

September 27, 2023

NPDES Annual MS4 Status Report Reviewer

Bureau of Clean Water
Pennsylvania Department of Environmental Protection
2 East Main Street
Norristown, PA 19401
Submitted via DEP's OnBase Electronic Forms Upload Tool

RE: New Hanover Township Annual MS4 Status Report
NPDES Permit No. PAG130020
New Hanover Township, Montgomery County, PA

Dear Reviewer,

On behalf of New Hanover Township, the Center for Watershed Protection is pleased to provide the enclosed Annual MS4 Status Report and associated documentation for the NPDES MS4 General Permit (PAG130020) covering the period from July 1, 2022 to June 30, 2023. The report documents the Township's compliance with the permit and continuing efforts to go above and beyond in improving their Stormwater Management Program.

Thank you in advance for your time. Please do not hesitate to contact me at beu@cwp.org or 484-680-0806 with any questions.

Best Regards,
Center for Watershed Protection



Beth Uhler
Pennsylvania Director

cc: Jamie Gwynn, New Hanover Township Manager
Maggie Dobbs, New Hanover Township Assistant Manager

2023 ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

NEW HANOVER TOWNSHIP, MONTGOMERY COUNTY
PENNSYLVANIA



2943 N CHARLOTTE ST
GILBERTSVILLE, PA 19525

September 30, 2023

(MS4 Reporting Period July 1, 2022 to June 30, 2023)

Prepared by:

**CENTER FOR
WATERSHED
PROTECTION**

Center for Watershed Protection, Inc.
11711 East Market Pl, Suite 200
Fulton, MD 20759

<https://www.cwp.org>

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ANNUAL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) STATUS REPORT

FOR THE PERIOD July 1, 2022 TO JUNE 30, 2023

GENERAL INFORMATION					
Permittee Name:	New Hanover Township	NPDES Permit No.:	PAG130020		
Mailing Address:	2943 N. Charlotte Street	Effective Date:	1/15/2019		
City, State, Zip:	Gilbertsville, PA 19525	Expiration Date:	3/15/2025		
MS4 Contact Person:	Jamie L. Gwynn	Renewal Due Date:	3/15/2025		
Title:	Township Manager	Municipality:	New Hanover Township		
Phone:	610-631-0450	County:	Montgomery		
Email:	jgwynn@newhanover-pa.org				
Co-Permittees (if applicable): n/a					
Appendix(ces) that permittee is subject to (select all that apply):					
<input type="checkbox"/> Appendix A <input type="checkbox"/> Appendix B <input checked="" type="checkbox"/> Appendix C <input type="checkbox"/> Appendix D <input checked="" type="checkbox"/> Appendix E <input type="checkbox"/> Appendix F					
WATER QUALITY INFORMATION					
Are there any discharges to waters within the Chesapeake Bay Watershed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Identify all surface waters that receive stormwater discharges from the permittee's MS4 and provide the requested information (see instructions).					
Receiving Water Name	Ch. 93 Class.	Impaired?	Cause(s)	TMDL?	WLA?
Swamp Creek (reach 02040203000487)	TSF	Yes	Municipal Point Source-Cause Unknown; Urban Runoff/Storm Sewer Siltation	No	No
Swamp Creek (reach 02040203000488)	TSF	No		No	No
Minister Creek	TSF	No		No	No
Middle Creek	TSF	No		No	No
Scioto Creek	TSF	No		No	No
Unnamed Tributary (UNT) to Sanatoga Creek	WWF	No		No	No
UNTs to Miniter Creek	TSF	No		No	No
UNTs to Swamp Creek (reach 02040203000488)	TSF	No		No	No

GENERAL MINIMUM CONTROL MEASURE (MCM) INFORMATION

Have you completed all MCM activities required by the permit for this reporting period? Yes No

List the current entity responsible for implementing each MCM of your SWMP, along with contact name and phone number.

MCM	Entity Responsible	Contact Name	Phone
#1 Public Education and Outreach on Storm Water Impacts	New Hanover Township	Maggie Dobbs	610-323-1008 x103
#2 Public Involvement/Participation	New Hanover Township	Maggie Dobbs	610-323-1008 x103
#3 Illicit Discharge Detection and Elimination (IDD&E)	New Hanover Township	Jay Kowal	610-323-1008
#4 Construction Site Storm Water Runoff Control	New Hanover Township	Jamie Gwynn	610-323-1008
#5 Post-Construction Storm Water Management in New Development and Redevelopment	New Hanover Township	Maggie Dobbs	610-323-1008 x103
#6 Pollution Prevention / Good Housekeeping	New Hanover Township	Jay Kowal	610-323-1008

MCM #1 – PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS

BMP #1: Develop, implement and maintain a written Public Education and Outreach Program.

- For new permittees only, has the written PEOP been developed and implemented within the first year of permit coverage?
 Yes No
- Date of latest annual review of PEOP: March 2023 (last updated March 2021) Were updates made? Yes No
- What were the plans and goals for public education and outreach for the reporting period?
 - Review the PEOP and update as necessary.
 - Review the target audience list and update as necessary.
 - Review the information and links on the stormwater page of the Township website and update as necessary.
 - Display and distribute stormwater educational information at the Township Building and parks.
 - Distribute stormwater information to new homeowners.
 - Include MS4 educational materials on stormwater in bills and once a year on employee paychecks.
 - Continue involvement with the Township Environmental Advisory Board (EAB).
 - Educate PCSM BMP owners about stormwater and BMP maintenance to help ensure proper O&M by sending out a mailing and monitoring compliance of BMP inspections.
 - Publish at least one article relating to stormwater in the Township newsletter
- Did the MS4 achieve its goal(s) for the PEOP during the reporting period? Yes No
- Identify specific plans and goals for public education and outreach for the upcoming year:

The Township plans to continue implementing the plans and goals outlined in #3 above.

BMP #2: Develop and maintain lists of target audience groups present within the areas served by your MS4.

- For new permittees only, have the target audience lists been developed and implemented within the first year of permit coverage?

Yes No

2. Date of latest annual review of target audience lists: March 2023 Were updates made? Yes No

BMP #3: Annually publish at least one educational item on your Stormwater Management Program.

1. For new permittees only, were stormwater educational and informational items produced and published in print and/or on the Internet within the first year of permit coverage?

Yes No

2. Date of latest annual review of educational materials: March 2023 Were updates made? Yes No

3. Do you have a municipal website? Yes No (URL: newhanover-pa.org/departments/planning/stormwater_management.php)

If Yes, what MS4-related material does it contain?

The website contains a stormwater web page under "Planning" which provides an overview of stormwater management, a link to an ArcGIS Online (AGOL) web map app of Township stormwater infrastructure, NPDES MS4 permitting overview, Tips for Contractors, Tips for Residents, EPA Minimum Control Measure (MCM) forms, and numerous links to a wide variety of educational and government websites. Some of these links include the EPA Stormwater Basic Information, PADEP Stormwater Management Program, Perkiomen Watershed Conservancy, Homeowner's Guide to Stormwater, Green Guide for Property Management, etc.

The Township also published a Story Map entitled "Stormwater Management Simplified" that is linked on the stormwater webpage which provides an overview of stormwater management and the Township's NPDES MS4 Program.

4. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:
Please refer to BMP #4 for additional methods used and Attachment A for supporting documentation.
5. Identify specific plans for the publication of stormwater materials for the upcoming year:
 - Publish at least one article relating to stormwater in a Township newsletter.
 - Review and update the posted Story Map as necessary to support the Stormwater BMP Inspection Program outreach.

BMP #4: Distribute stormwater educational materials to the target audiences.

Identify the two additional methods of distributing stormwater educational materials during the previous reporting period (e.g., displays, posters, signs, pamphlets, booklets, brochures, radio, local cable TV, newspaper articles, other advertisements, bill stuffers, posters, presentations, conferences, meetings, fact sheets, giveaways, or storm drain stenciling).

-An informative article was posted on the Township's Facebook page titled "Spring Stormwater Pollution Tips" on May 23, 2023 which describes clean-up of leaf litter, careful fertilization, mowing strategies and planting of native plants to reduce pollution of storm sewers and protect the local watershed.

-The Township's Spring 2023 Newsletter contained multiple articles related to stormwater and storm drain maintenance including (but not limited to) resource preservation, illicit discharge reporting, yard and leaf waste and the role of the Environmental Advisory Board.

-An article titled "Stormwater Pollution Prevention Tips" as published by Perkiomen Watershed Conservancy and shared by New Hanover Township in Summer 2023.

-An information poster discussing rain barrels and an advertisement for a Rain Barrel Workshop with Perkiomen Watershed Conservancy was posted to the Township Facebook page, May 22, 2023.

-The Township's 2022 Fall/Winter Newsletter includes an article on Inflow and Infiltration which discusses discharges of excess stormwater from systems and ways that homeowners can help reduce inflow and infiltration.

-A Basin Retrofit Brochure is available to the public in the Township Office.

-The Township's Website contains several links to Stormwater Management information including: "Quick Resource Guide for Winter Maintenance BMPs" developed by SPC Water Resource Center and the DEP; the DEP's "Be Stormwater Smart" Brochure; as well as various links to information by the USEPA, PA DEP, PennDOT, FEMA, County Conservation Districts, and the Center for Watershed Protection, etc.

MCM #1 Comments:

Refer to Attachment A for MCM #1 supporting documentation. The most recent updated written PEOP was submitted with the 2021 Annual MS4 Status Report and is available upon request.

MCM #2 – PUBLIC INVOLVEMENT/PARTICIPATION

BMP #1: Develop, implement and maintain a written Public Involvement and Participation Program (PIPP)

1. For new permittees only, was the PIPP developed and implemented within one year of permit coverage?

Yes No

2. Date of latest annual review of PIPP: March 2023 (last updated March 2021) Were updates made? Yes No

BMP #2: Advertise to the public and solicit public input on ordinances, SOPs, Pollutant Reduction Plans (PRPs) (if applicable) and TMDL Plans (if applicable), including modifications thereto, prior to adoption or submission to DEP:

1. Was an MS4-related ordinance, SOP, PRP or TMDL Plan developed during the reporting period? Yes No
2. If Yes, describe how you advertised the draft document(s) and how you provided opportunities for public review, input and feedback:

The Township Stormwater Ordinance was updated for consistency with the 2022 PA DEP Model Stormwater Management Ordinance during this reporting period, as well as detailed review with many additional improvements beyond the MS4 requirements. The updates were discussed at several Board of Supervisors (BOS) and Planning Commission meetings throughout the reporting period. The ordinance was authorized to be advertised by the BOS on 11/10/2022 and 11/17/2022 and adopted on 12/1/2022. The executed ordinance document was provided to PA DEP via email on January 9, 2023. The public notice advertisement and proof of publication is provided in Attachment B.

3. If an ordinance, SOP or plan was developed or amended during the reporting period, provide the following information:

Ordinance / SOP / Plan Name	Date of Public Notice	Date of Public Hearing	Date Enacted or Submitted to DEP
Chapter 23: Stormwater Management Ordinance	11/10/2022 & 11/17/2022	12/01/2022 (BOS Meeting)	12/01/2022 adopted; provided to DEP 1/09/2023
*Another update to the Stormwater Ordinance is proposed and anticipated to be adopted at the 9/7/2023 Board of Supervisors Meeting			

BMP #3: Regularly solicit public involvement and participation from the target audience groups using available distribution and outreach methods.

1. At least one public meeting or other MS4 event must be held during the 5-year permit coverage period to solicit participation and feedback from target audience groups. Was this meeting or event held during the reporting period?
- Yes No If Yes, Date of Meeting or Event: The Township had a presentation on the NPDES MS4 Program during the 5-year period at a BOS meeting on October 3, 2019. The Township continues to have discussions and presentations on stormwater-related topics at numerous public meetings.
2. Report instances of cooperation and participation in MS4 activities; presentations the permittee made to local watershed and conservation organizations; and similar instances of participation or coordination with organizations in the community.
- A stormwater presentation was held at a Township pig roast and discussed at the August 4, 2022 Board of Supervisors (BOS) Meeting.
 - Live stake planting, DIY Rain Barrell Workshop, wetland plantings, and a rain garden project were discussed at the August 8, 2022 EAB Meeting.
 - Greenway remediation projects and a greenway stormwater review was discussed at the September 12, 2022 EAB Meeting (in addition to the topics from 8/8/2022).
 - There was continued discussion of the rain garden restoration project was discussed at the March 13, April 10, 2023, and May 8, 2023 EAB Meetings. It was noted that the EAB would like to build a rain garden that could be used as a tool for public education. During the April meeting members of the public inquired further about "rain gardens." (Attachment B).
 - New Hanover Township continued to participate in the Perkiomen Watershed Conservancy Municipal Member at the Benefactor level.
3. Report activities in which members of the public assisted or participated in the meetings and in the implementation of the SWMP, including education activities or efforts such as cleanups, monitoring, storm drain stenciling, or others.
- The Township advertised on their Facebook page for the event, "New Hanover Township Rain Barrel Workshop," executed through the Township's partnership with the Perkiomen Watershed Conservancy. The event was held on July 28, 2022 in which information was shared about water conservation and rain barrel practices. Participants were guided through steps of assembling rain barrels and took ready-to-install rain barrels home. There were 14 participants in the workshop.
 - 56 New Hanover Township residents volunteered for Perkiomen Watershed Conservancy stream clean-ups for a total of 168 volunteer hours and 40 bags of trash removed.

MCM #2 Comments:

The Township continues to partner with Perkiomen Watershed Conservancy to share stormwater-related information and organize community engagement activities.
Refer to Attachments A and B for MCM #2 supporting documentation. The most recent updated written PIPP was submitted with the 2021 Annual MS4 Status Report and is available upon request.

MCM #3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDD&E)

BMP #1: Develop and implement a written program for the detection, elimination, and prevention of illicit discharges into the regulated small MS4.

1. For new permittees only, was the written IDD&E program developed within one year of permit coverage?
- Yes No
2. Date of latest annual review of IDD&E program: March 2023 (last updated March 2021) Were updates made? Yes No

BMP #2: Develop and maintain map(s) that show permittee and urbanized area boundaries, the location of all outfalls and, if applicable, observation points, and the locations and names of all surface waters that receive discharges from those outfalls. Outfalls and observation points shall be numbered on the map(s).

1. Have you completed a map(s) that includes all components of BMP #2? Yes No

If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.

If No, date by which permittee expects map(s) to be completed:

2. Date of last update or revision to map(s): August 31, 2022

3. Total No. of Outfalls in MS4: 189 Total No. of Outfalls Mapped: 189

4. Total No. of Observation Points: 88 Total No. of Observation Points Mapped: 88

5. During the reporting period, have you identified any existing outfalls that have not been previously reported to DEP in an NOI, application or annual report, or are any new MS4 outfalls proposed for the next reporting period?

Yes No If Yes, select: Existing Outfall(s) Identified New Outfall(s) Proposed

BMP #3: In conjunction with the map(s) created under BMP #2 (either on the same map or on a different map), the permittee shall develop and maintain map(s) that show the entire storm sewer collection system within the permittee's jurisdiction that are owned or operated by the permittee (including roads, inlets, piping, swales, catch basins, channels, and any other components of the storm sewer collection system), including privately-owned components of the collection system where conveyances or BMPs on private property receive stormwater flows from upstream publicly-owned components.

1. Have you completed a map(s) that includes all components of BMP #3? Yes No

If Yes and you are a new permittee and have not submitted the map(s) previously, attach the map(s) to this report.

If No, date by which permittee expects map(s) to be completed:

2. If Yes to #1, is the map(s) on the same map(s) as for outfalls and receiving waters? Yes No

3. Date of last update or revision to map(s): August 31, 2022

BMP #4: Conduct dry weather screenings of MS4 outfalls to evaluate the presence of illicit discharges. If any illicit discharges are present, the permittee shall identify the source(s) and take appropriate actions to remove or correct any illicit discharges. The permittee shall also respond to reports received from the public or other agencies of suspected or confirmed illicit discharges associated with the storm sewer system, as well as take enforcement action as necessary. The permittee shall immediately report to DEP illicit discharges that would endanger users downstream from the discharge, or would otherwise result in pollution or create a danger of pollution or would damage property.

For new permittees, all identified outfalls (and if applicable observation points) must be screened during dry weather at least twice within the 5-year period following permit coverage. For existing permittees, all identified outfalls (and if applicable observation points) must be screen during dry weather at least once within the 5-year period following permit coverage and, for areas where past problems have been reported or known sources of dry weather flows occur on a continual basis, outfalls must be screened annually during each year of permit coverage.

1. How many unique outfalls (and if applicable observation points) were screened during the reporting period? 100
2. Indicate the percentage of all outfalls screened in the past five years. 100%
3. Indicate the percent of outfalls screened during the reporting period that revealed dry weather flows: %
4. Did any dry weather flows reveal color, turbidity, sheen, odor, floating or submerged solids? Yes No
5. If Yes for #4, attach all sample results to this report with a map identifying the sample location. Explain the corrective action(s) taken in the attachment.
6. Do you use the MS4 Outfall Field Screening Report form (3800-FM-BCW0521) provided in the permit?
 Yes No

If No, attach a copy of your screening report form.

BMP #5: Enact a Stormwater Management Ordinance or SOP to implement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to the regulated small MS4.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that prohibits non-stormwater discharges? Yes No

If Yes, indicate the date of the ordinance or SOP: 12/1/2022

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j) with respect to authorized non-stormwater discharges? Yes No

If Yes to #2 and the ordinance or SOP has not been submitted to DEP previously, attach the ordinance or SOP.

