

CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

1. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS: STEEL EITHER T OR U TYPE POSTS AT TOP AND MID SECTION.

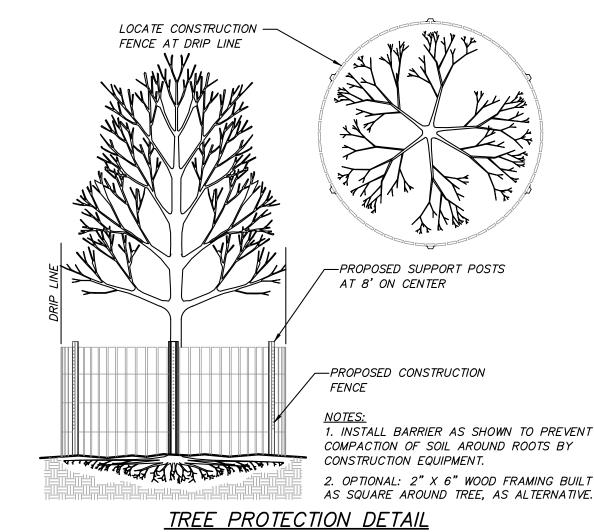
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. 3. MAINTENANCE SHALL BE PERFORMED AS NEEDED

AND MATERIAL REMOVED WHEN "BULGES"

DEVELOP IN THE SILT FENCE.

OR 2" HARDWOOD FILTER CLOTH: FILTER X. MIRAFI 100X. STABILINKA T140N. OR APPROVED EQUAL PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED

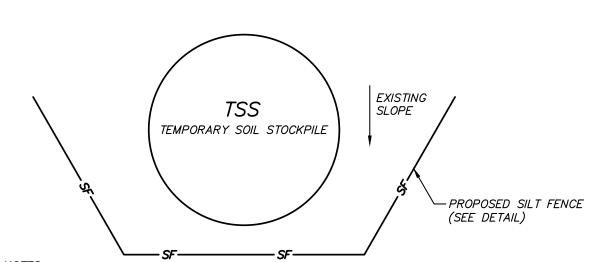
SILT FENCE DETAIL (N. T. S.)



(N.T.S.)

TREE PROTECTION NOTES:

- 1. Trees to be preserved in proximity to disturbance areas shall be marked in the field by the Landscape Architect prior to start of construction.
- 2. Install tree protection measures prior to start of site clearing & construction.
- 3. No construction equipment shall be parked and no earth or construction materials shall be stockpiled or stored under the canopy of trees to be
- 4. During tree removal operations associated with construction, do not damage adjacent trees to remain. Lower limbs and tree trunks, do not
- 5. Carefully tie back any tree branches that conflict with construction
- 6. Where trenching for utilities is required within a root zone, tunneling under and around roots shall be by hand digging. If roots 3" or larger are encountered immediately adjacent to the location of new construction and relocation is not practical, the roots shall be hand pruned under the supervision of a Certified Arborist or Landscape Architect to 6" back from the new construction limit. All exposed roots to receive appropriate treatment prior to backfilling.
- 7. If tree protection fencing to protect the root zone is not possible, six to eight inches of wood chip mulch and 3/4 inch plywood shall be placed over the entire affected root zone area to prevent soil compaction.
- 8. Any tree damaged during construction activities must be immediately repaired by a qualified arborist at no additional cost to the owner.



1. AREA CHOSEN FOR STOCKPILE LOCATION SHALL BE DRY AND STABLE. 2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.

3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE IMMEDIATELY SEEDED WITH K31 PERENNIAL TALL FESCUE.

4. ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING INSTALLED ON THE

TEMPORARY SOIL STOCKPILE DETAIL (N.T.S.)

-----12' MIN. WIDTH ----3 in. CLEAN STONE - COMPACTED SUBGRADE - MIRAFI 600X FILTER FABRIC, OR APPROVED EQUAL START AT EXIST PAVEMENT

INSTALLATION NOTES

- 1. STONE SIZE USE 3" STONE
- 2. LENGTH AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY.)

