



Fredericksburg Campus

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040125

Permit Year

July 1, 2020 through June 30, 2021

This annual report is submitted in accordance with 9VAC25-890-40 as part of the requirement for permit coverage to discharge stormwater to surface waters of the Commonwealth of Virginia consistent with the VAR04 General Permit effective date November 1, 2018.

Submitted: September 13, 2021

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ACRONYMS

BMP	Best Management Practice
DEQ	Virginia Department of Environmental Quality
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
NMP	Nutrient Management Plan
POC	Pollutant of Concern
SWM	Stormwater Management
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
VPDES	Virginia Pollution Discharge Elimination System
WLA	Wasteload Allocation

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS

1.1. General Information (Part I.D.2.a)

Permittee Name: Germanna Community College

System Name: Virginia Community College System

Permit Number: VAR040125

1.2. Reporting Period (Part I.D.2.b)

The reporting period for which the annual report is being submitted:

July 1, 2020 through June 30, 2021

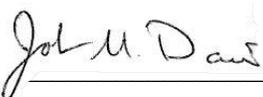
1.3. Signed Certification (Part I.D.2.c)

A signed certification as per Part III K:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Printed Name: John M. Davis

Title: Vice President of Administrative Services

Signature:  _____ Date: 09/13/21 _____

1.4. Reporting for MCMs 1-6 (Part I.D.2.d)

Include information for each annual reporting item specified in Part I.E:

Reporting information for each Minimum Control Measure is provided in Section 2.0.

1.5. Evaluation of the MS4 Program Implementation (Part I.D.2.e)

An evaluation of the MS4 program implementation, including a review of each MCM to determine the MS4 program’s effectiveness and whether changes to the MS4 Program Plan are necessary:

An evaluation for each Minimum Control Measure is provided in Section 2.0. Changes that are necessary to be made to the MS4 Program Plan are summarized in Table 1.

Table 1: Summary of MS4 Program Plan Changes

Not Applicable

2.0 MINIMUM CONTROL MEASURES

2.1. MCM #1: Public Education and Outreach

2.1.1. High Priority Stormwater Issues (Part I.E.1.g(1))

A list of high-priority stormwater issues addressed in the public education and outreach program:

A list of high-priority stormwater issues addressed in public education and outreach program is provided in Table 2.

2.1.2. High Priority Stormwater Issue Communication Strategies (Part I.E. 1.g(2))

A list of strategies used to communicate each high-priority stormwater issue:

A list of strategies used to communicate each high-priority stormwater issue is provided in Table 2 and documentation of the communication efforts are included in Appendix A.

Table 2: High Priority Stormwater Issues					
#	Stormwater Issue	Strategy	Communication	Metric	Beneficial
1	Public education of stormwater runoff	Traditional Written Materials	Powerpoint distributed via email to all students, faculty and staff	Approx. 10,000 students, faculty & staff	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	TMDLs and local impaired waters	Media materials	Graphic media placed on TV monitors in public frequented areas	Approx. 500 students, faculty & staff	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Motor oil from vehicles in parking lots	Traditional Written Materials	Posters hung in frequented areas in multiple buildings around campus	Approx. 500 students, faculty & staff	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.1.3. MCM #1 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #1 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

2.2. MCM #2: Public Involvement and Participation

2.2.1. Public Input Summary (Part I.E.2.f(1))

A summary of any public input on the MS4 program received (including stormwater complaints) and responses:

Were any MS4 Program inputs or stormwater complaints received from the public?

Yes No

If yes, were responses provided? Yes No Not Applicable

2.2.2. MS4 Program Webpage (Part I.E.2.f(2))

A webpage address to the MS4 program and stormwater website:

The webpage address is <https://www.germannacollege.edu/facilities/environmental-sustainability/>

2.2.3. Public Involvement Activities Implemented (Part I.E.2.f(3))

A description of the public involvement activities implemented:

A description of the implemented public involvement activities is provided in Table 3.

2.2.4. Public Involvement Activity Metric and Evaluation (Part I.E.2.f(4))

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality:

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality is provided in Table 3. Appendix B includes documentation of the public involvement activities.

Table 3: Public Involvement Activities Implemented

#	Activity Description/Date	Category	Metric	Collaboration	Beneficial
1	CBLP Level 1 Training Class - 3/2/2021	Educational	12 participants	Friends of the Rappahonock	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	MS4 Program Presentation 6/17/2021	Educational	56 participants	NA	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Videos placed on website 6/2/2021	Educational	108 views	NA	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Janitorial Company MS4 Presentation & poster installation - 6/3/2021	Pollution Prevention	3 posters, 8 participants	NA	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.2.5. MS4 Collaboration (Part I.E.2.f(5))

The name of other MS4 permittees collaborated with in the public involvement opportunities:

If applicable, the name of other MS4 permittees collaborated with for any of the public involvement opportunities are provided in Table 3.

2.2.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 4.

Table 4: MS4 Program Plan BMP Measurable Goals for MCM #2

BMP	Measurable Goal	Completeness Status
2.1	Was documentation of the public input or complaints on the MS4 program and MS4 Program Plan maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (None received)
2.1	Is the effective MS4 permit and coverage letter on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the most current MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the annual report for each year of the term covered by this permit no later than 30 days after submittal to the department on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.1	Is there a mechanism for the public to report potential illicit discharges, improper disposal or spills to the MS4, complaints regarding land disturbing activities or other potential stormwater pollution concerns on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is there a method for how the public can provide input of the MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the latest Virginia Community College System Annual Standards and Specifications on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.2.7. MCM #2 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #2 measurable goals completed in accordance with the MS4 Program Plan?

Yes (Documentation is provided in Appendix B.) No

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

2.3. MCM #3: Illicit Discharge Detection and Elimination

2.3.1. MS4 Map and Information Table (Part I.E.3.e(1))

A confirmation statement that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year:

Were the MS4 storm sewer map and outfall information table updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year?

Yes No () Not Applicable (No changes required)

2.3.2. Dry Weather Screening (Part I.E.3.e(2))

The total number of outfalls screened during the reporting period as part of the dry weather screening program:

Were outfalls screened during the reporting period? Yes No

The number of outfalls screened during the reporting yard as part of the dry weather screening program is 2. This represents 100% of the total outfalls.

2.3.3. Illicit Discharges (Part I.E.3.e(3))

A list of illicit discharges to the MS4 including spills reaching the MS4:

Were there any illicit discharges to the MS4 including spills reaching the MS4?

Yes (Refer to Table 5) No

Table 5: Illicit Discharges

Illicit Discharge Not Applicable

Part I.E.3.e(3)(a) Source:

Part I.E.3.e(3)(b) Date Observed & Date Reported:

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe):

Part I.E.3.e(3)(d) Investigation Resolution:

Part I.E.3.e(3)(e) Description of Follow-up Activities:

Part I.E.3.e(3)(f) Date Investigation Closed:

2.3.4. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 6.

Table 6: MS4 Program Plan BMP Measurable Goals for MCM #3		
BMP	Measurable Goal	Completeness Status
3.1	Was a GIS compatible shapefile submitted to DEQ?	Completed
3.1	Was written notification provided to any downstream adjacent MS4 of any known interconnection established or discovered during the permit reporting year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No
3.2	Did all students, faculty and staff have access to the Standards of Conduct for Employees and the Student Handbook for Students?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.3	Were illicit discharge detection and elimination procedures implemented, enforced and documentation maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.3.5. MCM #3 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #3 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

2.4. MCM #4: Construction Site Stormwater Runoff Control

2.4.1. Implementation of Standards and Specifications (Part I.E.4.a(3))

The MS4 implements a construction site stormwater runoff program in accordance with the most recent DEQ approved Standards and Specifications in compliance with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations.

2.4.1.1. Conforming Land Disturbance Projects (Part I.E.4.d(1)(a))

A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control:

Were all land disturbing projects that occurred during the reporting period conducted in accordance with the current department approved standards and specifications for erosion and sediment control?

Yes No (Refer to Table 7) Not Applicable (No land disturbing projects)

2.4.1.2. Non-Conforming Land Disturbance Projects (Part I.E.4.d(1)(b))

If one or more of the land disturbing projects were not conducted with the department standards and specifications, an explanation as to why the projects did not conform to the approved standards and specifications:

If no is checked above, an explanation as to why a project did not conform to the approved standards and specifications is provided in Table 7.

Table 7: Project(s) Not in Conformance with Approved Standards and Specifications

Project Name: Not Applicable

Explanation:

2.4.2. Site Stormwater Runoff Inspections (Part I.E.4.d(2))

Total number of inspections conducted:

The total number of site stormwater runoff inspections conducted for regulated land disturbance activities in accordance with the most recent DEQ approved Standards and Specifications is Not Applicable.

2.4.3. Enforcement Actions (Part I.E.4.d(3))

The total number and type of enforcement actions implemented:

The total number of enforcement actions implemented is Not Applicable.

The total number of Notices of Violation (Red flag) issued is Not Applicable.

The total number of Stop Work Orders (Black flag) issued is Not Applicable.

2.4.4. MCM #4 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS Program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #4 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

2.5. MCM #5: Post-Construction Stormwater Management

2.5.1. Implementation of Standards and Specifications (Part I.E.5.a(3))

The MS4 implements the most recent DEQ approved standards and specifications and a stormwater management facility inspection and maintenance program in accordance with Part I.E.5.b.

2.5.2. Stormwater Management Facility Inspections (Part I.E.5.i(2))

Total number of inspections conducted on stormwater management facilities owned or operated by the permittee:

Were inspections conducted on stormwater management facilities during the reporting year? Yes No

The total number of inspections conducted on stormwater management facilities is 6.

2.5.3. Stormwater Management Facility Maintenance (Part I.E.5.i(3))

A description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection:

Were significant maintenance, repair, or retrofit activities performed on any stormwater management (SWM) facilities during the reporting year?

Yes No () Not Applicable (No significant maintenance required.)

If yes, a description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the MS4 to ensure it continues to perform as designed is provided in Table 8.

Table 8: Maintenance Activities Performed on Stormwater Management Facilities

Stormwater Management Facility	Significant Maintenance Activity
SWM-2: Filterra	Removed sediment, debris, trash, mulch and stones and reinstalled mulch and energy dissipater stones.

2.5.4. Virginia Construction Stormwater General Permit Database (Part I.E.5.i(4))

A confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part I E 5 f or a statement that the Permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater form Construction Activities:

Stormwater management facility information for stormwater facilities installed after July 1, 2014 was submitted through the Virginia Construction Stormwater General Permit database for land disturbing activities requiring a General VPDES Permit for Discharges of Stormwater from Construction Activities?

Not Applicable (Not a VSMP authority.)

2.5.5. DEQ BMP Warehouse (Part I.E.5.i(5))

A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with Part I E 5 g and the date on which the information was submitted:

No later than October 1 of each year, stormwater management facilities and BMPs implemented to meet a TMDL load reduction between July 1 and June 30 of each year were electronically reported using the DEQ BMP Warehouse for any practices not reported in accordance with Part I.E.5.f (requirement 2.5.4) including stormwater management facilities from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required?

Yes, Date Submitted: No Not Applicable (No qualifying SWM facilities constructed or structural BMPs implemented.)

2.5.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 9.

Table 9: MS4 Program Plan BMP Measurable Goals for MCM #5		
BMP	Measurable Goal	Completeness Status
5.1	Was the post-construction stormwater management inspection and maintenance program implemented in accordance with approved standards and specifications?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5.2	Was the stormwater management facility tracking database updated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.5.7. MCM #5 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #5 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

2.6. MCM #6: Pollution Prevention and Good Housekeeping

2.6.1. Operational Procedures (Part I.E.6.q(1))

A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period:

Were any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period?

Yes (Refer to Table 10) No Not Applicable (Not necessary)

Table 10: Good Housekeeping Operational Procedures Developed or Modified

Not Applicable

2.6.2. Newly Developed SWPPPs (Part I.E.6.q(2))

A summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period:

Were any new SWPPPs developed in accordance Part I E 6 c during the reporting period?

Yes (Refer to Table 11) No () Not Applicable (No new high priority facilities.)

Table 11: New SWPPPs Developed

SWPPP Name	SWPPP Address
Not Applicable	

2.6.3. Modified or Delisted SWPPPs (Part I.E.6.q(3))

A summary of any new SWPPPs modified in accordance with Part I E 6 f or the rationale of any high priority facilities delisted in accordance with Part I E 6 h during the reporting period:

Were any new SWPPPs modified after an unauthorized discharge, release or spill reported?

Yes (Refer to Table 12) No () Not Applicable (Modification not required)

Were any high priority facilities delisted in accordance with Part I E 6 h during the reporting period? Yes (Refer to Table 12) No

If yes, rationale is provided for any high priority facilities delisted in accordance with Part I E 6 h during the reporting period in Table 12.

Table 12: SWPPPs Modified or Delisted

SWPPPs Modified/Delisted	Rationale for Delisting
Not Applicable	

2.6.4. Newly Developed Nutrient Management Plans (Part I.E.6.q(4))

A summary of new turf and landscape nutrient management plans (NMPs) developed:

Were any new turf and landscape nutrient management plans developed?

Yes (Refer to Table 13) No (No nutrients have been applied since the Plans expired. Plans will be updated this year.) Not Applicable (Existing NMP in place. No new NMP required this reporting year.)

2.6.4.1. Nutrient Management Plan Acreage (Part I.E.6.q(4)(a))

The location and the total acreage of each land area:

If yes is checked above, the location and total acreage of the land area for any newly developed nutrient management plan is provided in Table 13.

2.6.4.2. Nutrient Management Plan Approval Date (Part I.E.6.q(4)(b))

The date of the approved nutrient management plan:

If yes is checked above, the approval date of any newly developed nutrient management plan is provided in Table 13.

Table 13: New Turf and Landscape Nutrient Management Plans

Location	Total Acreages	Date Approved
Not Applicable		

2.6.5. Training Events (Part I.E.6.q(5))

A list of the training events conducted in accordance with Part I.E.6.m, including the following information:

Was training conducted?

Yes No () Not Applicable (Not required this reporting year.)

If yes is checked above, a list of training events conducted in accordance with Part I.E.6.m is provided in Table 15.

2.6.5.1. Training Dates (Part I.E.6.q(5)(a))

The date of the training event:

If yes is checked above, the date of the training event is provided in Table 14.

2.6.5.2. Quantity Trained (Part I.E.6.q(5)(b))

The number of employees who attended the training event:

If yes is checked above, the number of employees who attended the training event is provided in Table 14.

2.6.5.3. Training Objective (Part I.E.6.q(5)(c))

The objective of the training event:

If yes is checked above, the objective of the training event is provided in Table 14.

Table 14: Training Events		
Date	# of Attendees	Training Objective

2.6.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 15.

Table 15: MS4 Program Plan BMP Measurable Goals for MCM #6		
BMP	Measurable Goal	Completeness Status
6.1	Was good housekeeping and pollution prevention biennial training conducted this reporting year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
6.2	Was the annual comprehensive compliance evaluation conducted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6.2	Was the SWPPP reviewed within 30 days after an unauthorized discharge, release or spill reported?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required) <input type="checkbox"/> No

6.2	Was the SWPPP updated within 90 days after an unauthorized discharge?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required) <input type="checkbox"/> No
6.2	Were the MS4's properties reviewed this reporting year to determine if the properties meet the criteria of a high priority facility?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (The MS4 campus is a high priority facility.) <input type="checkbox"/> No
6.3	Was the nutrient management plan implemented through completion of application records?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No nutrients applied) <input type="checkbox"/> No
6.4	Were all signed contracts executed with contract good housekeeping and pollution prevention language?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6.5	Did all signed contracts executed for pesticide and herbicide application maintain proof of certifications on file?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No contracts executed) <input type="checkbox"/> No
6.6	Did training occur and were proof of certifications maintained on file for employees performing pesticide and herbicide applications?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No employees applied pesticides/herbicides) <input type="checkbox"/> No

2.6.7. MCM #6 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program's effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #6 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

3.0 TMDL SPECIAL CONDITIONS

3.1. Chesapeake Bay TMDL Action Plan

3.1.1. BMPs Implemented and Estimated POC Reductions (Part II.A.13.a)

A list of BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part I E 5 g and the estimated reduction of pollutants of concern achieved by each and reported in pounds per year:

Were any BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part I.E.5.g?

