBANCE PERMITS WILL BE OBTAINED FROM TOWN OF SOMERS AND/OR NYSDEC FOR WELL LOCATIONS 1A, 2A AND 2A ALTERNATE PRIOR TO DRILLING AT THESE LOCATIONS.
- 6. THE PROPOSED TEST WELLS ARE INTENDED TO DETERMINE FEASIBILITY FOR SOURCE QUALITY AND CAPACITY. AN ADDITIONAL APPLICATION AND WCDH APPROVAL WILL BE REQUIRED PRIOR TO CONNECTION OF ALL APPURTENANCES AND CONNECTION TO THE WATER SUPPLY.
- 7. EASEMENTS GRANTED TO NEW YORK AMERICAN WATER FROM THE PROPERTY OWNER WILL BE FILED WITH THE WESTCHESTER COUNTY CLERK ONCE TESTING CONFIRMS WELL(S) ARE A VIABLE POTABLE SUPPLY SOURCE. THE EASEMENT METES AND BOUNDS AROUND THE WELL(S) AND TRANSMISSION PIPING EXTENDING FROM THE WELL TO THE TREATMENT BUILDING WILL BE INCLUDED IN THE FILING. THE EASEMENT WILL ADDRESS OWNERSHIP, ACCESS AND CONTROL OF LAND SURROUNDING THE PROPOSED WELLS AND ASSOCIATED TRANSMISSION PIPING. PROPOSED EASEMENT WILL STATE "NOW, THEREFORE, THE GRANTOR AGREES AND COVENANTS THAT SAID GRANTEE, ITS SUCCESSORS AND ASSIGNS, SAID COVENANTS TO RUN WITH THE LAND FOR THE BENEFIT OF THE LAND OF THE GRANTEE, THAT SAID GRANTOR, ITS SUCCESSORS AND ASSIGNS WILL NOT CONSTRUCT, MAINTAIN, OR SUFFER TO BE CONSTRUCTED OR MAINTAINED UPON THE SAID LAND OF THE GRANTORS AND WITHIN 200 (TWO HUNDRED) FEET OF THE WELL HEREIN DESCRIBED, SO LONG AS THE SAME IS OPERATED TO FURNISH WATER FOR PUBLIC CONSUMPTION, ANY POTENTIAL SOURCE OF CONTAMINATION, SUCH AS SEPTIC TANKS AND DRAINFIELDS, UNDERGROUND STORAGE TANKS, ROADS, STRUCTURES, BARNS, FEED STATIONS, GRAZING ANIMALS, ENCLOSURES FOR MAINTAINING FOWL OR ANIMAL MANURE, LIQUID OR DRY CHEMICAL STORAGE, HERBICIDES, INSECTICIDES, HAZARDOUS WASTE, OR DISPOSAL OF GARBAGE OF ANY KIND OR DESCRIPTION."
- 8. NO SOURCES OF CONTAMINATION CAN BE CONSTRUCTED/PRESENT WITHIN THE NYSDEC-REGULATED WETLAND THAT IS WITHIN 200 FEET OF PROPOSED LOCATION 2A.
- 9. IF PROPOSED TEST WELLS 1A OR 2A ALTERNATE ARE DETERMINED FEASIBLE FOR SOURCE QUALITY AND CAPACITY THEN THE STORMWATER DRAINAGE SERVING THE LIMITED DRIVEWAY WITHIN 200 FEET OF THE TEST WELLS WILL BE RELOCATED.