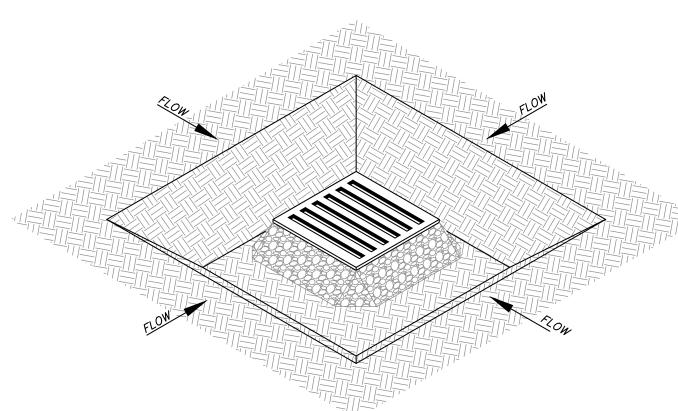
<u>PLAN</u>

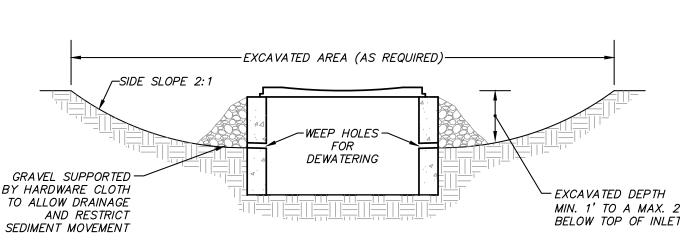
- 3. THICKNESS NOT LESS THAN SIX (6) INCHES.
- 4. WIDTH 12 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCUR.
- 5. FILTER CLOTH WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE. FILTER CLOTH WILL NOT BE REQUIRED ON A SINGLE FAMILY
- 6. SURFACE WATER ALL 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.
- 7. MAINTENANCE THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY THIS MAY REQUIRE 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
- 8. WASHING WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE. 9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER

(N.T.S.)

STABILIZED CONSTRUCTION ENTRANCE DETAIL

PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.





1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION 2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN 3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL

4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES. FILL EXCAVATION WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY, AND STABILIZE WITH PERMANENT SEEDING 5. MAXIMUM DRAINAGE AREA = 1 ACRE

EXCAVATED DROP INLET PROTECTION DETAIL (N. T. S.)

REQUIRED EROSION CONTROL SWPPP CONTENTS:

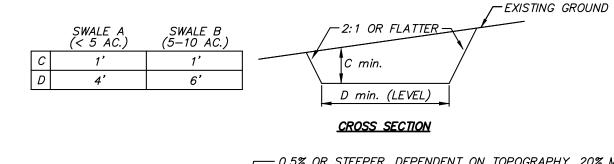
Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-20-001), all Stormwater Pollution Prevention Plan's (SWPPP) shall include erosion and sediment control practices designed in conformance with the most current version of the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." Where erosion and sediment control practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of required SWPPP components is provided in accordance with Part III.B.1a—I of Ğeneral Permit GP-0-20-001:

