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# TOWN OF NEWBURGH
# PLANNING BOARD
# TECHNICAL REVIEW COMMENTS

**PROJECT:** HANOVER ROUTE 32 SUBDIVISION
**PROJECT NO.:** 21-06
**PROJECT LOCATION:** SECTION 2, BLOCK 1, LOT 57.2
**REVIEW DATE:** 14 MAY 2021
**MEETING DATE:** 20 MAY 2021
**PROJECT REPRESENTATIVE:** ENGINEERING AND SURVEYING PROPERTIES

1. The Applicants have revised the subsurface sanitary sewer disposal system on Lot #3 to provide separation distances from the Federal Jurisdictional Wetland area.

2. A conceptual approval has been received from NYSDOT for the residential driveways. It is recommended a note be placed on the plans identifying the comment from DOT "each individual property owner of Lots #1,2 & 3 and the combined owners of Lots #4 & 5 shall be responsible for obtaining a Highway Work Permit for access from the state highway. They shall obtain permits from the department prior to beginning construction within their lots. Each access shall conform to the current DOT standards and specifications. They shall contact the Permit Field Engineer to begin the process of obtaining an HWP."

3. This office circulated a Notice of Intent for Lead Agency on April 19, 2021. In addition Orange County 239 review was sent to Orange County Planning on that date.

4. This office has received the Federal Wetlands Delineation Report prepared by ERS Consultants for the subject property.

5. The project will require coverage under the NYSDEC Construction Stormwater Program. The project is proposed to disturb 3.1 +/- acre of property. Residential projects less than 25% impervious which disturbed between 1-5 acres only requires a Soil Erosion and Sediment Control Plan to be implemented as the projects SWPPP. A municipal authorization will be issued for the project by the Town of Newburgh.

6. Based on a review of the Environmental Assessment Form submitted plans revised pursuant to our previous comments, and submission of the requested Wetland Delineation Reports this office takes no exception to the Planning Board considering the issuance of a Negative Declaration for the 5 lot subdivision.

7. The project requires a Public Hearing.

Respectfully submitted,

***McGoey, Hauser and Edsall***
***Consulting Engineers, D.P.C.***

Patrick J. Hines
Principal

PJH/kbw

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www.EngineeringPropertiesPC.com

May 7, 2021

Town of Newburgh Planning Board
21 Hudson Valley Professional Plaza
Newburgh, NY 12550

**ATTN: John Ewasutyn, Chairman**

**RE: W.O. # 1051.11**
**PB APPLICATION 2021-06**
**HANOVER RTE 32 SUBDIVISION**
**TAX LOT # 2-1-57.2**
**COMMENT RESPONSE**

Dear Mr. Ewasutyn:

We are in receipt of the comment memo regarding the above-mentioned project dated April 9, 2021 from MH&E Consulting Engineers, D.P.C. Below is a comment-by-comment response;

1. As part of this re-submission please find the approval letter from the NYS Department of Transportation attached.

2. Limits of disturbance have been included on Sheet C-101. A draft Notice of Intent has been prepared and is attached. The Notice of Intent will be finalized upon Planning Board approval and submitted to receive coverage under the NYSDEC Stormwater SPDES Permit prior to start of construction.

3. A common driveway access and maintenance agreement for Lots 4 & 5 will be provided prior to final approval.

4. It is our understanding that the plan set was forwarded to Orange County Planning for review on April 19th.

5. The septic system location on proposed Lot 3 has been relocated so that it is more than 100 hundred feet away from the existing wetlands.

6. The septic system location on proposed Lot 3 has been relocated. Please refer to Sheet C-300 for the corresponding percolation and deep test pit results.

7. A copy of the Wetland Delineation report will be provided to the Town once it is complete.

8. No response required.

If you have any additional questions and/or comments please don't hesitate to contact this office.

Sincerely,
Engineering & Surveying Properties, PC

Ross Winglovitz, P.E.
Principal

Reuben Buck
Project Engineer

NEW YORK
STATE OF
OPPORTUNITY.

**Department of Transportation**

**ANDREW M. CUOMO**
Governor

**MARIE THERESE DOMINGUEZ**
Commissioner

**LANCE MacMILLAN, P.E.**
Regional Director

April 20, 2021

Ross Winglovitz, P.E.
Engineering Properties
71 Clinton Street
Montgomery, NY 12549

**RE: HANOVER ROUTE 32 SUBDIVISION**
**NYS ROUTE 32, TAX MAP SBL: 2-1-57.2**
**TOWN OF NEWBURGH, ORANGE COUNTY**

Dear Mr. Winglovitz,

The Department is in receipt of your plan, dated 4/5/2021, for the referenced project. We are acceptable to this subdivision plan with four driveways proposed to serve five residential properties. The common shared driveway serving Lots #4 and #5 shall be constructed based upon regular single-family residential driveway standards.

As per our field visit, the four locations shown on the plan are also acceptable. Since this portion of NYS Route 32 has a posted Speed Limit of 55 mph, the owners of each residential driveway shall make every effort to keep the NYS ROW clear of sight obstructions to meet the required sight distances. The obstructions shall be eliminated during the construction stages of each driveway and maintained throughout occupancy of the properties.

Each individual property owner of Lots #1, #2 and #3, and the combined owners of Lot #4 and #5 shall be responsible for obtaining a Highway Work Permit for access from the state highway. They shall obtain permits from the Department prior to beginning construction within their lots. Each access shall conform to current NYSDOT standards and specifications. They shall contact the Permit Field Engineer to begin the process of obtaining the HWP.

Respectfully,

Siby Mary Zachariah-Carbone
Permit Field Engineer, Res. 8-4
Eastern Orange County

0644089821

# NOTICE OF INTENT

**New York State Department of Environmental Conservation**
**Division of Water**
**625 Broadway, 4th Floor**
**Albany, New York 12233-3505**

**NYR** _____ (for DEC use only)

**Stormwater Discharges Associated with Construction Activity 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 Information

Owner/Operator (Company Name/Private Owner Name/Municipality Name)
Hanover Development, LLC

Owner/Operator Contact Person Last Name (NOT CONSULTANT)

Owner/Operator Contact Person First Name

Owner/Operator Mailing Address
71 Clinton Street

City
Montgomery

State
NY

Zip
12549-

Phone (Owner/Operator)
845-457-7727

Fax (Owner/Operator)
845-457-1899

Email (Owner/Operator)

FED TAX ID
__-_____ (not required for individuals)

## Project Site Information

Project/Site Name
Hanover Route 32 Subdivision

Street Address (NOT P.O. BOX)
NYS Route 32

Side of Street
○ **North** ○ **South** ○ **East** ● **West**

City/Town/Village (THAT ISSUES BUILDING PERMIT)
Town of Newburgh

State: NY
Zip: 12589-
County: Orange
DEC Region: 3

Name of Nearest Cross Street
East Road

Distance to Nearest Cross Street (Feet)
100

Project In Relation to Cross Street
○ **North** ● **South** ○ **East** ○ **West**

Tax Map Numbers
Section-Block-Parcel
2-1-57.2

Tax Map Numbers

1. Provide the Geographic Coordinates for the project site in NYTM Units. To do this you **must** go to the NYSDEC Stormwater Interactive Map on the DEC website at:

**www.dec.ny.gov/imsmaps/stormwater/viewer.htm**

Zoom into your Project Location such that you can accurately click on the centroid of your site. Once you have located your project site, go to the tool boxes on the top and choose "i"(identify). Then click on the center of your site and a new window containing the X, Y coordinates in UTM will pop up. Transcribe these coordinates into the boxes below. For problems with the interactive map use the help function.

**X Coordinates (Easting)**: 608416

**Y Coordinates (Northing)**: 1005168

2. What is the nature of this construction project?

● **New Construction**

○ **Redevelopment with increase in impervious area**

○ **Redevelopment with no increase in impervious area**

3. Select the predominant land use for both pre and post development conditions.
**SELECT ONLY ONE CHOICE FOR EACH**

| Pre-Development Existing Land Use | Post-Development Future Land Use |
|---|---|
| ● FOREST | ○ SINGLE FAMILY HOME |
| ○ PASTURE/OPEN LAND | ● SINGLE FAMILY SUBDIVISION |
| ○ CULTIVATED LAND | ○ TOWN HOME RESIDENTIAL |
| ○ SINGLE FAMILY HOME | ○ MULTIFAMILY RESIDENTIAL |
| ○ SINGLE FAMILY SUBDIVISION | ○ INSTITUTIONAL/SCHOOL |
| ○ TOWN HOME RESIDENTIAL | ○ INDUSTRIAL |
| ○ MULTIFAMILY RESIDENTIAL | ○ COMMERCIAL |
| ○ INSTITUTIONAL/SCHOOL | ○ MUNICIPAL |
| ○ INDUSTRIAL | ○ ROAD/HIGHWAY |
| ○ COMMERCIAL | ○ RECREATIONAL/SPORTS FIELD |
| ○ ROAD/HIGHWAY | ○ BIKE PATH/TRAIL |
| ○ RECREATIONAL/SPORTS FIELD | ○ LINEAR UTILITY (water, sewer, gas, etc.) |
| ○ BIKE PATH/TRAIL | ○ PARKING LOT |
| ○ LINEAR UTILITY | ○ CLEARING/GRADING ONLY |
| ○ PARKING LOT | ○ DEMOLITION, NO REDEVELOPMENT |
| ○ OTHER | ○ WELL DRILLING ACTIVITY *(Oil, Gas, etc.) |
| | ○ OTHER |

