

Guidance Manual (and other related materials) Update History

Date email sent notifying users of the updates	Description of Changes Made
Wed 09/11/2019 3:41 PM	<p>Guidance Manual:</p> <ul style="list-style-type: none"> • Section 2.11 : Bonds has been updated • Design details: dry well detail has been updated to correct a spelling error • Construction inspection checklists have been updated to clarify the requirements for the BMP precon meeting and the location submittal requirements <p>Other items of note: Videos have been posted to Stormwater Management Facility Inspections webpage to help owners complete their annual inspections</p>
Wed 05/01/2019 3:57 PM	<p>Did you know what you can submit your LDA permit before your building permit? Please contact stormwatermanagment@arlingtonva.us for more information.</p> <p>Instructions to Maintenance and Monitoring agreements have been updated to reflect all permits being consolidated on the 10th floor of 2100 Clarendon Blvd.</p> <p>Updates to the Guidance Manual include:</p> <ul style="list-style-type: none"> • Clarity on the 2 year rule in the Introduction • Section 2.11 Bonds has been expanded to include information for tree bonds • Section 3 has landscape plan changes <p>Clearer guidance has been added regarding the type of impermeable liner to be used for permeable pavement flow barriers, see Appendix G: Construction Inspection Checklist for Permeable Pavement and Design Detail #4.</p> <p>Appendix E: 20-Yr Tree Canopy Worksheet has been updated.</p> <p>Pollution prevention plan was updated to recommend secondary containment under port-a-johns.</p>
Thu 01/31/2019 4:38 PM	<p>The updated Guidance Manual now includes:</p> <ul style="list-style-type: none"> • Additional specifications for Urban Bioretention, including the addition of a new specification for tree filters; • Updated Fee schedule information (section 2.10); • Additional information regarding posting post construction bonds. <p>The updated Appendix G now includes:</p> <ul style="list-style-type: none"> • Addition of a construction inspection checklist for tree filters; and • Minor changes to the construction inspection checklist for bioretention and vegetated/green roofs. <p>The instructions for the Maintenance and Monitoring Agreement have been updated to reflect ePlan submission. The agreement itself has not changed.</p>
Thu 08/16/2018 12:34 PM	<p>Stormwater Management Facility Design Considerations – p 12 Setbacks. Stormwater management facilities must comply with the minimum setback requirements established by the Virginia Stormwater BMP Clearinghouse. This also includes the setbacks from neighboring structures.</p>

	<p>Design Specification No. 8: Infiltration Practices – p17 The following text has been added: Sizing. The maximum length or width of an infiltration trench is 16 feet or less for SFD infill project (Smaller excavators have an 8-foot reach.) If a dimension greater than 16 feet is required, the plan must specify the type of equipment to be used to construct the trench in order to excavate the trench from the side. Equipment should be kept off the floor area of the trench to prevent soil compaction.</p> <p>On Pervious Driveway Construction Detail, drawing No. SWM #2 The following note has been added: NOTE: For installations that abut structures, a 30 mil impermeable liner shall be used. It shall extend along the side of the pavement for the depth of the installation, and extend at least five feet horizontally from the edge of the structure underneath the paver reservoir layer. Consult with a County stormwater inspector to confirm if applicable to the project.</p>
<p>Wed 04/11/2018 12:20 PM</p>	<p>Guidance Manual:</p> <ul style="list-style-type: none"> • The compaction required for microbio retention berms has been added, page 24 • Section 2.11 has been added detailing the process for posting bonds prior to the issuance of CO • Section 2.12 has been added describing the post construction inspection requirements. This section includes the administrative fees the County will now be charging to owners for their failure to submit required inspection reports and County conducted maintenance of stormwater management facilities. <p>The policy memo on Use of Structural Stormwater Treatment Systems has been updated.</p> <p>The Court Land Records fee for recording maintenance agreements is now \$24.</p>
<p>Thu 02/08/2018 2:37 PM</p>	<p>In Appendix G, Construction Inspection Checklists and As-Built Certifications for Various Stormwater Facilities on page 1, additional clarity was added regarding submittals of certification packages for stormwater management facilities that are part of civil engineering projects.</p> <p>Guidance Manual:</p> <ul style="list-style-type: none"> • On page 20, additional clarity was added the plant design and selection requirements for bioretention, microbio retention and urban bioretention. • On page 14, the proposed condition of an urban bioretention is managed turf <p>A stand-alone dry well detail (SWM#7) has been added to the set of details.</p>