Yes (Refer to Table 16) No ()

The estimated reduction of pollutants of concern achieved by each BMP reported in pounds per year is provided in Table 16.

Table 16: Chesapeake Bay TMDL Action Plan POC Reductions			
BMP #1: Street Sweeping Using the Mass Loading Approach			
Required pounds of material swept	326 lbs.		
Provided pounds of material swept	580 lbs.		
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
Required 5% Reduction (lbs.) =	.57	.12	43.48
Provided Reduction (lbs.) =	1.02	.41	121.8
Future Required 40% Reduction (lbs.) =	4.56	.96	347.84
% Achieved towards 40% (%) =	22	42	35

3.1.2. Nutrient Credits (Part II.A.13.b)

If the permittee acquired credits during the reporting period to meet all or a portion of the required reductions in Part II A 3, A 4, or A 5, a statement that credits were acquired:

Were credits acquired during the reporting period to meet all or a portion of the required reductions in Part II A 3, A 4, or A 5? Yes No

3.1.3. POC Cumulative Reduction Progress (Part II.A.13.c)

The progress, using the final design efficiency of the BMPs, toward meeting the required cumulative reductions for total nitrogen, total phosphorus, and total suspended solids:

The progress, using the final design efficiency of the BMPs, toward meeting the required 40% reductions for total nitrogen, total phosphorus, and total suspended solids is provided in Table 17.

Table 17: 2019 – 2023 Chesapeake Bay TMDL Action Plan Implementation Schedule			
Step	General Description	Measurable Goal	Completeness Status
1	5% reduction requirement complete. Evaluate lbs. swept.	Completed tracking documentation?	<input checked="" type="checkbox"/> Yes (July 2019) <input type="checkbox"/> No
2	5% reduction requirement complete. Make adjustments to frequency based on 2019 information obtained.	Completed tracking documentation with increase sweeping frequency?	<input checked="" type="checkbox"/> Yes (July 2020) <input type="checkbox"/> No
3	5% reduction requirement complete. Determine if 40% can be achieved w/ street sweeping alone. If not, evaluate alternate means to achieve 40% reduction. Secure funding for future implementation of new BMPs. Revise Action Plan accordingly.	Completed tracking documentation. If required, revise Action Plan?	<input checked="" type="checkbox"/> Yes (July 2021) <input type="checkbox"/> No
4	Revise Action Plan based on the newly issued DEQ Guidance Memo No. GM-20-2003 (Appendix V.G).	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction?	July 2022
5	Complete 40% reduction requirement with selected means and methods.	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction?	July 2023
6	Report on Chesapeake Bay TMDL 40% reduction achievement.	Recorded results in Annual Report?	October 2023

3.1.4. Next Reporting Period Planned BMPs (Part II.A.13.d)

A list of BMPs that are planned to be implemented during the next reporting period:

BMPs that are planned to be implemented during the next reporting period is provided in Table 18.

Table 18: Chesapeake Bay TMDL Action Plan BMPs Planned for the Next Reporting Year

1. Street Sweeping

3.1.5. Chesapeake Bay TMDL Action Plan Measurable Goals

The Chesapeake Bay TMDL Action Plan measurable goals are provided in Table 19.

Table 19: Chesapeake Bay TMDL Action Plan Measurable Goals

#	Measurable Goal	Completeness Status
1	Were public comments considered during the required 15-day comment period?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
2	Were cost effective BMPs selected to support model quantification to achieve the required pollutant reductions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
3	Was the required pollutant reduction reached for this reporting year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

3.1.6. Chesapeake Bay TMDL Action Plan Implementation Evaluation (Part I.D.2.e)

Review the TMDL Special Condition to determine the Chesapeake Bay TMDL Action Plan's effectiveness and whether or not changes to the Chesapeake Bay TMDL Action Plan are necessary:

Were all measurable goals completed in accordance with the Chesapeake Bay TMDL Action Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

3.2. Local TMDL Action Plan

3.2.1. No Local TMDL Implementation (Part II.B.9)

A summary of actions conducted to implement each local TMDL action plan:

The MS4 has not been assigned a wasteload allocation (WLA) for any local TMDLs.

Appendix A: Documentation of Public Education and Outreach Activities

High Priority Stormwater Issue #1

From: [Garland Fenwick](#)
To: [Garland Fenwick](#)
Subject: FW: Important Municipal Separate Storm Sewer System Program(MS-4)FacultyStaff
Date: Friday, August 27, 2021 2:50:26 PM
Attachments: [image001.jpg](#)
[GCC Stormwater Slides CCTV Group 3.pptx](#)

Thanks
Garland

From: Garland Fenwick <GFenwick@germanna.edu>
Sent: Monday, March 22, 2021 11:39 AM
To: *All-Germanna* <All-Germanna@germanna.edu>
Cc: Garland Fenwick <GFenwick@germanna.edu>
Subject: Important Municipal Separate Storm Sewer System Program(MS-4)

Dear Faculty and Staff,

Attached is a short power point that provides important information pertaining to Municipal Separate Storm Sewer System Program(MS-4) and Stormwater Management at the Fredericksburg Area Campus and your communities . Please take a few minutes to review the power point and help GCC and your communities improve their MS-4 and Stormwater Management Program.

Thank you

Garland M. Fenwick
Director of Facilities
Germanna Community College
PO Box 1430
2130 Germanna Highway
Locust Grove, VA 22508
540-423-9046

As a public, comprehensive community college, Germanna provides accessible, high quality educational and training opportunities that address our communities' diverse and changing learning needs.

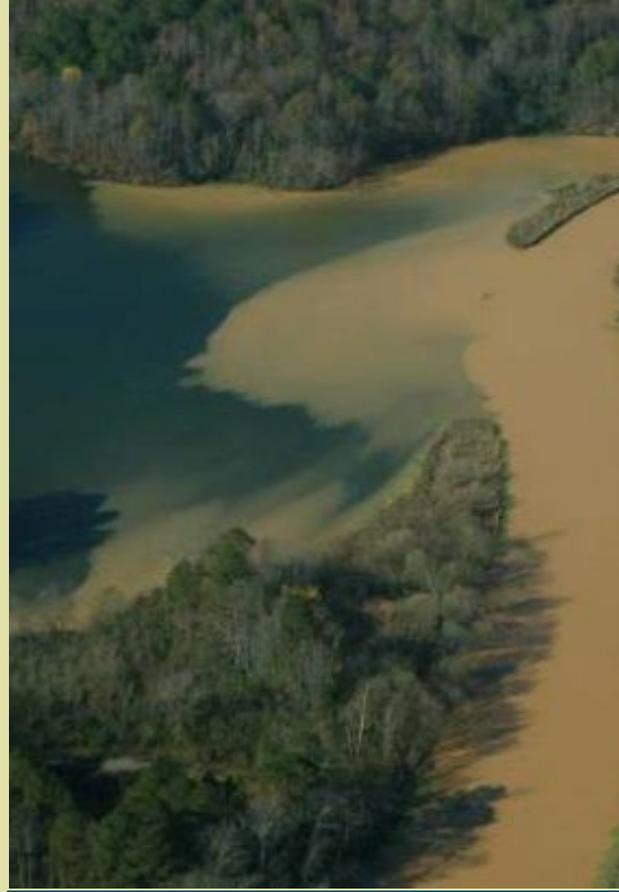




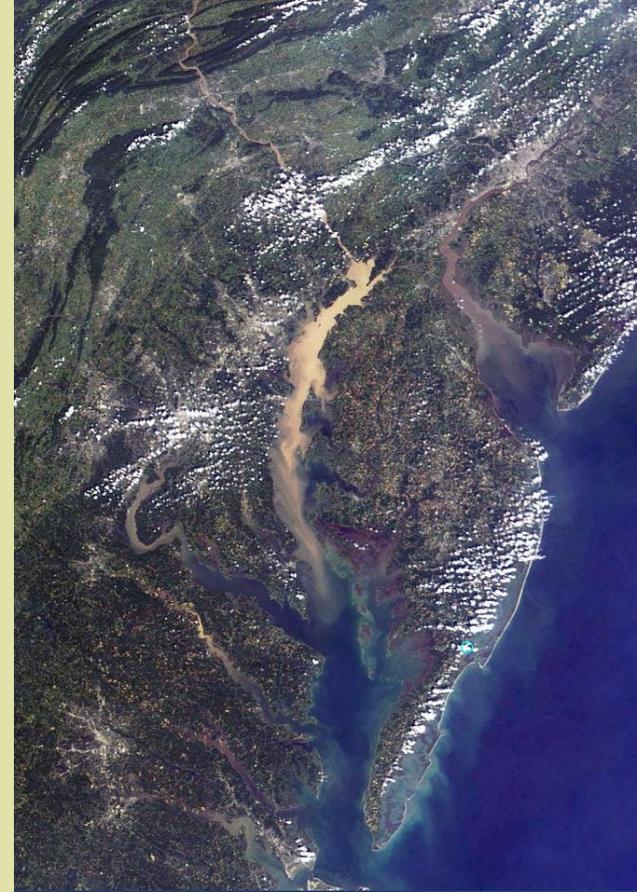
STORMWATER RUNOFF PICKS UP SEDIMENT & POLLUTANTS AFTER A RAINFALL.



SEDIMENT & POLLUTANT LADEN RUNOFF FLOWS INTO STORM SEWER SYSTEMS.



STORM SEWER INLETS DRAIN DIRECTLY INTO OUR LOCAL WATERBODIES.



OUR LOCAL WATERBODIES FLOW INTO THE CHESAPEAKE BAY & TO THE OCEAN.

Impacts of Stormwater Runoff

Sediment from **construction sites** & **streambank erosion** from urbanization adversely affect the health of our local streams & rivers & the Chesapeake Bay.

LOCAL IMPAIRED WATERWAYS

GCC directly discharges into an unnamed tributary of the Massaponax Creek.

The Massaponax Creek is designated as an impaired waterway for pH and bacteria.

Pollutant sources that affect water pH are landscape additives and chemicals.

Pollutant sources of bacteria are livestock, pet waste and sanitary sewer overflows.





ILLICIT DISCHARGE

Any discharge that enters the storm drain system or a natural drainage way on campus that is **not composed entirely of stormwater**.

To report an illicit discharge, spill or an improper disposal email gfenwick@germanna.edu or call the Facilities Department at **540-423-9185**.

For more information visit GCC's stormwater website at <http://www.germanna.edu/facilities>.





HOW YOU CAN HELP KEEP WATERBODIES CLEAN?

- Limit landscape additives such as lime & potash only in amounts needed & at appropriate times especially never before a rain event.
- Properly store & dispose of chemicals. Quickly clean-up spilled chemicals & properly dispose of the materials used to clean-up spills.
- Pick-up pet waste & properly dispose in the trash.
- Never dump anything down storm drains.
- Place litter & cigarette butts in proper receptacles.
- Utilize recycling programs.
- Promptly repair vehicle & equipment leaks.
- Wash vehicles at a commercial car wash instead of in a driveway or parking lot.
- Properly dispose of household waste items.

High Priority Stormwater Issue #2

Garland Fenwick

From: James Solomon
Sent: Monday, March 22, 2021 11:03 AM
To: Garland Fenwick
Subject: Re: On Campus Screens

Always glad to help

Thank you,
Jim Solomon
Marketing & Public Information Specialist: Graphic Designer
540.423.9069 | JASolomon@germanna.edu



Visit our [COVID-19 Resource](#) page for the most up-to-date information, teaching and learning resources and frequently asked questions. Contact us at (540) 834-1070 or COVID19@germanna.edu.

From: Garland Fenwick <GFenwick@germanna.edu>
Sent: Monday, March 22, 2021 10:51 AM
To: James Solomon <JSolomon@germanna.edu>
Cc: Garland Fenwick <GFenwick@germanna.edu>
Subject: RE: On Campus Screens

Jim,

The slides looked good. Thanks for the help.

Garland

From: James Solomon <JSolomon@germanna.edu>
Sent: Friday, March 19, 2021 11:17 AM
To: Garland Fenwick <GFenwick@germanna.edu>
Subject: On Campus Screens

Morning Garland,

Whenever you get a chance, please take a look at the screens and make sure all 4 slides are playing. If they aren't let me know and I will need to break them out separately. But not being on campus, I will not be able to tell.

Thank you,
Jim Solomon
Marketing & Public Information Specialist: Graphic Designer
540.423.9069 | JASolomon@germanna.edu

STORMWATER REGULATIONS

WHY WE HAVE TO?
Federal Clean Water Act

WHO SAYS?
Virginia Laws and Regulations
MS4 General Permit
Construction General Permit
VA Stormwater Management Program
Erosion & Sediment Control

WHERE APPLICABLE?
MS4 General Permit Holder
State properties within the census
urbanized area



Municipal Separate Storm Sewer System (MS4).

- Collects & conveys stormwater
- Potential to convey pollutants downstream
- Ultimately leads to a point discharge (outfall) at a natural drainage way
- Activities/operations draining to outfalls regulated within a Census Urbanized Area

Well
Up
Only



Science & Engineering
and Information C



Professionalism
Integrity
Excellence
Passion
Respect
Stewardship

TOTAL MAXIMUM DAILY LOAD (TMDL)

TMDL is a plan (pollution diet) that establishes the maximum amount of a pollutant a waterbody can hold & meet water quality standards.

WLA is the quantity of the pollutant (sediment, nitrogen, bacteria, etc.) that may be discharged.

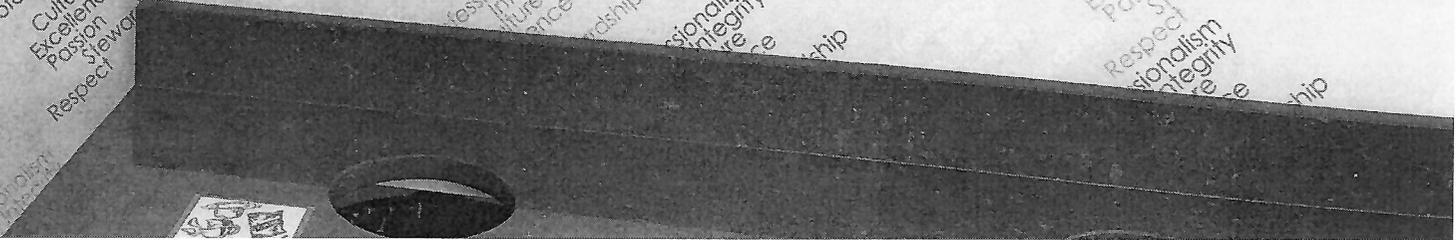
Waterbodies are tested & those that do not meet water quality standards are given impairments for the pollutant(s) of concern (POC).

MS4s are assigned a WLA for the POC & must meet annual reductions requirements per a TMDL Action Plan.

Stairwell
Up
Only
↑



Science
and Info



Professionalism
Integrity
Culture
Excellence
Passion
Respect
Stewardship



CHESAPEAKE BAY TMDL ACTION PLAN

GCC implements a Chesapeake Bay TMDL Action Plan to reduce the Chesapeake Bay Pollutants of Concern (POC) which are Nitrogen, Phosphorous & Sediment.

GCC is required to annually meet POC reductions based upon the amount of impervious and pervious surfaces on campus.

Implements a MS4 Program to educate the public on pollution prevention & an IDDE Program to detect & eliminate illicit discharges that occur on campus.

Adheres to construction laws & regulations to reduce POC from land disturbance activities & maintains stormwater management facilities after construction.

Prevents pollution from daily maintenance & operation activities by implementing good housekeeping procedures such as regular street sweeping contributing towards POC reductions.

Implements a Nutrient Management Plan & utilizes best management practices for pesticide application to reduce POC applied in the form of fertilizers & pesticides on campus.