Number of Lots: 005

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

4. In accordance with the larger common plan of development or sale, enter the total project site area; the total area to be disturbed; existing impervious area to be disturbed (for redevelopment activities); and the future impervious area constructed within the disturbed area. (Round to the nearest tenth of an acre.)

| Total Site Area | Total Area To Be Disturbed | Existing Impervious Area To Be Disturbed | Future Impervious Area Within Disturbed Area |
|---|---|---|---|
| 53.7 | 3.5 | 0. | 0.8 |

5. Do you plan to disturb more than 5 acres of soil at any one time? ○ **Yes** ● **No**

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

| A | B | C | D |
|---|---|---|---|
| 5 % | 0 % | 39 % | 56 % |

7. Is this a phased project? ○ **Yes** ● **No**

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

**Start Date** 07/01/2021 - **End Date** 09/30/2022

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

Name

Onsite wetlands

9a. Type of waterbody identified in Question 9?

- ○ Wetland / State Jurisdiction On Site (Answer 9b)
- ○ Wetland / State Jurisdiction Off Site
- ● Wetland / Federal Jurisdiction On Site (Answer 9b)
- ○ Wetland / Federal Jurisdiction Off Site
- ○ Stream / Creek On Site
- ○ Stream / Creek Off Site
- ○ River On Site
- ○ River Off Site
- ○ Lake On Site
- ○ Lake Off Site
- ○ Other Type On Site
- ○ Other Type Off Site

9b. How was the wetland identified?

- ○ Regulatory Map
- ● Delineated by Consultant
- ○ Delineated by Army Corps of Engineers
- ○ Other (identify)

10. Has the surface waterbody(ies) in question 9 been identified as a 303(d) segment in Appendix E of GP-0-20-001? ○ **Yes** ● **No**

11. Is this project located in one of the Watersheds identified in Appendix C of GP-0-20-001? ○ **Yes** ● **No**

12. Is the project located in one of the watershed areas associated with AA and AA-S classified waters? ○ **Yes** ● **No**
**If no, skip question 13.**

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? ○ **Yes** ● **No**
**If Yes, what is the acreage to be disturbed?**

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

15. Does the site runoff enter a separate storm sewer system (including roadside drains, swales, ditches, culverts, etc)? ○ Yes ● No ○ Unknown

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 as a Combined Sewer? ○ Yes ● No ○ Unknown

18. Will future use of this site be an agricultural property as defined by the NYS Agriculture and Markets Law? ○ Yes ● No

19. Is this property owned by a state authority, state agency, federal government or local government? ○ Yes ● No

20. Is this a remediation project being done under a Department approved work plan? (i.e. CERCLA, RCRA, Voluntary Cleanup Agreement, etc.) ○ Yes ● No

21. Has the required Erosion and Sediment Control component of the SWPPP been developed in conformance with the current NYS Standards and Specifications for Erosion and Sediment Control (aka Blue Book)? ● Yes ○ No

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 Quantity Control practices/techniques)? ○ Yes ● No
**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 Stormwater Management Design Manual? ○ Yes ○ No

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

- ● **Professional Engineer (P.E.)**
- ○ **Soil and Water Conservation District (SWCD)**
- ○ **Registered Landscape Architect (R.L.A)**
- ○ **Certified Professional in Erosion and Sediment Control (CPESC)**
- ○ **Owner/Operator**
- ○ **Other**

SWPPP Preparer
Engineering & Surveying Properties P.C.

Contact Name (Last, Space, First)
Winglovitz, Ross

Mailing Address
71 Clinton Street

City
Montgomery

State Zip
NY 12549-

Phone
845-457-7727

Fax
845-457-1899

Email
ross@ep-pc.com

**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**
Ross

**MI**
A

**Last Name**
Winglovitz

**Signature**

**Date**
04/21/2021

25. Has a construction sequence schedule for the planned management practices been prepared? ● Yes ○ No

26. Select **all** of the erosion and sediment control practices that will be employed on the project site:

**Temporary Structural**

- ○ Check Dams
- ○ Construction Road Stabilization
- ○ Dust Control
- ○ Earth Dike
- ○ Level Spreader
- ○ Perimeter Dike/Swale
- ○ Pipe Slope Drain
- ○ Portable Sediment Tank
- ○ Rock Dam
- ○ Sediment Basin
- ○ Sediment Traps
- ● Silt Fence
- ● Stabilized Construction Entrance
- ○ Storm Drain Inlet Protection
- ○ Straw/Hay Bale Dike
- ○ Temporary Access Waterway Crossing
- ○ Temporary Stormdrain Diversion
- ● Temporary Swale
- ○ Turbidity Curtain
- ○ Water bars

**Biotechnical**

- ○ Brush Matting
- ○ Wattling

**Vegetative Measures**

- ○ Brush Matting
- ○ Dune Stabilization
- ○ Grassed Waterway
- ○ Mulching
- ○ Protecting Vegetation
- ○ Recreation Area Improvement
- ○ Seeding
- ○ Sodding
- ○ Straw/Hay Bale Dike
- ○ Streambank Protection
- ○ Temporary Swale
- ○ Topsoiling
- ○ Vegetating Waterways

**Permanent Structural**

- ○ Debris Basin
- ○ Diversion
- ○ Grade Stabilization Structure
- ● Land Grading
- ○ Lined Waterway (Rock)
- ○ Paved Channel (Concrete)
- ○ Paved Flume
- ○ Retaining Wall
- ○ Riprap Slope Protection
- ○ Rock Outlet Protection
- ○ Streambank Protection

Other

## Post-construction Stormwater Management Practice (SMP) Requirements

**Important: 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.

- ○ **Preservation of Undisturbed Areas**
- ○ **Preservation of Buffers**
- ○ **Reduction of Clearing and Grading**
- ○ **Locating Development in Less Sensitive Areas**
- ○ **Roadway Reduction**
- ○ **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).
- ○ 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).

**Total WQv Required**

☐☐☐.☐☐☐ **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.

7738089822

Table 1 - Runoff Reduction (RR) Techniques and Standard Stormwater Management Practices (SMPs)

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

**Table 2 - Alternative SMPs**
**(DO NOT INCLUDE PRACTICES BEING USED FOR PRETREATMENT ONLY)**

| Alternative SMP | Total Contributing Impervious Area (acres) |
|---|---|
| ○ **Hydrodynamic** ..... | |
| ○ **Wet Vault** ..... | |
| ○ **Media Filter** ..... | |
| ○ **Other** [ ] ..... | |

Provide the name and manufacturer of the Alternative SMPs (i.e. proprietary practice(s)) being used for WQv treatment.

Name

Manufacturer

**Note:** 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**

[ ][ ][ ].[ ][ ][ ] **acre-feet**

31. Is the Total RRv provided (#30) greater than or equal to the total WQv required (#28).

○ **Yes** ○ **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**

[ ][ ][ ].[ ][ ][ ] **acre-feet**

32a. Is the Total RRv provided (#30) greater than or equal to the Minimum RRv Required (#32)?

○ **Yes** ○ **No**

**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 criteria.**

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 impervious 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)

34. Provide the sum of the Total RRv provided (#30) and the WQv provided (#33a). ☐☐☐.☐☐☐

35. Is the sum of the RRv provided (#30) and the WQv provided (#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.**

36. Provide the total Channel Protection Storage Volume (CPv) required and provided or select waiver (36a), if applicable.

**CPv Required**

☐☐☐.☐☐☐ **acre-feet**

**CPv Provided**

☐☐☐.☐☐☐ **acre-feet**

36a. The need to provide channel protection has been waived because:

○ Site discharges directly to tidal waters or a fifth order or larger stream.

○ 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**

☐☐☐.☐☐☐ **CFS**

**Post-development**

☐☐☐.☐☐☐ **CFS**

**Total Extreme Flood Control Criteria (Qf)**

**Pre-Development**

☐☐☐.☐☐☐ **CFS**

**Post-development**

☐☐☐.☐☐☐ **CFS**

37a. The need to meet the Qp and Qf criteria has been waived because:

- ○ Site discharges directly to tidal waters or a fifth order or larger stream.
- ○ 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 developed? ○ **Yes** ○ **No**

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.