	<p>The Stormwater Pollution Prevention Plan SWPPP Minimum Acceptance List was updated.</p>
<p>Tue 10/10/2017 3:51 PM</p>	<p>An updated version of the Stormwater Management Guidance Manual was posted.</p> <ul style="list-style-type: none"> • The language regarding the “2-year rule” has been included in the introduction (in addition to being in section 4.4) to provide more clarity. • Additional information has been added to the Requirements for Sheetflow section (p 4) regarding dry well design, specifications, maintenance schedule and certification. The dry well section that was previously in the infiltration design specification has been reduced and moved to the urban bioretention section. <p>The Standard Details for Permeable Pavement and Urban Bioretention were updated.</p> <ul style="list-style-type: none"> • The planter box detail has been updated to make the planter walls and bottom more to scale (although it is still a NTS detail). Additionally, the dry well portion of the detail has been revised to just show turf cover. <p>Appendix G : Construction Inspection Checklist was updated.</p> <ul style="list-style-type: none"> • An update has been made to the infiltration trench and bioretention (Level II only) checklists that requires ensuring that the facility infiltrates. • A construction inspection checklist for dry wells has been added. This checklist is to be used for dry wells that are not built in conjunction with a planter box. <p>The Virginia Runoff Reduction Method spreadsheets, both new development and redevelopment, were updated by DEQ and have been updated on the County’s webpage.</p> <p>Arlington County's Resource Protection Area Map was updated in July, 2017 and the new RPA map will take effect in January, 2018. Learn more about the RPA map update</p>
<p>Wed 05/10/2017 11:19 AM</p>	<p>Guidance Manual has been slightly modified:</p> <ul style="list-style-type: none"> • Clarification on the types of permeable pavement not allowed – see “Concrete Grid Pavers” and “Plastic Reinforced Grid ...” on page 8. • The use of the word “Double” has been eliminated from the description of the type of washed stone required for permeable pavement installations, see page 9. • <p>Appendix E (20 Year Tree Canopy Coverage Worksheet) has been updated.</p> <p>The runoff reduction spreadsheet for redevelopment has been updated because of DEQ updates that fixed errors.</p> <p>On the Stormwater Management Notices to Industry page, the list of approved vendors for bioretention media have been updated.</p>

	<p>As a reminder, please consider the location of your planter boxes and microbioretentions carefully. Decks, cantilevered bump-outs, fireplaces, AC units, etc. are not allowed to be installed on top of bioretentions. If you have any questions, please contact your plan reviewer.</p>
<p>Fri 02/10/2017 11:01 AM</p>	<p>A new letter template has been added to Appendix G to include language required by VA DEQ. The checklists now require the use of a cover letter (see template) to capture the required language for certain projects. Please note that the term record drawing and as-built drawing are used synonymously to mean drawings of the constructed installation sealed by a professional registered in Virginia. See instructions for further details.</p> <p>Guidance Manual changes</p> <ul style="list-style-type: none"> • Additional clarity has been added to the soil testing requirements: Testing for infiltration rate and depth of seasonal high water table is required according to testing procedure outlined in the Clearinghouse Design Specification No. 8, Appendix 8-A (Version 2.0, 2013). All soil evaluations, including test profile pits, soil borings, and permeability tests shall be conducted under the supervision of a licensed Soil Scientist. Per the testing procedure, the seasonally high ground water table (SHWT) may be determined using soil morphology throughout the year by a certified professional with training and experience in soil morphology. SHWT determination by direct observation of the groundwater level should be performed during the months of November through May. Professional engineers registered in Virginia with experience in the field of geotechnical engineering with certified training in soil morphology may also be certified to determine the SHWT. • The Landscape Plan section now references the General Performance Standards for Development in Chesapeake Bay Preservation Areas, with an emphasis on tree preservation where feasible. Additional updates to the guidance language clarify requirements for installation of tree protection fencing and activities that can occur within tree protection areas. <p>Standard Details for Permeable Pavement and Urban Bioretention have been updated to include Detail #6 – Microbioretention.</p>
<p>Thu 10/06/2016 3:50 PM</p>	<p>. The Stormwater Pollution Prevention Plan Minimum Acceptance Checklist (MAC) and Stormwater Pollution Prevention Plan Template (SWPPP) have been updated.</p> <ul style="list-style-type: none"> • The horizontal and vertical datum requirement has been added to the MAC. • Section 8.0 of the SWPPP Template has been updated. <p>The Stormwater Guidance manual has been updated. Changes include:</p> <ul style="list-style-type: none"> • On pages 5-6, Soil Testing - additional requirement: All soil evaluations, including test profile pits, soil borings, and permeability tests should be conducted under the supervision of a licensed Soil Scientist. • The choker stone layer in the bioretentions/planter boxes can be pea gravel or #8 stone. The Material Specifications charts for bioretention