Traffic Up Only
↑



Science and Information



Professionalism
Culture
Excellence
Passion
Respect
Stewardship

Stewardship





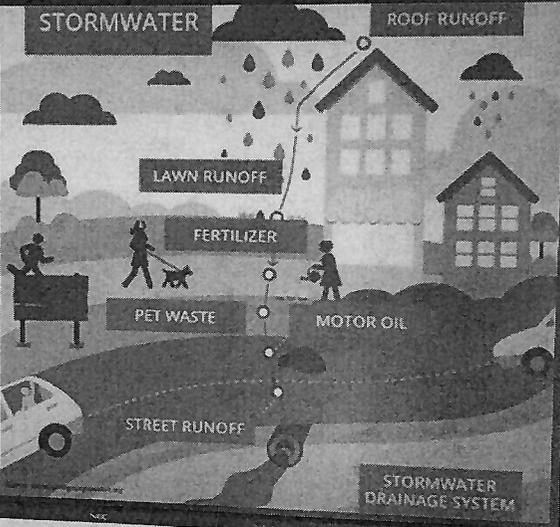
LOCAL IMPAIRED WATERWAYS

GCC directly discharges into an unnamed tributary of the Massaponax Creek.

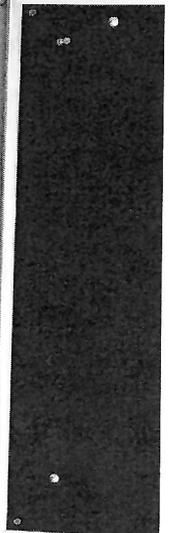
The Massaponax Creek is designated as an impaired waterway for pH and bacteria.

Pollutant sources that affect water pH are landscape additives and chemicals.

Pollutant sources of bacteria are livestock, pet waste and sanitary sewer overflows.



Science &
and Inform



High Priority Stormwater Issue #3

Garland Fenwick

From: Garland Fenwick
Sent: Monday, March 22, 2021 12:06 PM
To: Garland Fenwick
Subject: MS-4 Poster
Attachments: Close Up Poster Outside Restroom.jpg; Close Up Poster Outside Classroom.jpg; Poster Outside Restroom.jpg; Poster Outside Classroom.jpg

MS-4 poster outside of classrooms and restrooms in Science and Engineering Building.

Garland M. Fenwick
Director of Facilities
Germanna Community College
PO Box 1430
2130 Germanna Highway
Locust Grove, VA 22508
540-423-9046

As a public, comprehensive community college, Germanna provides accessible, high quality educational and training opportunities that address our communities' diverse and changing learning needs.



RAIN +

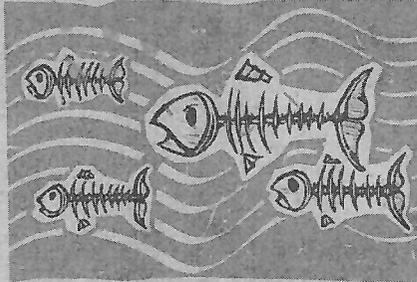
PET WASTE
GARBAGE
MEDICINES
SOLVENTS
ELECTRONIC DEVICES
ART SUPPLIES

PET WASTE
GARBAGE
MEDICINES
SOLVENTS
ELECTRONIC DEVICES
ART SUPPLIES

MOTOR OIL
INK CARTRIDGES
SEDIMENTS
BATTERIES
TRASH
ANTIFREEZE

COOKING OIL
GREASE
TOXINS

STORMDRAIN =



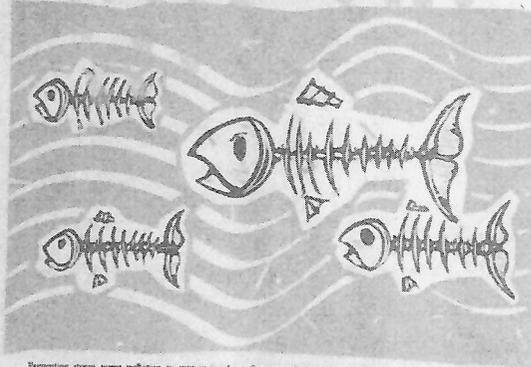
Preventing storm water pollution is everyone's job at Germanna Community College. Tires, litter and other materials found on our roads and on the ground are carried with rain and other water into storm drains. This may result in clogging our storm drains and can be a hazard to humans and wildlife. Learn more about how you can help keep our local water pollution out of our storm drains by visiting GCCC's website at www.germanna.edu/education/commcoll/stormwater/



RAIN +

PET WASTE
GARBAGE
MEDICINES
SOLVENTS
ELECTRONIC DEVICES
ART SUPPLIES
FUELS
COOKING OIL
GREASE
MOTOR OIL
INK CARTRIDGES
SEDIMENTS
BATTERIES
TRASH
ANTIFREEZE
TOXINS

STORMDRAIN =



Preventing storm water pollution is everyone's job at Germanna Community College. Trash litter and other materials tossed into our streams and on the ground are carried with rain and other water into storm drains. This mess ends up choking our waterways and can be a threat to humans and animal life. Learn more about ways to help keep pollutants out of our watersheds by visiting G.C.C.'s website at www.germannia.edu/faculty/environmental_sustainability



Appendix B: Documentation of Public Involvement Activities

Public Involvement Activity #1

From: [Shereen Hughes](#)
To: [Bryan Hofmann](#); [Garland Fenwick](#); [David Hirschman](#); [Brent Hunsinger](#); [Manchester, Mikel](#)
Subject: Agenda and guidance for Mar. 2
Date: Thursday, February 25, 2021 7:37:44 AM
Attachments: [Fredericksburg BMP Tour Agenda Mar. 2021.docx](#)
[Fredericksburg Site Plan Packet 022321 \(NXPowerLite Copy\).pdf](#)

Good Morning Everyone,

We are looking forward to the upcoming CBLP Level 1 Field Day in Fredericksburg. Attached is our agenda and BMP details that we will be using that day.

We have 12 people registered and the Governor has increased the outdoor gathering size to 25, so, thankfully, we won't have to manage two parallel groups in the afternoon.

Dave and I didn't feel a need to develop a facilitated agenda. So I thought I'd just explain a few roles and responsibilities in this email.

Brent and Mikel - if you still plan to be there and assist, please review the two videos provided in the agenda as refreshers. Your role will primarily be assisting small groups or pairs of trainees as they build independence in BMP inspections/evaluations. If you could be there to start by 9:00 that would be great. I have suggested that trainees park in the Trail Park parking lot and the rest of us park in the FOR parking lot. Bryan or Brent, if you think differently, let us know. We'll be there about an hour.

Brent - I believe that you said you've been in charge of some adaptive management where plants are concerned? We have some plant ID cards that people could use at the FOR rain garden and we'd like you to discuss how the plants have changed over time and why, as well as the typically maintenance/management practices for the rain garden.

Garland - we'll be arriving, give or take, around 12:40 at the GCC Campus and would be grateful to have you join us in the courtyard at the bioretention area. If you have the time, we would appreciate you accompanying us from 12:40, until the bathroom break. While accompanying us - we will have you introduce yourself and tell the group your title and roles and responsibilities with respect to the grounds and the BMPs. After the trainees have had a chance to evaluate the bioretention area and the fire truck lane, we'd like you to share typical maintenance of the practices and any issues that you've had to address post-construction. For instance, have you made any modifications to the practice? Is there anything that you would change regarding the plants or design of the practice? Are there portions that are hard to maintain, etc?

After the trainees have done their independent evaluation of the bioretention area behind the parking garage and the trainers have reviewed their findings, we'd like Garland to share the same types of BMP related management/functional issues that you've encountered with that practice.

From there, we'll take a restroom break (Garland will let us into a building for this) and then end the day looking at the Filterra and the pervious asphalt. Garland, you can remain with us or break off after that.

Thank you all for your support and participation in this training.

Brent and Mikel - we welcome your support and participation; however, if you need to break away at any time, no worries. This is a small group and Dave and I can handle it.

Best Wishes,

Shereen

Shereen Hughes, CBLP

Assistant Director, Wetlands Watch

Virginia Coordinator, Chesapeake Bay Landscape Professional Program

2601 Granby Street
Norfolk, VA 23517
757-880-6802 (cell)

shereen.hughes@wetlandswatch.org
wetlandswatch.org



cblpro.org

CBLP Level 1 Training Class
Fredericksburg, VA
March 2, 2021
9:30-3:15 pm

PRE Class Assignments:

Fill out

- [Covid Form](#)

Watch

- [BMP Inspection and Verification Presentation](#), by Shereen Hughes
- [BMP Worksheet and Tools Video](#), By Dave Hirschman and Beth Ginter

BMP Tour

Parking: Heritage Trail Park Parking Lot at intersection of Fall Hill Ave & Normandy Ave. (see attached map)

Overflow parking at Friends of the Rappahannock 3219 Fall Hill Ave, Fredericksburg, VA 22401

9:30 – 9:45 Introductions, Divide into Groups, and Schedule for Day – Meet at Heritage Trail bioretention area.

9:45-10:45 Heritage Trail Park bioretention area & FOR Rain Garden (50 minutes each?)

- Students will be introduced to tools, compare design details with field observations of a bioretention basin, take soil samples, measure elevation change and compare BMP measurements to design details. (30 min)
- FOR – Collect soils samples, planting plan and adaptive management (Brent Hunsinger points out plant ID) (15)

10:45 – 11:05 Restroom Break and Drive to Fredericksburg Nationals, 42 Jackie Robinson Way, Fredericksburg, VA 22401 <https://www.milb.com/fredericksburg/ballpark/directions>

11:05 – 11:55 Nationals Ball Park Bioretention BMP – Small Group Inspections (40 minutes)

- Dave – introduction & orientation to BMPs (10 minutes)
- Split up two groups between BMPs 1 & 2 to work in small groups assess/inspect, plant id, review design details (20 minutes)
- Groups switch to other BMP and compare to 1st BMP inspected (10 minutes)

11:55 – 12:40 Lunch Break and Reconvene at Germanna Community College Campus at 10000 Germanna Point Drive – Park in Parking Lot to the Left as you enter campus (55 minutes)

Afternoon 12:40 – 3:15

12:40 – 1:25 Courtyard (45 minutes)

- Courtyard Bioretention Area – Small groups assess/inspect, plant id (20 minutes)
- Permeable Surfaces - Geogrid Grass Paving
- Sheet Flow to Conserved Open Space (Walk & Talk)
- Garland Fenwick – introduced, shares role and issues with BMPs
- Q&A before moving on to independent assessment

1:35 – 2:15 Parking Garage Bioretention BMP Individual Inspection (45 minutes)

- Trainees perform individual Bioretention Area Inspection w/ Maintenance and Corrective Action Punch List (30 minutes)
- Discussion (10 minutes)
- Pond

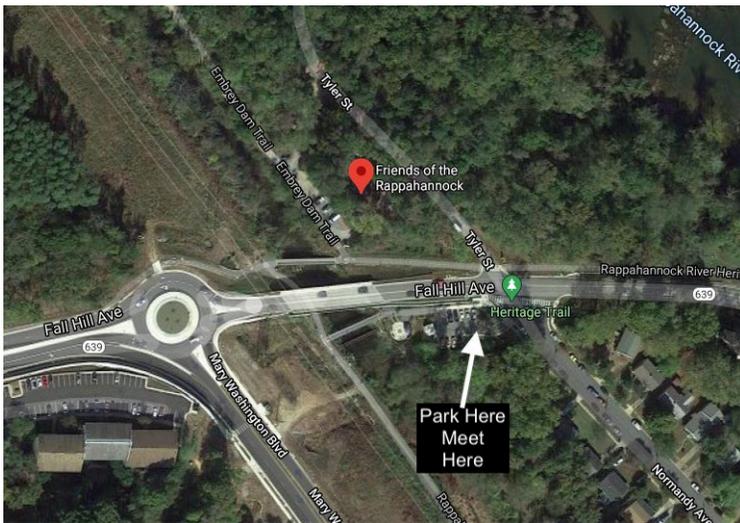
2:20 – 2:30 Restroom Break

2:30 – 2:55 Pervious Asphalt & Filterra walk and talk (25 minutes)

- Filterra – proprietary BMP in a box (walk and talk) (10 minutes)
- Pervious Asphalt Parking Lot – Example of surface treatment, discuss contributing drainage area (2:1) (15 minutes)

3:05 – 3:15 Wrap-up

9:30 meeting location



Germanna Community College – After Lunch



CBLP Fredericksburg

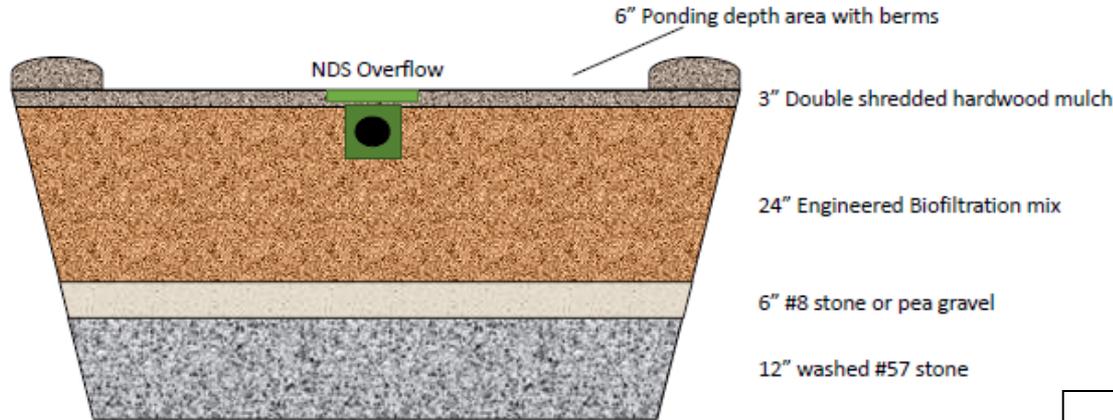
Level 1 Field Practicum

March 2, 2021

Selected BMP Details

Friends of the Rappahannock Rain Garden

Rain Garden Section View



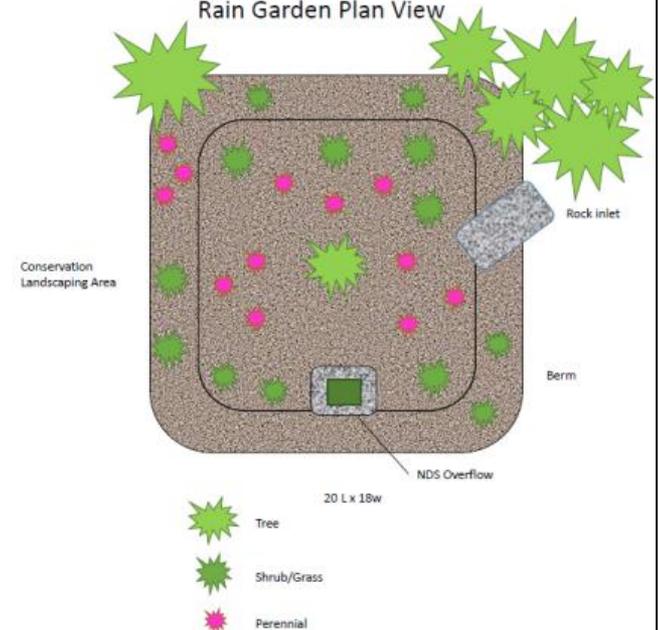
Rain Garden Planting Plan

- 1 #5 *Betula nigra*
- 3 #3 *Panicum virgatum* (Shenandoah)
- 3 #3 *Itea virginica* Little Henry
- 3 #3 *Ilex verticillata*
- 3 #1 *Eutrochium purpureum*
- 3 #1 *liatris spicata*
- 3 #1 *asclepias incarnate*
- 3 #1 *Rudbeckia hirta*