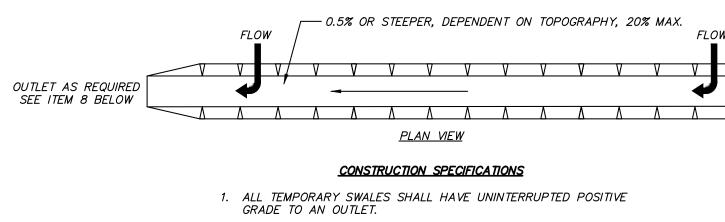
- a. Background Information: The subject project consists of the construction of (7) townhome buildings with appurtenances and utilities.
- b. Site map / construction drawing: These plans serve to satisfy this SWPPP
- c. Description of the soils present at the site: Onsite soils located within the proposed limits of disturbance consist of Bernardston Silt Loam (BeB), Canandiqua Silt Loam (Ca), and Nassau—Cardigan Complex (NwC) as identified on the Soil Conservation Service Websoil Survey. These soil types belong to the Hydrologic Soil Group "C/D" and "D"."
- d. Construction phasing plan / sequence of operations: The Construction Sequence and phasing found on these plans provide the required phasing. A Construction Sequence and Erosion and Sediment Control Maintenance Schedule has been provided. The Sedimentation and Erosion Control Notes contained hereon outline a general sequence of operations for the proposed project. In general all erosion and sediment control facilities shall be installed prior to commencement with land disturbing activities, and areas of disturbance shall be limited to the shortest period of time as
- e. Description of erosion and sediment control practices: This plan, and details / notes shown hereon serve to satisfy this SWPPP requirement.
- f. Temporary and permanent soil stabilization plan: The Sedimentation and Erosion Control Notes and Details provided heron identify temporary and permanent stabilization measures to be employed with respect to specific elements of the project, and at the various stages of development.
- g. Site map / construction drawing: This plan set serves to satisfy this SWPPP requirement.

h. The dimensions, material specifications, installation details, and operation and maintenance requirements for all erosion and sediment control practices: The details, Erosion and Sediment Control Notes, and Erosion and Sediment Control Maintenance Schedule serve to satisfy this SWPPP requirement.

- i. An inspection schedule: Inspections are to be performed twice weekly and by a qualified professional as required by the General Permit GP-0-20-001. In addition the NYSDEC Trained Contractor shall perform additional inspections as cited in the Erosion and Sediment Control Notes.
- j. A description of pollution prevention measures that will be used to control litter, construction chemicals and construction debris: In general, all construction litter / debris shall be collected and removed from the site. The general contractor shall supply either waste barrels or dumpster for proper waste disposal. Any construction chemicals utilized during construction shall either be removed from site daily by the contractor or stored in a structurally sound and weatherproof building. No hazardous waste shall be disposed of onsite, and shall ultimately be disposed of in accordance with all federal, state and local regulations. Material Safety Data Sheets (MSDS), material inventory, and emergency contact numbers shall be maintained by the general contractor for all construction chemicals utilized onsite. Finally, temporary sanitary facilities (portable toilets) shall be provided onsite during the entire length of construction, and inspected weekly for evidence of leaking holding tanks.
- k. A description and location of any stormwater discharges associated with industrial activity other than construction at the site. There are no known industrial stormwater discharges present or proposed at the site.

I. Identification of any elements of the design that are not in conformance with the technical standard, "New York Standards and Specifications for Erosion and Sediment Control." All proposed elements of this SWPPP have been designed in accordance with the "New York Standards and Specifications for Erosion and Sediment Control."





- 2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED
- TO A SEDIMENT TRAPPING DEVICE. 3. DIVERTED RUNOFF FROM AN UNDISTURBED AREA SHALL OUTLET
- DIRECTLY INTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE 4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS. AND OTHER OBJECTION—
- ABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE. 5. THE SWALE 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 IRREGULAR-ITIES WHICH WILL IMPEDE NORMAL FLOW. 6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
- 7. ALL EARTH REMOVED AND NOT NEEDED ON CONSTRUCTION SHALL BE PLACED SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF
- 8. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PRO-VIDED AFTER EACH RAIN EVENT. 9. STABILIZATION SHALL BE AS PER THE CHART BELOW:

FLOW CHANNEL STABILIZATION

TYPE OF <u>TREATMENT</u>	CHANNEL <u>GRADE</u>	A (5 AC. OR LESS)	<u>B (5–10 AC.)</u>
1	0.5-3.0%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3.1-5.0%	SEED AND STRAW MULCH	SEED USING JUTE OR EXCELSIOR
3	5.1-8.0%	SEED WITH JUTE OR EXCELSIOR; SOD	LINED RIP-RAP 4-8" RECYCLED CONCRETE EQUIVALENT
4	8.1-20%	LINED 4-8" RIP-RAP	ENGINEERED DESIGN

