



Construction Inspection

Checklist:

Spec 11: Filtering Practices

Level 1 _____ **Level 2** _____

Project Name: _____ Plan Number: _____
 Address/Location: _____ LND Number: _____
 Phase/Section: _____ VSMP Permit #: _____
 Contractor & Phone#: _____ Inspector's Name: _____
 Certifying Professional & Phone #*: _____ Date of Inspection: _____

***Certifying professional must be a licensed Professional Engineer (PE), Landscape Architect (LA), or Land Surveyor (LS) in the state of Virginia.**

The following checklist provides a basic outline of the anticipated items for the construction inspection of Filtering Practices. This checklist does not necessarily distinguish between all the design variations and differences in construction between the families of practices. Inspectors should review the plans carefully and adjust these items and the timing of inspection verification as needed to ensure the intent of the design is met. The standard of design of this practice is based on **Virginia Stormwater BMP Clearinghouse** and **Prince William County Design and Construction Standards Manual (DCSM)**.

All items should be checked when completed. Items labeled "Certification of..." must be crossed off, dated and initialed by certifying inspector.

1. Pre-Construction Meeting:		Yes	No	N/A	Date
1.1	Pre-construction meeting with the contractor designated to install the filtering practice and the person completing this checklist has been conducted.				
1.2	Impervious cover has been constructed/installed and area is free of construction equipment, vehicles, material storage, etc.				
1.3	All pervious areas of the contributing drainage areas have been adequately stabilized with a thick layer of vegetation and erosion control measures have been removed.				
1.4	Stormwater has been diverted around the area of filtering practice and perimeter erosion control measures to protect the facility during construction have been installed.				

2. Underground Structural Filter:		Yes	No	N/A	Date
1.1	Horizontal location of BMP is in accordance with the approved plans. Excavation of the filtering practice has achieved proper grades, and the required geometry for the filter media placement. Photo required.				

2.2	No groundwater seepage or standing water is present. Any standing water is dewatered to an acceptable dewatering device, and the design consultant is notified.				
2.3	Placement of the structural housing and verification of internal and external plumbing invert elevations is per approved plans. Photo required.				
2.4	Water-tightness test completed and signed off by contractor or vault supplier.				
2.5	Installation of perforated pipes and other piping per approved plans. Photo required.				
2.6	Filter media installed to required depth per approved plans. Filter Media Type: _____ Depth of Media Filter: _____				
2.7	Connection of inlet and outlet pipes to the site drainage system per approved plans.				
2.8	Top width, height, side slopes of berms used to pond water in surface filter are per approved plans.				
2.9	Elevation of inflow invert _____ ft. Elevation of outflow invert _____ ft. Depth of permanent pool in sediment chamber _____ ft				

3. Surface Filter:		Yes	No	N/A	Date
3.1	Horizontal location of BMP is in accordance with the approved plans.				
3.2	Type of pre-treatment device: (Photo required) _____ _____				
3.3	Excavation of facility has achieved proper grades and required geometry for filter media placement per approved plans.				
3.4	No groundwater seepage or standing water is present. Any standing water is dewatered to an acceptable dewatering device, and the design consultant has been notified.				

3.5	Impermeable geotextile liner is placed per approved plans with no tears, holes or excessive wrinkles.				
3.6	Underdrain size and spacing installed per approved plans. Photo required. Pipe Diameter _____ inches Material _____ Slope _____ Pipe Spacing _____ ft				
3.7	Underdrain fitting & flow splitter/overflow by-pass system are in accordance with approved plans.				
3.8	Observation well(s) and clean-outs installed per approved plans. Number of Observation Wells: _____				
3.9	Perimeter berm height and overflow weir placed per approved plans. Berm height _____ ft. Overflow Weir Height/Length _____ ft.				
3.10	All aggregates (stone, sand, etc, as required conform to specifications on approved plans.				
3.11	Verify filter media per approved plan. Filter Media Type: _____ Depth of Filter Media _____ ft.				
3.12	Surface Cover (vegetation, pea gravel, etc.) per approved plans. Photo required. Type of Cover (turf/pea gravel) _____				
3.13	Elevation at inflow invert _____ ft. Elevation at outflow/overflow invert _____ ft. Elevation at bottom of excavation _____ ft. Elevation of top filter layer _____ ft. Depth of ponding area _____ ft.				
3.14	Follow-up inspection and as-built survey/certification has been scheduled.				
3.15	GPS coordinates have been documented for all filtering practices.				

Comments (Clarification, Deviations, etc.)	Date

All items checked above have been inspected by me (or an individual under my responsible charge) and have been completed to my satisfaction and meet the approved plans (or deviations are noted here).

Signature: _____ Date: _____

Certifying Professional's License Number: _____
(Seal)