

Sheet Flow to Forested Filter Strip Construction Checklist

This checklist has been developed for BMPs designed in accordance with the Delaware Sediment and Stormwater Program's Post Construction Stormwater BMP Standards and Specifications. Submit interim versions of this construction checklist to the approval agency weekly with the Certified Construction Reviewer report. Submit the final completed checklist with the PCVD.

PROJECT INFORMATION

Project Name/BMP Name: _____

Project Approval Number: _____ NOI number: _____

Location: _____

Contractor: _____

Construction Reviewer: _____

Supervising P.E.: _____

For each checklist item, enter in the blank the date (MM/DD/YY) the item is completed and verified by the construction reviewer. If an item is not applicable, enter "N/A" in the blank for that checklist item.

I. Pre-Construction

A. _____ Forested filter strip field meeting with responsible person and person completing construction checklist

B. _____ Extents of forested filter strip (to include gravel diaphragm/engineered level spreader area) delineated and forested area protected to have no grading or clearing of native vegetation.

C. _____ Pervious areas draining to the forested filter strip stabilized in accordance with the approved plans.

D. _____ Pipe and appurtenances on-site and dimensions and properties checked and confirmed to be in accordance with the approved plan.

i. _____ Permeable berm discharge pipe

ii. _____ Other; list: _____

E. _____ Materials on-site and dimensions and properties checked and confirmed to be in accordance with the approved plan. ***Submit materials invoice or delivery tickets to approval agency as part of PCVD for the following items:***

i. _____ Clean, washed gravel for gravel diaphragm

ii. _____ Clean, washed gravel for level spreader

iii. _____ Clean, washed gravel for permeable berm

iv. _____ Geotextile fabric (Flow rate > 110 gal/min/sf)

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- v. _____ Soil amendments
- vi. _____ Engineered level spreader
- vii. _____ Permeable berm soil (40% excavated soil, 40% sand, 20% pea gravel)
- viii. _____ Other; list: _____

II. Excavation and Grading

- A. _____ Existing topsoil stripped and stockpiled for later use.
- B. _____ Gravel diaphragm/level spreader excavated to dimensions and at location as per the approved plan.
- C. _____ Gravel diaphragm/level spreader excavated to design bottom elevation.
- D. _____ Gravel diaphragm/level spreader excavated from the sides to not compact the existing soil.
- E. _____ Permeable berm constructed to design elevation and width.

III. Structural Components

- A. _____ Filter fabric placed between the gravel and underlying soil for gravel diaphragm.
- B. _____ Gravel placed with the depth in accordance with the approved plan.
- C. _____ Impervious sheet flow to gravel diaphragm has a drop of at least 3”.
- D. _____ Engineered level spreader lip installed with an anchored footer in accordance with the approved plan.
- E. _____ Engineered level spreader constructed so the ends tie back into the slope.
- F. _____ Gravel placed with the depth in permeable berm in accordance with approved plan
- G. _____ Permeable berm outlets constructed with the material, dimensions, location, and elevation in accordance with approved plan.
- H. _____ Photo documentation of construction of structural components taken. ***Submit photo documentation to approval agency as part of PCVD.*** (Photo #: _____)

IV. Vegetative Stabilization

- A. _____ Vegetated areas outside of the forested filter strip have completed the following items. ***Submit soil test report, lime, fertilizer, compost, planting and seed tickets to approval agency as part of PCVD.***
 - i. _____ Soil testing.
 - ii. _____ Application of topsoil to a minimum depth of 4 inches.

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iii. _____ Application of soil amendments including compost, lime and fertilizer in accordance with the recommendations of the soil test or the approved plan.

iv. _____ Application of seed to the soil surface using approved methods.

v. _____ Areas to be planted completed in accordance with the approved plans

vi. _____ Mulch applied in accordance with the approved plan.

B. _____ Forested filter strip at least 80% tree canopy coverage.

C. _____ Photo documentation of landscaping components taken. **Submit photo documentation to approval agency as part of PCVD.** (Photo #: _____)

V. Erosion and Sediment Control

A. _____ Sediment prevented from entering forested filter strip by keeping using perimeter controls as specified on the approved plan.

B. _____ Sediment controls removed once drainage area meets final stabilization standard and before the construction of the gravel diaphragm or level spreader.

VI. Maintenance Access

A. _____ Maintenance access in accordance with the approved plans.

VII. Post Construction Verification

Owner shall submit post construction verification documents to demonstrate that the forested filter strip practice has been constructed within allowable tolerances in accordance with the Approved Sediment and Stormwater Management Plan and accepted by the approving agency.

A. _____ Constructed forested filter strip length confirmed equal to or greater than 90% of the design length once ESC controls are removed.

B. _____ Constructed forested filter strip width confirmed equal to or greater than 90% of the design width once ESC controls are removed.

C. _____ Constructed elevation of all structures confirmed to be within 0.15 foot of the design elevation for:

i. _____ Gravel diaphragm

ii. _____ Engineered level spreader

iii. _____ Permeable berm

iv. _____ Permeable berm discharge pipe

v. _____ Other; list: _____

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VIII. BMP Acceptance

A. _____ Final BMP construction review complete.

B. _____ All BMP punch list items addressed.

C. _____ Forested filter strip is online (stabilized drainage area is entering forested filter strip).

D. _____ As-built survey.

E. _____ PCVD submitted to approval agency for review and approval. Submit the following pieces of PCVD documentation to the approval agency:

- Materials invoice or delivery tickets
- Photo documentation
- Soil test report
- Compost lime, fertilizer, and seed tickets
- As-built survey
- Final, completed BMP Construction Checklist