Sheet Flow to Grassed 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._____Grassed filter strip field meeting with responsible person and person completing construction checklist.

B._____Extents of grassed filter strip (to include gravel diaphragm/engineered level spreader area) delineated and access by equipment with tracked vehicles for the construction of the filter strip to prevent compaction of existing soils.

C._____Equipment on the site large enough to excavate grassed filter strip from the sides of the facility.

D._____Pervious areas draining to the grassed filter strip stabilized in accordance with the approved plans.

E._____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: _____

F._____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

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iii._____ Clean, washed gravel for permeable berm

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

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._____Excavation for gravel diaphragm/level spreader to dimensions, bottom elevation, and at location as per the approved plan.

C._____Gravel diaphragm/level spreader excavated from the sides to not compact the existing soil.

D._____Grassed filter strip graded, as per the approved plan.

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 #: _____)

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Construction Reviewer:_____

IV. Vegetative Stabilization

A._____Vegetated areas 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.

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._____Grassed filter strip achieved 90% germination and as per the approved plan

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 grassed 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 grassed 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 grassed filter strip slope confirmed no greater than 2% steeper than the design slope once ESC controls are removed.

B._____Constructed grassed filter strip length confirmed equal to or greater than 90% of the design length once ESC controls are removed.

C._____Constructed grassed filter strip width confirmed equal to or greater than 90% of the design width once ESC controls are removed.

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D._____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:_____

VIII. BMP Acceptance

A._____Final BMP construction review complete.

B._____All BMP punch list items addressed.

C._____Grassed filter strip is online (stabilized drainage area is entering grassed 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