3. Were there any violations of the ordinance or SOP during the reporting period? Yes No

If Yes to #3, complete the table below (attach additional sheets as necessary).

Violation Date	Nature of Violation	Responsible Party	Enforcement Taken

4. Did you approve any waiver or variance during the reporting period that allowed an exception to non-stormwater discharge provisions of an ordinance or SOP? Yes No

If Yes to #4, identify the entity that received the waiver or variance and the type of non-stormwater discharge approved.

BMP #6: Provide educational outreach to public employees, business owners and employees, property owners, the general public and elected officials (i.e., target audiences) about the program to detect and eliminate illicit discharges.

1. Was IDD&E-related information distributed to public employees, businesses, and the general public during the reporting period? Yes No

If Yes, what was distributed? The Township 2023 Spring/Summer Newsletter includes an article on Illicit Discharge Reporting. There is also material available to the public on their website related to IDD&E.

2. Is there a well-publicized method for employees, businesses and the public to report stormwater pollution incidents?
 Yes No

3. Do you maintain documentation of all responses, action taken, and the time required to take action? Yes No

MCM #3 Comments:

The Township maintains a map with all stormwater infrastructure, outfalls, and BMPs by maintaining an interactive ArcGIS Online (AGOL) web map app, in addition to the pdf map attached to this report.

The web map app is publicly accessible via the stormwater page on the Township website at the link below: <https://nhtpa.maps.arcgis.com/apps/webappviewer/index.html?id=a094bc9a144745e3911ef1c65a279145>

The Township uses a Survey123 Form that contains the same information as the DEP MS4 Outfall Field Screening Form. A copy is located in Attachment C for reference.

Dry weather outfall field screening was performed by Public Works Department staff on June 5, 6, 13, 14, 19, and 20, 2023 for all outfalls. A summary of the results is located in Attachment C. Individual screening forms are available upon request. The most recent updated written IDDE Program was submitted with the 2021 Annual MS4 Status Report and is available upon request.

MCM #4 – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

Are you relying on PA’s statewide program for stormwater associated with construction activities to satisfy this MCM?

Yes No

(If Yes, respond to questions for BMP Nos. 1, 2 and 3 only in this section. If No, respond to questions for all BMPs in this section)

BMP #1: The permittee may not issue a building or other permit or final approval to those proposing or conducting earth disturbance activities requiring an NPDES permit unless the party proposing the earth disturbance has valid NPDES Permit coverage (i.e., not expired) under 25 Pa. Code Chapter 102.

During the reporting period, did you comply with 25 Pa. Code § 102.43 (relating to withholding building or other permits or approvals until DEP or a county conservation district (CCD) has approved NPDES permit coverage)?

Yes No Not Applicable (no building permit applications received)

BMP #2: A municipality or county which issues building or other permits shall notify DEP or the applicable CCD within 5 days of the receipt of an application for a permit involving an earth disturbance activity consisting of one acre or more, in accordance with 25 Pa. Code § 102.42.

During the reporting period, did you comply with 25 Pa. Code § 102.42 (relating to notifying DEP/CCD within 5 days of receiving an application involving an earth disturbance activity of one acre or more)?

Yes No Not Applicable (no building permit applications received)

BMP #3: Enact, implement and enforce an ordinance or SOP to require the implementation and maintenance of E&S control BMPs, including sanctions for non-compliance, as applicable.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of E&S control BMPs? Yes No

If Yes, indicate the date of the ordinance or SOP: 12/1/2022

2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? Yes No

3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #4: Review Erosion and Sediment (E&S) control plans to ensure that such plans adequately consider water quality impacts and meet regulatory requirements.

Specify the number of E&S Plans you reviewed during the reporting period:

BMP #5: Conduct inspections regarding installation and maintenance of E&S control measures during earth disturbance activities. Maintain records of site inspections, including dates and inspection results, in accordance with the record retention requirements in this permit.

Specify the number of E&S inspections you completed during the reporting period:

BMP #6: Conduct enforcement when installation and maintenance of E&S control measures during earth disturbance activities does not comply with permit and/or regulatory requirements.

Specify the number of enforcement actions you took during the reporting period for improper E&S:

BMP #7: Develop and implement requirements for construction site operators to control waste at construction sites that may cause adverse impacts to water quality. The permittee shall provide education on these requirements to construction site operators.

Specify the method(s) by which you are educating construction site operators on controlling waste at construction sites:

BMP #8: Develop and implement procedures for the receipt and consideration of public inquiries, concerns, and information submitted by the public to the permittee regarding local construction activities.

1. A tracking system has been established for receipt of public inquiries and complaints. Yes No

2. Specify the number of inquiries and complaints received during the reporting period:

MCM #4 Comments:

The Township does rely on PA's statewide program for stormwater associated with construction activities to satisfy this MCM. In addition, the Township typically completes erosion & sediment control inspections and enforcement. However, the formal program is temporarily suspended due to Township staffing changes and updates to the E&S Control Inspection

Program. The Township Engineer (Knight Engineering, Inc.) still conducts regular inspections on active construction sites. A list of active construction sites within the Township is provided below:

Hanover Pointe- Still Active

Rolling Meadows- NPDES Permit expires, outstanding items remain

Woodfield- Still Active

Greens at Gilbertsville- In Plan Review

Montgomery View/Renninger- Still Active

MCM #5 – POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

BMP #1: Enact, implement and enforce an ordinance or SOP to require post-construction stormwater management from new development and redevelopment projects, including sanctions for non-compliance.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that requires implementation and maintenance of post-construction stormwater management (PCSM) BMPs? Yes No
If Yes, indicate the date of the ordinance or SOP: 12/1/2022
2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? Yes No
3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #2: Develop and implement measures to encourage and expand the use of Low Impact Development (LID) in new development and redevelopment. Measures should also be included to encourage retrofitting LID into existing development. Enact ordinances consistent with LID practices and repeal sections of ordinances that conflict with LID practices.

1. Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that encourages and expands the use of LID in new development and redevelopment? Yes No
If Yes, indicate the date of the ordinance or SOP: 12/02/2022
2. If Yes to #1, is the ordinance or SOP consistent with DEP's 2022 Model Stormwater Management Ordinance (3800-PM-BCW0100j)? Yes No
3. If Yes to #2 and the ordinance or SOP has not been submitted previously, attach a copy of the ordinance or SOP.

BMP #3: Ensure adequate O&M of all post-construction stormwater management BMPs that have been installed at development or redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.

1. Do you have an inventory of all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003? Yes No
If Yes to #1, complete Table 1 on the next page.
2. Has proper O&M occurred during the reporting period for all PCSM BMPs? Yes No
3. If No to #2, explain what action(s) the permittee has taken or plans to take to ensure proper O&M.

The Township is currently undergoing a major update of their Stormwater BMP Inspection and Compliance Program (refer to MCM #5 Comments section). Follow-up inspections will be conducted in Spring 2024 and notices of violations provided to responsible parties as necessary.

If you are relying on PA's statewide program for stormwater associated with construction activities, you may skip to MCM #6, otherwise complete all questions for BMPs #4 - #6 in this section.

BMP #4: Require the implementation of a combination of structural and/or non-structural BMPs that are appropriate to the local community, that minimize water quality impacts, and that are designed to maintain pre-development runoff conditions.

1. Specify the number of PCSM Plans reviewed during the reporting period for projects disturbing greater than or equal to one acre (including projects less than one acre that are part of a larger common plan of development or sale):
2. Has a tracking system been established and maintained to record qualifying projects and their associated BMPs?
 Yes No

PCSM BMP INVENTORY

Table 1. To complete the information needed for MCM #5, BMP #3, list all existing structural BMPs that discharge stormwater to the permittee's MS4 that were installed to satisfy PCSM requirements for earth disturbance activities under Chapter 102, and provide the requested information (see instructions).

BMP No.	BMP Name	DA (ac)	Entity Responsible for O&M	Latitude	Longitude	Date Installed	O&M Requirements	NPDES Permit No.
1	*Refer to Attachment D for PCSM BMP Inventory			o ' "	o ' "			
2				o ' "	o ' "			
3				o ' "	o ' "			
4				o ' "	o ' "			
5				o ' "	o ' "			
6				o ' "	o ' "			
7				o ' "	o ' "			
8				o ' "	o ' "			
9				o ' "	o ' "			
10				o ' "	o ' "			
11				o ' "	o ' "			
12				o ' "	o ' "			
13				o ' "	o ' "			
14				o ' "	o ' "			
15				o ' "	o ' "			
16				o ' "	o ' "			

BMP #5: Ensure that controls are installed that shall prevent or minimize water quality impacts. The permittee shall inspect all qualifying development or redevelopment projects during the construction phase to ensure proper installation of the approved structural PCSM BMPs. A tracking system (e.g., database, spreadsheet, or written list) shall be implemented to track the inspections conducted and to track the results of the inspections (e.g., BMPs were, or were not, installed properly).

1. During the reporting period have you inspected all qualifying development and redevelopment projects during the construction phase to ensure proper installation of approved structural BMPs?
 Yes No Not Applicable (no qualifying projects during reporting period)
2. Has a tracking system been established and maintained to record results of inspections?
 Yes No

BMP #6: Develop a written procedure that describes how the permittee shall address all required components of this MCM.

Have you developed a written plan that addresses: 1) minimum requirements for use of structural and/or non-structural BMPs in plans for development and redevelopment; 2) criteria for selecting and standards for sizing stormwater BMPs; and 3) implementation of an inspection program to ensure that BMPs are properly installed? Yes No

MCM #5 Comments:

The Township conducted inspections of the PCSM BMP Inventory BMPs in August - November 2022. Downspout reconnection BMPs associated with Hanover Woods were not inspected during this round, nor were Hanover Preserves BMPs (as the responsible owner was still being determined). The most recent Township PCSM BMP Inventory is provided in Attachment D, along with the 2022 PCSM BMP Compliance Status Summary. Individual inspection reports are available upon request.

The Township is currently undergoing major updates to their Stormwater BMP Inspection and Compliance Program (both process and staffing). It is anticipated to resume in Spring 2024 after the updates are complete. The Township will continue to maintain and update both the PCSM BMP Inventory and the inventory of BMPs that are less than one acre (LT1A) installed to meet Township stormwater ordinance requirements. The LT1A BMP Inventory is available upon request.

MCM #6 – POLLUTION PREVENTION / GOOD HOUSEKEEPING

BMP #1: Identify and document all operations that are owned or operated by the permittee and have the potential for generating pollution in stormwater runoff to the MS4. This includes activities conducted by contractors for the permittee.

1. Have you identified all facilities and activities owned and operated by the permittee that have the potential to generate stormwater runoff into the MS4? Yes No
2. When was the inventory last reviewed? June 2023
3. When was it last updated? September 14, 2022 (included in the written O&M Program)

BMP #2: Develop, implement and maintain a written O&M program for all operations that could contribute to the discharge of pollutants from the MS4, as identified under BMP #1. This program shall address stormwater collection or conveyance systems within the regulated MS4.

1. Have you developed a written O&M program for the operations identified in BMP #1? Yes No
2. Date of last review or update to written O&M program: Last reviewed June 2023, last updated September 14, 2022

BMP #3: Develop and implement an employee training program that addresses appropriate topics to further the goal of preventing or reducing the discharge of pollutants from operations to the regulated small MS4. All relevant employees and contractors shall receive training.

**3800-FM-BCW0491 9/2017
Annual MS4 Status Report**

1. Have you developed an employee training program? Yes No

2. Date of last review or update to training program: August 4, 2022 Date of latest training: April 20, 2023

3. Training topics covered:

NPDES MS4 Program Overview
MCM #3- Illicit Discharge Detection and Elimination
MCM #6- Pollution Prevention/Good Housekeeping

4. Name(s) of training presenter(s):

Beth Uhler, CWP
Julie Schneider, CWP
Jessie Kemper, Perkiomen Watershed Conservancy

5. Names of training attendees:

Maggie Dobbs, Assistant Township Manager/Planning Director
Tom Miskiewicz, Public Works Department Staff
Zach Hendricks, Public Works Department Staff
Matthew Bechtel, Public Works Department Staff
Jay Kowal, Public Works Director
R. Miller, Public Works Department Staff
Kevin Snyder, Public Works Department Staff

Refer to sign-in sheet in Attachment E.

MCM #6 Comments:

Written programs and employee training documentation are included in Attachment E.

POLLUTANT CONTROL MEASURES (PCMs)

Indicate the status of implementing PCMs in Appendices A, B and/or C by completing the table below. Skip this section if PCMs are not applicable.

Task	Date Completed	Attached	Anticipated Completion Date
Storm Sewershed Map(s)	9/30/2019	<input type="checkbox"/>	
Source Inventory	8/19/2020	<input type="checkbox"/>	
Investigation of Suspected Sources	n/a	<input type="checkbox"/>	n/a
Ordinance/SOP for Controlling Animal Wastes	n/a	<input type="checkbox"/>	n/a

PCM Comments:

The Township is required to implement Pollutant Control Measures for Priority Organic Compounds (Appendix C) for discharges to the Schuylkill River which is impaired by polychlorinated biphenyls (PCBs). Because no suspected sources of PCBs were identified in the Source Inventory, an investigation of suspected sources is not applicable.

In addition, the Ordinance/SOP for Controlling Animal Wastes is only applicable for Appendix B. New Hanover does not have this requirement.

POLLUTANT REDUCTION PLANS (PRPs) AND TMDL PLANS

1. Complete this section if the development and submission of a PRP and/or TMDL Plan was required as an attachment to the latest NOI or application or was required by the permit, regardless of whether DEP has approved the plan(s).

Type of Plan	Submission Date	DEP Approval Date	Surface Waters Addressed by Plan
<input type="checkbox"/> Chesapeake Bay PRP (Appendix D)			Chesapeake Bay
<input checked="" type="checkbox"/> Impaired Waters PRP (Appendix E)	Revised October 2018	January 11, 2019	Swamp Creek
<input type="checkbox"/> TMDL Plan (Appendix F)			
<input type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP			Chesapeake Bay,
<input type="checkbox"/> Combined PRP / TMDL Plan			
<input type="checkbox"/> Joint Plan (if checked, list the name of the MS4 group or names of all entities participating in the joint plan below) Joint Plan Participants:			
2. Identify the pollutants of concern and pollutant load reduction requirements under the permit (see instructions).			
Type of Plan	TSS Load Reduction (lbs/yr)	TP Load Reduction (lbs/yr)	TN Load Reduction (lbs/yr)
<input type="checkbox"/> Chesapeake Bay PRP (Appendix D)			
<input checked="" type="checkbox"/> Impaired Waters PRP (Appendix E)	3,644.75		
<input type="checkbox"/> TMDL Plan (Appendix F)			
<input type="checkbox"/> Combined Chesapeake Bay / Impaired Waters PRP			
<input type="checkbox"/> Combined PRP / TMDL Plan			
3. Date Final Report Demonstrating Achievement of Pollutant Load Reductions Due: January 31, 2024 4. Have any modifications to the plan(s) occurred since DEP approval? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes to #4, was the updated plan(s) submitted to DEP? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes to #4, did you comply with the public participation requirements of the applicable appendix? <input type="checkbox"/> Yes <input type="checkbox"/> No If Yes to #4, describe the plan modifications.			
5. Summary of progress achieved during reporting period. The Swamp Creek Stream Restoration project received Joint Permit Application (JPA) approval from DEP and began construction during this reporting period. The final approved construction plan set is included in Attachment F for reference. This project is intended to fulfill the Township's pollutant reduction requirement for this permit period.			
6. Anticipated activities for next reporting period.			

Construction will be completed and final stabilization anticipated to be achieved in Fall 2023.

PRP/TMDL Plan Comments:

The Township continues to work towards achieving the required pollutant reduction for Swamp Creek.

NEW BMPs FOR PRP/TMDL PLAN IMPLEMENTATION

Table 2. List all new structural BMPs installed and ongoing non-structural BMPs implemented during the reporting period that are being used toward achieving load reductions in the permittee's PRP and/or TMDL Plan (see instructions).

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed or Implemented	Planning Area?	Ch. 102?	Annual Sediment Load Reduction (lbs/yr)
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	
						o ' "	o ' "		<input type="checkbox"/>	<input type="checkbox"/>	

BMP INVENTORY FOR PRP/TMDL PLAN IMPLEMENTATION

Table 3. List all existing structural BMPs that have been installed in prior reporting periods and are eligible to use toward achieving load reductions in the permittee's PRP and/or TMDL Plan (see instructions).

BMP No.	BMP Name	DA (ac)	% Imp.	BMP Extent	Units	Latitude	Longitude	Date Installed	Annual Sediment Load Reduction (lbs/yr)	Date of Latest Inspection	Satisfactory?
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>
						o ' "	o ' "				<input type="checkbox"/>

CERTIFICATION

For PAG-13 Permittees: I have read the latest PAG-13 General Permit issued by DEP and agree and certify that (1) the permittee continues to be eligible for coverage under the PAG-13 General Permit and (2) the permittee will continue to comply with the conditions of that permit, including any modifications thereto. I understand that if I do not agree to the terms and conditions of the PAG-13 General Permit, I will apply for an individual permit within 90 days of publication of the General Permit. I also acknowledge that any facility construction needed to comply with the General Permit requirements shall be designed, built, operated, and maintained in accordance with operative laws and regulations.