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

- ○ Air Pollution Control
- ○ Coastal Erosion
- ○ Hazardous Waste
- ○ Long Island Wells
- ○ Mined Land Reclamation
- ○ Solid Waste
- ○ Navigable Waters Protection / Article 15
- ○ Water Quality Certificate
- ○ Dam Safety
- ○ Water Supply
- ○ Freshwater Wetlands/Article 24
- ○ Tidal Wetlands
- ○ Wild, Scenic and Recreational Rivers
- ○ Stream Bed or Bank Protection / Article 15
- ○ Endangered or Threatened Species(Incidental Take Permit)
- ○ Individual SPDES
- ○ SPDES Multi-Sector GP [N][Y][R][ ][ ][ ][ ][ ]
- ○ Other [ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ][ ]
- ● None

41. Does this project require a US Army Corps of Engineers Wetland Permit? ○ **Yes** ● **No**
**If Yes, Indicate Size of Impact.** [ ][ ][ ][ ][ ].[ ]

42. Is this project subject to the requirements of a regulated, traditional land use control MS4? ● **Yes** ○ **No**
**(If No, skip question 43)**

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 transferring coverage under a general permit for stormwater runoff from construction activities, please indicate the former SPDES number assigned. [N][Y][R][ ][ ][ ][ ][ ][ ]

3547089826

## Owner/Operator Certification

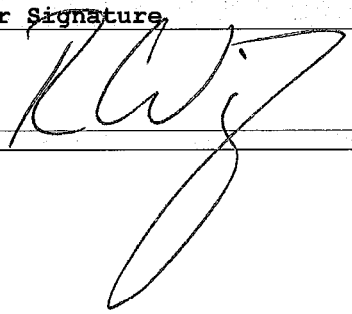
I have read or been advised of the permit conditions and believe that I understand them. I also understand that, under the terms of the permit, there may be reporting requirements. I hereby certify that this document and the corresponding documents were prepared under my direction or supervision. I am 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**: Ross

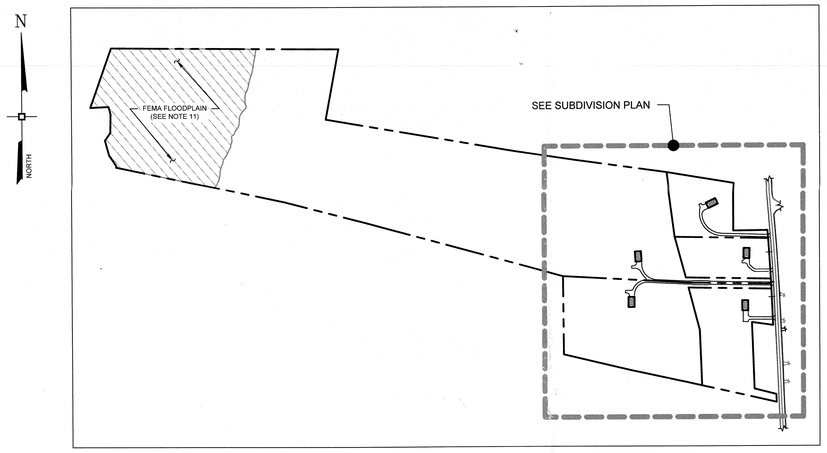
**MI**: A

**Print Last Name**: Winglovitz

**Owner/Operator Signature**:



**Date**: 04/21/2021




## OVERALL PLAN

SCALE: 1" = 300'

## LIST OF DRAWINGS

| DRAWING # | TITLE | SHEET # |
|---|---|---|
| C-100 | OVERALL & SUBDIVISION PLANS | 1 |
| C-101 | EROSION CONTROL PLAN | 2 |
| C-300 | SEPTIC DESIGN DETAILS | 3 |
| C-301 | EROSION CONTROL DETAILS & NOTES | 4 |

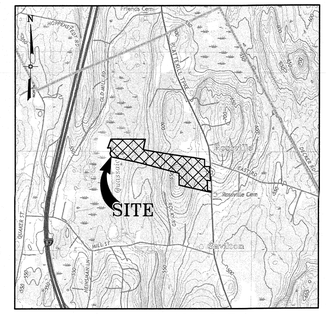
## BULK REQUIREMENTS

TOWN OF NEWBURGH - ZONING DISTRICT RR
PROPOSED USE: SINGLE-FAMILY DWELLINGS (USE §185 ATTACHMENT 5)

| MINIMUM BUILDING REQUIREMENTS | REQUIRED | PROPOSED LOT 1 | PROPOSED LOT 2 | PROPOSED LOT 3 | PROPOSED LOT 4 | PROPOSED LOT 5 |
|---|---|---|---|---|---|---|
| LOT AREA | 2.0 ACRES | 2.22 ACERS | 2.00 ACERS | 3.62 ACRES | 7.00 ACRES | 38.83 ACERS |
| LOT WIDTH | 200 FEET | 270 FEET | 200.56 FEET | 528 FEET | 455 FEET | 553 FEET |
| LOT DEPTH | 300 FEET | 309 FEET | 433 FEET | 390 FEET | 634 FEET | 3,031 FEET |
| FRONT YARD | 60 FEET | 74 FEET | 95 FEET | 117 FEET | 275 FEET | 179 FEET |
| REAR YARD | 100 FEET | 174 FEET | 296 FEET | 230 FEET | 322 FEET | 2771 FEET |
| SIDE YARD (ONE / BOTH) | 50 / 100 FEET | 89 / 234 FEET | 51 / 150 FEET | 59 / 468 FEET | 86 / 391 FEET | 90 / 495 FEET |
| HABITABLE FLOOR AREA | 1,500 SQ.FT. | 1,500 SQ.FT. | 1,500 SQ.FT. | 1,500 SQ.FT. | 1,500 SQ.FT. | 1,500 SQ.FT. |
| MAXIMUM ALLOWABLE | | | | | | |
| BUILDING HEIGHT | 35 FT | <35 FT | < 35 FT | < 35 FT | < 35 FT | < 35 FT |
| LOT COVERAGE (BUILDINGS) | 10 % | 1.6 % | 1.7 % | 0.65 % | 0.5 % | 0.09 % |
| IMPERVIOUS COVERAGE | 10 % | 8.4 % | 4.9 % | 2.9 % | 2.7 % | 0.5 % |


## SUBDIVISION PLAN

SCALE: 1" = 50'




## LOCATION MAP

SCALE: 1" = 2000'

## GENERAL NOTES

1. TAX MAP IDENTIFICATION NUMBER: SECTION 2 BLOCK 1 LOT 57.2
2. TOTAL AREA OF SUBJECT PARCEL: 53.674± ACRES.
3. TOTAL LIMIT OF DISTURBANCE: 3.51± ACRES.
4. BOUNDARY AND PLANIMETRIC INFORMATION BASED UPON FIELD SURVEY AS PERFORMED BY ENGINEERING & SURVEYING PROPERTIES PC ON APRIL 23, 2021.
5. THE TOPOGRAPHY SHOWN HEREON WAS COMPILED BY ENGINEERING & SURVEYING PROPERTIES PC, FROM USGS 1M HYDRO-FLATTENED DIGITAL ELEVATION MODELS (DEMS) AS DERIVED FROM 2012 SOURCE LIDAR. THE DEMS WERE PROVIDED BY NYS.GIS.GOV AND CORRESPOND TO ACTUAL SURVEY OBSERVATIONS TAKEN IN THE FIELD. CONTOURS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
6. OWNER: STEVEN J. BRANDFIELD
   40 WEST 72ND STREET
   NEW YORK, NY 10023
7. APPLICANT: HANOVER DEVELOPMENT, LLC
   71 CLINTON STREET
   MONTGOMERY, NY 12549
8. PROPOSED NUMBER OF LOTS: 5
9. ALL PROPOSED LOTS SHALL BE SERVICED BY INDIVIDUAL WELLS AND SEPTICS.
10. THE APPROXIMATE LOCATION OF ALL EXISTING WELLS AND SEPTIC SYSTEMS WITHIN 300' OF ALL PROPOSED WELLS AND SEPTIC SYSTEMS ARE SHOWN.
11. THE NORTHWESTERN PORTION OF THE SITE FALLS WITHIN THE FEMA 100-YEAR FLOODPLAIN TAKEN FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP, ORANGE COUNTY, COMMUNITY: TOWN OF NEWBURGH, NUMBER 3607100128E, PANEL NUMBER 129 OF 630, EFFECTIVE DATE AUGUST 3, 2009.
12. WETLANDS DELINEATED BY ERS CONSULTANTS ON JANUARY 25, 2021 AND LOCATED BY GPS BY ENGINEERING & SURVEYING PROPERTIES PC ON FEBRUARY 10, 2021.
13. THE "LEFT TURN FROM STOP" SIGHT DISTANCE FOR LOT 1 WILL BE ≥600' AFTER THE EXISTING SHRUB WITHIN THE NYSDOT RIGHT-OF-WAY IS REMOVED.

| No. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 04/05/21 | INITIAL SUBMISSION |
| 1 | 05/07/21 | REVISED PER PB ENGINEER COMMENTS 04/09/21 |

| DRAWING STATUS | ISSUE DATE: 05/07/21 | | |
|---|---|---|---|
| THIS SHEET IS PART OF THE PLAN SET ISSUED FOR | SHEET NUMBER | | |
| ☐ CONCEPT APPROVAL | N/A | OF | N/A |
| ☑ PLANNING BOARD APPROVAL | 1 | OF | 4 |
| ☐ OCDOH REALTY SUBDIVISION APPROVAL | N/A | OF | N/A |
| ☐ OCDOH WATERMAIN EXTENSION APPROVAL | N/A | OF | N/A |
| ☐ NYSDEC APPROVAL | N/A | OF | N/A |
| ☐ NYSDOT APPROVAL | N/A | OF | N/A |
| ☐ OTHER | N/A | OF | N/A |
| ☐ FOR BID | N/A | OF | N/A |
| ☐ FOR CONSTRUCTION | N/A | OF | N/A |

THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE.
THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).