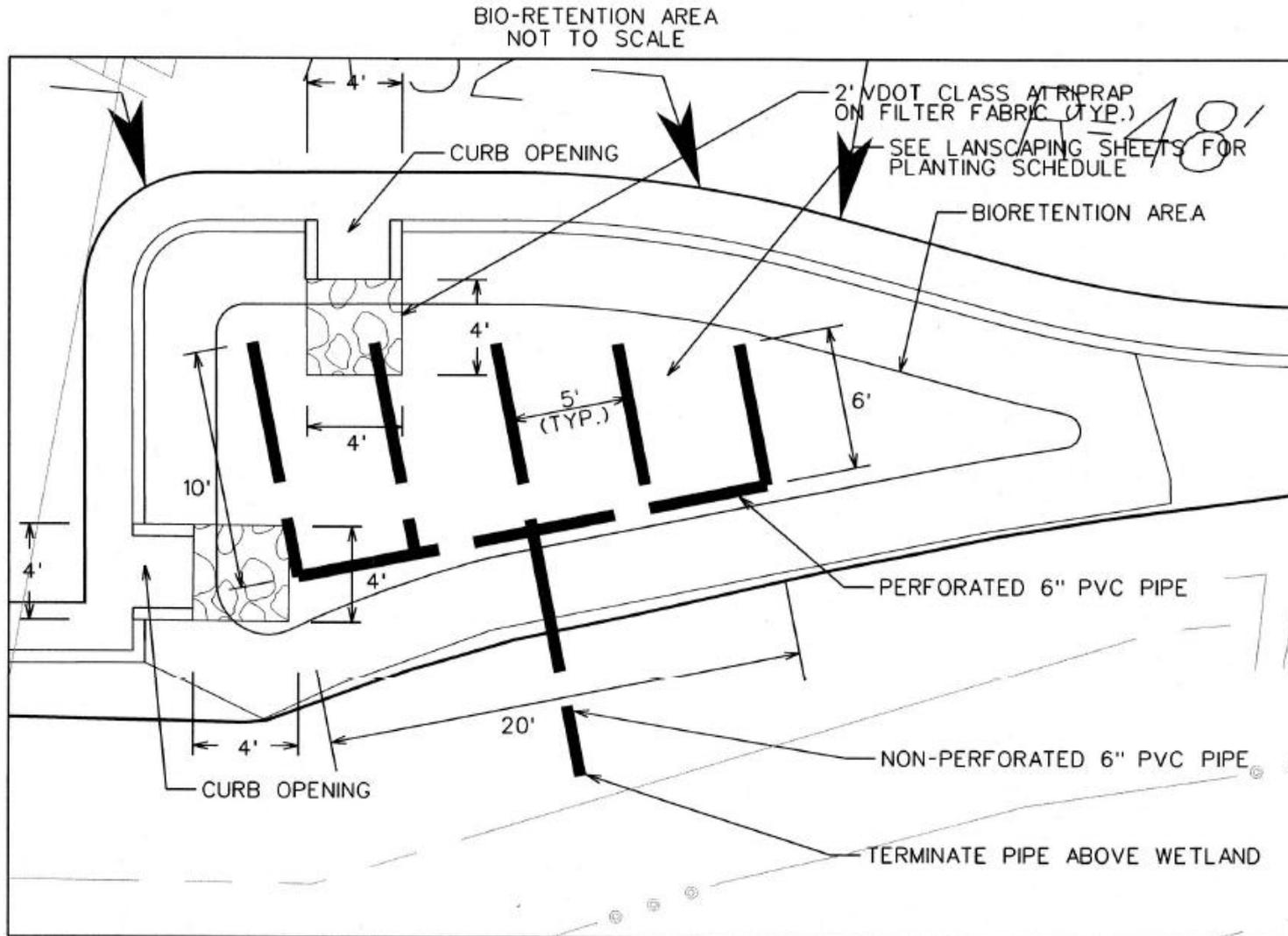
Drainage area includes rooftop runoff from 1/2 of the rear rooftop of FOR HQ. Pipe runs under the driveway and daylights into forested area as pretreatment.

Overflow includes a 4" perforated pipe installed under the driveway which daylights into forested area.

Rain Garden Plan View

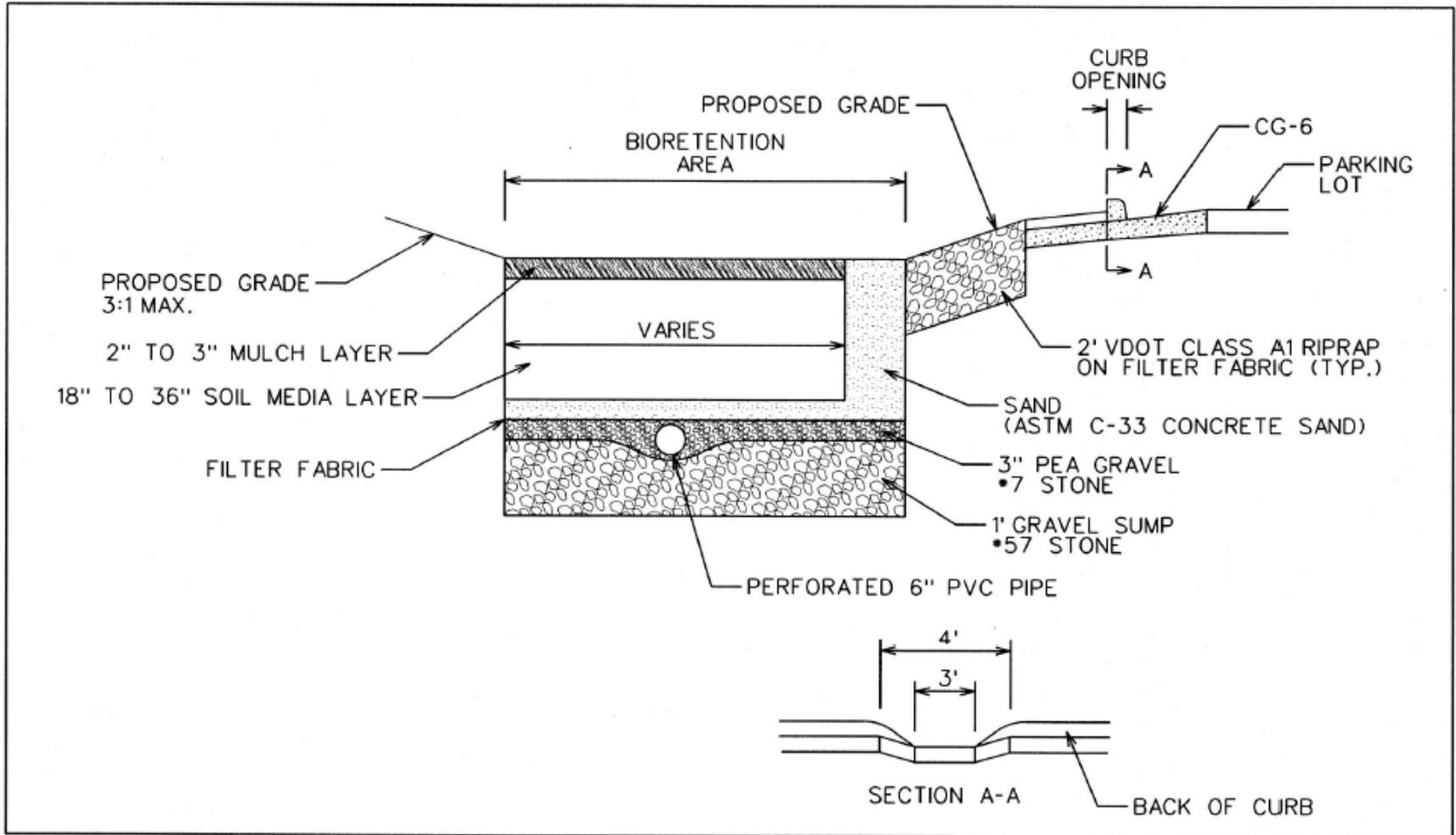


Fall Hill Avenue – Heritage Trail Park Bioretention (2012) (1)



Fall Hill Avenue – Heritage Trail Park Bioretention (2012) (2)

TYPICAL BIO-RETENTION AREA DETAIL
NOT TO SCALE



Fall Hill Avenue – Heritage Trail Park Bioretention (2012) (3)

SPECIFICATIONS:

PLANTING SOIL MEDIUM:

A HOMOGENOUS SOIL MIX OF 50-60% CONSTRUCTION SAND; 20-30% TOP SOIL WITH LESS THAN 5% MAXIMUM CLAY CONTENT, AND 20-30% ORGANIC LEAF COMPOST PROVIDES A SOIL MEDIUM WITH A HIGH INFILTRATION/FILTRATION CAPACITY.

SOIL PLACEMENT:

PLACEMENT OF THE PLANTING SOIL IN THE BIORETENTION AREA SHOULD BE IN LIFTS OF 12 TO 18 INCHES AND LIGHTLY COMPACTED. MINIMAL COMPACTION EFFORT CAN BE APPLIED TO THE SOIL BY TAMPING OR ROLLED WITH A HAND-OPERATED LANDSCAPE ROLLER.

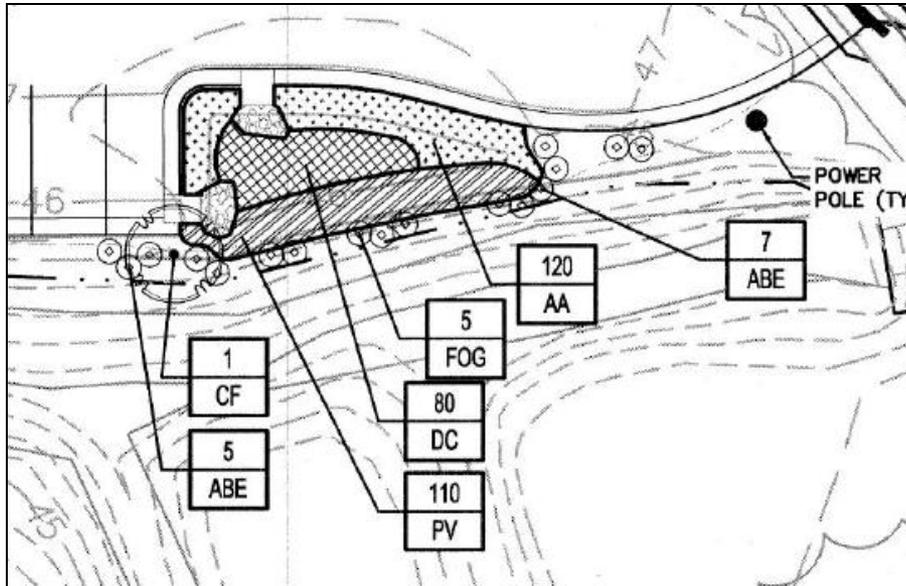
MULCH SPECIFICATIONS:

ENTIRE BIORETENTION BASIN SHALL BE MULCHED. ACCEPTABLE MULCH SHALL BE SHREDDED HARDWOOD ONLY. MULCH MUST BE WELL AGED, UNIFORM IN COLOR, AND FREE OF FOREIGN MATERIAL INCLUDING PLANT MATERIAL. WELL AGED MULCH IS DEFINED AS MULCH THAT HAS BEEN STOCKPILED OR STORED FOR AT LEAST TWELVE (12) MONTHS.

BIORETENTION INSPECTION AND MAINTENANCE SCHEDULE:

DESCRIPTION	METHOD	FREQUENCY	TIME OF YEAR
SOIL: INSPECT AND REPAIR EROSION	VISUAL	MONTHLY	MONTHLY
ORGANIC LAYER: RE-MULCH ANY VOID AREAS	BY HAND	WHENEVER NEEDED	WHENEVER NEEDED
REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER (OPTIONAL)	BY HAND	ONCE EVERY TWO TO THREE YEARS	SPRING
ADD FRESH MULCH LAYER	BY HAND	EVERY SIX MONTHS	SPRING AND FALL
PLANTS: REMOVAL AND REPLACEMENT OF ALL DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT	SEE PLANTING SPECS.	TWICE A YEAR	MARCH 15TH TO APRIL 30TH AND OCT. 1ST TO NOV. 30TH
INSPECT FOR DISEASE/PEST PROBLEMS	VISUAL	ONCE A MONTH (AVERAGE)	INSPECT MORE FREQUENTLY IN WARMER MONTHS
DETERMINE IF TREATMENT IS WARRANTED; USE LEAST TOXIC TREATMENT APPROACH	BY HAND	N/A	VARIES, DEPENDS ON DISEASE OR INSECT INFESTATION
WATERING OF PLANT MATERIAL SHALL TAKE PLACE FOR FOURTEEN CONSECUTIVE DAYS AFTER PLANTING HAS BEEN COMPLETED UNLESS THERE IS SUFFICIENT NATURAL RAINFALL	BY HAND	IMMEDIATELY AFTER COMPLETION OF PROJECT	N/A
REMOVE STAKES AND WIRES AFTER 6 MONTHS	BY HAND	AFTER TREES HAVE TAKEN ROOT	REMOVE STAKES AND WIRES WHEN POSSIBLE, BUT AT LEAST BY SIX MONTHS TIME
REMOVE TAGS	BY HAND	AT THE END OF WARRANTEE PERIOD	AT THE END OF WARRANTEE PERIOD

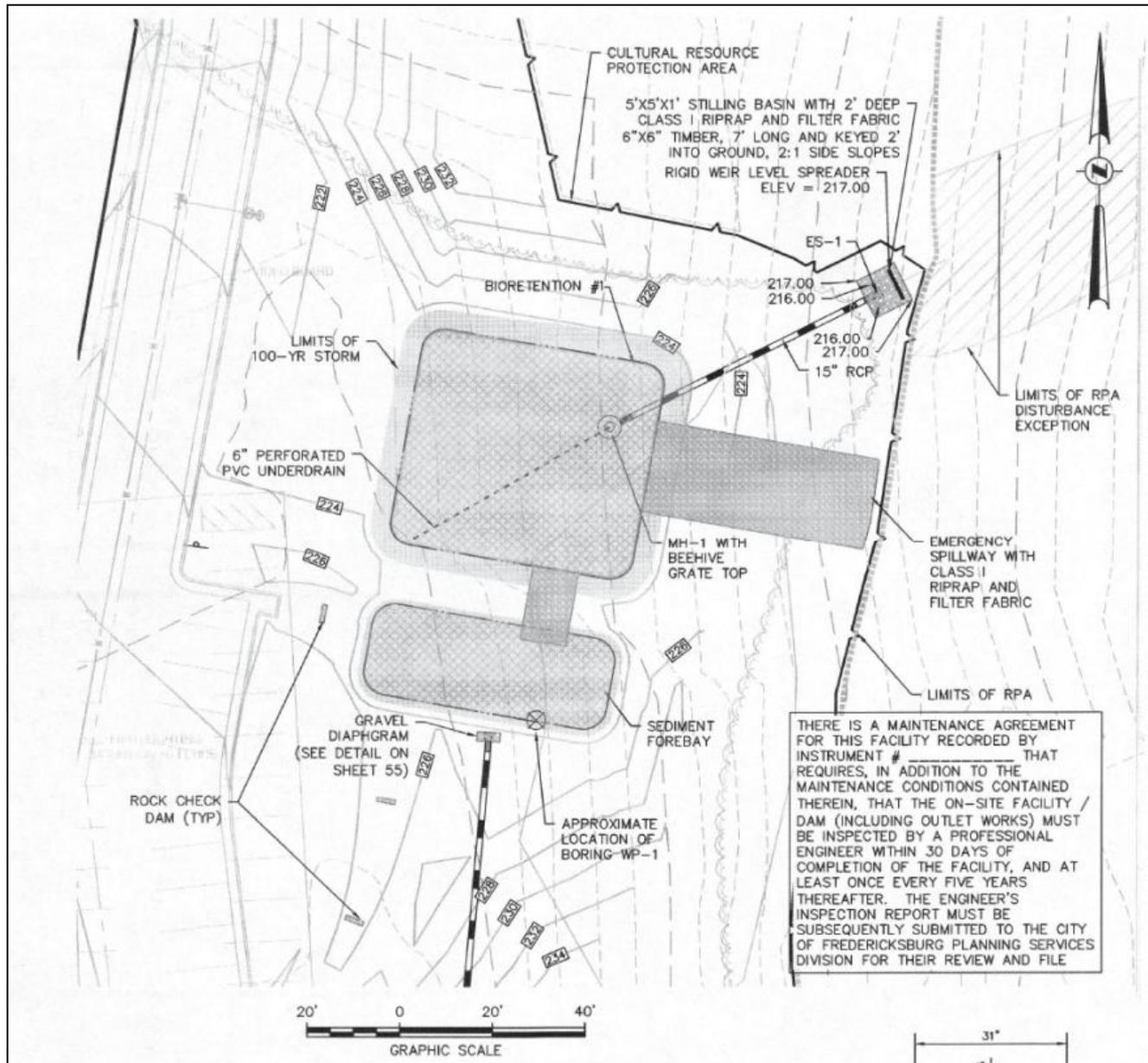
Fall Hill Avenue – Heritage Trail Park Bioretention (2012) (4)