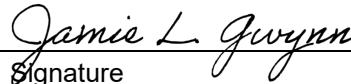
For All Permittees: I certify under penalty of law that this report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage 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. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Jamie Gwynn, New Hanover Township Manager

Name of Responsible Official

610-323-1008

Telephone No.



Signature

09-27-2023

Date



ANNUAL MS4 STATUS REPORT
NEW HANOVER TOWNSHIP

ATTACHMENT A

MCM #1 PUBLIC EDUCATION AND OUTREACH

Prepared by:

CENTER FOR
**WATERSHED
PROTECTION**

Center for Watershed Protection, Inc.

11711 East Market Pl, Suite 200

Fulton, MD 20759

<https://www.cwp.org>

Stormwater Pollution Prevention Tips, Spring 2023- shared on Township Facebook Page 5/23/2023

 **New Hanover Township**
May 23 · 🌐

Spring is here!
As Spring gets underway here are a few helpful tips to prevent stormwater pollution.
To learn more visit the Perkiomen Watershed Conservancy
<https://www.perkiomenwatershed.org/>

Stormwater Pollution Prevention Tips

Spring 2023





Clean-up

Collect and dispose of any trash that might have blown into your yard over the winter. Mulch or compost leaves and garden cuttings from the fall so that they don't get washed into local streams.

Fertilize Carefully

Look for slow release nitrogen fertilizer since it is less likely to harm water quality. Several small fertilizer applications spread out over the growing season is better than one large application. Never apply fertilizer before it rains!

Plant Natives!

Spring is a great time to plant native trees, shrubs and perennials! Native PA species require less maintenance, are more beneficial for wildlife and absorb more stormwater than non-natives.

Mow Sharp and High

A sharp mower blade cuts grass cleanly which improves turf health. Set your mower deck to 2.5 inches or more to help reduce stormwater runoff and shade out weeds. Where possible, consider converting a section of your lawn to a native garden.

Caring for Your Yard this Spring

Spring is here and with it comes warmer weather, rain and lots of yard work! Before you head outside to tackle your latest project, remember that what you do to your yard has a direct impact on the local environment. Luckily, there are lots of small steps that you can take as a homeowner to make your yard more eco-friendly!

Consider these tips to help you reduce stormwater pollution and provide valuable habitat for local wildlife on your property.

Visit our website to learn more:
www.perkiomenwatershed.org



👍 3

💬 2 🔄 2

Perkiomen Watershed Conservancy (partner with New Hanover Township) Summer Article, 2023



STORMWATER POLLUTION PREVENTION TIPS

SUMMER 2023

SUMMER STORMWATER MANAGEMENT

Stormwater runoff is a major pollutant of our local waterways. It flows from rooftops, over paved streets, sidewalks, parking lots, across bare soil and lawns. As it flows, runoff collects and transports many different kinds of pollutants. This water drains directly into nearby creeks and streams without being treated at a sewage plant.

Luckily, there are many steps that you can take to help reduce the amount of pollutants entering our waterways.

Here are some tips to manage stormwater pollution this summer:

- **Pick up after your dog.** Their waste is not natural, its full of bacteria and excess nutrients that will create algae blooms and contaminate local waterways.
- **Water your lawn & garden slowly.** Only water your grass and plants when necessary. When watering, be sure to do so slowly to reduce runoff. Consider investing in irrigation hoses or gator bags where possible.
- **Wash your car the right way.** Either wash it at a car wash that filters wastewater, or in a grassy area.

PERKIOMEN
WATERSHED CONSERVANCY

Visit our website to learn more:
www.perkiomenwatershed.org



New Hanover Township Rain Barrel Workshop- shared on Township Facebook Page, May 22, 2023

 **New Hanover Township**
May 22 · 🌐

Rain Barrel Workshop!

A rain barrel might be the water conservation solution for you! You can use the barrel to water plants, clean yard equipment, or top off your swimming pool.

The workshop will be on July 20th at 6:30 pm and will last about an hour. It will cost \$60 and you will go home with a completed ready to use rain barrel. ... [See more](#)

**NEW HANOVER TOWNSHIP
RAIN BARREL WORKSHOP**

Township residents get a free day pool pass for a family of 4 with their registration!

WHAT IS A RAIN BARREL?

A container that collects and stores rain water from your downspout to be used for watering plants, cleaning yard equipment or topping off a swimming pool.



ABOUT THE WORKSHOP

- All of the necessary tools to build a rain barrel will be provided.
- You will be guided through the steps to put your rain barrel together.
- You will leave with a completed rain barrel that is ready to be installed on your property.
- The provided barrel is a 55 gal, plastic drum, so make sure it will fit into your vehicle after the workshop!



Date and Time:
Thursday, July 20th, 2023
6:30 pm - 7:30 pm

Location:
Hickory Park
2140 Big Road
Gilberstville, PA, 19525

Cost:
\$60 per rain barrel

Register Here:
<https://www.classy.org/event/new-hanover-township-rain-barrel-workshop/e489460?preview=true>

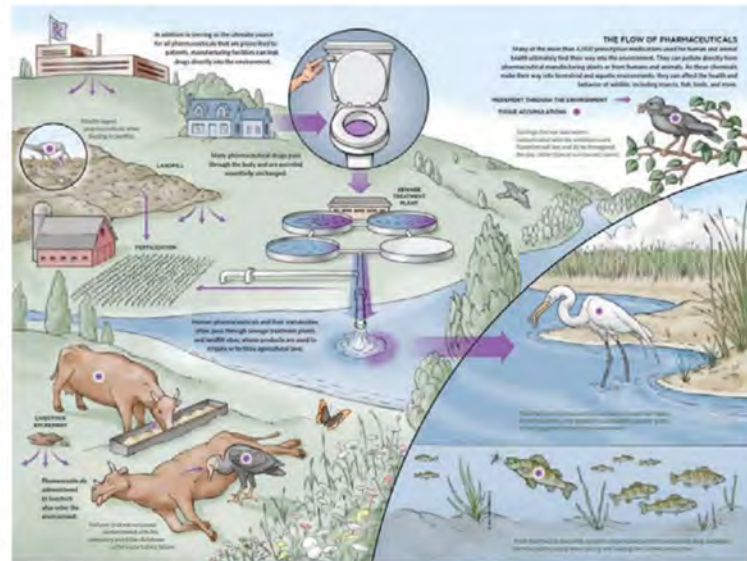
Township Spring/Summer Newsletter 2023- Environmental issues associated with prescription medication pollution.

POSSIBLE PRESCRIPTION PROBLEMS

Prescription medications that are consumed and then eliminated from the body can end up in wastewater and potentially contaminate the water supply. This can occur when people flush medications down the toilet or when sewage treatment plants do not have the ability to effectively remove these medications. The potential for prescription medications to enter wastewater increases when individuals do not properly dispose of their medications properly.

The presence of certain medications in the water supply can have negative effects on aquatic life and may potentially pose a risk to human health if the water is not properly treated. Some studies have shown that trace amounts of certain medications can have hormone-like effects on fish and other aquatic animals, leading to reproductive and developmental problems. In addition to the potential negative effects on aquatic life and human health, the presence of prescription medications in wastewater can also have environmental consequences. For example, some medications have been found to have an impact on the growth and reproduction of algae, which can alter the balance of ecosystems.

To help reduce the potential for prescription medications to end up in wastewater, it is important for people to properly dispose of their medications according to guidelines provided by their healthcare provider or local waste management agency. This may include returning the medications to a designated collection site or disposing of them in a special container. It is important for individuals to be aware of the potential consequences of improperly disposing of medications and to follow guidelines for proper disposal to help protect the environment and public health.



Township Fall/Winter 2022 and Spring/Summer 2023 Newsletter- Environmental Advisory Board explanation

What is an EAB, anyway?

EAB stands for **E**nvironmental **A**dvisory **B**oard

This Board helps bring environmental issues and concerns to the Board of Supervisors for review and action by the Township. The EAB welcomes all township residents to attend the monthly meetings and offer suggestions or voice concerns. Meetings are the second Monday of each month at 6:30 PM and are held in the Township building, 2943 N. Charlotte Street, Gilbertsville, PA 19525.

The EAB aims to educate Township residents about environmental issues so they can play a part in protecting/improving the Township.

The EAB assists the Township in monitoring basins to ensure proper function during and after a heavy rain event, gives advice to the Board of Supervisors after reviewing proposed development plans, is working on improving the Township parks with meadows and pollinator areas to make the parks more attractive and inviting, and is working on a recycling ordinance among other environmental topics.

Now, when you drive by the Township building and see EAB and a date on the sign out front, plan to attend, now that you know what EAB is!

Township Spring/Summer Newsletter 2023- Preserve Resources; Illicit Discharge Reporting; Yard and Leaf Waste Drop-Off

BEAUTIFY YOUR PROPERTY - PRESERVE OUR RESOURCES

Increasing the number of native trees, shrubs, and wildflowers on your property is becoming increasingly important for birds, pollinators, and other wildlife. As more and more wooded and meadow areas get turned into housing developments and malls, there are fewer and fewer places for birds and other wildlife to survive. Maintaining a lawn can become costly, it must be mowed, and many people also add fertilizers and pesticides to their lawns which not only cost you money, but are dangerous for beneficial insects and stream organisms. Much of the rain that falls on a lawn runs off into the storm drains and then into the nearest stream, this is a significant problem. You can make your yard into a safe oasis for you, birds, and pollinators by simply planting large beds of native plants and choosing a mix of plants so that some bloom each season. Plants provide nectar for butterflies, seeds for birds, and caterpillars for parent birds to feed their young. These native plants don't need water once they are established, nor pesticides or mowing. There are resources available which will help you decide what plants you might want to use to start helping birds and pollinators in your yard.

ILLICIT DISCHARGE REPORTING

The Pennsylvania Department of Environmental Protection mandates that the Township monitor locations where stormwater enters streams, creeks, or rivers. An illicit discharge is an unlawful act of disposing, dumping, spilling, emitting, or other discharge of any substance other than stormwater into the stormwater drainage system. The stormwater drainage system includes streets, ditches, catch basins, yard inlets, lakes, small or large pipes, or where swale discharges into a waterway. In addition to the monitoring by Township personnel, we count on citizens like you to help us identify problems in the watershed that drain into streams, creeks or rivers. A partial list of illicit discharges that we are asking you to report, if you observe them happening or see evidence of such an occurrence, includes oil, gas, chlorinated swimming pool discharge, or other toxic material being dumped or spilled. Please contact the Township at 610 323-1008.

YARD AND LEAF WASTE DROP-OFF

Hetrick Gardens provides a drop off-site for yard waste for New Hanover Township residents.

The facility is located at 2620 Swamp Pike, Pottstown, PA. Residents will need to provide proof of residency and sign in to drop off their yard waste materials.

Hours:

Monday - Friday 8:00AM to 4:00PM

Saturday - 9:00 AM to 3:00 PM



Township Fall/Winter Newsletter 2022- Stormwater drain checks and monitoring information.

MESSAGES FROM THE PUBLIC WORKS DIRECTOR



Leaf Season:

- Leaves are recyclable and can be composted on your property or you may drop them off to Hetrick Gardens @ 2620 Swamp Pike Gilbertsville PA, No charge for New Hanover Township Residents.

Stormwater:

- All storm drains are checked and monitored before and during storms by Public Works employees
- Never dump anything into storm drains and never blow mowed grass into the street as it will clog drains and fill road drainage swales

Township Fall/Winter Newsletter 2022- Inflow and Infiltration education material

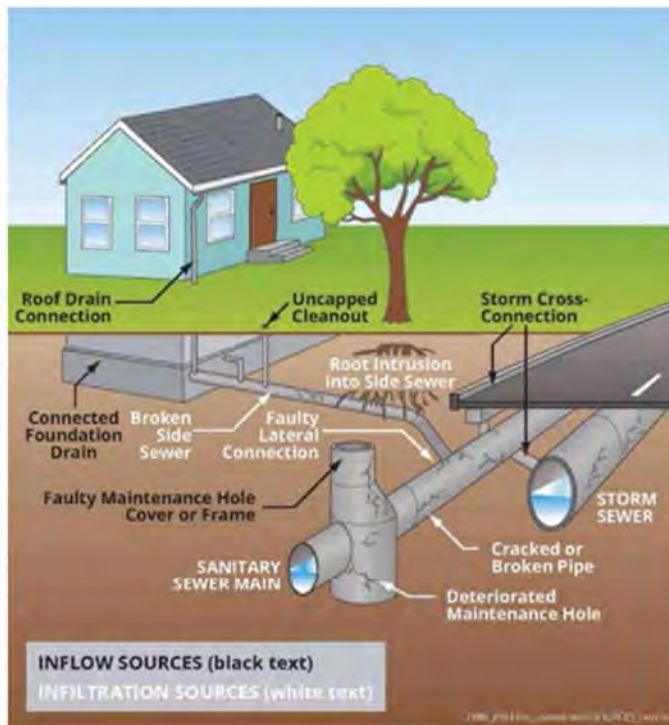
WHAT IS INFLOW AND INFILTRATION?

Inflow and infiltration is defined as groundwater and stormwater that enters a sewer system. Collection systems can be damaged when they are forced to transport more flow than they are designed to handle. Increased I & I also raises costs for wastewater treatment facilities, because harmless stormwater and ground water mixes with sewage and needs treatment.

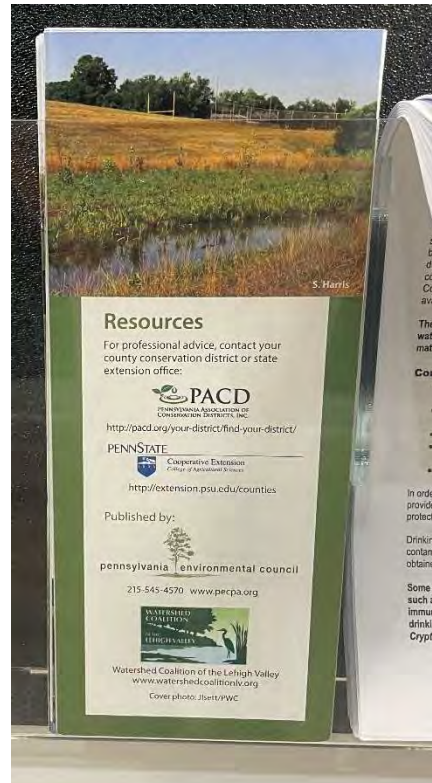
Exceeding the capacity of the collection system can result in discharge of untreated wastewater into the environment. This discharge may come from collection system components or from a treatment system that does not have adequate capacity to treat the water. Infiltration can also cause pipe infrastructure failures due to erosion of soil support, and ground subsidence due to erosion of underground soil.

Homeowners can help reduce I & I by a few simple ways. Locate the sewer cleanout/vent in your yard and verify that it is not broken and that it is not in a low-lying area where rainwater can pond up and possibly overflow into your sewer vent. If it is in a low area, the pipe should be raised and capped to avoid ponding water. You should also verify that you do not have a sump pump discharging into your sewer main and that your house rain gutters are not tied in.

The Township is also taking steps to help reduce I & I. We do this in a few ways, we currently have flow monitors in the collection system that record flow levels and show spikes in the flow which indicate issues. Televising of sewer mains helps to identify cracks, holes and other issues in the mains. The more serious pipe issues can be repaired by either digging the line up and repairing it or by slip lining (patching) the pipe. Inspections of manholes are performed and if issues are found, they will be rehabbed by grouting and sealing.



New Hanover Township Municipal Building Material- Stormwater Management Brochure, Basin Retrofits



Be Stormwater Smart Brochure- shared on Township Website, Stormwater Management Webpage

What is Storm Water?

Storm water is water from precipitation that flows across the ground and pavement when it rains or when snow and ice melt. The water seeps into the ground or drains into what we call storm sewers. These are the drains you see at street corners or at low points on the sides of streets. Collectively, the draining water is called storm water runoff.

Good Rain Gone Wrong

Storm water becomes a problem when it picks up debris, chemicals, dirt, and other pollutants as it flows or when it causes flooding and erosion of stream banks. Storm water travels through a system of pipes and roadside ditches that make up storm sewer systems. It eventually flows directly to a lake, river, stream, wetland, or coastal water. All of the pollutants storm water carries along the way empty into our waters, too, because storm water does not get treated!



Pet wastes left on the ground get carried away by storm water, contributing harmful bacteria, parasites and viruses to our water.

Vehicles drip fluids (oil, grease, gasoline, antifreeze, brake fluids, etc.) onto paved areas where storm water runoff carries them through our storm drains and into our water.



Chemicals used to grow and maintain beautiful lawns and gardens, if not used properly, can run off into the storm drains when it rains or when we water our lawns and gardens.

Waste from chemicals and materials used in construction can wash into the storm sewer system when it rains. Soil that erodes from construction sites causes environmental degradation, including harming fish and shellfish populations that are important for recreation and our economy.



Where to Go to Continue the Information Flow

Your community is preventing storm water pollution through a storm water management program. This program addresses storm water pollution from construction, new development, illegal dumping to the storm sewer system, and pollution prevention and good housekeeping practices in municipal operations. It will also continue to educate the community and get everyone involved in making sure the only thing that storm water contributes to our water is ... water! Contact your community's storm water management program coordinator or the Pennsylvania Department of Environmental Protection for more information about storm water management.