STATE OF NEW YORK · ROSS A. WINGLOVITZ · 071701 · LICENSED PROFESSIONAL ENGINEER

ROSS WINGLOVITZ, P.E.
NEW YORK LICENSE # 071701

0 1 2 3
ORIGINAL SCALE IN INCHES

**TOWN OF NEWBURGH**
**PLANNING BOARD APPROVAL BOX**

NEWBURGH PB #2021-06

ENGINEERING & SURVEYING PROPERTIES
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OVERALL & SUBDIVISION PLANS

HANOVER ROUTE 32 SUBDIVISION
NYS ROUTE 32
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK

| JOB #: | DRAWN BY: | |
|---|---|---|
| 1051.11 | RMB | C-100 |
| DATE: 04/05/21 | SCALE: AS NOTED | |
| REVISION: 1 - 05/07/21 | TAX LOT: 2-1-57.2 | |



## LEGEND

- BUILDING LINE
- BUILDING ROOF LINE
- DRIVEWAY LINE
- EASEMENT LINE
- PROPERTY LINE
- EDGE OF PAVEMENT LINE
- SEPTIC SYSTEM LATERALS
- BUILDING SETBACK LINES
- 310 MAJOR CONTOUR LINE
- 422 MINOR CONTOUR LINE
- EXISTING BUILDING LINE
- 310 EXISTING MAJOR CONTOUR LINE
- 422 EXISTING MINOR CONTOUR LINE
- EXISTING EDGE OF PAVEMENT LINE
- EXISTING EASEMENT LINE
- EXISTING FENCE LINES
- ADJACENT PROPERTY LINE
- EXISTING PROPERTY LINE
- EXISTING SEWER MAIN LINES
- EXISTING STORM DRAIN LINES
- 7/15/03 A — PERC TEST LOCATION
- 2-A — DEEP TEST HOLE LOCATION
- SIGN & POST
- W — WELL LOCATION
- C.O. — SEWER CLEANOUT
- UTILITY POLE
- WLF-25 — WETLAND FLAG LOCATION AND DESIGNATION
- GFE = XXX.X — GARAGE FLOOR ELEVATION
- FFE = XXX.X — FIRST FLOOR ELEVATION
- LSE = XXX.X — LOWEST SEWERABLE ELEVATION
- 6 HOLE DROP BOX
- 1250 GALLON SEPTIC TANK


| No. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 04/05/21 | INITIAL SUBMISSION |
| 1 | 05/07/21 | REVISED PER PB ENGINEER COMMENTS 04/09/21 |

| DRAWING STATUS | ISSUE DATE: 05/07/21 | | |
|---|---|---|---|
| THIS SHEET IS PART OF THE PLAN SET ISSUED FOR | SHEET NUMBER | | |
| ☐ CONCEPT APPROVAL | N/A | OF | N/A |
| ☑ PLANNING BOARD APPROVAL | 2 | OF | 4 |
| ☐ OCDOH REALTY SUBDIVISION APPROVAL | N/A | OF | N/A |
| ☐ OCDOH WATERMAIN EXTENSION APPROVAL | N/A | OF | N/A |
| ☐ NYSDEC APPROVAL | N/A | OF | N/A |
| ☐ NYSDOT APPROVAL | N/A | OF | N/A |
| ☐ OTHER | N/A | OF | N/A |
| ☐ FOR BID | N/A | OF | N/A |
| ☐ FOR CONSTRUCTION | N/A | OF | N/A |

THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE.
THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).



STATE OF NEW YORK · ROSS A. WINGLOVITZ · 071701 · LICENSED PROFESSIONAL ENGINEER

ROSS WINGLOVITZ, P.E.
NEW YORK LICENSE # 071701

50 0 25 50 100
1 inch = 50 ft.

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WWW.EP-PC.COM

# EROSION CONTROL PLAN

HANOVER ROUTE 32 SUBDIVISION
NYS ROUTE 32
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK

| JOB #: | DRAWN BY: | |
|---|---|---|
| 1051.11 | RMB | |
| DATE: | SCALE: | C-101 |
| 04/05/21 | 1" = 50' | |
| REVISION: | TAX LOT: | |
| 1 - 05/07/21 | 2-1-57.2 | |

# SEPTIC SYSTEM DESIGN SCHEDULE

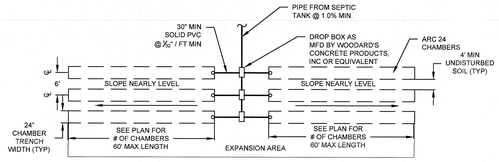
| LOT | NUMBER OF BEDROOMS | DESIGN PERC RATE (min) | FLOW RATE (GPD) | APPLICATION RATE (GPD/Sq. ft.) | REQUIRED AREA (Sq. ft.) | REQUIRED ABSORPTION FIELD LENGTH (ft) | REQUIRED FIELD LENGTH (ft) BASED USING GRAVELESS CHAMBERS (25% REDUCTION) | PROPOSED ABSORPTION FIELD LENGTH (ft) |
|---|---|---|---|---|---|---|---|---|
| 1 | 4 | 10 | 440 | 0.90 | 488.9 | 245.3 | 184 | 5 LATERALS @ 40'<br>5 ROWS OF 8 CHAMBERS |
| 2 | 4 | 14 | 440 | 0.80 | 550.0 | 276.0 | 207 | 4 LATERALS @ 55'<br>4 ROWS OF 11 CHAMBERS |
| 3 | 4 | 34 | 440 | 0.50 | 880.0 | 440.0 | 330 | 12 LATERALS @ 30'<br>12 ROWS OF 6 CHAMBERS |
| 4 | 4 | 31 | 440 | 0.50 | 880.0 | 440.0 | 330 | 6 LATERALS @ 55'<br>6 ROWS OF 11 CHAMBERS |
| 5 | 4 | 22 | 440 | 0.60 | 733.3 | 366.7 | 275 | 8 LATERALS @ 35'<br>8 ROWS OF 7 CHAMBERS |

# PERCOLATION TEST RESULTS

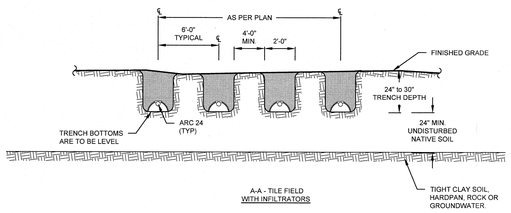
| LOT # | PERC HOLE # | PERC HOLE DEPTH | PERC HOLE DIA | TIME | PERCOLATION TEST RUNS - STOPWATCH USED FOR ALL TESTS (TIME FOR 1" DROP IN WATER LEVEL) | | | | | STABLIZED RATE |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 01/22/21 PT-03 | 24" | 10" | FINISH | | | | | | 8 MIN |
| | | | | START | STOPWATCH USED FOR TIMED INTERVALS | | | | | |
| | | | | TIME | 00:04:10 | 00:07:23 | 00:07:40 | | | |
| 1 | 03/05/21 PT-03 | 24" | 10" | FINISH | | | | | | 10 MIN |
| | | | | START | STOPWATCH USED FOR TIMED INTERVALS | | | | | |
| | | | | TIME | 00:08:24 | 00:08:41 | 00:09:18 | | | |
| 2 | 01/22/21 PT-02 | 24" | 10" | FINISH | | | | | | 11 MIN |
| | | | | START | STOPWATCH USED FOR TIMED INTERVALS | | | | | |
| | | | | TIME | 00:04:27 | 00:09:28 | 00:10:03 | | | |
| 2 | 03/05/21 PT-04 | 24" | 10" | FINISH | | | | | | 14 MIN |
| | | | | START | STOPWATCH USED FOR TIMED INTERVALS | | | | | |
| | | | | TIME | 00:08:24 | 00:11:34 | 00:13:06 | 00:13:10 | | |
| 3 | 01/22/21 PT-04 | 24" | 10" | FINISH | | | | | | 34 MIN |
| | | | | START | STOPWATCH USED FOR TIMED INTERVALS | | | | | |
| | | | | TIME | 00:19:05 | 00:13:15 | 00:33:05 | | | |
| 3 | 04/28/21 PT-01 | 24" | 10" | FINISH | | | | | | 5 MIN |
| | | | | START | STOPWATCH USED FOR TIMED INTERVALS | | | | | |
| | | | | TIME | 00:02:51 | 00:04:28 | 00:04:39 | | | |
| 4 | 01/21/21 PT-01 | 24" | 10" | FINISH | | | | | | 31 MIN |
| | | | | START | STOPWATCH USED FOR TIMED INTERVALS | | | | | |
| | | | | TIME | 00:28:45 | 00:29:51 | 00:30:14 | | | |
| 4 | 03/05/21 PT-01 | 24" | 10" | FINISH | | | | | | 31 MIN |
| | | | | START | STOPWATCH USED FOR TIMED INTERVALS | | | | | |
| | | | | TIME | 00:20:19 | 00:23:19 | 00:25:35 | 00:30:02 | 00:30:20 | |
| 5 | 04/28/21 PT-02 | 24" | 10" | FINISH | | | | | | 11 MIN |
| | | | | START | STOPWATCH USED FOR TIMED INTERVALS | | | | | |
| | | | | TIME | 00:02:40 | 00:05:07 | 00:10:02 | 00:10:55 | | |
| 5 | 03/05/21 PT-02 | 24" | 10" | FINISH | | | | | | 22 MIN |
| | | | | START | STOPWATCH USED FOR TIMED INTERVALS | | | | | |
| | | | | TIME | 00:07:24 | 00:14:49 | 00:17:56 | 00:21:50 | 00:21:58 | |