TEMPORARY SWALE DETAIL

REQUIRED POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICE COMPONENTS:

- 1. Pursuant to the NYSDEC "SPDES General Permit for Stormwater Discharges from Construction Activity" (GP-0-20-001), all construction projects needing post-construction stormwater management practices shall prepare a SWPPP that also includes practices designed in conformance with the most current version of the technical standard, New York State Stormwater Management Design Manual ("Design Manual"). Where post-construction stormwater management practices are not designed in conformance with this technical standard, the owner or operator must demonstrate equivalence to the technical standard. The following list of SWPPP components is provided in accordance with Part III.B.2a-g and III.B.3:
- a. Identification of all post-construction stormwater management practices to be constructed as part of the project; This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.
- b. A site map/construction drawing(s) showing the specific location and size of each post-construction stormwater management practice; This plan, and details/notes shown hereon serve to satisfy this SWPPP requirement.

A Stormwater Modeling and Analysis Report including pre-development conditions, post-development conditions, the results of the stormwater modeling, a summary table demonstrating that each practice has been designed in conformance with the sizing criteria, identification of and justification for any deviations from the Design Manual, and

c. Soil testing results and locations. This SWPPP requirement will be provided in the Preliminary Stormwater Pollution Prevention Plan.

identification of any design criteria that are not required. The required analysis will be

provided in a Preliminary Stormwater Pollution Prevention Plan.

- d. Infiltration testing results. This SWPPP requirement will be provided in the Preliminary Stormwater Pollution Prevention Plan. e. 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. The Permanent Stormwater Facilities Maintenance Schedule provided on these plans serves to satisfy this requirement.
- 2. Enhanced Phosphorus Removal Standards Beginning on September 30, 2008, 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 Enhanced Phosphorus Removal Standards included in the most current version of the technical standard. New York Stormwater Manaaement Desian Manual. At a minimum. the post-construction stormwater management practice component of the SWPPP shall include items 2.a — 2.f above: These standards do not apply to the subject

<u>EROSION & SEDIMENT CONTROL NOTES:</u>

- 1. The Erosion and Sediment Control Plan is only to be referred to for the installation of erosion and sediment control measures. For all other construction related activities, including, but not limited to, grading and utilities, refer to the appropriate
- 2. Each contractor or subcontractor responsible for soil disturbance shall have a NYSDEC trained contractor onsite during soil disturbing activities. The NYSDEC trained contractor will be responsible to comply with the stormwater pollution prevention plan and for the implementation and maintenance of erosion and sediment control measures on this site prior to and during construction. The NYSDEC trained contractor shall sign a certification statement required by GP-0-20-001.
- 3. All construction activities involving the removal or disposition of soil are to be provided with appropriate protective measures to minimize erosion and contain sediment disposition within. Minimum soil erosion and sediment control measures shall be implemented as shown on the plans and shall be installed in accordance with "New York Standards and Specifications For Erosion and Sediment Control," latest
- 4. Wherever feasible, natural vegetation should be retained and protected. Disturbance shall be minimized in the areas required to perform construction. No more than 5 acres of unprotected soil shall be exposed at any one time, unless prior authorization is granted by the MS4.
- 5. When land is exposed during development, the exposure shall be kept to the shortest practical period of time, but in no case more than 7 days after the construction activity in that portion of the site has ceased. Disturbance shall be minimized in the
- 6. All construction vehicles shall be kept clear of the watercourses and wetland control areas outside the areas of proposed development. Silt fence and orange construction fence shall be installed in the areas where the grading is in close proximity of the watercourses or wetland control areas.
- 7. The stabilized construction entrance and silt fence shall be installed as shown on the plans prior to beginning any clearing, grubbing or earthwork.
- 8. All topsoil to be stripped from the area being developed shall be stockpiled and immediately seeded with a rye grass mixture having a quick germination time.
- 9. Any graded areas not subject to further disturbance or construction traffic shall, within 7 days of final grading, receive permanent vegetation cover in combination with a suitable mulch. Refer to "Site Seeding Notes" for additional detail and application rate.
- 10. Grass seed mix may be applied by either mechanical or hydroseeding methods. Turf establishment shall be performed in accordance with the current edition of the "NYSDOT Standard Specification, Construction and Materials, Section 610-3.02, Method No. 1"
- 11. Cut or fill (all) slopes steeper than 3:1 shall be stabilized immediately after grading with a rolled erosion control product (RECP) such as, Curlex I Single Net Erosion Control Blanket, or approved equal.
- 12. Paved roadways shall be kept clean at all times.