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION
www.dep.pa.gov

3850-BO-DEP5276 4/2020 G2421-APR20

1. **Old** - Part of the storm sewer system. Most people think that the system is just a series of underground pipes. In fact, the system also includes ditches used to convey storm water from the land to a receiving body of water or stream.

2. **Fire Hydrant** - Part of the storm sewer system. Water sprayed on fire is not regulated as storm water, but if water systems open hydrants to flush their water lines the discharged water should not be allowed to enter a stream.

3. **Storm Drain Inlet** - Part of the storm sewer system. Anything that enters the drain will go directly to the storm sewer system. Inlets are located along streets, parking lots, and other paved areas. A storm sewer system also is connected with the system of pipes or ditches that lead to storm drains for disposal of rainwater.

4. **Storm Sewer Outlet** - Part of the storm sewer system. An outlet is where storm water drains from the storm sewer system into a receiving lake, stream, or river. It is not a flow from an outlet drain, it is where storm water enters the system. Stormwater treatment plants can take and remove pollutants from the storm sewer system, as well as debris, leaves, and twigs.

5. **Septic System** - Part of the storm sewer system. Homeowners use septic tanks to manage household waste on-site. Improperly maintained septic systems can leak and contribute pollutants to the storm sewer system.

6. **Roofs and Other Paved Areas** - Source of much of the flow to storm sewer systems. Roads and other paved areas lead to parking lots and driveways on commercial properties (e.g., gas, food, and drug stores). These paved areas contribute pollutants to the storm sewer system.

7. **Protected Storm Drain Inlet** - Where construction or other activities cause sediment or other pollutants to flow to an inlet, manhole, or filter can be used to mitigate.

8. **Protected Storm Drain Inlet** - Where construction or other activities cause sediment or other pollutants to flow to an inlet, manhole, or filter can be used to mitigate.

Answers to Test Your Storm Sewer System Savvy:

Be Storm Water Smart

Understanding How Storm Water Affects Your Wallet, Safety, Health, and Environment in Pennsylvania

The graphic features a blue background with several water droplets of varying sizes. Inside the droplets are images of environmental issues: a car dripping oil, a construction site with soil erosion, a stream with a dead fish, and a pile of trash. The text is positioned at the top and middle of the graphic.

What Happens When It Rains?

Rain is an important part of nature's water cycle, but there are times it can do more damage than good. Problems related to storm water runoff can include:



Flooding caused by too much storm water flowing over hardened surfaces such as roads and parking lots, instead of soaking into the ground.

Increases in spending on maintaining storm drains and the storm sewer system that become clogged with excessive amounts of dirt and debris.



Decreases in sportfish populations because storm water carries sediment and pollutants that degrade important fish habitat.

More expensive treatment technologies to remove harmful pollutants carried by storm water into our drinking water supplies.



Closed beaches due to high levels of bacteria carried by storm water that make swimming unsafe.

We can help rain restore its good reputation while protecting our health and environment while saving money for ourselves and our community. Keep reading to find out how...

Test Your Storm Sewer System Savvy!

What does the storm sewer system look like in your community? See if you can identify which pictures are part of the storm sewer system (Answers are on the back.)



Restoring Rain's Reputation: What Everyone Can Do To Help

Rain by nature is important for replenishing drinking water supplies, recreation, and healthy wildlife habitats. It only becomes a problem when pollutants from our activities like car maintenance, lawn care, and dog walking are left on the ground for rain to wash away. Here are some of the most important ways to prevent storm water pollution:

- ◆ Properly dispose of hazardous substances such as used oil, cleaning supplies and paint—never pour them down any part of the storm sewer system and report anyone who does.
- ◆ Use pesticides, fertilizers, and herbicides properly and efficiently to prevent excess runoff.
- ◆ Look for signs of soil and other pollutants, such as debris and chemicals, leaving construction sites in storm water runoff or tracked into roads by construction vehicles. Report poorly managed construction sites that could impact storm water runoff to your community. (See the back of this brochure for contact information.)
- ◆ Install innovative storm water practices on residential property, such as rain barrels or rain gardens, that capture storm water and keep it on site instead of letting it drain away into the storm sewer system.
- ◆ Report any discharges from storm water outfalls during times of dry weather—a sign that there could be a problem with the storm sewer system.
- ◆ Pick up after pets and dispose of their waste properly. No matter where pets make a mess—in a backyard or at the park—storm water runoff can carry pet waste from the land to the storm sewer system to a stream.
- ◆ Store materials that could pollute storm water indoors and use containers for outdoor storage that do not rust or leak to eliminate exposure of materials to storm water.



New Hanover Township Pennsylvania

HOME

GOVERNMENT ▾

DEPARTMENTS ▾

INFORMATION ▾

RESOURCES ▾

TOWNSHIP TIDBIT:

The first known deed issued in New Hanover was for 200 acres to Johannes Schneider, December 9, 1718. The site is now the Gilbertsville Golf Course.



Planning

Active Plans

Approved Plans

Comprehensive Plan

Code of Ordinances

Subdivision and Land Development

Stormwater Management

Popular Pages 

Stormwater Management

OVERVIEW

Stormwater runoff is generated when precipitation from rain and snow flow over land and impervious surfaces and does not infiltrate into the ground. The runoff from streets, lawns, farms, and construction and industrial sites pick up fertilizers, dirt, pesticides, oil,

grease and many other pollutants and discharge into our lakes, streams and rivers. This untreated discharge is detrimental to our water quality as it can adversely affect our drinking water supply and environment. Many detention/retention/infiltration basins are already in place to help keep our water clean.

Stormwater Spring Activities - Spring Activities - 2021

Click on the underlined title above for tips on what you can do during your spring time activities.

MS4 Infrastructure

If you are interested in where our stormwater is located, **check out this attached link.**

Stormwater Management, Simplified.

Have you ever wondered where all that water that gushes into a storm drain ends up? The journey does not end there... This story map provides a summary of the stormwater journey, including what stormwater contains, how it is managed, and its impacts on New Hanover Township streams and the community.

Click here for a link to the story map.

--

Stormwater from my neighbor's property is causing erosion and flooding problems on my property. What can I do?

A landowner has the right to have stormwater flow onto and over his property, and discharged through a natural water course onto a neighboring property. In addition, a landowner may make proper and profitable use of his land even though this use may result in some change in the quality or quantity of the water flowing to the property below.

Generally, any damage to the property below caused by surface water as a result of this use is not actionable. However, there are two exceptions to this general rule. The first exception is when the stormwater is diverted from its natural channel, and the second exception is when stormwater is unreasonably or unnecessarily changed in quantity or quality.

If you believe that either or both of the above-noted exceptions are applicable to your case, you should contact an attorney with experience in these matters. For if your neighbor is not willing to fix the problem you may be required to file suit in the Court of Common Pleas. Because the stormwater is flowing from private property, the Township is not a party to such disputes.

--

[The Montgomery County Conservation District presented on this topic. **Click here - especially if you are considering developing in our municipality.**]

The Township regulates its stormwater management through a permit that is obtained from the **Pennsylvania Department of Environmental Protection (PA DEP)** through the National Pollution and Discharge Elimination System Phase II (NPDES)/Municipal Separate Storm Sewer System (MS4). This is a federal requirement from the **United States Environmental Protection Agency (USEPA)** that is administered by the state. This NPDES permit is broken up into six minimum control measures to be regulated and enforced by the Township. These minimum control measures include:

- Public Education and Outreach

- Public Participation/Involvement
- Illicit Discharge, Detection and Elimination
- Construction Site Runoff Control
- Post-Construction Runoff Control
- Pollution Prevention/Good Housekeeping

The Township is monitoring and testing storm sewer outfalls that have flow during dry periods. We request that all residents cooperate with our inspectors, as some outfalls are located on private properties.

For any questions or concerns regarding stormwater or to report illicit discharges to the storm sewer system, contact the Township at 610 323-1008.

MORE INFORMATION

There are many ways you can help the Township with its stormwater program, such as participating in volunteer programs that help keep trash, debris and other pollutants out of the storm sewer system. For more information on ways to get involved with your community, visit:

Quick Resource Guide For Winter Maintenance BMPs

Winter Maintenance BMPs

Stormwater Brochure

Be Stormwater Smart Brochure

PennDOT: Adopt-A-Highway

<http://www.dot.state.pa.us/Internet/Bureaus/pdHwyBeau.nsf/AAHHome?OpenFrameset>

USEPA

<http://www.epa.gov/>

Stormwater Basic Information

<http://www.epa.gov/npdes/npdes-stormwater-program>

Stormwater Program

http://cfpub.epa.gov/npdes/home.cfm?program_id=6

Stormwater Discharge from MS4's

<http://www.epa.gov/npdes/stormwater-discharges-municipal-sources#overview>

Stormwater Outreach Materials and Reference Documents

https://cfpub.epa.gov/npdes/docs.cfm?document_type_id=3&view=Fact%2520Sheets%2520and%2520Outreach%2520Materials&program_id=6&sort=name

PA DEP

http://www.depweb.state.pa.us/portal/server.pt/community/dep_home/5968

PA DEP Southeast Region Office

<http://www.dep.pa.gov/About/Regional/SoutheastRegion/Pages/default.aspx#.VtWfKFsrKUK>

Stormwater Management Program

<http://www.dep.pa.gov/Business/Water/PointNonPointMgmt/StormwaterMgmt/Pages/default.aspx#.VtWiP1srKUI>

BCCD Bucks County Conservation District

<http://www.bucksccd.org/>

FEMA Federal Emergency Management Agency

<http://www.fema.gov/>

CWP Center for Watershed Protection

<http://www.cwp.org/>

Department of Environmental Protection

PADEP – MS4 Resources:

<http://www.dep.pa.gov/Business/Water/PointNonPointMgmt/StormwaterMgmt/Stormwater/Pages/MS4-Resources.aspx#.VtWaHFsrKUK>

PADEP - MS4 Stormwater Activity Book for Children

http://files.dep.state.pa.us/Water/BNPNSM/StormwaterManagement/MunicipalStormwater/MuniSWResources/MS4_Partnersrv2.pdf

DEP Southeast Regional Office:

<http://www.dep.pa.gov/About/Regional/SoutheastRegion/Pages/default.aspx#.VtWfKFsrKUK>

PA DEP Stormwater Management Program:

<http://www.dep.pa.gov/Business/Water/PointNonPointMgmt/StormwaterMgmt/Pages/default.aspx#.VtWiP1srKUI>

DEP – E&S for Single Family Homes and Minor Construction Projects:

<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-107599/3150-FS-DEP4096.pdf>

DEP – Snow Management and Removal:

<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-109526/3800-FS-DEP1634.pdf>

DEP – Swimming Pool Discharge Guidelines:

<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-108937/3850-FS-DEP4251.pdf><https://www.youtube.com/watch?v=28I1qP-rtwo&feature=youtu.be>

DEP – Stream Improvement Program:

<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-108190/3130-FS-DEP2179.pdf>

DEP – Minimizing Accelerated Soil Erosion & Preventing Sediment Pollution:

<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-107595/3150-FS-DEP1841.pdf>

DEP – Reporting Requirements for Spills and Pollution Incidents under PA Clean Streams Law:

<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-101220/3800-FS-DEP4449.pdf>

DEP – Water Quality Standards:

<http://www.dep.pa.gov/Business/Water/PointNonPointMgmt/WaterQuality/Pages/default.aspx#.VtW6sy0o6Uk>

United States Environmental Protection Agency

EPA – Stormwater Fact Sheets and Outreach Materials:

https://cfpub.epa.gov/npdes/docs.cfm?document_type_id=3&view=Fact%2520Sheets%2520and%2520Outreach%2520Materials&program_id=6&sort=name

EPA – Stormwater Basic Information:

<http://www.epa.gov/npdes/npdes-stormwater-program>

EPA - Stormwater Discharges from MS4's:

<http://www.epa.gov/npdes/stormwater-discharges-municipal-sources#overview>

EPA - MS4 Overview:

<http://www3.epa.gov/npdes/pubs/fact2-0.pdf>

EPA - MS4 Fact Sheet:

<http://www3.epa.gov/npdes/pubs/fact2-1.pdf>

EPA – Urbanized Area Definition:

<http://www3.epa.gov/npdes/pubs/fact2-2.pdf>

EPA – Public Education and Outreach:

<https://www3.epa.gov/npdes/pubs/fact2-3.pdf>

EPA – Public Participation and Involvement:

<https://www3.epa.gov/npdes/pubs/fact2-4.pdf>

EPA – Illicit Discharge, Detection and Elimination:

<https://www3.epa.gov/npdes/pubs/fact2-5.pdf>

EPA - Construction Site Runoff Control:

<https://www3.epa.gov/npdes/pubs/fact2-6.pdf>

EPA – Post-Construction Runoff Control:

<https://www3.epa.gov/npdes/pubs/fact2-7.pdf>

EPA – Pollution Prevention / Good Housekeeping:

<https://www3.epa.gov/npdes/pubs/fact2-8.pdf>

EPA – National Menu of Stormwater Best Management Practices:

<http://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater#edu>

EPA – Stormwater Permit Coverage for Construction Sites:

https://www3.epa.gov/region10/pdf/water/stormwater_permit_brochure_print.pdf

EPA – After the Storm:

https://www3.epa.gov/npdes/pubs/after_the_storm.pdf

EPA – Stormwater Management Practices:

<http://www.epa.gov/greeningepa/stormwater-management-practices-epa-facilities>

EPA – Stormwater Management:

<http://www.epa.gov/greeningepa/stormwater-management>

EPA – Green Infrastructure:

<http://www.epa.gov/green-infrastructure>

EPA Stormwater Best Management Practices (BMP) Menu:

<http://www.epa.gov/npdes/national-menu-best-management-practices-bmps-stormwater-documents>

EPA – Evaluating the Effectiveness of Municipal Stormwater Programs:

https://www3.epa.gov/npdes/pubs/region3_factsheet_swmp.pdf

EPA – Water Pollution Prevention and Control:

<http://www.epa.gov/p2/learn-about-pollution-prevention>

Miscellaneous

Perkiomen Watershed Conservancy:

<http://www.perkiomenwatershed.org/>

DEP – Raingardens and Rain Barrels:

<http://www.elibrary.dep.state.pa.us/dsweb/Get/Document-109593/3850-PA-DEP4500.pdf>

Rain Barrel Resources:

<http://www.rainbarrelresource.com/>

PADOT Adopt-a Highway:

<http://www.penndot.gov/about-us/AdoptaHighway/Pages/default.aspx#.VtSv9lsrKUK>

Homeowner's Guide to Stormwater:

<http://www.stormwaterguide.org/static/HomeownersGuide.pdf>

Green Guide for Property Management:

http://schuylkillwaters.org/doc_files/Green%20Guide%20for%20Property%20Management.pdf

Center for Watershed Protection Municipal Pollution Prevention / Good Housekeeping Practices (Manual 9):

http://www.in.gov/indot/files/Municipal_Pollution_Prevention_and_Good_Housekeeping.pdf

Homeowners Guide to Stormwater



Document Center

The Document Center provides easy access to public documents. Click on one of the categories below to see related documents or use the search function.

Search for file type:

All



Please click on one of the categories below to see uploaded documents.

Documents & Forms 6 documents

Tips for Contractors *4 documents*

Tips for Residents *16 documents*

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Board of Supervisors

Boards & Commissions

Meeting Schedule

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Questions? Get in touch with us today.

2943 North Charlotte Street
Gilbertsville, PA 19525-9718

P: (610) 323-1008
F:

contact@newhanover-pa.org

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ANNUAL MS4 STATUS REPORT
NEW HANOVER TOWNSHIP

ATTACHMENT B

MCM #2 PUBLIC INVOLVEMENT AND PARTICIPATION

Prepared by:

CENTER FOR
**WATERSHED
PROTECTION**

Center for Watershed Protection, Inc.

11711 East Market Pl, Suite 200

Fulton, MD 20759

<https://www.cwp.org>

Excerpt from Board of Supervisors Meeting Minutes August 4, 2022

NEW HANOVER TOWNSHIP
BOARD OF SUPERVISORS
Regular Monthly Meeting

August 4, 2022
Page 9 of 9

10. BOARD ANNOUNCEMENTS

Ross Snook thanked everyone for coming to the pig roast and said he enjoyed providing it. He thanked everyone who attended his stormwater presentation and stated that he will be offering it again and recommends HOA representatives plan on attending. He stated that DEP representatives thanked him for his work and stated that they had learned from his presentation. He also mentioned the rain barrel workshop and said it was very worthwhile.

Kurt Zebrowski thank Ross for providing the pig roast and said he enjoyed the event.

11. ADJOURNMENT

Chair Livelsberger declared the meeting adjourned at 10:12 PM.

Jamie L. Gwynn, Manager/Secretary

Advertisement of Township Rain Barrel Workshop on 7/28/22

NEW HANOVER RAIN BARREL WORKSHOP

*New Hanover Community Park Pavilion
2766 Gail Dr, Gilbertsville
Thursday, July 28th - 6:30 pm - 7:30 pm*

WHAT IS A RAIN BARREL?

A container that collects and stores rain water from your downspout to be used for watering plants, cleaning yard equipment or topping off a swimming pool.

ABOUT THE WORKSHOP

- All of the necessary tools for building a rain barrel will be provided.
- Participants will be guided through the steps to put your rain barrel together.
- You will leave with a completed rain barrel that is ready to be installed on your property.
- The provided barrel is a 55 gal drum, so make sure it will fit into your vehicle after the workshop!