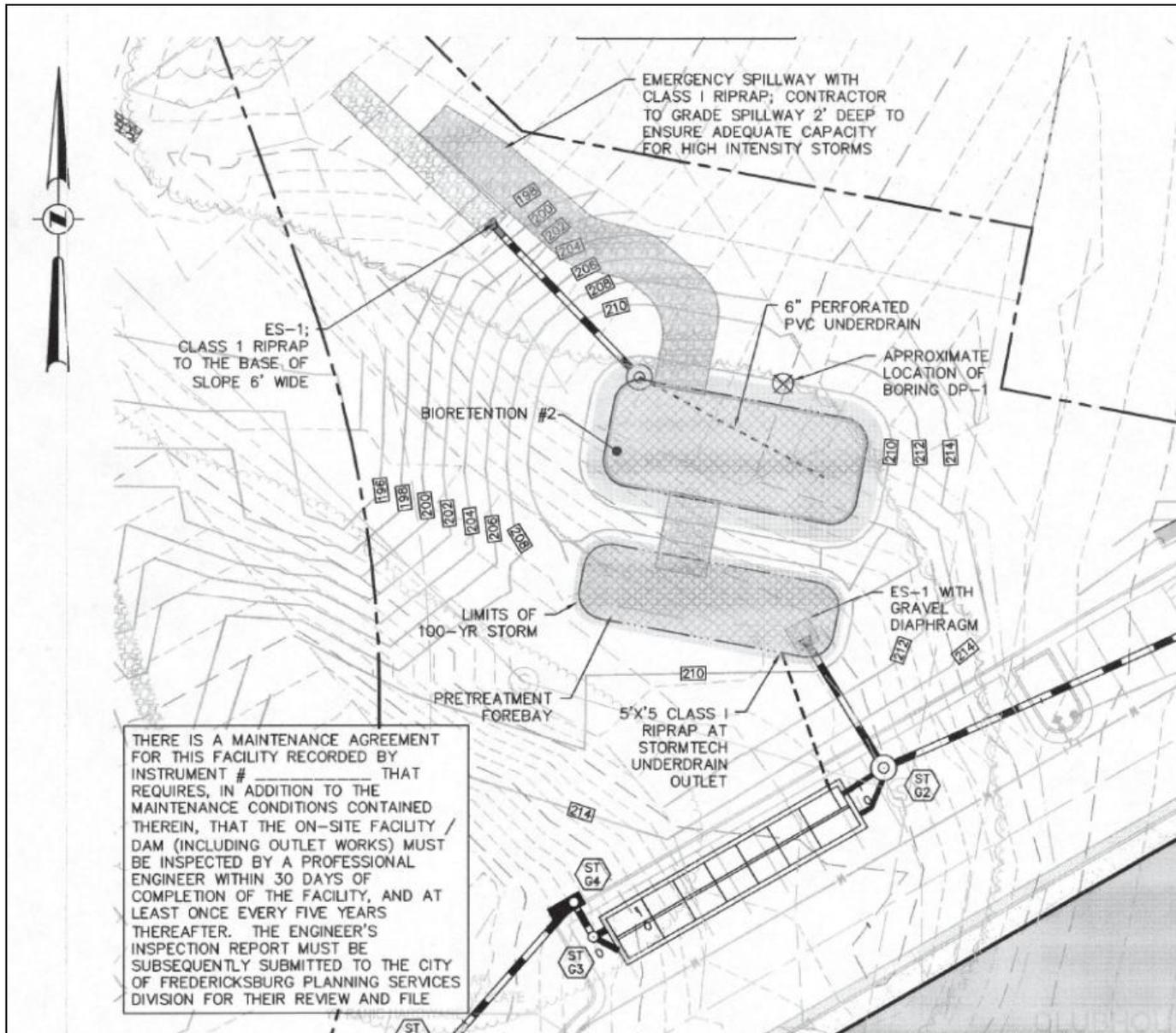
SHRUBS

ABE	12	<i>Abelia x 'Edward Goucher'</i> Edward Goucher Abelia	18" ht.	Cont.	Full, dense
FOG	29	<i>Fothergilla gardenii</i> Dwarf Fothergilla	24" ht.	Cont.	Full, dense
PV	110	<i>Panicum virgatum</i> Switch Grass	1 Qt.	Cont.	Full, dense (18" O.C.)
AA	120	<i>Agrostis alba</i> Redtop	1 Qt.	Cont.	Full, dense (18" O.C.)
DC	80	<i>Deschampsia caespitosa</i> Tufted Hairgrass	1 Qt.	Cont.	Full, dense (18" O.C.)

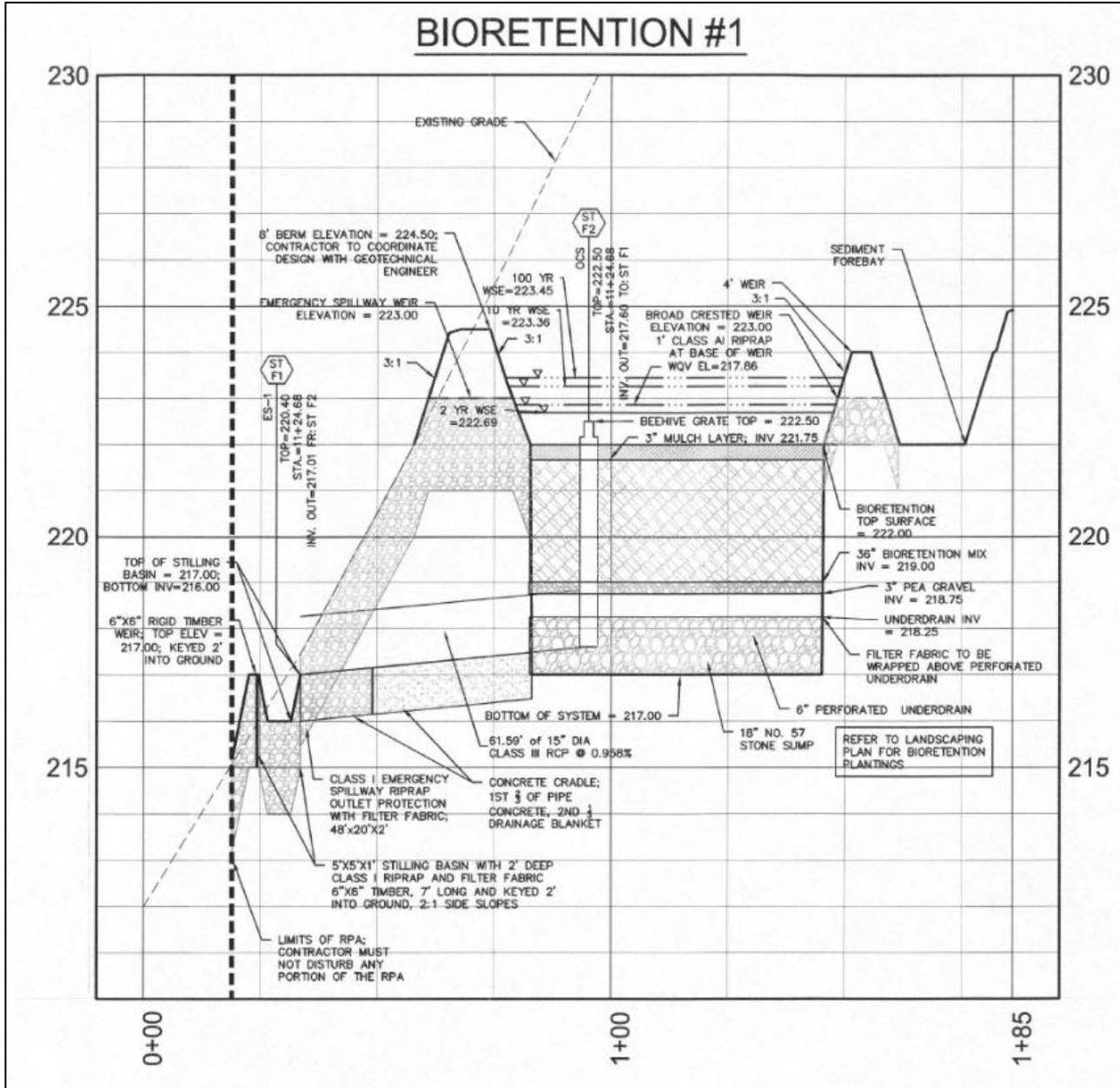
Baseball Stadium Bioretention #1 (2019) (1)



Baseball Stadium Bioretention #2 (2019)



Baseball Stadium Bioretention Profile (2019)



Baseball Stadium Bioretention Filter Media (2019)

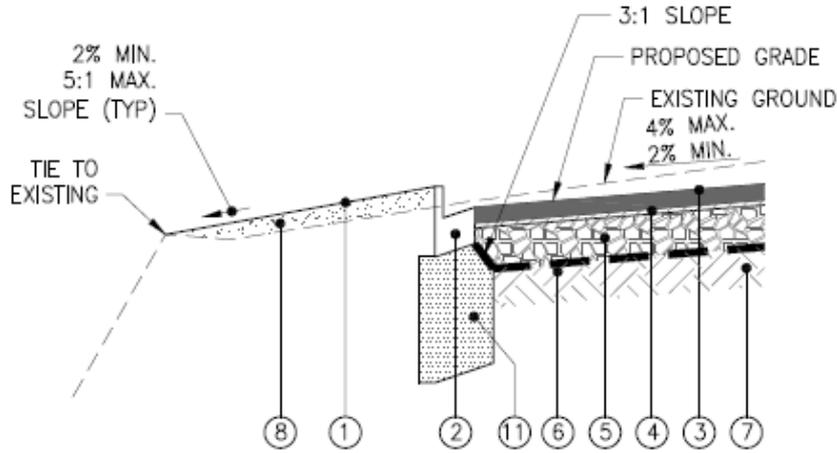
6.6. Filter Media and Surface Cover

The filter media and surface cover are the two most important elements of a bioretention facility in terms of long-term performance. The following are key factors to consider in determining an acceptable soil media mixture.

- **General Filter Media Composition.** The recommended bioretention soil mixture is generally classified as a loamy sand on the USDA Texture Triangle, with the following composition:
 - 85% to 88% sand;
 - 8% to 12% soil fines; and
 - 3% to 5% organic matter.

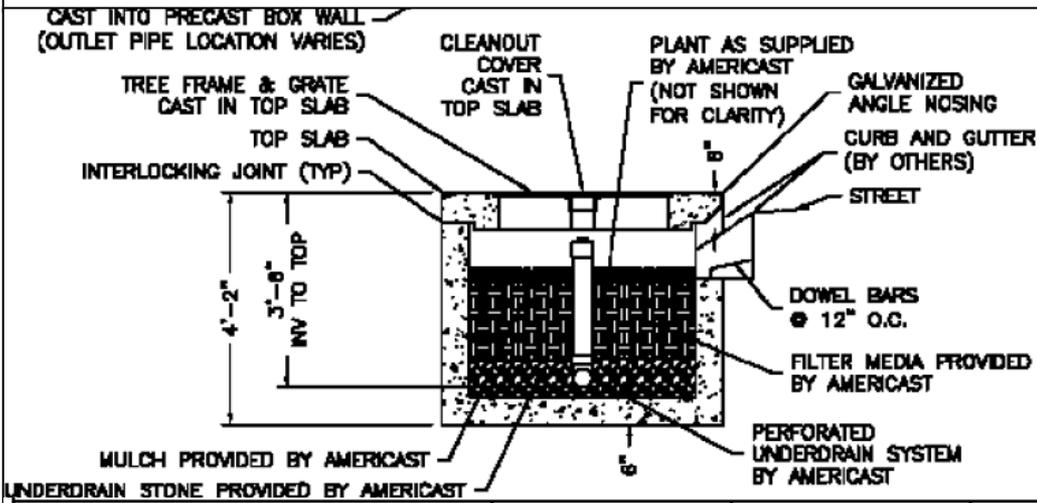
It may be advisable to start with an open-graded coarse sand material and proportionately mix in topsoil that will likely contain anywhere from 30% to 50% soil fines (sandy loam, loamy sand) to achieve the desired ratio of sand and fines. An additional 3% to 5% organic matter can then be added. (The exact composition of organic matter and topsoil material will vary, making particle size distribution and recipe for the total soil media mixture difficult to define in advance of evaluating the available material.)

Germanna CC – Porous Asphalt & Filterra (2010, 2012)



SECTION LEGEND

- ① 4" TOPSOIL, SEED, FERTILIZE, & MULCH
- ② CURB AND GUTTER
- ③ 2.5" POROUS ASPHALT PAVEMENT
- ④ 2" #57 STONE (CLEANED AND WASHED)
- ⑤ 12" #3 STONE (CLEANED AND WASHED)
- ⑥ FILTER FABRIC
- ⑦ SUBGRADE (SEE NOTE 2)
- ⑧ BACKFILL AS NEEDED
- ⑨ CURB AND GUTTER (MOD.)
- ⑩ 6" #21B STONE
- ⑪ 24"x24" #21A STONE DAM – CONTINUOUS ALONG WEST & SOUTH SIDE GUTTERS
- ⑫ 24"x12" #21B CONTINUOUS STONE DAM
- ⑬ 8" #3 STONE (CLEANED AND WASHED)
- ⑭ 2.5" VDOT STANDARD SM-9.5A ASPHALT PAVEMENT



Copyright © 2007 by Americast

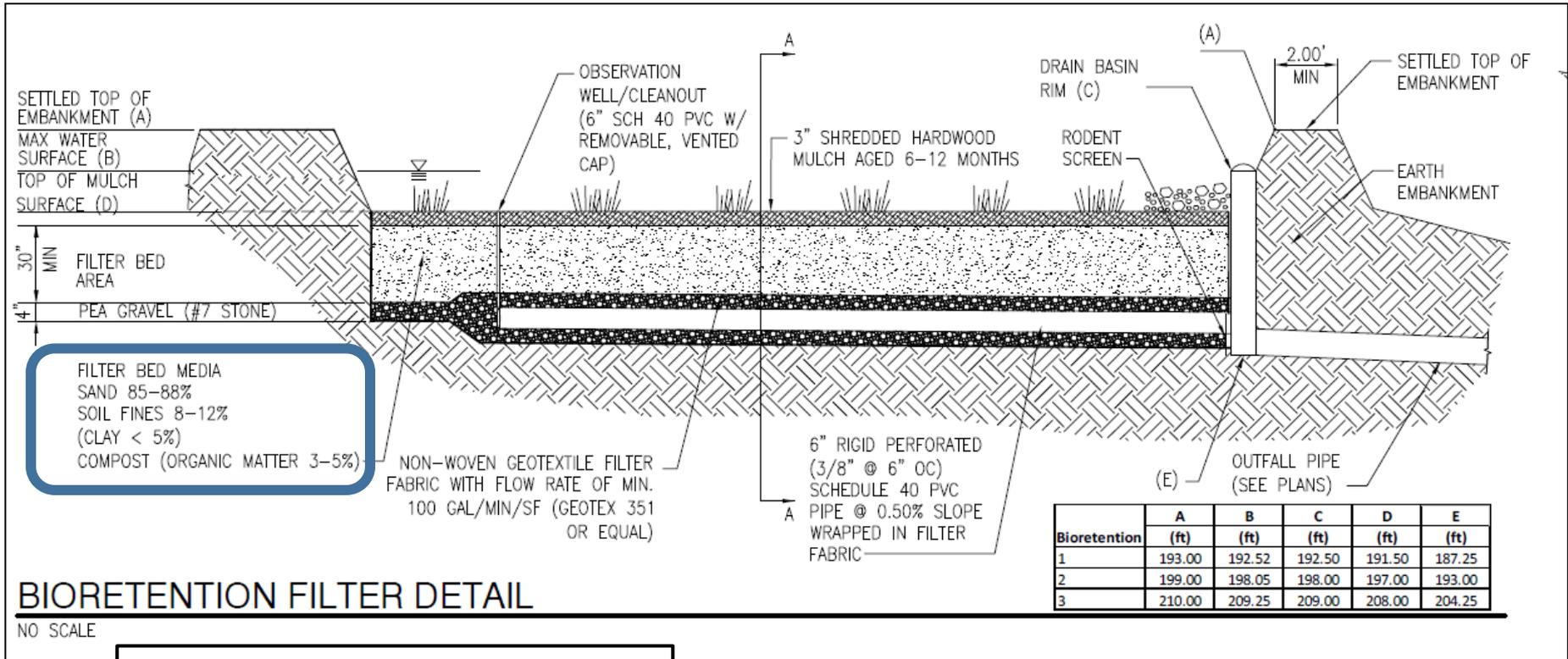
DATE: 09-04-07

DWG: FTNW-3

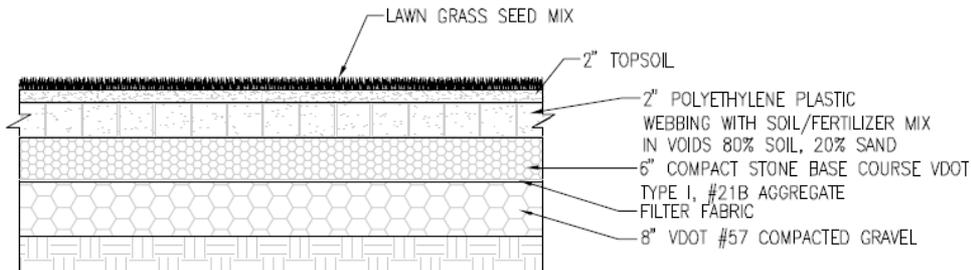
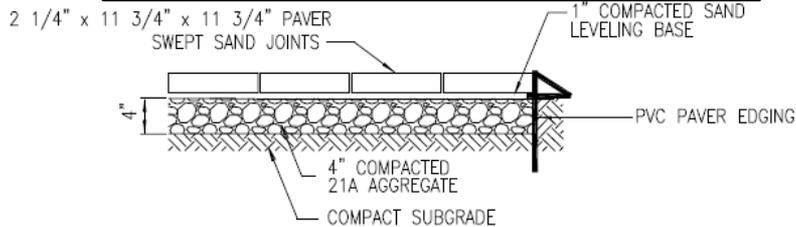
**PRECAST FILTERRA® UNIT
NARROW WIDTH CONFIGURATION**



Germanna CC – Courtyard Bioretention & Pavers (2011, 2012)



Are these pavers permeable?