10. THE POND HIGH WATER LEVEL IS AT AN APPROXIMATE ELEVATION OF 274 FEET.



ITEM	WELL	COMMENTS
A	TBD (TO BE DETERMINED)	TOTAL DEPTH OF WELL FT BG (FEET BELOW GRADE)
В	TBD	DEPTH TO BEDROCK (FT BG)
С	TBD	PUMP PLACEMENT DEPTH (FT BG)
D	MINIMUM 100 FT BG IF BEDROCK IS ENCOUNTERED WITHIN THE FIRST 90 FT OF DRILLING OR 10 FT INTO BEDROCK IF DEPTH TO BEDROCK IS GREATER THAN 90 FT BG	DEPTH OF 6-INCH CASING
E	TBD	DEPTH OF PITLESS CONNECTION (FT BG)
F	MINIMUM 1.5 OR ABOVE THE 100-YEAR FLOOD PLAIN, WHICHEVER IS HIGHER	HEIGHT OF WELL CAP ABOVE GRADE (FT)
G	TBD	STATIC WATER LEVEL (FT BG)
н	TBD	PUMPING WATER LEVEL (FT BG)
L	TBD	SUBMERSIBLE PUMP, MANUFACTURER AND MODEL
J	TBD	PUMP DESIGN FLOW AND TOTAL DYNAMIC HEAD
к	TBD	CENTRALIZER, MANUFACTURER AND MODEL
L	TBD	PITLESS CONNECTION, MANUFACTURER AND MODEL
М	TBD	RISER PIPE DIAMETER
N	TBD	DISCHARGE PIPE DIAMETER
0	TBD	CHECK VALVE
Р	TBD	REDUCER
Q	6-INCH DIMETER	NEW SINGLE STEEL CASING PIPE MEETING AWWA STANDARD A-100, ASTM OR ^T API'SPECIFICATIONS FOR WATER WELL CONSTRUCTION - MINIMUM OF 0.280 INCHES THICKNESS
R	BOTTOM OF WELL CASING TO GRADE	NEAT CEMENT GROUT WITH CEMENT CONFORMING TO AWWA A100, AND WATER WILL BE USED. GROUT WILL MEET A MINIMUM OF 1.5 INCHES THICK AND WILL MEET PART 5, SUBPART 5-1 APPENDIX 5-A STANDARDS

APPENDIX IV

Photograph 1: Looking in northerly direction toward the existing pumping house and proposed Well 7 location. Standing near at stream crossing.



Photograph 2: Looking in a southerly direction, looking at stream crossing crossing and route out to existing access road.



The ditch here is approximately 6 inches deep, trackmounted drill rig can cross without assistance.



Photograph 3: Example of crane mats. Consist of pre-bolted wooden planks that will be laid across watercourse to allow crossing.

PLATES






LOCAL LAW #12 OF THE YEAR 2021

BE IT ENACTED by the Town Board of the Town of Lewisboro , County of Westchester, State of New York as follows:

SECTION 1 : AUTHORITY

This chapter is adopted pursuant to the authority, of Article 2, §10 of the New York State Municipal Home Rule Law.

SECTION 2 : AMENDMENT OF CHAPTER 220

Chapter 220 of the current Code of the Town of Lewisboro entitled "Zoning" is hereby amended by the addition of subsection "L" to Section 220-16

220-16. Seasonal Outdoor Restaurant Seating.

- L. Notwithstanding the above, outdoor restaurant seating shall be permitted through to December 31, 2022 in accordance with the following:
 - (1) The provisions of Section 220-16(B) are suspended in that a full site plan shall not be required for outdoor restaurant seating. The Planning Board shall provide for an expedited review of outdoor dining applications without a public hearing and shall accept a sketch plan or other design drawing deemed acceptable by the Planning Board to sufficiently describe the area to be used for outdoor dining.
 - (2) The provisions of Section 220-16(E)(1), (3) and (4) are suspended in order to allow parking areas to be used for outdoor restaurant seating to the extent same may be set up in a safe area away from the flow of traffic, and to suspend the landscape buffer and minimum yard area requirements set forth therein.
 - (3) The provisions of Section 220-16(G) are suspended to allow outdoor restaurant seating without required screening and buffering. However, the Planning Board may require sufficient screening or buffering that it may deem appropriate for each seating area.
 - (4) Any such outdoor restaurant seating that is approved pursuant to this section shall remain in compliance with all Westchester County Department of Health and New York State codes, rules, regulations and guidelines.
 - (5) Except as modified herein, all other provisions of Section 220-16 shall continue to apply to outdoor restaurant seating.

SECTION 3 – HOME RULE

Nothing in this Local Law is intended, or shall be construed (a) to limit the home rule authority of the Town under State Law to limit the Town's discretion in setting fees and charges in connection with any applications requiring Town approval.

SECTION 4 – SEVERABILITY

If any part or provision of this Local Law or the application thereof to any person or circumstance be adjudged invalid by any court of competent jurisdiction, such judgment shall be confined in its operation to the part or provision or application directly involved in the controversy in which judgment shall have been rendered and shall not affect or impair the validity of the remainder of this Local Law or the application thereof to other persons or circumstances, and the Town Board of the Town of Lewisboro hereby declares that it would have passed this Local Law or the remainder thereof had such invalid application or invalid provision been apparent.

SECTION 5– EFFECTIVE DATE

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