**TO LEARN MORE & SIGN-UP, CLICK
ON THIS LINK BELOW:**

<https://www.classy.org/event/new-hanover-rain-barrel-workshop/e406933>

Environmental Advisory Board (EAB) Meeting Agenda August 8, 2022

HANOVER TOWNSHIP
Environmental Advisory Board

August 8, 2022 - 6:30PM

REGULAR MEETING AGENDA

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

4. CONSENT ITEMS

A) Consider a motion for approval of the meeting minutes for 11JUL22

5. DISCUSSION ITEMS

A) Old Business

1. Live Stake RFI dates to be announced. DATE Discussion. BOS Presentation. Implementation of Live Staking program

2. DIY Rain Barrel / Workshop was held on 28JUL22 6:30PM AT Community Park barn pavilion. Discussion of how it went and what can be done to improve it.

3. Swamp Creek Rain Garden map procured dates to be announced. Pick out flowers for project.

4. Trees to be picked out for wetlands. Motion to submit to BOS for Swamp Creek Park

5. Pollinator seeds to be ordered or plugs?.

a. EARNSI Seeds ?? b. American Meadows ?? c. Kind Earth Growers:

6.) Swamp Creek Park was lined on 3AUG22. Any problems ? Was payment made to vendor?

B) New Business

1. EAB Focus – monitor environmental problems – situations to BOS ask BOS for permission to help with – ie. Unclog basins.

6. NEW IDEAS -HOA Template

Do you want to do another workshop?

7. PUBLIC COMMENT

Environmental Advisory Board (EAB) Meeting Agenda September 12, 2022

NEW HANOVER TOWNSHIP
Environmental Advisory Board

September 12, 2022 - 6:30PM

REGULAR MEETING AGENDA

. CALL TO ORDER

. PLEDGE OF ALLEGIANCE

. CONSENT ITEMS

A) Consider a motion for approval of the meeting minutes for 8AUG22

. DISCUSSION ITEMS

A) Old Business

1. Live Stake RFI dates to be announced.
2. Swamp Creek Park—pick out seeds.
3. Swamp Creek Rain Garden map procured dates to be announced. Pick out flowers for project.
4. Trees to be picked out for wetlands.

Park

B) New Business

- 1.) Greensway remediation project
- 2.) Greensway stormwater review.
- 3.) EAB Focus —monitor environmental problems — situations to BOS ask BOS for permission to help with — ie, Unclog basins

. NEW IDEAS -HOA Template

Do you want to do another workshop?

Environmental Advisory Board (EAB) Meeting Agenda March 13, 2023

NEW HANOVER TOWNSHIP

Environmental Advisory Board Meeting
March 13, 2023 – 6:30 PM

MEETING AGENDA

- 1. CALL TO ORDER**
- 2. PLEDGE OF ALLEGIANCE**
- 3. ANNOUNCEMENTS**

The following items are on the information table:

- Attendance sign-in forms for the official record of who is in attendance
- Agendas for the public
- A notebook containing the meeting procedures
- A notebook containing approved minutes from prior meetings

Thank you for taking your time to attend tonight's meeting with us; our goal is to end the business portion of the meeting by 9:30 PM and the rest of the meeting by 10:00 PM. Residents will have the opportunity to provide public comments related to agenda items before official action is taken and non-agenda-related items after the business portion of the meeting has been completed. Please note that the chair reserves the right to impose a time limit on public comment if needed. If you are unable to remain at the meeting until the appropriate time for public comment, please write your name, address, and comments on a sheet of paper and place it on the table in the back of the room. The chair will read your comments into the record during public comment.

4. CONSENT ITEMS

- A) Consider a motion regarding minutes from the meeting on February 13, 2023

5. DISCUSSION ITEMS

- A) Swamp Creek Park Meadows Project
- B) Live Staking Project
- C) Rain Garden Restoration
- D) Trash and Recycling Ordinance

6. PUBLIC COMMENT

Excerpt from Environmental Advisory Board (EAB) Meeting Minutes March 13, 2023

D) Mr. Snook stated that the township would like to build a rain garden that could be used as an educational tool for residents and that consideration for a location was being worked on.

Environmental Advisory Board (EAB) Meeting Agenda April 10, 2023

NEW HANOVER TOWNSHIP

Environmental Advisory Board Meeting
April 10, 2023 – 6:30 PM

MEETING AGENDA

- 1. CALL TO ORDER**
- 2. PLEDGE OF ALLEGIANCE**
- 3. ANNOUNCEMENTS**

The following items are on the information table:

- Attendance sign-in forms for the official record of who is in attendance
- Agendas for the public
- A notebook containing the meeting procedures
- A notebook containing approved minutes from prior meetings

Thank you for taking your time to attend tonight's meeting with us; our goal is to end the business portion of the meeting by 9:30 PM and the rest of the meeting by 10:00 PM. Residents will have the opportunity to provide public comments related to agenda items before official action is taken and non-agenda-related items after the business portion of the meeting has been completed. Please note that the chair reserves the right to impose a time limit on public comment if needed. If you are unable to remain at the meeting until the appropriate time for public comment, please write your name, address, and comments on a sheet of paper and place it on the table in the back of the room. The chair will read your comments into the record during public comment.

- 4. CONSENT ITEMS**
 - A) Consider a motion regarding minutes from the meeting on March 13, 2023
- 5. DISCUSSION ITEMS**
 - A) Swamp Creek Park Meadows Project
 - B) Live Staking Project
 - C) Rain Garden Restoration
 - D) Open Interviews for Potential Board Members
- 6. PUBLIC COMMENT**
- 7. BOARD ANNOUNCEMENTS**

Environmental Advisory Board (EAB) Meeting Agenda May 8, 2023

NEW HANOVER TOWNSHIP

Environmental Advisory Board Meeting
May 8, 2023 – 6:30 PM

MEETING AGENDA

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. ANNOUNCEMENTS

The following items are on the information table:

- Attendance sign-in forms for the official record of who is in attendance
- Agendas for the public
- A notebook containing the meeting procedures

Thank you for taking your time to attend tonight's meeting with us; our goal is to end the business portion of the meeting by 9:30 PM and the rest of the meeting by 10:00 PM. Residents will have the opportunity to provide public comments related to agenda items before official action is taken and non-agenda-related items after the business portion of the meeting has been completed. Please note that the chair reserves the right to impose a time limit on public comment if needed. If you are unable to remain at the meeting until the appropriate time for public comment, please write your name, address, and comments on a sheet of paper and place it on the table in the back of the room. The chair will read your comments into the record during public comment.

4. CONSENT ITEMS

- A) Consider a motion regarding minutes from the meeting on April 10, 2023.

5. DISCUSSION ITEMS

- A) Swamp Creek Park Meadows Project
- B) Live Staking Project
- C) Trash/Recycling Ordinance
- D) Delaware River Basin Commission/Aqua – drinking water

6. PUBLIC COMMENT**7. BOARD ANNOUNCEMENTS****8. ADJOURNMENT**

Perkiomen Water Conservancy (partner with New Hanover Township) Activities:



Jessie Kemper
 Director of Conservation
 1 Skippack Pike, Schwenderville, PA 19479
 Phone 610.287.9383
 jkemper13@gmail.com

New Hanover Township Stormwater Reduction Statistics Package

The chart below shows the statistics for your municipality during your 2022 - 2023 membership year:

Conservation Project	Site(s)	Number of Municipal Volunteers	Municipal Volunteer Hours	Amount
Tree Plantings	0	0	0	0 trees planted
Stream Clean-up	3	56	168	40 bags of trash removed
Water Chestnut Removal	0	0	0	0 bags of EWC removed
Rain Garden Installations	0	0	0	0 perennials planted
Rain Barrel/Rain Garden Workshops	1	14	14	14 rain barrels made
TOTALS	4	70	182	54

The chart below shows the statistics for the entire Perkiomen Watershed during your 2022 - 2023 membership year:

Conservation Project	Site(s)	Total Number of Volunteers	Total Volunteer Hours	Total Amount
Tree Plantings	7	200	800	490 trees planted
Stream Clean-up	143	1,700	5,100	1,530 bags of trash removed
Water Chestnut Removal	8	40	80	500 bags of EWC removed
Rain Garden Installations	2	100	300	5,000 native perennials planted
Rain Barrel/Rain Garden Workshops	8	96	96	105 rain barrels made
TOTALS	168	2,136	6,376	7,625

Serving the people and communities of the Perkiomen Watershed
 by conserving and protecting land and water resources through commitment to and leadership
 in environmental education, watershed stewardship and conservation programs.

PROOF OF PUBLICATION OF NOTICE
Under Act No. 587, Approved May 6, 1929

STATE OF PENNSYLVANIA
(COUNTY OF MONTGOMERY) **SS:**

Larry J. Roeder, of LJR Publishing, LLC, of the County and State aforesaid, being duly sworn, deposes and says that THE TOWN AND COUNTRY, a newspaper of general circulation published at 2508 Kutztown Road, Pennsburg, County and State aforesaid, was re-established April 5, 2007, since which time the Town and Country has been regularly issued in said County, and that The Town and Country newspaper is the successor publication to the Hearthstone Town and Country, established May 8, 1997, The Hearthstone Press newspaper, established May 3, 1995 and the Town and Country newspaper, established April 1, 1899, and that the printed notice of publication attached hereto is exactly the same as printed and published in the regular editions and issues of said TOWN AND COUNTRY on the following dates, viz.

10th

17th

November

-----and the----- day of ----- A.D. 2022

Affiant further deposes that he/she is duly authorized by Larry J. Roeder, Publisher of TOWN AND COUNTRY, a newspaper of general circulation, to verify the foregoing statement under oath, and affiant is not interested in the subject matter of the aforesaid notice of advertisement, and that all allegations in the foregoing statements as to time, place and character of publication are true.

Larry J. Roeder

Sworn and subscribed before me this 19th

day of November 2022

Karen L. Roeder

Notary Public

Commonwealth of Pennsylvania - Notary Seal
KAREN L. ROEDER, Notary Public
Bucks County
My Commission Expires March 21, 2025
Commission Number 1139764

NOTICE

Notice is hereby given that on Thursday, December 1, 2022, at 6:30 p.m., prevailing time, at the New Hanover Volunteer Fire and Rescue Services Main Station (2154 Swamp Pike Gilbertsville PA 19525), the Board of Supervisors of New Hanover Township shall hold a public meeting and hearing in order to consider the enactment of a proposed ordinance.

Title: AN ORDINANCE OF THE TOWNSHIP OF NEW HANOVER AMENDING THE CODE OF ORDINANCES OF NEW HANOVER TOWNSHIP TO AMEND CHAPTER 22, PART 8, DESIGN STANDARDS, SECTION 810, STORMWATER MANAGEMENT AND DRAINAGE, TO AMEND AND UPDATE DESIGN STANDARDS TO CONFORM TO UPDATES AND AMENDMENTS MADE TO CHAPTER 23, STORMWATER MANAGEMENT; AND AMENDING CHAPTER 23, STORMWATER MANAGEMENT, PART 1, GENERAL PROVISIONS, SECTIONS 102, 103, 105, 106 AND 107 TO UPDATE AND INCORPORATE NEW TERMINOLOGY AND DEFINITIONS, AND ADD SECTION 108 TO ADDRESS THE ISSUANCE OF PERMITS ON THE BASIS OF ERRONEOUS OR MISLEADING INFORMATION AND SECTION 109 TO CREATE STANDARDS FOR WAIVERS; TO AMEND PART 2, DEFINITIONS, TO ADD ADDITIONAL AND UPDATED TERMINOLOGY; TO AMEND PART 3, STORMWATER MANAGEMENT (SWM) SITE PLAN REQUIREMENTS, TO INCORPORATE NEW TERMINOLOGY AND UPDATE THE CRITERIA AND REQUIREMENTS FOR STORMWATER MANAGEMENT SITE PLANS; TO AMEND PART 4, STORMWATER MANAGEMENT, TO INCORPORATE NEW TERMINOLOGY AND UPDATE THE STORMWATER MANAGEMENT STANDARDS AND CRITERIA FOR DEVELOPMENT PROJECTS; TO AMEND PART 5, INSPECTIONS TO INCORPORATE NEW

TERMINOLOGY; TO AMEND PART 6, FEES AND EXPENSES, TO INCORPORATE NEW TERMINOLOGY; TO AMEND PART 7, MAINTENANCE RESPONSIBILITIES, TO INCORPORATE NEW TERMINOLOGY AS WELL AS UPDATE STANDARDS AND CRITERIA FOR THE OPERATION, MAINTENANCE, AND INSPECTION OF STORMWATER BMPS; TO AMEND PART 8, SECTION 801, PROHIBITED DISCHARGES, TO UPDATE THE STANDARDS FOR PROHIBITED DISCHARGES, AND SECTION 804, ALTERATION OF BMPS, TO INCORPORATE NEW TERMINOLOGY; TO AMEND PART 9, ENFORCEMENT AND PENALTIES, SECTIONS 901, 903, AND 904 TO INCORPORATE NEW TERMINOLOGY, AND TO AMEND SECTION 907, ENFORCEMENT; TO INCORPORATE NEW TERMINOLOGY AND REQUIRE ADDITIONAL DOCUMENTATION FOR THE RELEASE OF A PERFORMANCE GUARANTEE.

Summary: Section 1: amends Chapter 22, Subdivision and Land Development, Part 8, Section 810 to update design standards to conform with updates and amendments made to Chapter 23, Stormwater Management; Section 2: amends Chapter 23, Stormwater Management, Section 102, to update and incorporate new terminology and definitions; Section 3: amends Section 103 to update and incorporate new terminology and definitions; Section 4: amends Section 105 to update and incorporate new terminology and definitions and reference to Table 23-105; Section 5: amends Section 106 to update and incorporate new terminology and definitions; Section 6: amends Section 107 to update and incorporate new terminology and definitions; Section 7: adds Sections 108 to address the issuance of permits on the basis of erroneous or misleading information and Section 109 to create standards for waivers; Section 8: amends Part 2, Definitions, to add additional and updated terminology; Section 9: amends Part 3, Stormwater Manage-

ment site plans, to incorporate new terminology and update the criteria and requirements for site plans; Section 10: amends Part 4, Stormwater Management, to incorporate new terminology and update the standards and criteria for development projects and reference to Appendix 23-G; Section 11: amends Part 5, Inspections, to incorporate new definitions and terminology; Section 12: amends Part 6, Fees and Expenses, to incorporate new definitions and terminology; Section 13: amends Part 7, Maintenance Responsibilities, to incorporate new terminology and update standards and criteria for the operation, maintenance, and inspection of stormwater BMPS; Section 14: amends Part 8, Section 801, Prohibited Discharges, to update standards for prohibited discharges; Section 15: amends Section 804, alteration of BMPS, to incorporate new terminology; Section 16: amends Part 9, Section 901, Right-of-Entry, to incorporate new terminology; Section 17: amends Section 903, Enforcement and Penalties, to incorporate new terminology; Section 18: amends Section 904, Suspension and Revocation of permits and Approvals, to incorporate new terminology; Section 19: amends Section 907, Enforcement, to incorporate new terminology and require additional documentation for the release of a performance guarantee; Section 20: repeals all inconsistent ordinances and parts of ordinances; Section 21: provides for the severability of any part of the Ordinance found to be invalid; Section 22: provides that the location and numerical designation of the Ordinance may be renumbered at the discretion of the General Code Publishers; Section 23: provides the effective date of the Ordinance.

A copy of the proposed Ordinance is available for public inspection in the temporary work trailer next to the Township's Municipal Building (2943 North Charlotte Street, Gilbertsville, PA 19525 - M-R 8:00AM-5:00PM) and may be examined without charge or obtained at the temporary work trailer for a charge not greater than the cost thereof. A copy of the Ordinance is also available for inspection at the Town and Country Newspaper, located at 2508 Kutztown Road, Pennsburg, Pennsylvania 18073.

ance is also available for inspection at the Town and Country Newspaper, located at 2508 Kutztown Road, Pennsburg, Pennsylvania 18073.

If you wish to attend the meeting and are a person with a disability requiring an auxiliary aide, service or other accommodation, please contact the New Hanover Township office at (610) 323-1008 to discuss how the Township can best accommodate your needs.