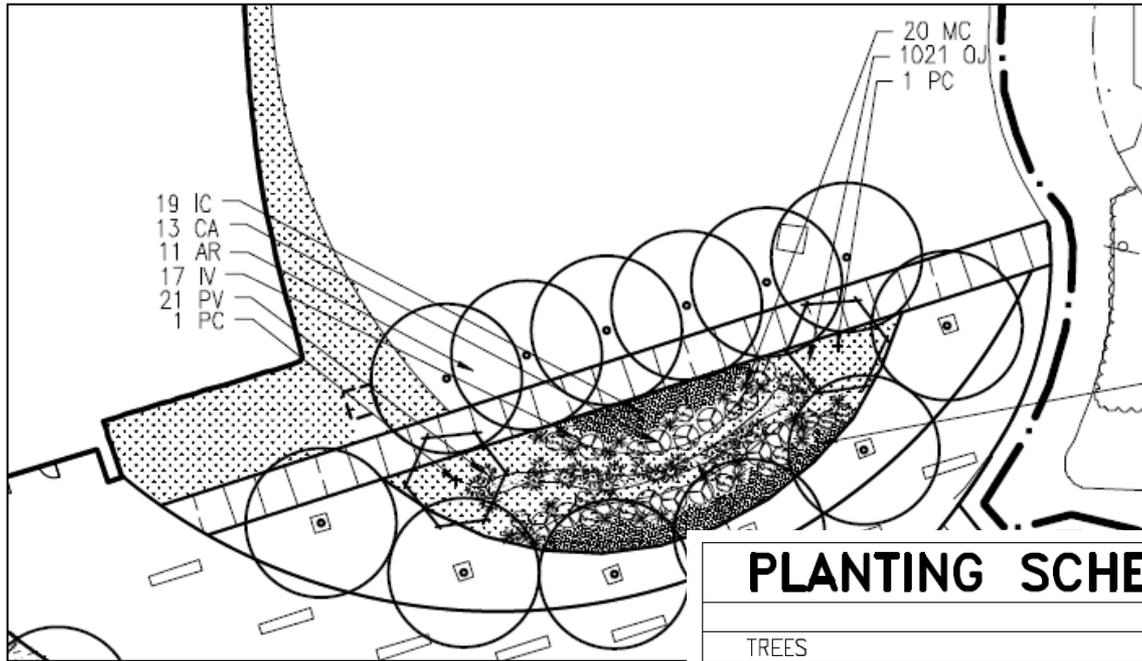


Germanna CC – Courtyard Bioretention (2011)

INSPECTION AND MAINTENANCE SCHEDULE FOR BIORETENTION BASIN

DESCRIPTION	METHOD	FREQUENCY	TIME OF THE YEAR
<u>SOIL</u>			
INSPECT AND REPAIR EROSION	VISUAL	MONTHLY	MONTHLY
INSPECT AND REPAIR BIO-AREA FOR STRUCTURAL DEFICIENCIES.	MECHANICAL OR BY HAND	TWICE A YEAR	AFTER SIGNIFICANT RAINFALL EVENTS
<u>ORGANIC LAYER</u>			
REMULCH ANY VOID AREAS	BY HAND	WHENEVER NEEDED	WHENEVER NEEDED
REMOVE PREVIOUS MULCH LAYER BEFORE APPLYING NEW LAYER (OPTIONAL)	BY HAND	ONCE EVERY TWO TO THREE YEARS	SPRING
ANY ADDITIONAL MULCH ADDED (OPTIONAL)	BY HAND	ONCE A YEAR	SPRING
<u>PLANTS</u>			
REMOVAL AND REPLACEMENT OF ALL DEAD AND DISEASED VEGETATION CONSIDERED BEYOND TREATMENT	SEE PLANTING SPECIFICATIONS	TWICE A YEAR	3/15 TO 4/30 AND 10/1 TO 11/30
TREAT ALL DISEASED TREES AND SHRUBS	MECHANICAL OR BY HAND	N/A	VARIABLES, DEPENDS ON INSECT OR DISEASE INFESTATION
WATERING OF PLANT MATERIAL SHALL TAKE PLACE AT THE END OF EACH DAY FOR FOURTEEN CONSECUTIVE DAYS AFTER PLANTING HAS BEEN COMPLETED	BY HAND	IMMEDIATELY AFTER COMPLETION OF PROJECT	N/A
REPLACE STAKES AFTER ONE YEAR	BY HAND	ONCE A YEAR	ONLY REMOVE STAKES IN THE SPRING
REPLACE ANY DEFICIENT STAKES OR WIRES	BY HAND	N/A	WHENEVER NEEDED
CHECK FOR ACCUMULATED SEDIMENTS	VISUAL	MONTHLY	MONTHLY

Germannanna CC – Courtyard Bioretention (2011)



PLANTING SCHEDULE

TREES

QUANTITY	ITEM	SCIENTIFIC NAME	COMMON NAME
20	AR	ACER RUBRUM "OCTOBER GLDRY"	OCTOBER GLORY RED MAPLE
1	IA	ILEX A ATTENUATA "EAST PALATKA"	EAST PALATKA HOLLY
4	ML	MAGNOLIA GRANDIFLORA "LITTLE GEM"	LITTLE GEM MAGNOLIA
7	PC	PYRUS CALLERYANA "CHANTICLEER"	CHANTICLEER PEAR
2	QB	QUERCUS BOREALIS	NORTHERN RED OAK

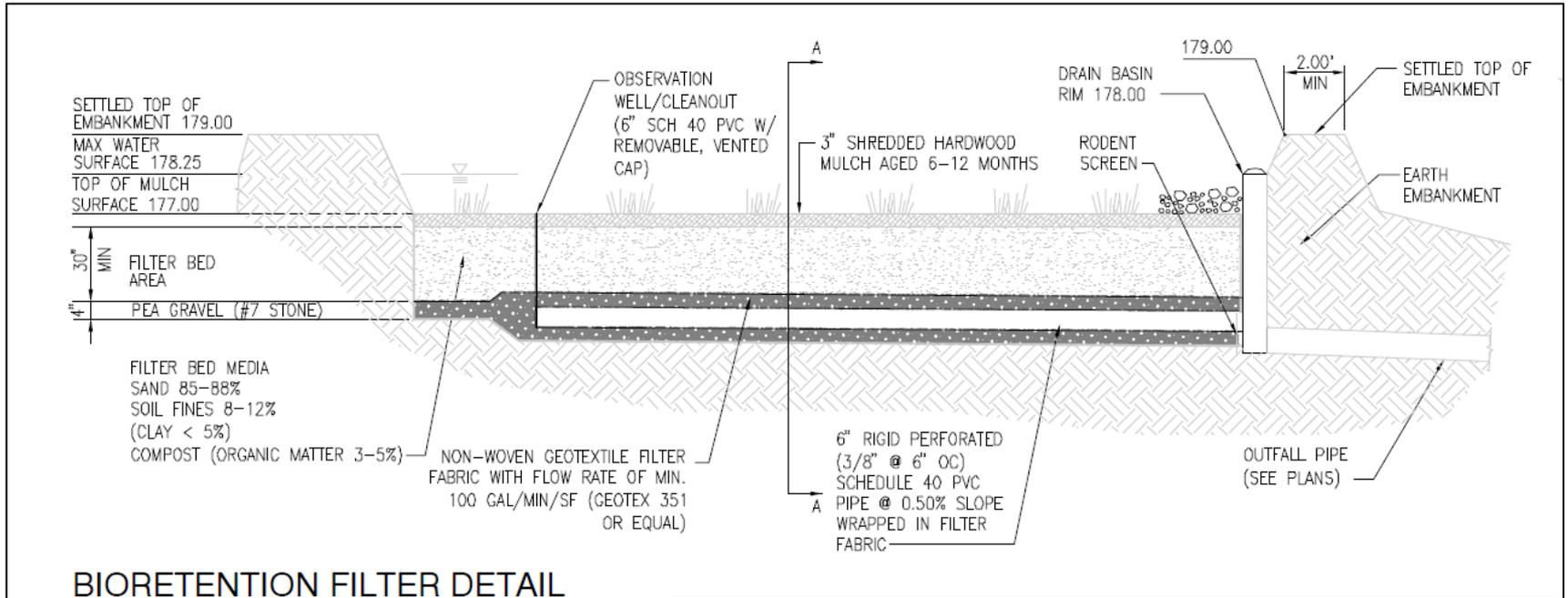
SHRUBS

16	CA	CLETHRA ALNIFOLIA	SUMMER SWEET
9	PL	PRUNUS LAUROCERASUS ZABELIANA	ZABEL CHERRY LAUREL
77	RI	RHAPHIOLEPSIS INDICA "SNOW PINK"	DWARF INDIAN HAWTHORN
17	IV	ITEA VIRGINICA "LITTLE HENRY"	LITTLE HENRY VIRGINIA SWEETSPIRE
49	IC	ILEX CORNUTA "CARISSA"	CARISSA HOLLY

GROUND COVER

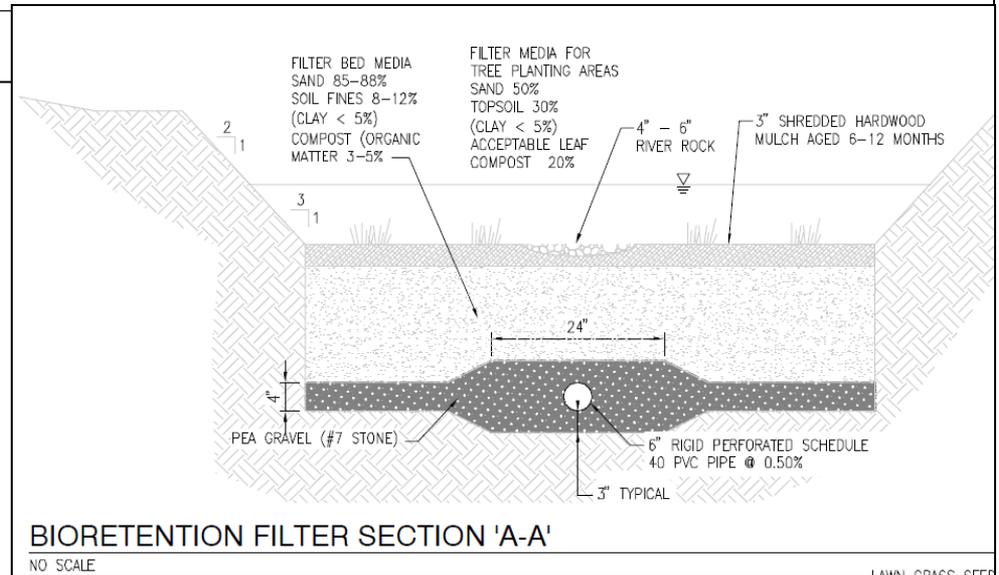
220	PA	PENNISETUM A. 'HAMELN'	DWARF FOUNTAIN GRASS
4693	OJ	OPHIPOGON JAPONICUS	MONDO GRASS
20	MC	MUHLENBERGIA CAPILLARIS	PURPLE MUHLY GRASS
21	PV	PANICUM VIRGATUM	SWITCHGRASS

Germannanna CC – Parking Garage Bioretention (2012) (1)



BIORETENTION FILTER DETAIL

NO SCALE



BIORETENTION FILTER SECTION 'A-A'

NO SCALE

Public Involvement Activity #2

From: [Garland Fenwick](#)
To: [*All-Germanna*](#)
Cc: [Garland Fenwick](#)
Subject: Important Municipal Separate Storm Sewer System Program(MS-4)
Date: Wednesday, June 2, 2021 6:59:43 AM
Attachments: [image001.jpg](#)

Dear Faculty and Staff,

Germanna's Municipal Separate Storm Sewer System Program(MS-4) requires us to provide public education pertaining to the MS-4 Program and Stormwater Management at the Fredericksburg Area Campus. Here's a link <https://www.germanna.edu/facilities/> to the Facilities web page. On the web page, you will see two short videos called Rack Up, Sweep Up and Maine Devil Ducks please take a few minutes to review the videos. The videos are a little corny but the information is appropriate to help GCC and your communities improve their MS-4 and Stormwater Management.

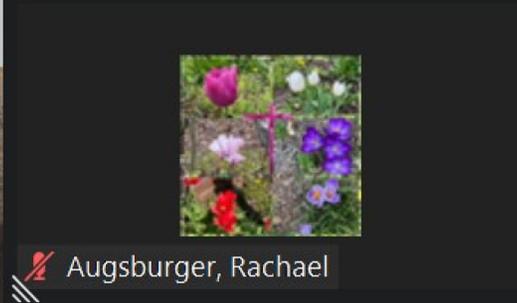
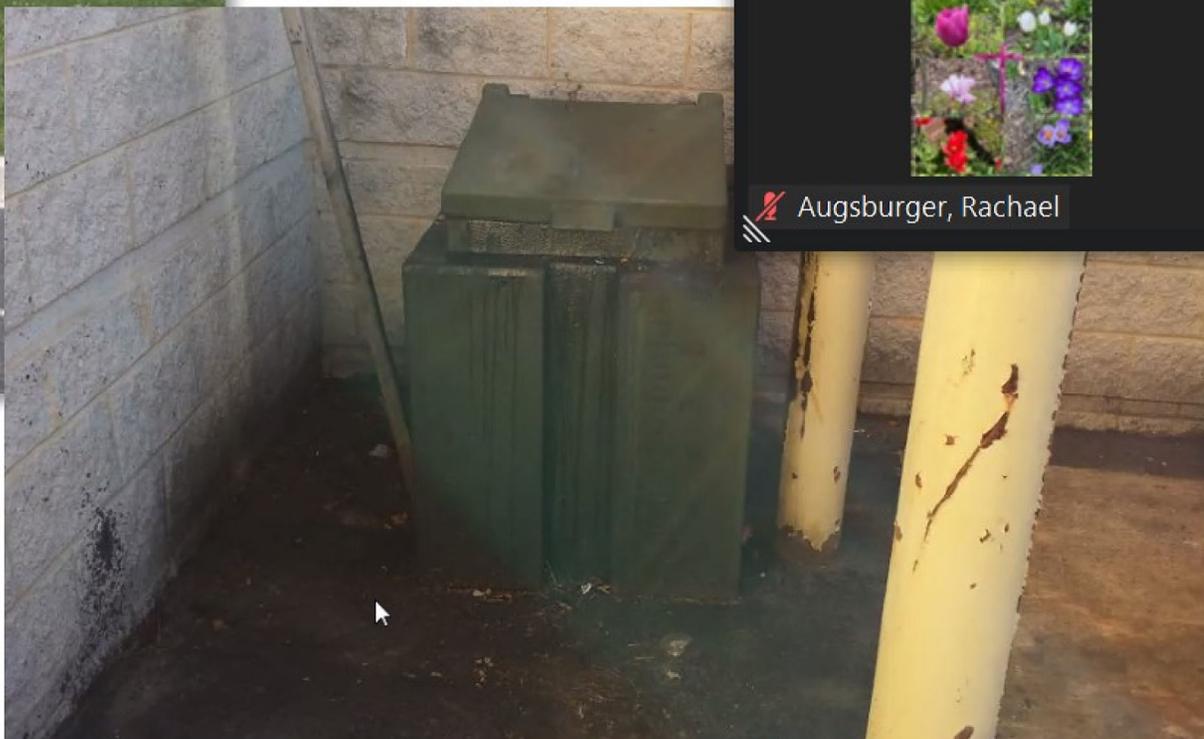
Thank you

Garland M. Fenwick
Director of Facilities
Germanna Community College
PO Box 1430
2130 Germanna Highway
Locust Grove, VA 22508
540-423-9046

As a public, comprehensive community college, Germanna provides accessible, high quality educational and training opportunities that address our communities' diverse and changing learning needs.



