



Construction Inspection

Checklist: Spec 7: Permeable Pavement 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 Permeable Pavement Facilities. 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	Walk through with builder/contractor/subcontractor to review the SWPPP (erosion and sediment control plan, the stormwater management plan, and the pollution prevention plan).				
1.2	Pre-construction meeting between the contractor designated to install the permeable pavement and the person completing this checklist has been conducted.				
1.3	Contributing drainage areas are stabilized and are not eroding.				

	2. Excavation	Yes	No	N/A	Date
2.1	Utilities located and marked by local service.				
2.2	Excavated area marked with paint and/or stakes.				
2.3	Excavation size and location conforms to plan.				
2.4	Runoff is diverted around the excavation area to a stabilized conveyance. Photo Required.				
2.5	If excavation is used as a sediment trap: verify that the bottom elevation of the proposed stone reservoir is lower than the bottom elevation of the existing trap.				

2.6	Subgrade surface is free of rocks and roots, and large voids. Any voids should be refilled with the base aggregate to create a level surface for the placement of aggregates and underdrain (if required).				
2.7	For Level 2 permeable pavement, ensure the bottom of the excavation is scarified (3 to 4 inches) prior to placement of stone.				
2.8	No groundwater seepage or standing water is present. Any standing water is dewatered to an acceptable dewatering device.				
2.9	The excavation has achieved the proper elevations, grade (0% slope), and geometry as noted on the approved plans. Photo Required.				
Certification of Excavation Inspection					Date
Inspector certifies the successful completion of the excavation steps listed above.					
Photo required includes:					
<ul style="list-style-type: none"> Excavated area prior to covering with fabric and installation of stone. Include measurement showing depths of excavation. 					

	3. Filter Layer, Underdrain, Stone Reservoir, and Bedding Layer Placement	Yes	No	N/A	Date
3.1	Material Verification: 1.) All aggregates, including as required, the filter layer (choker stone & sand or geotextile), the reservoir layer, and bedding layer conform to specifications as certified by quarry. 2.) Underdrain size and perforations meet the specifications (if required).				
3.2	Sides of excavation covered with geotextile prior to placing stone reservoir aggregate; no tears or holes, or excessive wrinkles are present.				
3.3	Placement of filter layer (or geotextile) and initial layer of reservoir layer aggregates (approximately 2 inches) spread (not dumper) to avoid aggregate segregation.				
3.4	Placement of underdrain, observation wells, and underdrain fittings (45 degree wyes, cap at upstream end, etc.) in accordance with the approved plans. Photo Required.				
3.5	Remaining stone reservoir layer installed. Thickness, placement, compaction and surface tolerances meet specifications and approved plans.				

3.6	Bedding layer installed to proper depth based upon type of pavement to be used.				
Certification of Filter Layer, Underdrain, Stone Reservoir and Bedding Layer Inspection:					Date
<p>Inspector certifies the successful completion of the filter layer, underdrain, stone reservoir, and bedding layer steps listed above. Photos and material tickets for these items are attached.</p> <p>Photo required include:</p> <ul style="list-style-type: none"> • Non-woven geotextile fabric installed on sides; • Non-woven geotextile fabric installed on bottom, unless choker stone and sand installed; • Depth of choker stone and sand (if applicable); • Perforated observation well prior to installation of stone; • Perforated underdrain (if applicable) • Depth of #2 stone installed (if applicable) • Depth of #57 stone installed (if applicable) • Depth of #8 stone installed (if applicable) <p>Material delivery tickets are required to include:</p> <ul style="list-style-type: none"> • Choker stone & sand or geotextile installed at subbase; • Geotextile installed along sides; • #2, #57 and/or #8 stone (as required) 					

	4. Permeable Pavement Installation	Yes	No	N/A	Date
4.1	Paving material installed according to manufacturer or industry specifications for the type of pavement to be used (see VA DEQ Stormwater Design Specification No. 7 for specification guidance).				
Certification of Pavement Installation					Date
<p>Contractor and/or manufacturer certifies that permeable pavement has been placed in accordance with specifications as described in VA DEQ Stormwater Design Specification No. 7.</p> <p>Photo required include:</p> <ul style="list-style-type: none"> • Overall completion of installation; • Observation well with proper cap installed. <p>Material delivery ticket required for pavers or concrete installed.</p>					

	5. Post Construction	Yes	No	N/A	Date
5.1	All erosion and sediment control practices have been removed.				

5.2	Follow-up inspection and as-built survey/certification has been scheduled.				
5.3	GPS coordinates have been documented for all permeable pavement installations on the parcel.				

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)