Andrew J. Bellwoar, Esquire
Bellwoar Kelly, LLP
Solicitor for New Hanover Township



ANNUAL MS4 STATUS REPORT
NEW HANOVER TOWNSHIP

ATTACHMENT C

MCM #3 ILLICIT DISCHARGE DETECTION AND
ELIMINATION



Prepared by:

Center for Watershed Protection, Inc.
11711 East Market Pl, Suite 200
Fulton, MD 20759
<https://www.cwp.org>

New Hanover Township Outfalls 2023

IDDE Summary

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
101	Outfall	Earthen		12	No	Unlikely	Good	No	
102	Outfall	Rip-rap		12	No	Unlikely	Good	No	
103	Outfall	Earthen		24	No	Unlikely	Good	No	
104	Outfall	Earthen	Swale		No	Unlikely	Good	No	
105	Outfall	Earthen		24	No	Unlikely	Poor	No	
107	Outfall	Earthen		36	No	Unlikely	Good	No	
108	Outfall	Earthen		36	No	Unlikely	Good	No	
109	Outfall	Earthen		18	No	Unlikely	Good	No	Consider removing tree obstructing outfall.
110	Outfall	Squash Pipe		36-48	No	Unlikely	Good	Yes (new this year)	Deposits determined to be from passing vehicles on the roadway immediately upstream. No further investigation recommended. Not a source of illicit discharge. Monitor Outfall Annually.
111	Outfall	Earthen		18	No	Unlikely	Poor	No	
112	Outfall	Rip-rap		18	No	Unlikely	Poor	No	
113 / not found	Outfall				No	Unlikely	Good	No	
114	Outfall	Concrete		24	No	Unlikely	Good	No	
115	Outfall	Earthen	Natural Ditch	12	No	Unlikely	Good	No	
116	Outfall	Earthen		18	No	Unlikely	Good	No	
117	Outfall	Rip-rap		18	No	Unlikely	Good	No	
119	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
120	Outfall	Earthen	Swale		No	Unlikely	Good	No	

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
121	Outfall	Earthen			No	Unlikely	Good	No	
123	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
124	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
125	Outfall	Plastic Pipe	Plastic Pipe	18	No	Unlikely	Good	No	
126	Outfall	Earthen	Natural Ditch	>12	No	Unlikely	Good	No	
127	Outfall	Rip-rap			No	Unlikely	Good	No	
128	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
131	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
132	Outfall	Rip-rap			No	Unlikely	Good	No	
135	Outfall	Concrete	Concrete		No	Unlikely	Good	No	
136	Outfall	Earthen			No	Unlikely	Good	No	
142	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
145	Outfall				No	Unlikely	Good	No	
146	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
148	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
201	Outfall	Concrete	Concrete	24-36	No	Unlikely	Good	No	
202	Outfall				No	Unlikely	Good	No	
203	Outfall	Earthen	Swale		No	Unlikely	Good	Yes	
204	Outfall	Earthen			No	Unlikely	Good	No	

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
205	Outfall	Concrete	Concrete	24	No	Unlikely	Good	No	
205	Outfall	Earthen			No	Unlikely	Good	Yes	
206	Outfall				No	Unlikely	Good	No	
207	Outfall	Earthen			No	Unlikely	Good	No	
208	Outfall	Pipe Nader Driveway	Pipe Nader Driveway	18	No	Unlikely	Good	No	
209	Outfall	Squash Pipe	Squash Pipe		No	Unlikely	Poor	Yes	Spalling, cracking and chipping of outfall structure. Monitor structure for soundness and assess future cost to repair.
210	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
211	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	Yes	
212	Outfall	Earthen	Large Box	72	No	Unlikely	Good	No	Deposits at upper lip of drain mouth determined to be of natural origin. Not a source of illicit discharge.
213 / not found	Outfall					Unlikely	Good	No	
214	Outfall	Rip-rap		24	No	Unlikely	Good	No	
215	Outfall	Concrete	Concrete	18	No	Unlikely	Good	No	
216 / not found	Outfall				No	Unlikely	Good	No	
217 / not found	Outfall				No	Unlikely	Good	No	
218	Outfall	Earthen	Natural Swale		No	Unlikely	Good	No	
219	Outfall	Swale	Swale		No	Unlikely	Good	No	
22	Outfall	Earthen	Open Ditch	2	No	Unlikely	Good	No	

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
220	Outfall	Earthen	Ditch	48	No	Unlikely	Good	No	
221	Outfall	Earthen		36	No	Unlikely	Very Poor	No	Corrosion, spalling, cracking, chipping of outfall structure. Monitor structure for soundness and assess future cost to repair.
222	Outfall	Concrete	Pipe in Inlet	48	No	Unlikely	Good	No	
223	Outfall	Concrete	Pipe in Inlet	48	No	Unlikely	Good	No	
224	Outfall	Rip-rap	Plastic Pipe	42	No	Unlikely	Good	No	
225	Outfall	Earthen			No	Unlikely	Good	No	
226	Outfall	Earthen			No	Unlikely	Good	No	
227	Outfall	Rip-rap			No	Unlikely	Good	No	
228	Outfall	Rip-rap			No	Unlikely	Good	No	
233	Outfall	Earthen			No	Unlikely	Good	No	
234	Outfall	Earthen			No	Unlikely	Good	No	
235	Outfall	Earthen			No	Unlikely	Good	No	
236	Outfall	Earthen			No	Unlikely	Good	No	
237	Outfall	Rip-rap			No	Unlikely	Good	No	
238	Outfall	Rip-rap			Yes	Unlikely	Good	No	
239	Outfall	Rip-rap			No	Unlikely	Good	No	
240	Outfall	Rip-rap			No	Unlikely	Good	No	
241	Outfall	Concrete	Pipe	48	No	Unlikely	Good	No	
242	Outfall	Earthen		18	No	Unlikely	Good	No	

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
258	Outfall	Earthen			No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
301	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
302	Outfall	Earthen	Natural Ditch	60	No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
303	Outfall	Earthen		12	No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
304	Outfall	Earthen		24	No	Unlikely	Poor	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
305	Outfall	Concrete	Concrete	36	No	Unlikely	Very Poor	No	Concrete outfall outlet is breaking away. Spalling, cracking, corrosion, and chipping. Monitor structure for soundness and assess future cost to repair.
306	Outfall	Earthen		36	No	Possible	Good	Yes (new this year)	Oil sheen determined to be from passing vehicles on the roadway immediately upstream. No longer present. Not a source of illicit discharge. Monitor Outfall Annually. Corrosion, spalling, cracking of outlet structure.

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
307	Outfall	Squash Pipe	Squash Pipe	36-48	No	Unlikely	Good	No	
308 / not found	Outfall				No	Unlikely	Good	No	
309 / not found	Outfall				No	Unlikely	Good	No	
310	Outfall	Earthen	Rectangular	13' by 4'	No	Unlikely	Good	No	
311	Outfall	Earthen	Rectangular	13' by 4'	No	Unlikely	Good	No	
312	Outfall	Earthen	Rectangular	13' by 4'	No	Unlikely	Good	No	
313	Outfall	Earthen	Rectangular	13' by 4'	No	Unlikely	Good	No	
314	Outfall	Earthen		12	No	Unlikely	Good	No	
315	Outfall	Earthen		32	No	Unlikely	Good	No	
316	Outfall	Earthen		18	No	Possible	Good	Yes (new this year)	Heavy deposits about 6' from mouth of outfall determined to be of natural origin. No source of illicit discharge. No further investigation recommended at this time. Recommend outfall be added to Priority Area list to be monitored annually.
317	Outfall	Earthen			No	Unlikely	Poor	No	Ditch modified into steps by homeowner. Inform homeowner of stormwater conveyance system importance to correct blockage.
318	Outfall	Earthen	Open Ditch		No	Unlikely	Good	No	

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
32	Outfall	Earthen		32	No	Unlikely	Good	No	
322	Outfall	Earthen	Natural Swale		No	Unlikely	Good	No	
323	Outfall				No	Unlikely	Good	No	
324	Outfall	Small Pipe	Small Pipe	12	No	Unlikely	Poor	No	Asphalt above pipe breaking apart. Inform personal responsible for roadway maintenance.
325	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
326	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
327	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
328	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
329	Outfall	Earthen			No	Unlikely	Good	Yes	
330	Outfall	Earthen			No	Unlikely	Good	No	
331	Outfall	Earthen			No	Unlikely	Good	Yes	
332	Outfall	Earthen			No	Unlikely	Good	No	
335	Outfall	Earthen		36	No	Unlikely	Good	No	
358	Outfall	Concrete	Concrete		No	Unlikely	Good	No	
337	Outfall				No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
338	Outfall	Earthen		24	No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
402	Outfall	Concrete	Concrete	48	No	Unlikely	Good	No	

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
404	Outfall	Earthen	Natural Ditch	24	No	Unlikely	Good	No	
405	Outfall	Earthen	Culvert	72	No	Unlikely	Good	No	
406	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
407	Outfall	Earthen			No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
408	Outfall	Earthen			No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
409	Outfall	Earthen	Natural Ditch	>12	No	Unlikely	Good	No	
41 / not found	Outfall				No	Unlikely	Good	No	
410	Outfall	Earthen			No	Unlikely	Good	No	
411	Outfall	Earthen		36	No	Unlikely	Good	No	
412	Outfall	Earthen	Natural Stream	24	No	Unlikely	Good	No	
413	Outfall	Earthen	Culvert		No	Unlikely	Good	Yes	
414	Outfall	Rip-rap	Pipe	24	No	Unlikely	Good	No	
415	Outfall	Earthen	Culvert		No	Unlikely	Good	No	
416	Outfall	Rip-rap	Pipe	24	No	Unlikely	Good	Yes	
418	Outfall	Earthen	Natural Stream		No	Unlikely	Good	No	
420	Outfall	Earthen			No	Unlikely	Good	No	
421	Outfall	Earthen			No	Unlikely	Good	No	
422	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
423	Outfall	Earthen	Swale		No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
436	Outfall	Earthen			No	Unlikely	Good	No	Cannot reach outfall-vegetation, Re-screen next year.
437	Outfall	Earthen	Swale		No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
438	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	Cannot reach outfall-vegetation. Re-screen next year.
448	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	Cannot reach outfall-vegetation. Re-screen next year.
47	Outfall				No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
49/ not found	Outfall				No	Unlikely	Good	No	
509	Outfall	Plastic Pipe	Plastic Pipe	18	No	Unlikely	Good	No	
510	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
511	Outfall	Earthen	Natural Ditch	12	No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
512	Outfall	Earthen	Natural Ditch	12	No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
514	Outfall	Earthen	Swale		No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
516	Outfall	Earthen	Swale		No	Unlikely	Good	No	
519	Outfall	Rip-rap	Plastic Pipe	12	No	Unlikely	Good	No	
520	Outfall	Earthen	Natural Ditch		No	Unlikely	Fair	No	No damage but outfall surrounded by rock. Consider maintenance or rock removal if necessary to proper function.
521	Outfall	Rip-rap	Ditch	24	No	Unlikely	Good	No	
522	Outfall	Earthen		48	No	Unlikely	Good	No	
523	Outfall	Earthen		48	No	Unlikely	Good	No	
524	Outfall	Concrete	Concrete	24	No	Unlikely	Good	No	
525	Outfall	Earthen	Natural Ditch	12	No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
526	Outfall	Earthen		24	No	Unlikely	Good	No	
527 not found	Outfall				No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
528	Outfall	Rip-rap	Swale		No	Unlikely	Good	No	
529	Outfall	Rip-rap			No	Unlikely	Good	No	
530	Outfall		Large Pipe	48	No	Unlikely	Poor	No	Spalling, cracking, chipping corrosion at outfall.
64	Outfall	Earthen		24	No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
72	Outfall	Rip-rap			No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
73	Outfall	Earthen		24	No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
74	Outfall				No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
78	Outfall	Earthen			No	Unlikely	Good	No	
8	Outfall	Earthen		36	No	Unlikely	Good	No	
9	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
901	Outfall	Rip-rap			No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
902	Outfall	Earthen			No	Unlikely	Good	No	
905	Outfall	Rip-rap			No	Unlikely	Good	No	
906	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
907 / not found	Outfall				No	Unlikely	Good	No	
908	Outfall	Rip-rap	Plastic Pipe	36	No	Unlikely	Good	No	
909	Outfall	Earthen		36	No	Unlikely	Good	No	
910	Outfall	Earthen			No	Unlikely	Good	No	
911	Outfall	Earthen			No	Unlikely	Good	No	

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
912	Outfall	Earthen			No	Unlikely	Good	No	
919	Outfall	Cement	Pipe		No	Unlikely	Good	No	
920	Outfall	Earthen		48	No	Unlikely	Good	Yes (new this year)	Oil sheen determined to be from passing vehicles on the roadway immediately upstream. No further investigation recommended at this time. Recommend outfall be added to Priority Area list to be monitored annually.
921	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
922	Outfall	Earthen			No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
923	Outfall	Earthen			No	Unlikely	Good	No	
924	Outfall	Earthen	Open Retention Basin		No	Unlikely	Good	No	
925	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
926	Outfall	Earthen	Swale		No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.
927	Outfall	Earthen	Swale		No	Unlikely	Good	No	Excessive vegetation at outfall. Consider

Outfall Number	Type	Pipe Type	Shape	Pipe Diameter (in)	Flow Present	Illicit Discharge Determination	Outfall Condition	Drain Priority Area?	2023 Dry Weather Field Screening Notes
									maintenance or vegetation removal.
928 / not found	Outfall				No	Unlikely	Good	No	
929 / not found	Outfall				No	Unlikely	Good	No	
930	Outfall	Rip-rap		24	No	Unlikely	Good	No	
931	Outfall				No	Unlikely	Good	No	
932	Outfall	Earthen		24	No	Unlikely	Good	No	
933	Outfall	Earthen		24	No	Unlikely	Good	No	
934	Outfall	Earthen		12	No	Unlikely	Good	No	
935	Outfall				No	Unlikely	Good	No	
936	Outfall	Concrete	Concrete	24	No	Unlikely	Good	No	
937	Outfall	Earthen	Natural Ditch		No	Unlikely	Fair	No	
938	Outfall	Earthen	Natural Ditch		No	Unlikely	Good	No	
96	Outfall	Earthen	Swale		No	Unlikely	Good	No	Excessive vegetation at outfall. Consider maintenance or vegetation removal.



DRY WEATHER OUTFALL FIELD SCREENING

New Hanover Township | NPDES ID: PAG130020

Date:	Time Inspected:
Outfall Number:	Outfall/Observation Point:
Lat/Long:	Inspector(s):
Subwatershed:	Contributing Drainage Area Land Use:
Date of Previous Precipitation:	Amount of Previous Precipitation:
Responsible Official Name:	Signature:

Outfall Description

Pipe Type	Material	Shape	Dimensions (in.)	Submerged
Closed				In water:
				With sediment:
Open				
In-stream?				
Flow present?				
Flow description (if present):				

Quantitative Characterization (field data for flowing outfalls)

Parameter		Result	Unit	Equipment
Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
Flow #2	Flow depth		In	Tape measure
	Flow width		Ft, In	Tape measure
	Measured length		Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature		75	°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mG/L	Test strip



New Hanover Township

2943 North Charlotte Street
 Gilbertsville, PA 19525-9718

<https://www.newhanover-pa.org/>



Physical Indicators for Flowing Outfalls Only

Are any physical indicators present in the flow?

Indicator	Present?	Description	Relative Severity
Odor			
Color			
Turbidity			
Floatables			

Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? No

Indicator	Present?	Description	Comments
Outfall Damage			
Deposits/Stains			
Abnormal Vegetation			
Poor pool quality			
Pipe benthic growth			

Overall outfall characterization for an illicit discharge:

Data Collection

1. Sample for the lab?	
2. If yes, collected from:	
3. Intermittent flow trap set?	
4. Flow trap type:	

Any non-illicit discharge concerns?

Notes:





Photo No. 1	Dry Weather Outfall Field Screening	

Photo No. 2	Dry Weather Outfall Field Screening	





ANNUAL MS4 STATUS REPORT
NEW HANOVER TOWNSHIP

ATTACHMENT D

MCM #5 POST CONSTRUCTION STORMWATER
MANAGEMENT

Prepared by:

CENTER FOR
**WATERSHED
PROTECTION**

Center for Watershed Protection, Inc.