Good Housekeeping/Pollution Pr



Germanna Community College

Stormwater Management

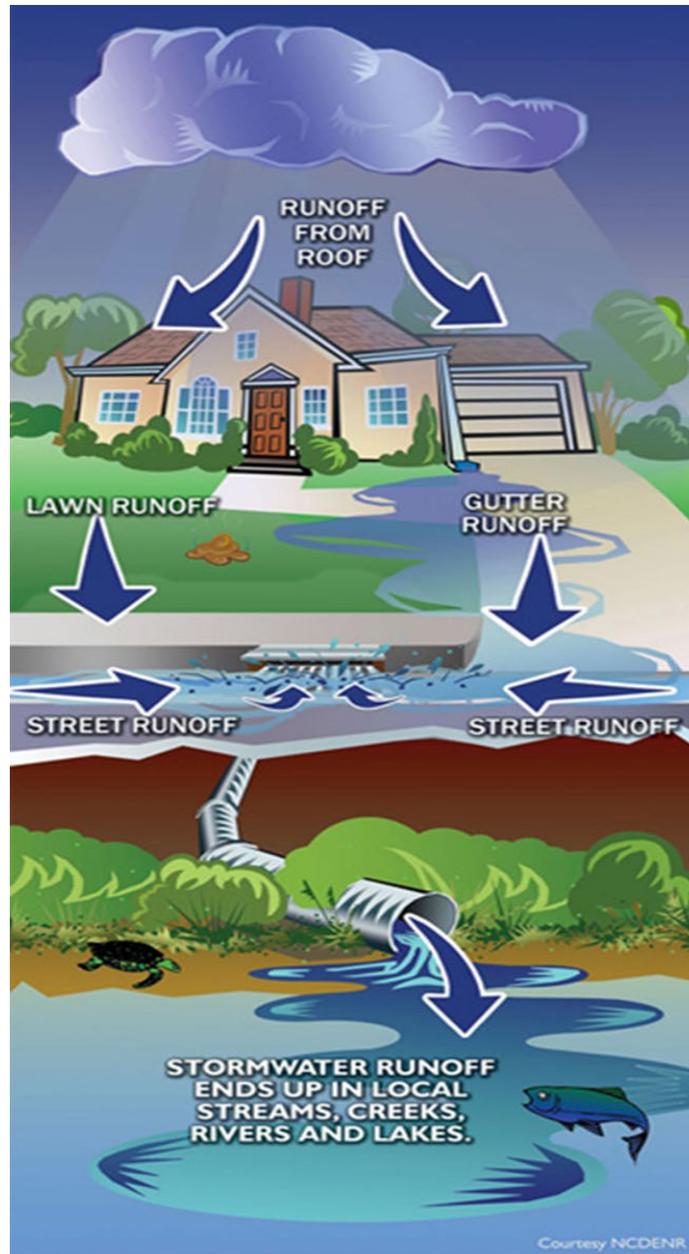
June 17, 2021

Agenda

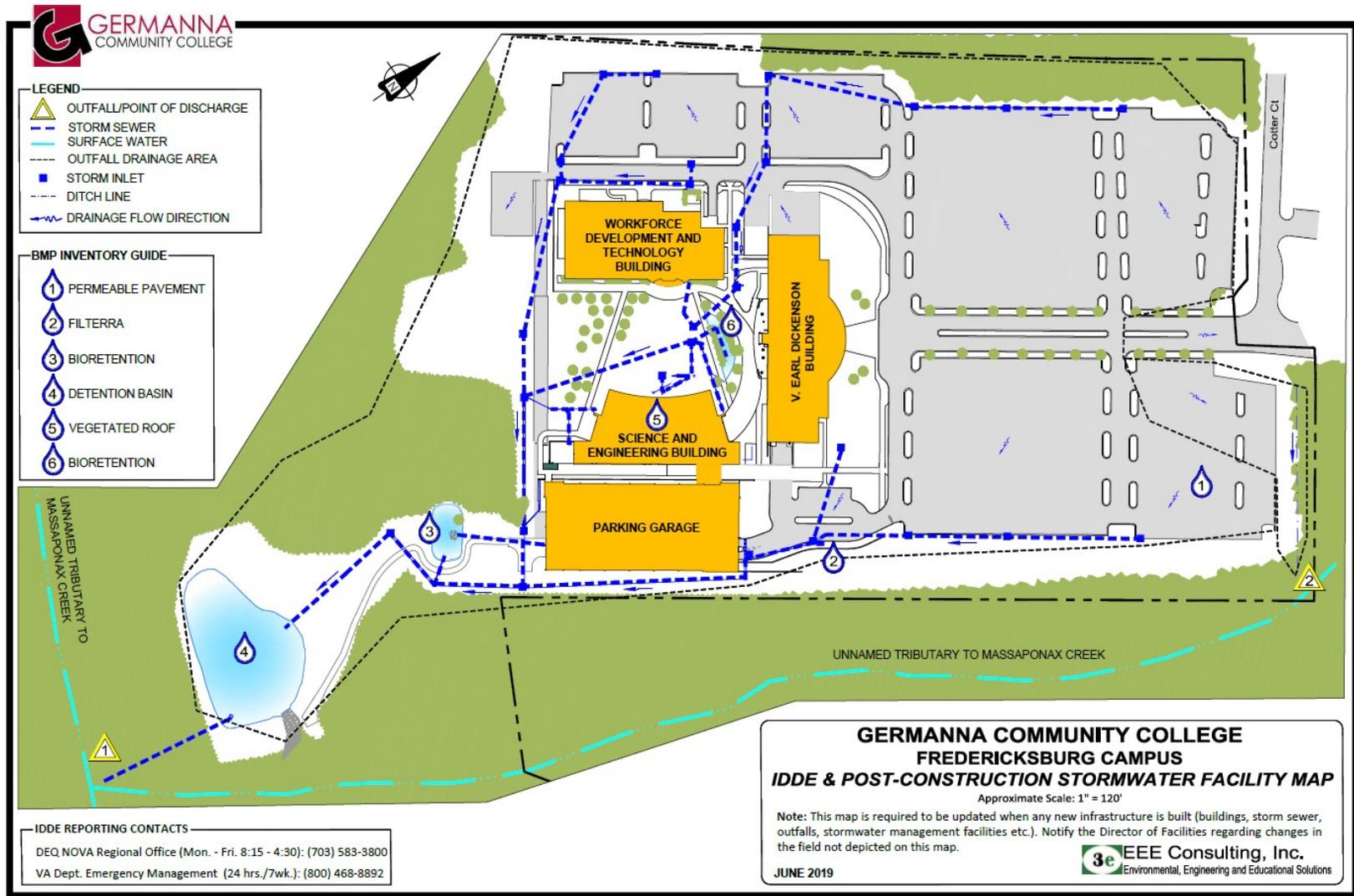
- ▶ What is Storm Water Run Off?
- ▶ Where does it go?
- ▶ Regulatory Requirements
 - ▶ MS-4 Plan(Municipal Separate Storm Sewer System)
 - ▶ TMDL(Total Maximum Daily Load)
- ▶ Questions



Stormwater Runoff



Stormwater Map



Stormwater Pond



Outfall Location



Regulatory Structure

Clean Water Act (CWA)
authorization to regulate
“point source” discharges



Compliance &
Enforcement

Construction General Permit

- Regulated Land Disturbance
- ESC & SWM

MS4 General Permit

- Localities & State Entities
within Census Urbanized Areas

MS4 General Permit

Special Conditions

1. Chesapeake Bay TMDL (Total Maximum Daily Load)

Minimum Control Measures

1. Public Education & Outreach
2. Public Involvement/Participation
3. Illicit Discharge Detection & Elimination
4. Construction Site Runoff Controls
5. Post-construction Runoff Controls
6. Pollution Prevention/Good Housekeeping

Total Maximum Daily load (TMDL)

- ▶ TMDL is a plan (pollution diet) that establishes the maximum amount of a pollutant the waterbody can hold and meet water quality standards.
- ▶ WLA(Waste Load Allocations) is the quantity of the pollutant (sediment, nitrogen, bacteria, etc.) that may be discharged.

Chesapeake Bay TMDL

- ▶ The Chesapeake Bay is impaired for Nitrogen, Phosphorous and Sediment.
- ▶ GCC implements a Chesapeake Bay TMDL Action Plan to reduce the Pollutants of Concern (POCs) based on the amount of impervious area (hard surfaces like roads, sidewalks and building footprints) on campus.
- ▶ Currently, GCC uses street sweeping as a Best Management Practice to achieve the required reductions.

Requires 5% or 326 lbs. load reduction per year for the 5 year permit cycle (Phosphorus, Nitrogen, Sediment)

Local Impaired Waterways

- ▶ GCC directly discharges into an unnamed tributary of the Massaponax Creek; however, downstream of the College is Massaponax Creek is designated as an impaired waterway.
- DEQ's 2016 impaired waters list identifies Massaponax Creek as impaired for:
 - pH (measure of amount of hydrogen and hydroxide ions in water i.e. alkalinity versus acidity); and E. coli (bacteria).
- ▶ Pollutant sources that affect water pH: landscape additives such as lime, potash; and chemicals that are alkaline, acidic or neutral in content.
- ▶ Pollutant sources of E. coli: livestock and pet waste and sanitary sewer overflows.
- Steps taken to reduce pollution of impaired waterways:
 - ▶ Limit landscape additives only in amounts needed and at appropriate times (never before a rain event);
 - ▶ Properly store and dispose of spilled chemicals; and
 - ▶ Pick-up pet waste.

Public Involvement/Education

► Involvement

- Implement 4 activities per year i.e. educational events, pollution prevention, stream restoration

► Education

- Communicate two or more strategies i.e. speaking engagements, media materials
- Program Plan/Annual Report webpage posting specifics



Illicit Discharge Detection and Elimination (IDDE)

- ▶ **What is Illicit Discharge?** *Any discharge to an MS4 that is not composed entirely of stormwater, except discharges specifically identified in the Va. Administrative Code*
- ▶ **Written IDDE procedures to detect, identify, and address nonstormwater discharges**
 - ▶ **Methods for field observations/screening**
 - Schedule (outfalls screened annually)
 - Data collection (field screening)
 - ▶ **Methods for investigation of source**
 - Observation
 - ▶ **Mechanisms for eliminations of source**
 - Policies
 - Follow-up & documentation

IDDE Continued

- ▶ Public reporting of illicit discharges
 - ▶ Promote, publicize, & facilitate reporting
 - ▶ Who to contact: Garland Fenwick, 540-423-9046
 - ▶ Conduct inspections in response to complaints
 - Ensure corrective action where necessary

What **is** an illicit discharge



What is not an illicit discharge



- Water system flushing



- Landscape irrigation



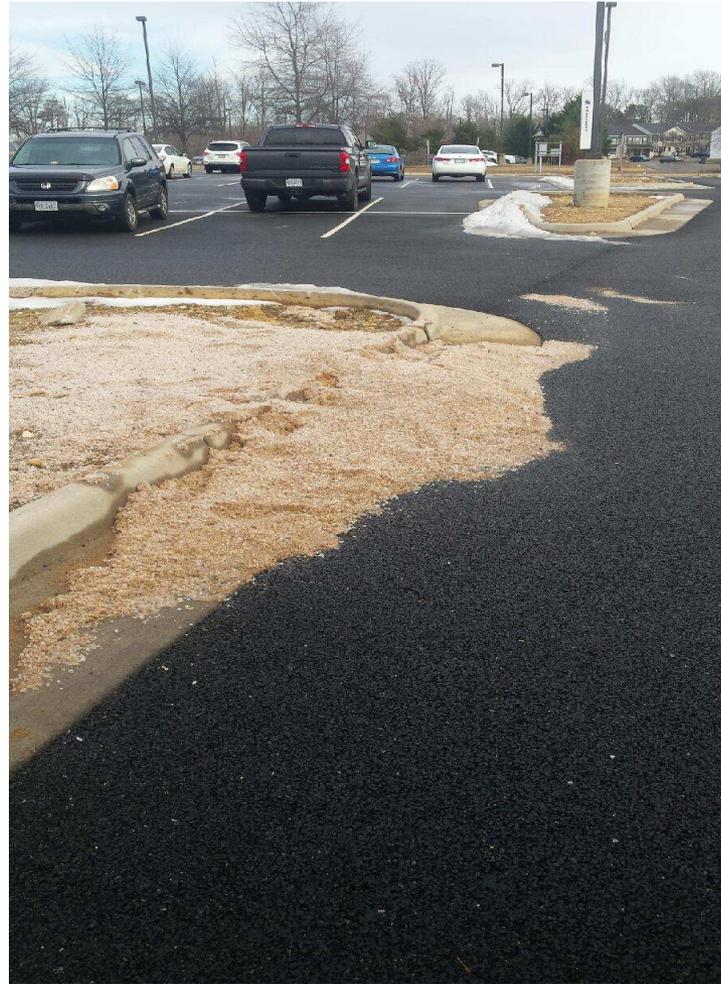
- Air Conditioning condensate

- Basement sump pumps
- Potable water sources
- Street wash water

- Spring water
- Dechlorinated pool discharge
- Agricultural irrigation water

- Foundation/footing drains
- Fire fighting activities
- Residential car washing

What is or is not illicit discharge???