areas required to perform construction

- 13. The site shall at all times be graded and maintained such that all stormwater runoff is diverted to soil erosion and sediment control facilities.
- 14. All storm drainage outlets shall be stabilized, as required, before the discharge
- points become operational. 15. Stormwater from disturbed areas must be passed through erosion control barriers

before discharge beyond disturbed areas or discharged into other drainage systems.

- 16. Erosion and sediment control measures shall be inspected and maintained on a daily basis by the NYSDEC Trained Contractor, to insure that channels, temporary and permanent ditches and pipes are clear of debris, that embankments and berms have not been breached and that all straw bales and silt fences are intact. Any failure of erosion and sediment control measures shall be immediately repaired by the contractor and inspected for approval by the site engineer.
- 17. Dust shall be controlled by sprinkling or other approved methods as necessary, or as directed by the trained contractor or site engineer.
- 18. Cut and fills shall not endanger adjoining property, nor divert water onto the property
- to prevent settlement 20. The NYSDEC Trained Contractor shall inspect downstream conditions for evidence of

19. All fills shall be placed and compacted in 6" lifts to provide stability of material and

- sedimentation on a weekly basis and after rainstorms. 21. As warranted by field conditions, special additional erosion and sediment control measures, as specified by the site engineer and the Town Engineer shall be installed by
- 22. Erosion and sediment control measures shall remain in place until all disturbed areas are suitably stabilized.
- 23. After completion of the site improvements, the owner will assume responsibility for maintenance of the access drive, parking lot, drainage system and stormwater facilities. Each spring the paved areas shall be cleaned to remove the winter accumulation of traction sand. After this is completed all drain inlet and catch basin sumps should be cleaned. All pipes should be checked for debris and blockage and cleaned as required. During the cleaning process, the drain inlets, catch basins and pipes should be inspected for structural integrity and overall condition. Repairs and/or replacements should be made as required.

24. Inspection of the stormwater basin should be performed every 6 months and after

- large storm events. These inspections should, at a minimum, check the outlet pipes for blockage and the general overall integrity of the basin and appurtenances.
- 25. Maintain basin vegetation including removal of trees and replacement of vegetation that should die. Remove any litter which accumulates as necessary. Typically, the accumulated silt will be required to be removed every 10 to 20 years. Any accumulated silt shall be removed from the stormwater basins once the site has been stabilized.
- 26. Refer to the Stormwater Pollution Prevention Plan for additional details regarding long—term maintenance of the storm drainage facilities.