11711 East Market Pl, Suite 200

Fulton, MD 20759

<https://www.cwp.org>

2023 NEW HANOVER TOWNSHIP PCSM BMP INVENTORY

Site	BMP Site No.	BMP No.	BMP Type	BMP Address	Property Owner	Property Owner Address	Responsible Party	Responsible Party Address	Date Installed	NPDES Permit No.	Active BMP	Constructed	Latitude	Longitude
Fun-E-Farm, LLC	1	1A	Retention Basin	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31312575	-75.55232574
Fun-E-Farm, LLC.	1	1B	Rain Garden/Bio-Retention	2488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31226284	-75.55255488
Fun-E-Farm, LLC.	1	1B1	Rain Garden/Bio-Retention	2488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31170066	-75.55165912
Fun-E-Farm, LLC.	1	1C	Protected Sensitive Features	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31406923	-75.55546397
Fun-E-Farm, LLC.	1	1C1	Protected Sensitive Features	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31401094	-75.55390736
Fun-E-Farm, LLC.	1	1D	Revegetation Area	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31314169	-75.55197752
Fun-E-Farm, LLC.	1	1E	Vegetated Swale	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31274801	-75.55162824
Fun-E-Farm, LLC.	1	1F	Soils Amendment and Restoration	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31288355	-75.55223625
Fun-E-Farm, LLC.	1	1F1	Soils Amendment and Restoration	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31256591	-75.55201839
Fun-E-Farm, LLC.	1	1G	Disconnection from Storm Sewers	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31285411	-75.55199422
Fun-E-Farm, LLC.	1	1G1	Disconnection from Storm Sewers	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31244352	-75.55171058
Fun-E-Farm, LLC.	1	1G2	Disconnection from Storm Sewers	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31220821	-75.55090745
Fun-E-Farm, LLC.	1	1G3	Disconnection from Storm Sewers	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.3120265	-75.55175463
Fun-E-Farm, LLC.	1	1G4	Disconnection from Storm Sewers	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.3120176	-75.55122465
Fun-E-Farm, LLC.	1	1G5	Disconnection from Storm Sewers	3488 Church Road	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	11/9/2018	PAG02004614031	Yes	Yes	40.31196593	-75.55203702
Windlestrae	18	18A (Basin D)	Detention Basin	Tulip Lane, Gilbertsville, PA 19525	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	7/7/2010	PAG-02004603158R	Yes	Yes	40.31211658	-75.59192548
Windlestrae	18	18A1 (Basin E)	Detention Basin	Tulip Lane, Gilbertsville, PA 19525	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	7/7/2010	PAG-02004603158R	Yes	Yes	40.3114396	-75.59487129
Windlestrae	18	18A2 (Basin C)	Detention Basin	Tulip Lane, Gilbertsville, PA 19525	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	7/7/2010	PAG-02004603158R	Yes	Yes	40.30998746	-75.59372226

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Site	BMP Site No.	BMP No.	BMP Type	BMP Address	Property Owner	Property Owner Address	Responsible Party	Responsible Party Address	Date Installed	NPDES Permit No.	Active BMP	Constructed	Latitude	Longitude
Windlestrae	18	18A3 (Basin A)	Detention Basin	Dotterer Road	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	6/15/2006	PAG-02004603158R	Yes	Yes	40.30864393	-75.58900586
Windlestrae	18	18A4 (Basin B)	Detention Basin	Wrenfield Lane	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	6/15/2006	PAG-02004603158R	Yes	Yes	40.314715	-75.584983
Windlestrae	18	18B	Porous Pavement	Tulip Lane	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	6/15/2006	PAG-02004603158R	Yes	Yes	40.31023	-75.593324
Windlestrae	18	18C	Flo-Guard Vortex Separator	Tulip Lane	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	6/15/2006	PAG-02004603158R	Yes	Yes	40.310072	-75.593296
Windlestrae	18	18D (Basin B Forebay)	Detention Basin Forebay	Wrenfield Lane	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	6/15/2006	PAG-02004603158R	Yes	Yes	40.313416	-75.584459
Windlestrae	18	18D1 (Basin B Forebay)	Detention Basin Forebay	Wrenfield Lane	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	6/15/2006	PAG-02004603158R	Yes	Yes	40.31413	-75.584581
Windlestrae	18	18D2 (Basin C Forebay)	Detention Basin Forebay	Tulip Lane	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	6/15/2006	PAG-02004603158R	Yes	Yes	40.310282	-75.593745
Windlestrae	18	18D3 (Basin D Forebay)	Detention Basin Forebay	Middle Creek Road	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	6/15/2006	PAG-02004603158R	Yes	Yes	40.31196097	-75.591765
Windlestrae	18	18D4 (Basin E Forebay)	Detention Basin Forebay	Tulip Lane, Gilbertsville, PA 19525	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	6/15/2006	PAG-02004603158R	Yes	Yes	40.31196097	-75.591765
Windlestrae	18	18E	Inlet Snout/Oil-Grit Separator	Middle Creek Road	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Windlestrae Community Master Association, c/o Camco Mangement Company	501 Office Center Drive, STE 200, Fort Washington, PA 19034	6/15/2006	PAG-02004603158R	Yes	Yes	40.30974	-75.593271
Kingston Hill	19	19A	Detention Basin	Canyon Creek Road, Gilbertsville, PA 19525	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	TBD	TBD	TBD	Yes	Yes	40.2819997	-75.59724539
Kingston Hill	19	19A1	Detention Basin	Canyon Creek Road, Gilbertsville, PA 19525	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	TBD	TBD	TBD	Yes	Yes	40.28255153	-75.59640348
Kingston Hill	19	19A2	Detention Basin	Canyon Creek Road, Gilbertsville, PA 19525	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	TBD	TBD	TBD	Yes	Yes	40.28233778	-75.59452013
Kingston Hill	19	19A3	Detention Basin	Canyon Creek Road, Gilbertsville, PA 19525	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	TBD	TBD	TBD	Yes	Yes	40.28245222	-75.5907528

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Kingston Hill	19	19C	Amended Soils	2001 CANYON CREEK RD	WEBER JOHN C JR & KELLY	2001 CANYON CREEK RD, GILBERTSVILLE, PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28181	-75.5988
Kingston Hill	19	19C1	Amended Soils	2003 CANYON CREEK RD	ARDEN STEVEN WAYNE & RACHEL PAULINE	2003 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28198	-75.5986
Kingston Hill	19	19C2	Amended Soils	2007 CANYON CREEK RD	WASSEL WILLIAM C & LYNN S	2007 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28228	-75.5983
Kingston Hill	19	19C3	Amended Soils	1988 CANYON CREEK RD	IMBESI PHILIP MATTHEW & JENNIFER MARIE	1988 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28095	-75.5979
Kingston Hill	19	19C4	Amended Soils	1986 CANYON CREEK RD	GUNVANTBHAI HEMANT & PATEL KRISHNA HEMANT	1986 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28081	-75.5977
Kingston Hill	19	19C5	Amended Soils	1987 CANYON CREEK RD	SUSSMAN JEFFREY A & LAURA A & SUSSMAN BARRY	1987 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28045	-75.5981
Kingston Hill	19	19C6	Amended Soils	1985 CANYON CREEK RD	HIRST DAVID J JR & ALLYSON T	1985 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28037	-75.5979
Kingston Hill	19	19C7	Amended Soils	1983 CANYON CREEK RD	GLADWIN ROBERT S & SUSAN A	1983 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28026	-75.5977
Kingston Hill	19	19C8	Amended Soils	1981 CANYON CREEK RD	SEDGWICK WAYNE & SANDRA JULIA	1981 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28018	-75.5975
Kingston Hill	19	19C9	Amended Soils	CANYON CREEK RD	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28022	-75.5972
Kingston Hill	19	19C10	Amended Soils	1977 CANYON CREEK RD	WENZEL TYLER & EMILY	1977 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28008	-75.597
Kingston Hill	19	19C11	Amended Soils	602 MADISON CT	DEBERARDINIS JOSEPH J & BRIDGET C	602 MADISON CT, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28006	-75.5967
Kingston Hill	19	19C12	Amended Soils	604 MADISON CT	BOYLE KEVIN & SHIVERS KELLY	604 MADISON CT, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.27985	-75.5967
Kingston Hill	19	19C13	Amended Soils	606 MADISON CT	SHABBIR ADNAN & LAUREN	606 MADISON CT, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.27962	-75.5966
Kingston Hill	19	19C14	Amended Soils	608 MADISON CT	GILBERT MARK D & STACY M	608 MADISON CT, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.27939	-75.5964
Kingston Hill	19	19C15	Amended Soils	609 MADISON CT	MCGRORY MICHAEL L & JESSICA L	609 MADISON CT, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.27935	-75.5961
Kingston Hill	19	19C16	Amended Soils	1969 CANYON CREEK RD	MAJOR JOHN R & DEBRA A	1969 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28008	-75.5957
Kingston Hill	19	19C17	Amended Soils	CANYON CREEK RD	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28017	-75.5955

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Kingston Hill	19	19C18	Amended Soils	1965 CANYON CREEK RD	HALL JUSTIN S & MERISSA L	1965 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28027	-75.5952
Kingston Hill	19	19C19	Amended Soils	1963 CANYON CREEK RD	ALEX CYNTHIA	1963 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28041	-75.595
Kingston Hill	19	19C20	Amended Soils	1976 CANYON CREEK RD	BATZ RICHARD J & NICOLE D	1976 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28054	-75.5966
Kingston Hill	19	19C21	Amended Soils	CANYON CREEK RD	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28053	-75.5963
Kingston Hill	19	19C22	Amended Soils	1960 CANYON CREEK RD	HECK WILLIAM A & RYAN KATE	1960 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.281	-75.5953
Kingston Hill	19	19C23	Amended Soils	1956 CANYON CREEK RD	WOOLFORD SEMAJ SPECIAL NEEDS TRUST THE PNC BANK NA TRUSTEE	PO BOX 13929, ARLINGTON TX 76094	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28124	-75.5949
Kingston Hill	19	19C24	Amended Soils	1954 CANYON CREEK RD	CHEN SHANDE & WU YU YING	1954 CANYON CREEK RD, GILBERTSVILLE PA 19525	Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28141	-75.5948
Kingston Hill	19	19C25	Amended Soils	CENTENNIAL AVE	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28154	-75.5963
Kingston Hill	19	19C26	Amended Soils	CENTENNIAL AVE	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28223	-75.5961
Kingston Hill	19	19D	Restoration: Buffers/Landscape/Floodplain (407 Tree Plantings Throughout)	Kingston Hill	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.28163	-75.5967
Kingston Hill	19	19B	Infiltration Berm	Canyon Creek Road	Camco Management Company		Kingston Hill HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034			Yes	Yes	40.27986	-75.5954
Country Meadows	20	20A1	Rain Garden	201/203 Peter Lane	PACITTO DAVID B & ANTONIA/ONDARZA SHANE JARED & JOHNSTON HEATHER L	201/203 Peter Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30577667	-75.59344093
Country Meadows	20	20A2	Rain Garden	205 Peter Lane	WINNEBERGER STEPHEN J & JENNIFER M	205 Peter Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30560004	-75.59309002
Country Meadows	20	20A3	Rain Garden	207 Peter Lane	MCDANIEL DENISE R	207 Peter Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30548523	-75.5927894
Country Meadows	20	20A4	Rain Garden	207/209 Peter Lane	MCDANIEL DENISE R/ROBERTSON JONATHAN V & COLON DEVORAH E	207/209 Peter Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.3053759	-75.59243467
Country Meadows	20	20A5	Rain Garden	101 Fox Lane	MOYER TERRY A & KAREN F/EGOLF SCOTT B & LINDA T	101 Fox Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30649711	-75.59311778
Country Meadows	20	20A6	Rain Garden	103/105 Fox Lane	MCGAVIN PHILLIP H & ROSEMARY/EGOLF SCOTT B & LINDA T	103/105 Fox Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.3067467	-75.59296669

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Country Meadows	20	20A7	Rain Garden	107/109 Fox Lane	PETTINE BARTHEL B & CHRISTINE R/HARVEY WILLIAM K & WHITE-HARVEY LORI A	107/109 Fox Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30729425	-75.59276799
Country Meadows	20	20A8	Rain Garden	209/211 Qual Drive	GINER MARK F & CYNTHIA A/MURPHY PATRICK JULIAN	209/211 Qual Drive, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30692678	-75.59124793
Country Meadows	20	20A9	Rain Garden	211/213 Qual Drive	MURPHY PATRICK JULIAN/BARNDT KEVIN M & CARR PAMELA L	211/213 Qual Drive, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30669041	-75.59099221
Country Meadows	20	20B1	Infiltration Berm	2939 Dotterer Road	KLEINBACH KEITH K & KLEINBACH DALE M &	2939 Dotterer Road, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30652171	-75.59119038
Country Meadows	20	20B2	Infiltration Berm	108 Fox Lane	STANCICK ASHLEY L & DERRICK R	108 Fox Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30675551	-75.59159425
Country Meadows	20	20B3	Infiltration Berm	206 Peter Lane	HAZEL MARY E	206 Peter Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30598561	-75.59195029
Country Meadows	20	20C1	Underground Detention Basin	203 Peter Lane	ONDARZA SHANE JARED & JOHNSTON HEATHER L	203 Peter Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30562247	-75.59332716
Country Meadows	20	20C2	Underground Detention Basin	207 Peter Lane	MCDANIEL DENISE R	207 Peter Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30538989	-75.59271352
Country Meadows	20	20C3	Underground Detention Basin	209 Peter Lane	ROBERTSON JONATHAN V & COLON DEVORAH E	209 Peter Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30522612	-75.59201335
Country Meadows	20	20C4	Underground Detention Basin	105 Fox Lane	EGOLF SCOTT B & LINDA T	105 Fox Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30694979	-75.59304967
Country Meadows	20	20C5	Underground Detention Basin	109 Fox Lane	HARVEY WILLIAM K & WHITE-HARVEY LORI A	109 Fox Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30755609	-75.59240669
Country Meadows	20	20C6	Underground Detention Basin	110 Fox Lane	TYLER BRIAN B & TABITHA L	110 Fox Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30731911	-75.59176762
Country Meadows	20	20C7	Underground Detention Basin	213 Qual Road	BARNDT KEVIN M & CARR PAMELA L	213 Qual Road, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.3065427	-75.59053494
Country Meadows	20	20C8	Underground Detention Basin	214 Qual Road	COCCIE KATHLEEN M & LAVIN THOMAS M	214 Qual Road, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30693589	-75.59011089
Country Meadows	20	20D1	Inlet Snout/Oil-Grit Separator	Qual Road	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.30770173	-75.5925191
Country Meadows	20	20D2	Inlet Snout/Oil-Grit Separator	Fox Lane	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.30742269	-75.59205959
Country Meadows	20	20D3	Inlet Snout/Oil-Grit Separator	Fox Lane	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.30742807	-75.59217562
Country Meadows	20	20D4	Inlet Snout/Oil-Grit Separator	Qual Drive	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.30747918	-75.59190913
Country Meadows	20	20D5	Inlet Snout/Oil-Grit Separator	Fox Drive	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.30690377	-75.59250531
Country Meadows	20	20D6	Inlet Snout/Oil-Grit Separator	Peter Lane	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.30601687	-75.59328135
Country Meadows	20	20D7	Inlet Snout/Oil-Grit Separator	Peter Lane	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.30586516	-75.59292233
Country Meadows	20	20D8	Inlet Snout/Oil-Grit Separator	Peter Lane	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.30557589	-75.59224415
Country Meadows	20	20D9	Inlet Snout/Oil-Grit Separator	Peter Lane	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.30528241	-75.59178828
Country Meadows	20	20D10	Inlet Snout/Oil-Grit Separator	213 Qual Drive	BARNDT KEVIN M & CARR PAMELA L	213 Qual Drive, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30634926	-75.59071226
Country Meadows	20	20D11	Inlet Snout/Oil-Grit Separator	Dotterer Road	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.3065475	-75.59026179
Country Meadows	20	20D12	Inlet Snout/Oil-Grit Separator	Qual Drive	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	11/25/2019	TBD	Yes	Yes	40.30672959	-75.59022771

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Country Meadows	20	20E	Vegetated Swale	Fox Lane	107/109 Fox Lane	Fox Lane, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.30736	-75.592957
Country Meadows	20	20F	Protect/Convert/Establish Riparian Buffer	Quail Drive	Quail Drive	Qual Drive, Gilbertsville PA, 19525	Neighborhood HOA	110 Fox Lane, Gilbertsville PA, 19525	11/25/2019	TBD	Yes	Yes	40.307959	-75.593251
Hanover Woods	2	2A	Detention Basin	Dotterer Road	HANOVER WOODS PLANNED COMMUNITY ASSN	2655 PHILMONT AVE, HUNTINGDON VALLEY PA 19006	HANOVER WOODS PLANNED COMMUNITY ASSN	2655 PHILMONT AVE, HUNTINGDON VALLEY PA 19006	7/5/2006	PAG2004605185	Yes	Yes	40.30851566	-75.58769834
Hanover Woods	2	2A1	Detention Basin	Jackie Drive	HANOVER WOODS PLANNED COMMUNITY ASSN	2655 PHILMONT AVE, HUNTINGDON VALLEY PA 19006	HANOVER WOODS PLANNED COMMUNITY ASSN	2655 PHILMONT AVE, HUNTINGDON VALLEY PA 19006	7/5/2006	PAG2004605185	Yes	Yes	40.30847264	-75.58609735
Hanover Woods	2	2A2	Detention Basin	Marisa Lane	HANOVER WOODS PLANNED COMMUNITY ASSN	2655 PHILMONT AVE, HUNTINGDON VALLEY PA 19006	HANOVER WOODS PLANNED COMMUNITY ASSN	2655 PHILMONT AVE, HUNTINGDON VALLEY PA 19006	7/5/2006	PAG2004605185	Yes	Yes	40.3075052	-75.58616711
Hanover Woods	2	2B	Retentive Grading	Marisa Lane	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	7/5/2006	PAG2004605185	Yes	Yes	40.307555	-75.58478195
Hanover Woods	2	2B1	Retentive Grading	Garnet Drive	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	7/6/2006	PAG2004605186	Yes	Yes	40.307555	-75.584782
Hanover Woods	2	2C	Sump Inlet	Garnet Drive	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	7/5/2006	PAG2004605185	Yes	Yes	40.30849015	-75.58738528
Hanover Woods	2	2C1	Sump Inlet	Garnet Drive	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	7/5/2006	PAG2004605185	Yes	Yes	40.30878903	-75.58759061
Hanover Woods	2	2C2	Sump Inlet	Jackie Drive	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	7/5/2006	PAG2004605185	Yes	Yes	40.30903805	-75.58609277
Hanover Woods	2	2C3	Sump Inlet	Marisa Lane	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	7/5/2006	PAG2004605185	Yes	Yes	40.30848961	-75.58506837
Hanover Woods	2	2C4	Sump Inlet	Marisa Lane	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	7/5/2006	PAG2004605185	Yes	Yes	40.30741641	-75.58584387
Hanover Woods	2	2D	Down Spouts	100 Marisa Ln, Gilbertsville PA, 19525	Smith Derek A	100 Marisa Ln, Gilbertsville PA, 19525	Smith Derek A	100 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.31043608	-75.5857343
Hanover Woods	2	2D1	Down Spouts	102 Marisa Ln, Gilbertsville PA, 19525	Hashmi Shahneela S & Ansari Sana	102 Marisa Ln, Gilbertsville PA, 19525	Hashmi Shahneela S & Ansari Sana	102 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.31034118	-75.58558249
Hanover Woods	2	2D2	Down Spouts	104 Marisa Ln, Gilbertsville PA, 19525	Mordi Christopher I & Bridget N	104 Marisa Ln, Gilbertsville PA, 19525	Mordi Christopher I & Bridget N	104 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.31024228	-75.58543992
Hanover Woods	2	2D3	Down Spouts	106 Marisa Ln, Gilbertsville PA, 19525	Bullock Jean E	106 Marisa Ln, Gilbertsville PA, 19525	Bullock Jean E	106 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.31014834	-75.5852644
Hanover Woods	2	2D4	Down Spouts	108 Marisa Ln, Gilbertsville PA, 19525	Nawrocki Bryan & Ashley	108 Marisa Ln, Gilbertsville PA, 19525	Nawrocki Bryan & Ashley	108 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.31006191	-75.58511779
Hanover Woods	2	2D5	Down Spouts	110 Marisa Ln, Gilbertsville PA, 19525	Strizziere Ashley M & David P	110 Marisa Ln, Gilbertsville PA, 19525	Strizziere Ashley M & David P	110 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30997936	-75.58495466
Hanover Woods	2	2D6	Down Spouts	112 Marisa Ln, Gilbertsville PA, 19525	ZIMMERMAN DANIEL & KATHRYN	112 Marisa Ln, Gilbertsville PA, 19525	ZIMMERMAN DANIEL & KATHRYN	112 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30988575	-75.58479735
Hanover Woods	2	2D7	Down Spouts	114 Marisa Ln, Gilbertsville PA, 19525	Metcalfe Charles E & Perrie L	114 Marisa Ln, Gilbertsville PA, 19525	Metcalfe Charles E & Perrie L	114 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.3098018	-75.58463426
Hanover Woods	2	2D8	Down Spouts	116 Marisa Ln, Gilbertsville PA, 19525	Kercius Roselaure & Desmornes Adonis	116 Marisa Ln, Gilbertsville PA, 19525	Kercius Roselaure & Desmornes Adonis	116 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30968458	-75.58448135
Hanover Woods	2	2D9	Down Spouts	118 Marisa Ln, Gilbertsville PA, 19525	BALAGUER JOSEPH JUSTIN & MEGAN ELIZABETH	118 Marisa Ln, Gilbertsville PA, 19525	Johnson Shea S & Jennifer	118 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30954393	-75.58434376
Hanover Woods	2	2D10	Down Spouts	120 Marisa Ln, Gilbertsville PA, 19525	Valbuena Alejandro & Zuluaga Sandra	120 Marisa Ln, Gilbertsville PA, 19525	BALAGUER JOSEPH JUSTIN & MEGAN ELIZABETH	120 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30938061	-75.58426155
Hanover Woods	2	2D11	Down Spouts	122 Marisa Ln, Gilbertsville PA, 19525	Weglos Michael Thomas & Shannon R	122 Marisa Ln, Gilbertsville PA, 19525	Weglos Michael Thomas & Shannon R	122 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30920666	-75.58425489