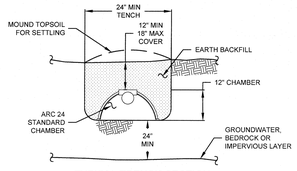
# DEEP TEST HOLE RESULTS

| LOT # | TEST HOLE # | DATE | DEPTH | DESCRIPTION |
|---|---|---|---|---|
| 1 | TP-07 | 03/05/21 | 0" - 6"<br>6" - 32" | TOPSOIL<br>TAN, SILTY LOAM<br>ROCK @ 32" |
| 1 | TP-08 | 03/05/21 | 0" - 6"<br>6" - 42" | TOPSOIL<br>TAN, SILTY LOAM<br>ROCK @ 32" |
| 2 | TP-09 | 03/05/21 | 0" - 6"<br>6" - 44" | TOPSOIL<br>TAN, SILTY LOAM<br>GROUNDWATER @ 57" |
| 2 | TP-10 | 03/05/21 | 0" - 8"<br>8" - 32"<br>32" - 42" | TOPSOIL<br>TAN, SILTY LOAM W/ COBBLE<br>TAN, SILTY, CLAY LOAM<br>GROUNDWATER @ 42" |
| 3 | TP-12 | 03/05/21 | 0" - 8"<br>8" - 38"<br>38" - 56" | TOPSOIL<br>TAN, SILTY LOAM<br>TAN, SILTY, CLAY LOAM<br>GROUNDWATER @ 56" |
| 3 | TP-01 | 04/28/21 | 0" - 8"<br>8" - 56"<br>56" - 76" | TOPSOIL<br>TAN, SILTY, SANDY LOAM<br>TAN, SILTY, CLAY LOAM<br>GROUNDWATER @ 72", ROCK @ 76" |
| 4 | TP-01 | 03/05/21 | 0" - 6"<br>6" - 44" | TOPSOIL<br>TAN, SILTY, CLAY LOAM<br>GROUNDWATER @ 42", ROCK @ 44" |
| 4 | TP-03 | 03/05/21 | 0" - 6"<br>6" - 41" | TOPSOIL<br>TAN, SILTY, CLAY LOAM<br>GROUNDWATER @ 40", ROCK @ 41" |
| 5 | TP-02 | 04/28/21 | 0" - 8"<br>8" - 48"<br>48" - 75" | TOPSOIL<br>TAN, SILTY, SANDY LOAM<br>BROWN, SILTY, SANDY, CLAY LOAM<br>ROCK @ 75" |
| 5 | TP-05 | 03/05/21 | 0" - 8"<br>8" - 42"<br>42" - 67" | TOPSOIL<br>TAN, SILTY LOAM<br>TAN, SILTY, SANDY LOAM<br>GROUNDWATER @ 67" |




PLAN VIEW
INFILTRATOR SYSTEM



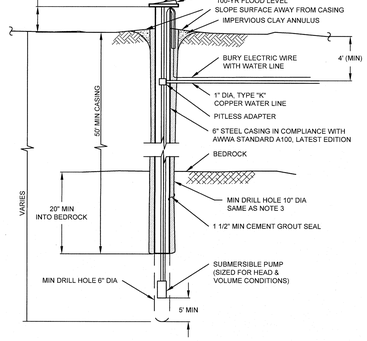




TYPICAL TRENCH SECTION

NOTES:
1. SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM THE BUILDING.
2. THERE SHALL BE NO REGRADING, IN THE AREA OF THE ABSORPTION FIELDS, EXCEPT AS SHOWN ON THE APPROVED PLANS.
3. SWIMMING POOLS, DRIVEWAYS AND/OR STRUCTURES THAT MAY COMPACT THE SOIL ARE NOT TO BE CONSTRUCTED OVER ABSORPTION FIELDS.
4. ASPHALTIC SEALS SHALL BE MAINTAINED BETWEEN THE SEPTIC TANK, AND ALL PIPES AND COVERS.
5. NO TRENCHES TO BE INSTALLED IN WET SOIL.
6. RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING CHAMBERS IN ABSORPTION TRENCH.
7. GROUT ALL PIPE PENETRATIONS INTO AND OUT OF ANY DISTRIBUTION OR DROP BOX.
8. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE PUBLICATION "NEW YORK STATE DEPARTMENT OF HEALTH - RESIDENTIAL ONSITE WASTEWATER TREATMENT SYSTEMSS - DESIGN HANDBOOK, 2012 AND OCDOH DESIGN POLICY & STANDARDS - APPENDIX 75-A.
9. ABSORPTION CHAMBER TO BE CAPPED AT ENDS.
10. PROVIDE A MINIMUM OF 30" OF SOLID PIPE PRIOR TO START OF LEACHING CHAMBERS AND BE BACKFILLED WITH NATIVE MATERIAL.
11. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE BUILDING, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
12. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO TO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
13. THIS SYSTEM HAS NOT BEEN DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI STYLE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS AND SHALL NOT BE INSTALLED WITHOUT ADDITIONAL REVIEW AND AND APPROVAL OF THE ORANGE COUNTY DEPARTMENT OF HEALTH.

## ABSORPTION TILE FIELD OVERALL PLAN

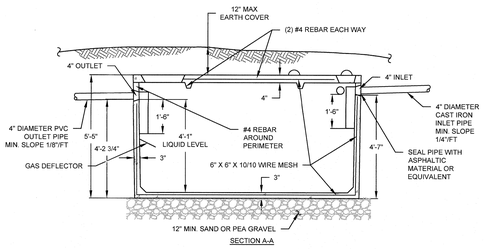
SCALE: N.T.S.




NOTES:
1. WELL IS TO BE CASED AND GROUTED FOR A MIN OF 50' IN LENGTH.
2. CASING SHALL EXTEND MINIMUM 20" INTO BEDROCK.
3. OVERSIZE DRILL HOLE (FOR GROUTING) TO BE 10" DIAMETER.
4. EXPECTED DEPTH OF LOAM AND SHALE OVERBURDEN = 5 - 30 FEET
5. EXPECTED DEPTH OF WATER BEARING FORMATION = 300 - 600 FEET
6. THE WELL CASING TO CONFORM TO AWWA STANDARD A100 (LATEST EDITION).
7. SANITARY WELL SEAL SHALL BE MONITOR MODEL NO 6WE-1, MFG BY THE BAKER MFG CO; EVANSVILE, WIS. OR APPROVED EQUAL AND SHALL HAVE THE APPROVAL OF THE WATER SYSTEMS COUNSEL.
8. PITLESS ADAPTOR SHALL BE MONITOR MODEL NO 8PL61U, MFG BY THE BAKER MFG CO; EVANSVILE, WIS. OR APPROVED EQUAL AND SHALL HAVE THE APPROVAL OF THE WATER SYSTEMS COUNSEL.
9. DISCHARGE PIPE: 1" MIN OF TYPE "K" COPPER WATER LINE.
10. WATER SERVICE LINES UNDER PRESSURE SHALL NOT PASS CLOSER THAN 10' OF A SEPTIC TANK, TILE FIELD, OR ANY OTHER PART OF A SEWAGE DISPOSAL SYSTEM.
11. PVC PIPE WITH O-RING JOINTS ARE REQUIRED FOR SEWAGE LINES BETWEEN 25 AND 50 FEET OF ANY WELL.
12. MIN. WELL YIELD TO BE A MINIMUM OF 2 GAL PER MINUTE. ANY WELL PRODUCING BETWEEN 2-5 GPM REQUIRES 24 HOURS OF STORAGE WITHIN HOME.
13. CEMENT GROUT SHALL BE A MIXTURE OF 1 BAG CEMENT (94 LBS) AND 5 1/2 GAL OF CLEAN WATER.
14. ELECTRICAL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
15. CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE PUBLICATION "RURAL WATER SUPPLY", NYS DEPT OF HEALTH, LATEST EDITION.
16. WELLS ARE TO BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLAN TO ASSURE THE MINIMUM SEPARATION DISTANCES ARE MET.