	<p>basins, microbioretention, and stormwater planter boxes have been updated to reflect this change. Appendix G for bioretention basins, microbioretention, and stormwater planter boxes has also been updated to reflect the use of #8 stone as an acceptable choker stone layer.</p> <p>The standard details for stormwater planter boxes (SWM#5) has also been updated to reflect the choker stone layer (allows the use of pea gravel or #8). The letters associated with the elevations have been reordered to be more clear.</p> <p>Some new FAQs that have been added to the Stormwater Management Notices to Industry page:</p> <ul style="list-style-type: none"> • After plugging in all of a project’s data into the runoff reduction spreadsheet (v. 3.0) the results state “No further TP load reduction required (Required – Achieved < 0.0005 lb/yr)”, does this mean that the project meets the TP load reduction requirement? No, the required TP load reduction has always been 0, including any decimal places (it was not previously rounded down to 0.00), therefore it continues to be 0, including any decimal places. • Who is an approved vendor that can supply the new required bioretention soil media that meets the testing requirements? Approved filter media vendors for VDEQ Bioretention Soil Media (Version 2.0) in Arlington County: Denison Landscaping, contact Denison Garden Center at 301-567-1330 or James@denisonlandscaping.com Harvest Power, contact Dave Lundberg at 410-970-5022 JK Enterprises, 540-428-3094 Luck Ecosystems contact Muriel Robertson at 804-476-6513 or MRobertson@luckecosystems.com M&J Organics, contact Anthea Laporte at 571-830-5826 Quail Ridge Products, contact K.C. Stottlar at 703-268-1552 or quailridgesales@gmail.com Virginia Groundcovers, 703-450-4758 or info@vagroundcovers.com
<p>Mon 05/09/2016 10:00 AM</p>	<p>The Guidance Manual now includes a dry swale maintenance schedule and a new section 4.3, has been added for RPA requirements for subdivisions.</p> <p>Subdivision Plat Notes for On-site Sewage Treatment Systems and Resource Protection Areas has been added to Stormwater Notices to Industry Page</p> <p>The instructions for the maintenance agreement have updated contact info and removed the instructions for the Court Land Records routing sheet (this is no longer required by Court Land Records). The language in the agreement itself has not changed.</p> <p>Appendix G has been updated to include a dry swale construction inspection checklist and updated contact information at the top of all certification letters. MMA’s and BMP as-built certifications should now be emailed to StormwaterReview@arlingtonva.us for review.</p>