Illicit Discharge Clean-up



Construction Site Runoff Controls

- ▶ VCCS Standards & Specifications for ESC
 - ▶ Approved plan prior to start of regulated land disturbance (Approved by VCCS)
 - ▶ Inspection oversight (Certified consultants)
 - ▶ Legal Authority to require compliance
- ▶ Contractor responsibilities with VCCS oversight
 - ▶ Obtain Construction General Permit (GP), when required
 - ▶ Implement the ESC Plan and meet GP requirements
 - ▶ Develop and implement Stormwater Pollution Prevention Plan (SWPPP)

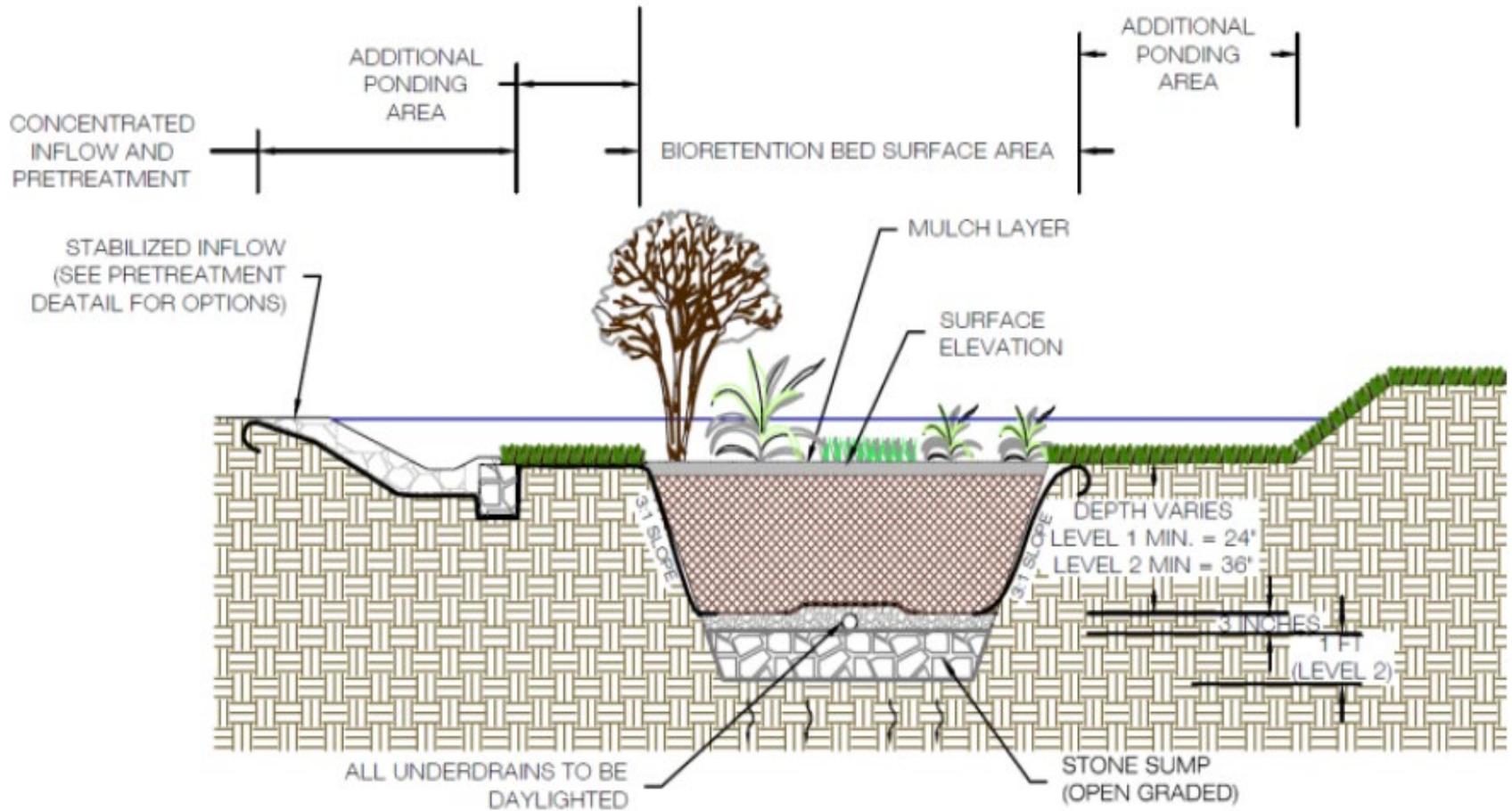
Construction Site Runoff Controls



Post Construction Controls

- ▶ Permit requires long-term Inspection, operation, & maintenance of SW BMPs
 - ▶ Written inspection & maintenance procedures
 - Conduct maintenance as necessary
 - BMP Specific Checklists
 - ▶ Annual inspections
 - Frequency of inspection may vary based on BMP type
- ▶ Additional SWM facility tracking and reporting
 - ▶ Lat./long., date brought online, date of latest inspection, total inspections

BMP Standards & Specifications



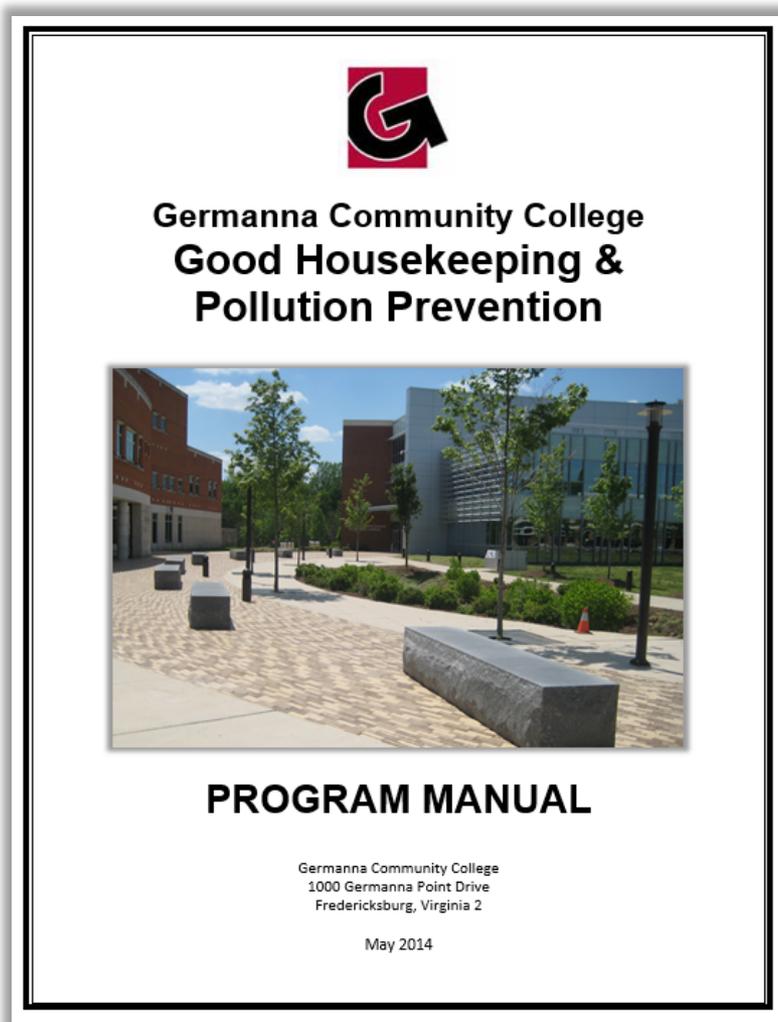
SECTION VIEW





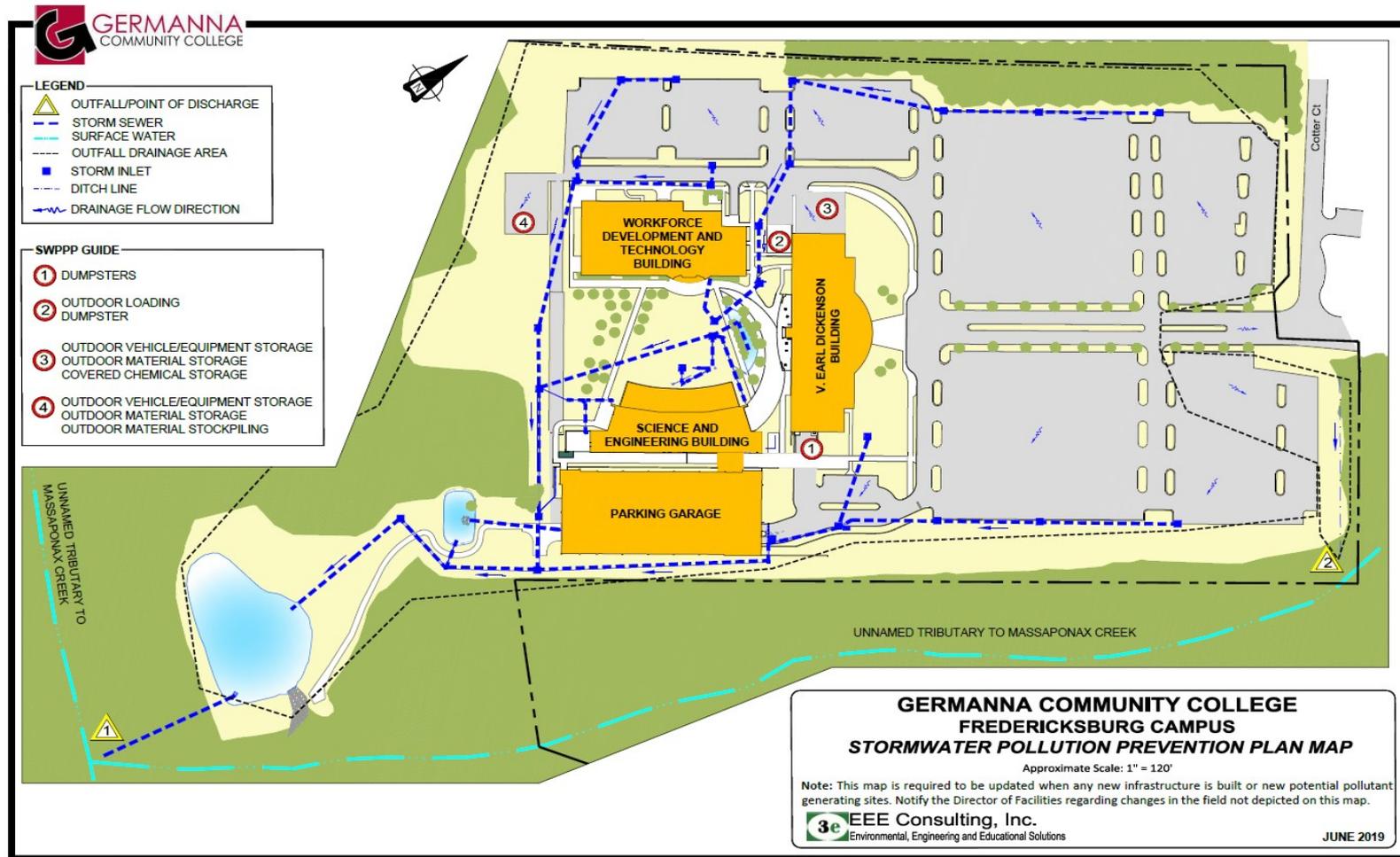


Good Housekeeping/Pollution Prevention



- ▶ Maintenance & operations procedure BMP
 - ▶ Vehicle washing, vehicle maintenance, dumpster operations/locations, fueling, chemical storage, other applicable practices
- ▶ Training Plan
- ▶ Inspection Guidance
 - ▶ Checklist/Mapping
 - ▶ Documentation
- ▶ Waste Management
 - ▶ Oil, gas, and diesel
 - ▶ Absorbents
 - ▶ Other applicable wastes
- ▶ Reporting
- ▶ Evaluation/modification

Stormwater Pollution Prevention Plan Map



Good Housekeeping/Pollution Prevention



Good Housekeeping/Pollution Prevention



Good Housekeeping/Pollution Prevention



Good Housekeeping/Pollution Prevention



QUESTIONS

**Thank You!
Garland**

EEE Consulting Inc.

Public Involvement Activity #3

Rilveria, Sara

From: Garland Fenwick
Sent: Wednesday, June 2, 2021 7:00 AM
To: *All-Germanna*
Cc: Garland Fenwick
Subject: Important Municipal Separate Storm Sewer System Program(MS-4)

Dear Faculty and Staff,

Germanna's Municipal Separate Storm Sewer System Program(MS-4) requires us to provide public education pertaining to the MS-4 Program and Stormwater Management at the Fredericksburg Area Campus. Here's a link <https://www.germanna.edu/facilities/> to the Facilities web page. On the web page, you will see two short videos called Rack Up, Sweep Up and Maine Devil Ducks please take a few minutes to review the videos. The videos are a little corny but the information is appropriate to help GCC and your communities improve their MS-4 and Stormwater Management.

Thank you

Garland M. Fenwick
Director of Facilities
Germanna Community College
PO Box 1430
2130 Germanna Highway
Locust Grove, VA 22508
540-423-9046

As a public, comprehensive community college, Germanna provides accessible, high quality educational and training opportunities that address our communities' diverse and changing learning needs.





▶ ⏪ 🔊 0:00 / 0:30

🔍 📺 ⚙️ 📱 🖥️ 🗑️

Maine Devil Ducks

49 views • Jun 2, 2021

👍 0 💬 0 ➦ SHARE ⌵ SAVE ...



Rake Up, Sweep Up

59 views • Jun 2, 2021

0 0 SHARE SAVE ...

Public Involvement Activity #4

SIGN-IN SHEET

School Name:	Geranna Community College	Date:	June 3, 2021 Portco Training
Topic:	Municipal Separate Storm Sewer System (MS4)	Location:	Fredericksburg Campus

Name	Role	Time	Flyer <input checked="" type="checkbox"/>	No.
LORETTA CAIN	Portco	11:00AM		1
Robert Wright	Portco	11:00		2
unclear	Portco	11:00		3
Kiana Lewis	Portco	11:00		4
Barbara Sievers	Portco	11:00		5
				6
				7
				8
				9
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				18
				19
				20

SIGN-IN SHEET

School Name:	Germanna Community College	Date:	JUNE 3, 2021 Portco Training
Topic:	Municipal Separate Storm Sewer System (MS4)	Location:	Fredericksburg Campus

Name	Role	Time	Flyer <input checked="" type="checkbox"/>	No.
Tiffani Staten	Supervisor	4:11 pm		1
Jeremy Cook	Housekeeper	4:11 pm		2
AJ Register	Floorcrew	4:11 pm		3
				4
				5
				6
				7
				8
				9
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CLEAN DRAINS, CLEAN WATERWAYS

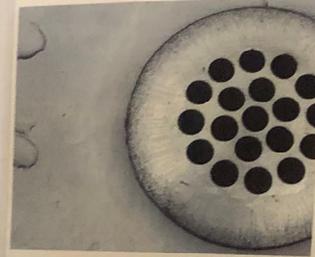


sweep & bag it

Recently, Germanna College received a request from the Germanna Community College. The issue was to see if we could help them with their drain cleaning. They had many clogs in their drains. The problem was that the drains were not being cleaned properly. The clogs were made up of hair, soap, and other debris. We were able to help them by providing them with a drain cleaning kit. The kit included a drain snake, a drain brush, and a drain cleaner. We also provided them with a drain cover. The drain cover was made of metal and had a grid of holes. This allowed water to drain while keeping the drain clean. We were able to help them with their drain cleaning problem. We are proud to be able to help our community. We are committed to providing the best service possible. We are committed to making a difference in the lives of our students. We are committed to making a difference in the lives of our community. We are committed to making a difference in the lives of our world.



CLEAN DRAINS, CLEAN WATERWAYS



sweep & bag it

Preventing groundwater pollution is essential to all communities. Germanna Community College. This poster was developed to help students, faculty, staff, and the community understand the importance of keeping our waterways and our environment clean. The poster was developed by the Germanna Community College Environmental Services Department. The poster was developed by the Germanna Community College Environmental Services Department. The poster was developed by the Germanna Community College Environmental Services Department.



FA
Be



SPECTRA SYSTEM 4
DAYCON
1 800 214 0011
www.daycon.com

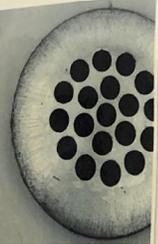
407 VIBRANCE
MILD ACID
RESTROOM CLEANER

401 CLEAR CHOICE
RESTROOM CLEANER

410 NEUTRAL DISINFECTANT
RESTROOM CLEANER

405 RENEW
RESTROOM CLEANER

**CLEAN DRAINS,
CLEAN WATERWAYS**



sweep & bag it

Removing sewerage pollution is essential to a healthy environment. Sewerage that enters the water system, getting into and disrupting water supply, drinking water, and natural resources, can pollute and harm the environment. This can occur when you are cleaning the sewerage and if you don't follow the instructions. Bag garbage and trash, and never pour grease down the kitchen drain. It clogs pipes and adds to pollution. Use correct disposal, keep pipes in excellent condition, if they are blocked, call a plumber. Sewerage is not to be put in the water. It is not to be used as fertilizer. Sewerage is not to be used as fuel. Sewerage is not to be used as a source of energy. Sewerage is not to be used as a source of raw materials. Sewerage is not to be used as a source of food. Sewerage is not to be used as a source of medicine. Sewerage is not to be used as a source of anything else.

GERMANNA
Environmental Solutions

MATERIAL SAFETY DATA SHEETS

ENVIR

**ALL WATER VALVES MUST BE
CLOSED WHEN NOT IN USE**
**TODOS LOS GRIFOS DE AGUA DEBEN
MANTENERSE CERRADOS CUANDO NO SE
ESTEN USANDO**



Purell