## TYPICAL DRILLED WELL SECTION

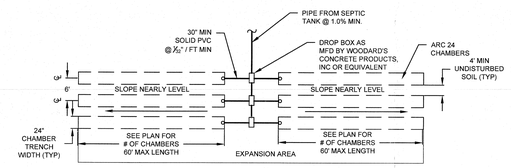
SCALE: N.T.S.



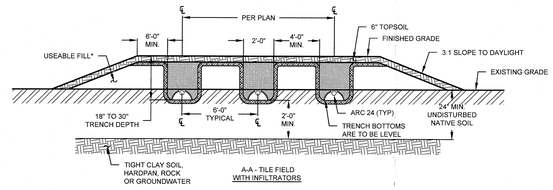

NOTES:
1. PRECAST CONCRETE SEPTIC TANK AS MANUFACTURED BY WOODARDS CONCRETE PRODUCTS, INC.,MODEL ST 1250, OR APPROVED EQUAL.
2. CONCRETE - 4000 PSI AT 28 DAYS.
3. REINFORCEMENT - 6" X 6" X 10 GAUGE WIRE MESH.
4. SECTIONS TO BE SEALED WITH BUTYL RUBBER BASE CEMENT.
5. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK, OR ANY PUMPING OR DOSING CHAMBER, TO THE BUILDING, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
6. SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.

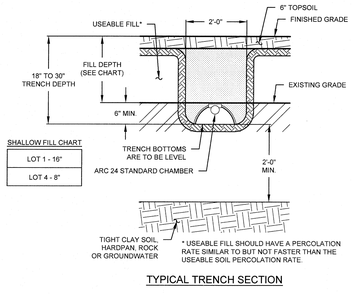
## 1250 GALLON SEPTIC TANK

SCALE: N.T.S.




PLAN VIEW
INFILTRATOR SYSTEM



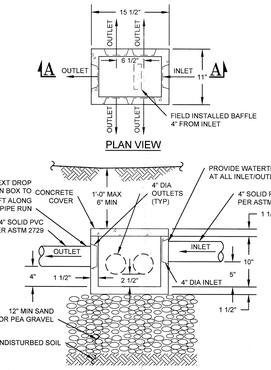




TYPICAL TRENCH SECTION

NOTES:
1. SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM THE BUILDING.
2. THERE SHALL BE NO REGRADING, IN THE AREA OF THE ABSORPTION FIELDS, EXCEPT AS SHOWN ON THE APPROVED PLANS.
3. SWIMMING POOLS, DRIVEWAYS AND/OR STRUCTURES THAT MAY COMPACT THE SOIL ARE NOT TO BE CONSTRUCTED OVER ABSORPTION FIELDS.
4. ASPHALTIC SEALS SHALL BE MAINTAINED BETWEEN THE SEPTIC TANK, AND ALL PIPES AND COVERS.
5. NO TRENCHES TO BE INSTALLED IN WET SOIL.
6. RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING CHAMBERS IN ABSORPTION TRENCH.
7. GROUT ALL PIPE PENETRATIONS INTO AND OUT OF ANY DISTRIBUTION OR DROP BOX.
8. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE PUBLICATION "NEW YORK STATE DEPARTMENT OF HEALTH - RESIDENTIAL ONSITE WASTEWATER TREATMENT SYSTEMSS - DESIGN HANDBOOK, 2012 AND OCDOH DESIGN POLICY & STANDARDS - APPENDIX 75-A.
9. ABSORPTION CHAMBER TO BE CAPPED AT ENDS.
10. PROVIDE A MINIMUM OF 30" OF SOLID PIPE PRIOR TO START OF LEACHING CHAMBERS AND BE BACKFILLED WITH NATIVE MATERIAL.
11. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE BUILDING, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
12. HEAVY EQUIPMENT SHALL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO TO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
13. THIS SYSTEM HAS NOT BEEN DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI STYLE SPA TUBS OVER 100 GALLONS, OR WATER CONDITIONERS AND SHALL NOT BE INSTALLED WITHOUT ADDITIONAL REVIEW AND AND APPROVAL OF THE ORANGE COUNTY DEPARTMENT OF HEALTH.

## SHALLOW ABSORPTION TILE FIELD OVERALL PLAN

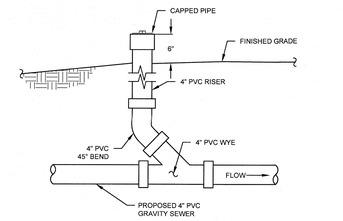
SCALE: N.T.S.




NOTES:
1. DROP BOX AS MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC. CATALOG No. DB-6DB OR APPROVED EQUAL
2. MINIMUM CONCRETE STRENGTH 4,000 PSI AT 28 DAYS
3. CONCRETE TO BE FIBER REINFORCED PER MANUFACTURER'S SPECIFICATION
4. SEAL ALL JOINTS AT INLET/OUTLET PIPES ASPHALTIC MATERIAL OR EQUIVALENT
5. PROVIDE SPEED LEVELERS AT ALL DISTRIBUTION BOX OUTLETS
6. UNUSED OUTLETS TO REMAIN PLUGGED
7. DISTRIBUTION BOXES SHOULD BE INSPECTED PERIODICALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY

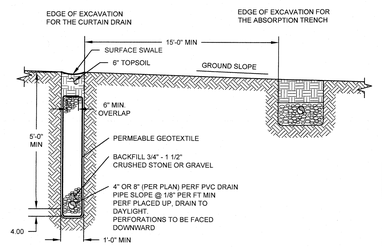
## 6 HOLE DROP DISTRIBUTION BOX

SCALE: N.T.S.




## TYPICAL CLEANOUT

SCALE: N.T.S.




NOTES:
1. TRANSITION OF PERFORATED PIPE TO SOLID PIPE SHALL OCCUR AT THE LOCATIONS AS SHOWN ON THE PLANS. MORE SPECIFICALLY AT AN ELEVATION BELOW THAT OF THE LAST LATERAL OF THE SEPTIC SYSTEM
2. PROVIDE RODENT SCREENS AT PIPE DAYLIGHT LOCATION.

## CURTAIN DRAIN

SCALE: N.T.S.

| No. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 04/05/21 | INITIAL SUBMISSION |
| 1 | 05/07/21 | REVISED PER PB ENGINEER COMMENTS 04/09/21 |

| DRAWING STATUS | ISSUE DATE: 05/07/21 | | |
|---|---|---|---|
| THIS SHEET IS PART OF THE PLAN SET ISSUED FOR | SHEET NUMBER | | |
| ☐ CONCEPT APPROVAL | N/A | OF | N/A |
| ☑ PLANNING BOARD APPROVAL | 3 | OF | 4 |
| ☐ OCDOH REALTY SUBDIVISION APPROVAL | N/A | OF | N/A |
| ☐ OCDOH WATERMAIN EXTENSION APPROVAL | N/A | OF | N/A |
| ☐ NYSDEC APPROVAL | N/A | OF | N/A |
| ☐ NYSDOT APPROVAL | N/A | OF | N/A |
| ☐ OTHER | N/A | OF | N/A |
| ☐ FOR BID | N/A | OF | N/A |
| ☐ FOR CONSTRUCTION | N/A | OF | N/A |

THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE.
THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).



STATE OF NEW YORK — ROSS A. WINGLOVITZ — 071701 — LICENSED PROFESSIONAL ENGINEER

ROSS WINGLOVITZ, P.E.
NEW YORK LICENSE # 071701

0 1 2 3
ORIGINAL SCALE IN INCHES



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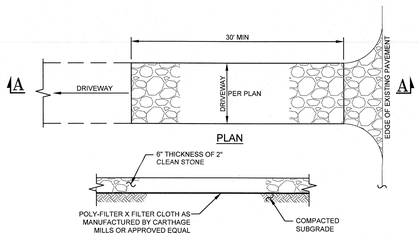
SEPTIC DESIGN DETAILS

HANOVER ROUTE 32 SUBDIVISION
NYS ROUTE 32
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK

| JOB #: | 1051.11 | DRAWN BY: | RMB | |
|---|---|---|---|---|
| DATE: | 04/05/21 | SCALE: | AS NOTED | C-300 |
| REVISION: | 1 - 05/07/21 | TAX LOT: | 2-1-57.2 | |



Z:\1051.11 - Newburgh Rte 32 Subdivision\Subdivision Plan.dwg
Date Printed: May 06, 2021, 11:16am



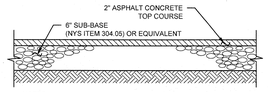

SECTION A-A

NOTES:

1. STONE SIZE - USE 2" STONE MIN. OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. WIDTH - 10 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH OF DRIVEWAY AT POINTS WHERE INGRESS OR EGRESS OCCURS.
3. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
4. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF- WAY. THIS MAY REQUIRED PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
5. WASHING - WHEELS SHALL 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 STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
6. PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH SIGNIFICANT RAINFALL EVENT.