<p>Fri 01/29/2016 11:01 AM</p>	<p>Stormwater Management Ordinance Guidance Manual changes:</p> <ul style="list-style-type: none"> • Additional clarification has been added to the Sheetflow to Vegetative Filter Strip and Conserved Open Space standard • The number of pretreatment measures for level I vs II infiltration trenches is more clear. • The Material Specifications chart has been updated for Microbioretention to include the type of fabric installation • A Material Specifications chart has been added for Dry Swales • Minor changes to the landscape conservation plan on pages 24 & 2 <p>Appendix B – Stormwater Pollution Prevention Plan Template has been updated to include minor edits to the phone numbers on page 5.</p> <p>Appendix E – Tree Canopy Requirements</p> <p>Appendix G – Construction Inspection Checklists and As-Built Certifications for Various SWMFs. The Checklists for Bioretention, Urban Bioretention (Planter Boxes), Permeable Pavement and Infiltration Trenches have been updated to include more detail on the photos and the copies of the material delivery tickets that are required for each step. Please note the Urban Bioretention checklist now also includes the requirements for the dry wells.</p>
<p>Items prior to 2016 maybe missing because of email archiving and change in delivery methods (moved to listserv instead of individual emails sent by G England)</p>	
<p>Tue 08/11/2015 9:05 AM</p>	<p>Minor revisions to the Manual, these include:</p> <ul style="list-style-type: none"> • The required certification for the installer of permeable pavers is more clear • Additional clarification has been added to the filter media used in bioretentions, microbioretentions, and planter boxes with regards to the phosphorus content. • Material specifications for planter boxes has been updated (the planting requirements now only list planting requirements for Level I and the shrub size has been corrected to 3 gallon minimum) <p>The construction inspection checklist for permeable pavement (in Appendix G) is clearer on documentation required for the certified installer.</p> <p>Additionally:</p> <ol style="list-style-type: none"> 1. A Pre-Storm Erosion & Sediment Control Checklist has been added. This checklist should be included on all future plan submissions and the SWPPP Minimum Acceptance Checklist has been updated to include this. 2. A minor revision was made to the Stormwater Management Facility and Site Data Spreadsheet. <p>An update regarding approved filter media vendors for planter boxes and microbioretention. The following are approved vendors:</p> <ul style="list-style-type: none"> • Denison Landscaping

	<ul style="list-style-type: none"> • Luck Stone, contact Muriel Robertson at 804-476-6513 or MRobertson@luckstone.com • JK Enterprises, 540-428-3094 • M&J Organics, contact Anthea Laporte at 571-830-5826 • Harvest Power, contact Justin Burch at 410.970.5029 or jburch@harvestpower.com
<p>Thu 04/30/2015 3:12 PM</p>	<p>Guidance Manual has been updated to: Include Section 2.8 Enforcement, outlining procedures for Notices of Violation (NOV). Reference the updated Appendix F: Tree Protection and Planting Standards Revised Material Specifications for Permeable Pavement, to clarify the use of the sand/choker stone or filter fabric layer between the underlying native soils and reservoir layer. Revised Material Specifications for Infiltration Trenches, removing references to an underdrain. Revised Material Specifications for Bioretention and Microbioretention clarifying the number of rows of perforation in the underdrain. Revised Material Specifications for Urban Bioretention, limiting the amount of stone at the bottom of a planter box to 12” and clarifying the number of rows of perforation in the underdrain.</p> <p>Appendix A -Stormwater Facility Maintenance and Monitoring Agreement has been updated to reflect Court Land Records use of Instrument numbers now instead of deed book and page numbers.</p> <p>The Bioretention Sizing Spreadsheet has been updated to include 3 tabs one for microbioretention, bioretention basins and planter boxes. The spreadsheet also includes notes and controls to make it easier to design and calculate.</p> <p>Stormwater Pollution Prevention Plan Minimum Acceptance Checklist has been revised to include the reference to the P2 supplement.</p> <p>The Stormwater Management Facility and Site Data Worksheet has been updated.</p> <p>A new section entitled Construction Guidance has been added. This section includes:</p> <ul style="list-style-type: none"> • Construction Inspection Checklists which have all been combined into one file (Appendix G). This file includes checklists and asbuilt certification documents for all types of stormwater management facilities. • Construction Tips for the most common type of stormwater management facilities installed in Arlington, and the most common problems seen in the field. • Erosion and Sediment Control and Pollution Prevention (P2) Supplements for details on how to install these controls. The Pollution Prevention (P2) Supplement is required to be included as an attachment to the P2 Plan. <p>These changes are effective June 1st.</p>

	<p>Please note: LDA permits that were submitted before 7/1/2014 have until 12/31/15 to pull the permit and then must start the work prior to 6/30/2016 or the LDA Permit becomes invalid. Once the LDA permit becomes invalid a new grading plan will need to be submitted and approved meeting the current new Stormwater Regulation to move forward.</p>
Fri 02/06/2015 1:38 PM	<p>Arlington County recently made some updates to the Stormwater Guidance Manual, and the Bioretention and Urban Bioretention Construction Inspection Checklists found on the Stormwater Ordinance webpage.</p> <p>The changes are:</p> <ol style="list-style-type: none">1. On page 10, additional requirements related to the siting of infiltration practices2. Also on page 10, additional details on Dry Well Design.3. On page 12, clarification on the sizing of bioretention.4. Changes to the inspection checklists are related to the final photos and documentation of the ponding depth.