MONIT	ORING RE	QUIREMEN	MAINTENANCE REQUIREMENTS		
PRACTICE	DAILY	WEEKLY	AFTER RAINFALL	DURING CONSTRUCTION	AFTER CONSTRUCTION
SILT FENCE BARRIER	_	Inspect	Inspect	Clean/Replace	Remove
STABILIZED CONSTRUCTION ENTRANCE	Inspect	-	Inspect	Clean/Replace Stone and Fabric	Remove
DUST CONTROL	Inspect	-	Inspect	Mulching/ Spraying Water	N/A
*VEGETATIVE ESTABLISHMENT	_	Inspect	Inspect	Water/Reseed/ Remulch	Reseed to 80% Coverage
INLET PROTECTION	_	Inspect	Inspect	Clean/Repair/ Replace	Remove
SOIL STOCKPILES	_	Inspect	Inspect	Mulching/ Silt Fence Repair	Remove
SWALES	_	Inspect	Inspect	Clean/Mulch/ Repair	Mow Permanent Grass/Replace/ Repair Rip Rap
CHECK DAMS	_	Inspect	Inspect	Clean/Replace Stones/Repair	Clean/Replace Stones/Repair
CONCRETE DRAINAGE STRUCTURES	_	Inspect	Inspect	Clean Sumps/ Remove Debris/ Repair/Replace	Clean Sumps/ Remove Debris/ Repair/Replace
DRAINAGE PIPES	_	Inspect	Inspect	Clean/Repair	Clean/Repair
ROAD & PAVEMENT	_	Inspect	Inspect	Clean	Clean

* Permanent vegetation is considered stabilized when 80% of the plant density is established. Erosion control measures shall remain in place until all disturbed areas area permanently stabilized. Note: The party responsible for implementation of the maintenance schedule during and after construction is:

- BEACON VIEWS, LLC
- 500 RIVER AVENUE WAKEFIELD, NEW JERSEY 08701
- and/or the current owner(s) of the subject property.

(ONSITE SOILS WITHIN THE LIMIT OF DISTURBANCE BELONG TO THE HYDROLOGIC SOIL GROUP (HSG) C/D) TYPE OF SOIL DISTURBANCE SOIL RESTORATION REQUIREMENT COMMENTS/EXAMPLES							
			COMMENTS/EXAMPLES Preservation of Natural Feature				
No soil disturbance	Restoration not	t permitted					
Minimal soil disturbance	Restoration not required		Clearing and grubbing				
Areas where topsoil is	HSG A & B	HSG C & D	Protect area from any				
tripped only — no hange in grade	Apply 6" of topsoil	Aerate ³ and apply 6" of topsoil	ongoing construction activities				
	HSG A & B	HSG C & D					
Areas of cut or fill	Aerate ³ and apply 6" of topsoil	Apply full Soil Restoration⁴					
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 (de-compaction enhancement) ⁶						
Areas where runoff reduction and/or infiltration practices are applied	Restoration not may be applied practices.	t required, but I for appropriate	Keep construction equipment from crossing these areas. To protect newly installed practices from any ongoing construction activities construction a single phase operation fence area.				
Redevelopment projects	redevelopment	is required on projects in areas impervious area ed to pervious					

Items struck out on the table are items that are not applicable to this project. 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 functions like a mini-subsoiler. 4. Per "Deep Ripping and Decompaction, DEC 2008"

5. During periods of relatively low to moderate subsoil moisture, the disturbed soils are returned to

rough grade and the following Soil Restoration steps applied: Apply 3 inches of compost over subsoil. 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 subsoils. 5.3. Rock-pick until uplifted stone/rock materials of four inches and larger size area

cleaned off the site. 5.4. Apply topsoil to a depth of 6 inches. Vegetate as required by Erosion & Sediment Control Note #9. 5.6. Tilling should not be performed within the drip line of any existing trees or over any

utility installations that are within 24 inches of the surface 6. Compost shall be aged, from plant derived materials, free of viable weed seeds, have no visible free water or dust produced when handling, pass through a half inch screen and have a pH suitable to grow desired plants.

> RESUBMISSION TO PLANNING BOARD 1 4-28-20 DATE Carmel, NY 10512 (845) 225-9690 (845) 225-9717 fax LANDSCAPE ARCHITECTURE, P.C. www.insite-eng.com BEACON VIEWS CITY OF BEACON, DUTCHESS COUNTY, NEW YORK DRAWING NO.

> > | MANAGER

CHECKED

J.F.R.

19131.100

AS NOTED

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.