## STABILIZED CONSTRUCTION ENTRANCE

SCALE: N.T.S.

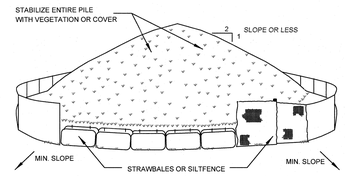



NOTES:

1. ITEM NUMBERS REFER TO NYSDOT SPECS.
2. PAVEMENT TO EXTEND FROM CURB TO RIGHT OF WAY LINE.

## DRIVEWAY PAVEMENT SECTION

SCALE: N.T.S.

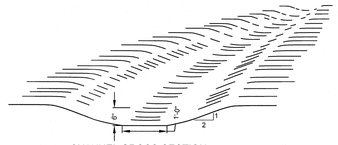



NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED A WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS (THIS MANUAL) FOR INSTALLATION OF SILT FENCE.

## SOIL STOCKPILING

SCALE: N.T.S.



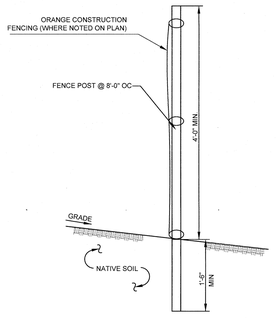

CHANNEL CROSS-SECTION

CONSTRUCTION SPECIFICATIONS:

1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
4. FILL SHALL BE COMPACTED AS NEEDED IN CONSTRUCTION TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETED WATERWAY.
5. WATERWAY SHALL BE SEEDED AND STABILIZED JUTE OR EXCELSIOR MATTING UNTIL THE VEGETATION IS ESTABLISHED.

## GRASSED SWALE

SCALE: N.T.S.

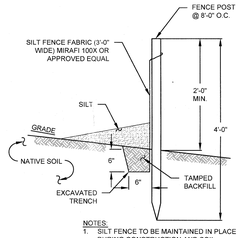



NOTES:

1. ORANGE CONSTRUCTION FENCE LOCATIONS SHALL BE STAKED BY A SURVEYOR AND INSTALLATION SHALL BE CONFIRMED BY THE ENGINEER PRIOR TO ANY LAND DISTURBANCE WITHIN 125 FEET OF AN EXISTING WETLAND AND IN AREAS WHERE TREES AND STONE WALLS ARE TO BE PRESERVED.
2. ALL ORANGE CONSTRUCTION FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROTECT SENSITIVE AREAS.
3. THE ORANGE CONSTRUCTION FENCING WILL BE REMOVED UPON FINAL STABILIZATION OF ALL AREAS WITHIN 125 FEET OF FENCING.

## ORANGE CONSTRUCTION FENCE

SCALE: N.T.S.

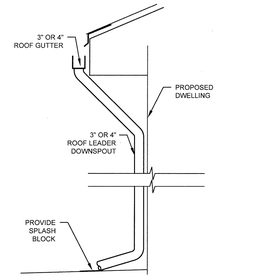



NOTES:

1. SILT FENCE TO BE MAINTAINED IN PLACE DURING CONSTRUCTION AND SOIL STABILIZATION PERIOD.
2. SILT SHALL BE REMOVED WHEN HEIGHT OF SILT EXCEEDS 1/2 OF THE EXPOSED SILT FENCE HEIGHT

## SILT FENCE

SCALE: N.T.S.




NOTES:

1. IN ACCORDANCE WITH NYSDEC STORMWATER GREEN INFRASTRUCTURE REQUIREMENTS, ALL ROOF LEADER DOWNSPOUTS SHALL DISCHARGE EFFLUENT ALONG THE SURFACE FOR INFILTRATION.
2. CONNECTION OF ROOF LEADERS TO CLOSED SYSTEMS IS PROHIBITED.
3. HOMEOWNERS SHALL MAINTAIN SPLASH BLOCK LAWN AREA AS SHOWN ON THE PLANS TO PROVIDE INFILTRATION OF STORMWATER ROOF RUNOFF.

## ROOF LEADER AND SPLASH PAD

SCALE N.T.S.

## SOIL RESTORATION NOTES

| 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 |
| Areas where topsoil is stripped only - no change in grade | HSG A &B<br>apply 6 inches of topsoil | HSG C&D<br>Aerate* and apply 6 inches of topsoil | Protect area from any ongoing construction activities. |
| Areas of cut or fill | HSG A &B<br>Aerate and apply 6 inches of topsoil | HSG C & D<br>Apply full Soil 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 (de-compaction and compost enhancement) | | |
| Areas where Runoff Reduction and/or Infiltration practices are applied | Restoration not required, but may be applied to enhance the reduction specified 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 redevelopment projects in areas where existing impervious area will be converted to pervious area. | | |

* Aeration includes the use of machines such as tractor-drawn implements with coulters making a narrow slit in the soil, a roller with many spikes making indentations in the soil, or prongs which function like a mini-subsoiler.

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

# EROSION AND SEDIMENTATION CONTROL NOTES

1. SITE DISTURBANCE SHALL BE LIMITED TO THE MINIMUM NECESSARY GRADING AND VEGETATION REMOVAL REQUIRED FOR CONSTRUCTION.
2. TEMPORARY EROSION CONTROL MEASURES, INCLUDING SILT FENCES AND/OR STRAW BALE DIKES, SEDIMENT BASIN, TEMPORARY DIVERSION SWALE DRAINAGE STRUCTURES, AND RIP-RAP PROTECTION SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE FOR GRADING AND CONSTRUCTION.
3. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL FOLLOWING DISTURBANCE TO STABILIZE BARE SOIL AND PROMOTE THE PROMPT RE-ESTABLISHMENT OF VEGETATION.
   - 3.1. AN ADEQUATE SEEDBED SHALL BE PREPARED BY SCARIFYING COMPACTED SOIL AND REMOVING SURFACE DEBRIS AND OBSTACLES.
   - 3.2. LIME SHALL BE APPLIED SUFFICIENTLY TO ATTAIN A SOIL ACIDITY PH OF 6.0 TO 7.0.
   - 3.3. FERTILIZER (5-10-10 MIXTURE OR EQUIVALENT) SHALL BE APPLIED PER SOIL TEST RESULTS OR AT A RATE OF 600 LBS. PER ACRE.
   - 3.4. DISTURBED AREAS WHICH WILL REMAIN TEMPORARILY FALLOW FOR PERIODS GREATER THAN 30 DAYS SHALL BE SEEDED AT THE FOLLOWING RATE TO PRODUCE TEMPORARY GROUND COVER: 30 LBS. RYEGRASS (ANNUAL OR PERENNIAL) PER ACRE. DURING THE WINTER, USE 100 LBS. CERTIFIED "AROOSTOOK" WINTER RYE (CEREAL RYE) PER ACRE.
   - 3.5. PERMANENT SEEDING SHALL BE APPLIED ON 4" MIN TOPSOIL AT THE FOLLOWING RATE:
     8 LBS EMPIRE BIRDSFOOT TREFOIL OR COMMON WHITE CLOVER PER ACRE PLUS
     20 LBS TALL FESCUE PER ACRE PLUS
     2 LBS REDTOP OR 5 LBS RYEGRASS (PERENNIAL) PER ACRE.
   - 3.6. ALL SEEDING SHALL BE PERFORMED USING THE BROADCAST METHOD OR HYDROSEEDING, UNLESS OTHERWISE APPROVED.
   - 3.7. ALL DISTURBED AREAS SHALL BE STABILIZED SUBSEQUENT TO SEEDING BY APPLYING 2 TONS OF STRAW MULCH PER ACRE. STRAW MULCH SHALL BE ANCHORED BY APPLYING 750 LBS OF WOOD FIBER MULCH PER ACRE WITH A HYDROSEEDER, OR TUCKING THE MULCH WITH SMOOTH DISCS OR OTHER MULCH ANCHORING TOOLS TO A DEPTH OF 3". MULCH ANCHORING TOOLS SHALL BE PULLED ACROSS SLOPES ALONG TOPOGRAPHIC CONTOURS.
4. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DRAINAGE STRUCTURES SHALL BE INSPECTED FOLLOWING EVERY RAIN EVENT, AND MAINTENANCE AND REPAIRS SHALL BE PERFORMED PROMPTLY TO MAINTAIN PROPER FUNCTION. TRAPPED SEDIMENT SHALL BE REMOVED AND DEPOSITED IN A PROTECTED AREA IN A PROPER MANNER WHICH WILL NOT RESULT IN EROSION.
5. TEMPORARY CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED AND GROUND COVER IS COMPLETELY REESTABLISHED. FOLLOWING STABILIZATION, TEMPORARY MEASURES SHALL BE REMOVED TO AVOID INTERFERENCE WITH DRAINAGE.
6. ALL STORM INLETS TO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION.
7. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN SUFFICIENT QUANTITIES.
8. MULCH NETTING SUCH AS PAPER, JUTE, EXCELSIOR, COTTON OR PLASTIC MAY BE USED. STAPLE IN PLACE. OVER HAY OR STRAW MULCH. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
9. STABILIZATION OF STEEP SLOPES SHALL BE ACHIEVED BY APPLYING LIME AND FERTILIZER AS SPECIFIED ABOVE AND SEEDING WITH THE FOLLOWING MIXTURE:

| MATERIAL | LBS /ACRE |
|---|---|
| PERENNIAL RYE GRASS | 30 |
| CROWN VETCH | 12 |
| SPREADING FESCUE | 25 |

10. OPTIMUM SEEDING PERIODS ARE 3/15-6/1 AND 8/1-10/15.
11. ALL UPSTREAM SITE WORK AND STABILIZATION SHALL OCCUR BEFORE CONNECTING UNDERGROUND DETENTION/INFILTRATION FACILITY TO PREVENT ANY ERODED SEDIMENTS FROM ENTERING UNDERGROUND FACILITY.
12. IN ACCORDANCE WITH THE NYSDEC SPDES GP 0-20-001, THERE SHALL BE NO MORE THAN 5 ACRES DISTURBED AT ANYONE TIME.

# EARTHWORK CONSTRUCTION NOTES

1. ALL WORK TO BE PERFORMED TO THE SPECIFICATIONS OF THE TOWN OF NEWBURGH.
2. ALL TOPSOIL, ROOTS, STUMPS AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM ALL CONSTRUCTION AREAS.
3. ALL FILL FOR POND CONSTRUCTION, BELOW BUILDINGS AND PAVEMENT TO BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
4. CELLAR, ROOF AND FOOTING DRAINS SHALL CONNECT TO THE STORM DRAINAGE SYSTEM OR OTHER FREE-FLOWING OUTLET AT A MINIMUM SLOPE OF 0.5%. FOOTING DRAIN SHALL BE INSTALLED BENEATH BOTTOM OF FOOTING.
5. COMPLETION OF GRADING AND BASIN, BERMS AFTER OCTOBER 15 SHALL REQUIRE MULCHING AND ANCHORING IN ACCORDANCE WITH NOTES ENTITLED "SEDIMENTATION EROSION CONTROL".
6. ALL SLOPES IN EXCESS OF 3H:1V SHALL BE CONSTRUCTED WITH LOCALLY AVAILABLE GLACIAL TILL. THE EMBANKMENT FILL SHALL BE PLACED IN SIX-INCHTHICK LIFTS. EACH LIFT SHALL BE PLACED AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
7. CONSTRUCT POND EMBANKMENT WITH LOCALLY AVAILABLE GLACIAL TILL WITH 3H:1V SIDE SLOPES OR AS NOTED ON PLAN. THE EMBANKMENT FILL SHALL BE PLACED IN A SIX-INCH THICK CONTINUOUS LAYER OVER THE ENTIRE LENGTH EACH LIFT SHALL BE PLACED AT OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
8. STABILIZATION OF POND BERMS, AND ALL SLOPES IN EXCESS OF 3H:1V IN ACCORDANCE WITH "EROSION AND SEDIMENTATION CONTROL NOTES".
9. ALL POND OUTLETS SHALL HAVE SEEPAGE CONTROL COLLARS PLACED AT 1/3 AND 2/3 THE WIDTH OF THE EMBANKMENT.
10. SOIL RESTORATION SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL REMAIN AS PERVIOUS SURFACES. SOIL RESTORATION SHALL CONSIST OF THE FOLLOWING:
    - 10.A. APPLY 3 INCHES OF COMPOST OVER SUBSOIL
    - 10.B. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, MIXING AND CIRCULATING AIR AND COMPOST INTO SUB-SOILS.
    - 10.C. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
    - 10.D. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.

# SEQUENCE OF CONSTRUCTION ACTIVITY

1. PRE-CONSTRUCTION: NOTIFY APPROPRIATE MUNICIPAL AND UTILITY OFFICIALS 3 DAYS PRIOR TO START OF CONSTRUCTION.
2. CONSTRUCTION STAGING: STAKE OUT LIMIT OF DISTURBANCE. INSTALL SILT FENCE DOWNHILL OF PROPOSED CONSTRUCTION. INSTALL ORANGE CONSTRUCTION FENCING ALONG THE LIMITS OF DISTURBANCE. INSTALL STABILIZED CONSTRUCTION ENTRANCE(S). INSTALL PERMANENT / TEMPORARY GRASSED SWALES.
3. CLEARING AND GRUBBING: REMOVE VEGETATION FROM AREA OF CONSTRUCTION. STRIP TOPSOIL AND STOCKPILE IN AREAS SHOWN ON THE PLAN. INSTALL SEDIMENT SEDIMENT BARRIERS AROUND AND ESTABLISH TEMPORARY VEGETATION ON TOPSOIL STOCKPILES.
4. ROUGH GRADING: CUT AND FILL SITE TO APPROXIMATE ELEVATIONS SHOWN ON THE PLAN. IMPLEMENT DUST CONTROL MEASURES AS NECESSARY. ESTABLISH PERMANENT STABLIZATION IN AREAS THAT ARE COMPLETE. ESTABLISH TEMPORARY STABLIZATION ON AREAS THAT WILL BE GRADED AGAIN MORE THAN 21 DAYS FROM LAST DISTURBANCE.
5. DRIVEWAY / BUILDING CONSTRUCTION AND UTILITY INSTALLATION: FINAL GRADING AND CONSTRUCTION OF DRIVEWAYS. BUILDING EXCAVATION AND CONSTRUCTION. INSTALL UTILITIES. ENSURE ALL EROSION CONTROL MEASURES ARE IN WORKING ORDER.
6. FINAL GRADING AND LANDSCAPING: COMPLETE FINE GRADING OF SITE. SPREAD TOPSOIL AND PREPARE FOR PERMANENT SEEDING AND PLANTING. ESTABLISH PERMANENT VEGETATION IN ALL REMAINING UNSTABILIZED AREAS. INSTALL ALL SITE LANDSCAPING AND PLANTINGS.
7. POST CONSTRUCTION: UPON STABILIZATION OF THE SITE AND ESTABLISHMENT OF ALL VEGETATION COVER, REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES SUCH AS SILT FENCE. REMOVE ALL SILT AND DEBRIS FROM THE SITE INCLUDING ROADWAYS, CATCH BASINS AND STORM DRAINS.

| No. | DATE | DESCRIPTION |
|---|---|---|
| 0 | 04/05/21 | INITIAL SUBMISSION |
| 1 | 05/07/21 | REVISED PER PB ENGINEER COMMENTS 04/09/21 |

| DRAWING STATUS | ISSUE DATE: 05/07/21 | | |
|---|---|---|---|
| THIS SHEET IS PART OF THE PLAN SET ISSUED FOR | SHEET NUMBER | | |
| ☐ CONCEPT APPROVAL | N/A | OF | N/A |
| ☑ PLANNING BOARD APPROVAL | 4 | OF | 4 |
| ☐ OCDOH REALTY SUBDIVISION APPROVAL | N/A | OF | N/A |
| ☐ OCDOH WATERMAIN EXTENSION APPROVAL | N/A | OF | N/A |
| ☐ NYSDEC APPROVAL | N/A | OF | N/A |
| ☐ NYSDOT APPROVAL | N/A | OF | N/A |
| ☐ OTHER | N/A | OF | N/A |
| ☐ FOR BID | N/A | OF | N/A |
| ☐ FOR CONSTRUCTION | N/A | OF | N/A |

THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE.
THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).



STATE OF NEW YORK · ROSS A. WINGLOVITZ · 071701 · LICENSED PROFESSIONAL ENGINEER

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NEW YORK LICENSE # 071701

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ORIGINAL SCALE IN INCHES



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EROSION CONTROL DETAILS & NOTES

HANOVER ROUTE 32 SUBDIVISION
NYS ROUTE 32
TOWN OF NEWBURGH
ORANGE COUNTY, NEW YORK

| | | | |
|---|---|---|---|
| JOB #: 1051.11 | DRAWN BY: RMB | | |
| DATE: 04/05/21 | SCALE: AS NOTED | | C-301 |
| REVISION 1 - 05/07/21 | TAX LOT: 2-1-57.2 | | |