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Hanover Woods	2	2D12	Down Spouts	126 Marisa Ln, Gilbertsville PA, 19525	Moll David C & Deanne L	126 Marisa Ln, Gilbertsville PA, 19525	Moll David C & Deanne L	126 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.3085451	-75.58462533
Hanover Woods	2	2D13	Down Spouts	128 Marisa Ln, Gilbertsville PA, 19525	Ingrassia Kristin M & Michael	128 Marisa Ln, Gilbertsville PA, 19525	Ingrassia Kristin M & Michael	128 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30842012	-75.58472771
Hanover Woods	2	2D14	Down Spouts	130 Marisa Ln, Gilbertsville PA, 19525	Gilmartin Daurne & Robert	130 Marisa Ln, Gilbertsville PA, 19525	Gilmartin Daurne & Robert	130 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30829652	-75.58483003
Hanover Woods	2	2D15	Down Spouts	132 Marisa Ln, Gilbertsville PA, 19525	Bork Frank W & Jenkins Daniel J	132 Marisa Ln, Gilbertsville PA, 19525	Bork Frank W & Jenkins Daniel J	132 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30816603	-75.58493623
Hanover Woods	2	2D16	Down Spouts	134 Marisa Ln, Gilbertsville PA, 19525	Berry Christina Marie & George Edward Iv	134 Marisa Ln, Gilbertsville PA, 19525	Berry Christina Marie & George Edward Iv	134 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30803561	-75.58504606
Hanover Woods	2	2D17	Down Spouts	136 Marisa Ln, Gilbertsville PA, 19525	Long Jason M & Soto Dawn M	136 Marisa Ln, Gilbertsville PA, 19525	Long Jason M & Soto Dawn M	136 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.3079185	-75.58514607
Hanover Woods	2	2D18	Down Spouts	138 Marisa Ln, Gilbertsville PA, 19525	Taylor Michael & Julia	138 Marisa Ln, Gilbertsville PA, 19525	Taylor Michael & Julia	138 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30779711	-75.58524089
Hanover Woods	2	2D19	Down Spouts	140 Marisa Ln, Gilbertsville PA, 19525	Salansky Joseph	140 Marisa Ln, Gilbertsville PA, 19525	Salansky Joseph	140 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30763083	-75.5853698
Hanover Woods	2	2D20	Down Spouts	142 Marisa Ln, Gilbertsville PA, 19525	FRAUSTIN OLIVIA & COLLINS SEAN	142 Marisa Ln, Gilbertsville PA, 19525	FRAUSTIN OLIVIA & COLLINS SEAN	142 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30750181	-75.58548585
Hanover Woods	2	2D21	Down Spouts	144 Marisa Ln, Gilbertsville PA, 19525	BATES CHARLES S III & KATHARINE E	144 Marisa Ln, Gilbertsville PA, 19525	BATES CHARLES S III & KATHARINE E	144 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30738666	-75.58558048
Hanover Woods	2	2D22	Down Spouts	146 Marisa Ln, Gilbertsville PA, 19525	Doyle Ashley M & Scott	146 Marisa Ln, Gilbertsville PA, 19525	Doyle Ashley M & Scott	146 Marisa Ln, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30723408	-75.58572526
Hanover Woods	2	2D23	Down Spouts	157 Garnet Drive, Gilbertsville PA, 19525	Sobeck Michael & Deborah Kaye	157 Garnet Drive, Gilbertsville PA, 19525	Sobeck Michael & Deborah Kaye	157 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30677866	-75.58585643
Hanover Woods	2	2D24	Down Spouts	155 Garnet Drive, Gilbertsville PA, 19525	KASIARZ CRAIG	155 Garnet Drive, Gilbertsville PA, 19525	KASIARZ CRAIG	155 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30686999	-75.58601439
Hanover Woods	2	2D25	Down Spouts	153 Garnet Drive, Gilbertsville PA, 19525	Bartoszek Michael J & Lisa Marie	153 Garnet Drive, Gilbertsville PA, 19525	Bartoszek Michael J & Lisa Marie	153 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30695609	-75.5861554
Hanover Woods	2	2D26	Down Spouts	151 Garnet Drive, Gilbertsville PA, 19525	Bates Jerrold	151 Garnet Drive, Gilbertsville PA, 19525	Bates Jerrold	151 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30704557	-75.58631648
Hanover Woods	2	2D27	Down Spouts	149 Garnet Drive, Gilbertsville PA, 19525	DAWSON TRAVIS L & FRIEL JESSICA J	149 Garnet Drive, Gilbertsville PA, 19525	DAWSON TRAVIS L & FRIEL JESSICA J	149 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30716276	-75.58649117
Hanover Woods	2	2D28	Down Spouts	147 Garnet Drive, Gilbertsville PA, 19525	Scotton Lorri A	147 Garnet Drive, Gilbertsville PA, 19525	Scotton Lorri A	147 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30749078	-75.58704967
Hanover Woods	2	2D29	Down Spouts	145 Garnet Drive, Gilbertsville PA, 19525	Lawrence Jeannine N & Corbett W	145 Garnet Drive, Gilbertsville PA, 19525	Lawrence Jeannine N & Corbett W	145 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30758906	-75.58717746
Hanover Woods	2	2D30	Down Spouts	143 Garnet Drive, Gilbertsville PA, 19525	Desimone Kimberly & Richard	143 Garnet Drive, Gilbertsville PA, 19525	Desimone Kimberly & Richard	143 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30767719	-75.58734542
Hanover Woods	2	2D31	Down Spouts	141 Garnet Drive, Gilbertsville PA, 19525	Crvalho Thomas J & Shannon J	141 Garnet Drive, Gilbertsville PA, 19525	Crvalho Thomas J & Shannon J	141 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30780834	-75.58748354
Hanover Woods	2	2D32	Down Spouts	139 Garnet Drive, Gilbertsville PA, 19525	Palmiero John Francis Jr & Celia M	139 Garnet Drive, Gilbertsville PA, 19525	Palmiero John Francis Jr & Celia M	139 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30798889	-75.58758307
Hanover Woods	2	2D33	Down Spouts	101 Marisa Lane, Gilbertsville PA, 19525	Dicicco Ernesto A & Guido Sr & Guido Jr	101 Marisa Lane, Gilbertsville PA, 19525	Dicicco Ernesto A & Guido Sr & Guido Jr	101 Marisa Lane, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.31009407	-75.58609992
Hanover Woods	2	2D34	Down Spouts	103 Marisa Lane, Gilbertsville PA, 19525	Cameron Sean & Idalia Marie	103 Marisa Lane, Gilbertsville PA, 19525	Cameron Sean & Idalia Marie	103 Marisa Lane, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30998851	-75.58597064
Hanover Woods	2	2D35	Down Spouts	105 Marisa Lane, Gilbertsville PA, 19525	Said Jirau Irizarry & Zubillaga Maria Teresa	105 Marisa Lane, Gilbertsville PA, 19525	Said Jirau Irizarry & Zubillaga Maria Teresa	105 Marisa Lane, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30990738	-75.58579084
Hanover Woods	2	2D36	Down Spouts	107 Marisa Lane, Gilbertsville PA, 19525	HELM MICHELLE L	107 Marisa Lane, Gilbertsville PA, 19525	HELM MICHELLE L	107 Marisa Lane, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.3098085	-75.58564212
Hanover Woods	2	2D37	Down Spouts	109 Marisa Lane, Gilbertsville PA, 19525	Cruz Darryl A	109 Marisa Lane, Gilbertsville PA, 19525	Cruz Darryl A	109 Marisa Lane, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30973031	-75.58548014
Hanover Woods	2	2D38	Down Spouts	111 Marisa Lane, Gilbertsville PA, 19525	Hartwell Shamika R & Benjamin Dwayne	111 Marisa Lane, Gilbertsville PA, 19525	Hartwell Shamika R & Benjamin Dwayne	111 Marisa Lane, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30963301	-75.58532805

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Hanover Woods	2	2D39	Down Spouts	113 Marisa Lane, Gilbertsville PA, 19525	Stenger Kelli Sue & Ruiz Thomas Michael	113 Marisa Lane, Gilbertsville PA, 19525	Stenger Kelli Sue & Ruiz Thomas Michael	113 Marisa Lane, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30954495	-75.58518097
Hanover Woods	2	2D40	Down Spouts	115 Marisa Lane, Gilbertsville PA, 19525	Maynes John C Jr & Patricia Ann & Fischer Heather M	115 Marisa Lane, Gilbertsville PA, 19525	Maynes John C Jr & Patricia Ann & Fischer Heather M	115 Marisa Lane, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.3094556	-75.58501935
Hanover Woods	2	2D41	Down Spouts	119 Marisa Lane, Gilbertsville PA, 19525	Thompson Rashanna C	119 Marisa Lane, Gilbertsville PA, 19525	Thompson Rashanna C	119 Marisa Lane, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30934306	-75.58489071
Hanover Woods	2	2D42	Down Spouts	125 Marisa Lane, Gilbertsville PA, 19525	Smith Richard E & Kimberly A & Atwood Maria T	125 Marisa Lane, Gilbertsville PA, 19525	Smith Richard E & Kimberly A & Atwood Maria T	125 Marisa Lane, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30916436	-75.5848384
Hanover Woods	2	2D43	Down Spouts	102 Jackie Drive, Gilbertsville PA, 19525	Rivera Hilda R Feliciano & Torres Arnaldo Lopez	102 Jackie Drive, Gilbertsville PA, 19525	Rivera Hilda R Feliciano & Torres Arnaldo Lopez	102 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30924583	-75.58537469
Hanover Woods	2	2D44	Down Spouts	104 Jackie Drive, Gilbertsville PA, 19525	Alcidonis Beatrice & Rony	104 Jackie Drive, Gilbertsville PA, 19525	Alcidonis Beatrice & Rony	104 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30925262	-75.58556723
Hanover Woods	2	2D45	Down Spouts	106 Jackie Drive, Gilbertsville PA, 19525	HPABORROWER 2016-2 ML LLC	106 Jackie Drive, Gilbertsville PA, 19525	HPABORROWER 2016-2 ML LLC	120 S RIVERSIDE PLAZA STE 2000, CHICAGO IL 60606	7/5/2006	PAG2004605185	No	Yes	40.30929286	-75.58576699
Hanover Woods	2	2D46	Down Spouts	108 Jackie Drive, Gilbertsville PA, 19525	Clarke Bryan J & Christina	108 Jackie Drive, Gilbertsville PA, 19525	Clarke Bryan J & Christina	108 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30927586	-75.5859603
Hanover Woods	2	2D47	Down Spouts	110 Jackie Drive, Gilbertsville PA, 19525	Malinowski Nika & Owen Michael	110 Jackie Drive, Gilbertsville PA, 19525	Malinowski Nika & Owen Michael	110 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30935719	-75.58623543
Hanover Woods	2	2D48	Down Spouts	112 Jackie Drive, Gilbertsville PA, 19525	Henderson Joseph M & Roseanne Venesia	112 Jackie Drive, Gilbertsville PA, 19525	Henderson Joseph M & Roseanne Venesia	112 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30939635	-75.58646217
Hanover Woods	2	2D49	Down Spouts	114 Jackie Drive, Gilbertsville PA, 19525	Dipiano Rachel & Christopher	114 Jackie Drive, Gilbertsville PA, 19525	Dipiano Rachel & Christopher	114 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30932106	-75.58667807
Hanover Woods	2	2D50	Down Spouts	117 Jackie Drive, Gilbertsville PA, 19525	Webster Daniel Lee & Mary Kate	117 Jackie Drive, Gilbertsville PA, 19525	Webster Daniel Lee & Mary Kate	117 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30906251	-75.58676718
Hanover Woods	2	2D51	Down Spouts	115 Jackie Drive, Gilbertsville PA, 19525	Chiarlanza Robert John & Heather	115 Jackie Drive, Gilbertsville PA, 19525	Chiarlanza Robert John & Heather	115 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30891285	-75.58667231
Hanover Woods	2	2D52	Down Spouts	113 Jackie Drive, Gilbertsville PA, 19525	Newkirk Ashay	113 Jackie Drive, Gilbertsville PA, 19525	Newkirk Ashay	113 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30885344	-75.58642881
Hanover Woods	2	2D53	Down Spouts	111 Jackie Drive, Gilbertsville PA, 19525	Atkinson Joseph R & Denise M	111 Jackie Drive, Gilbertsville PA, 19525	Atkinson Joseph R & Denise M	111 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30884659	-75.58622607
Hanover Woods	2	2D54	Down Spouts	109 Jackie Drive, Gilbertsville PA, 19525	Cerva John & Jaclyn	109 Jackie Drive, Gilbertsville PA, 19525	Cerva John & Jaclyn	109 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30884213	-75.58593439
Hanover Woods	2	2D55	Down Spouts	107 Jackie Drive, Gilbertsville PA, 19525	Frosch Andrew J & Lisa M	107 Jackie Drive, Gilbertsville PA, 19525	Frosch Andrew J & Lisa M	107 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30881731	-75.58574814
Hanover Woods	2	2D56	Down Spouts	105 Jackie Drive, Gilbertsville PA, 19525	Tarlecki Michael A	105 Jackie Drive, Gilbertsville PA, 19525	Tarlecki Michael A	105 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30881054	-75.58554939
Hanover Woods	2	2D57	Down Spouts	103 Jackie Drive, Gilbertsville PA, 19525	Grill Matthew & Carolyn	103 Jackie Drive, Gilbertsville PA, 19525	Grill Matthew & Carolyn	103 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30879052	-75.5853484
Hanover Woods	2	2D58	Down Spouts	101 Jackie Drive, Gilbertsville PA, 19525	Lapp Lewis R Iii & Carol A	101 Jackie Drive, Gilbertsville PA, 19525	Lapp Lewis R Iii & Carol A	101 Jackie Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30873036	-75.58512939
Hanover Woods	2	2D59	Down Spouts	146 Garnet Drive, Gilbertsville PA, 19525	Reid Robert A & Janet D	146 Garnet Drive, Gilbertsville PA, 19525	Reid Robert A & Janet D	146 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30784762	-75.58672088
Hanover Woods	2	2D60	Down Spouts	144 Garnet Drive, Gilbertsville PA, 19525	Mckeeon Kellee G & Joseph	144 Garnet Drive, Gilbertsville PA, 19525	Mckeeon Kellee G & Joseph	144 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30794283	-75.58686876
Hanover Woods	2	2D61	Down Spouts	136 Garnet Drive, Gilbertsville PA, 19525	Blount Sabrina & James & Greenwood Connie L	136 Garnet Drive, Gilbertsville PA, 19525	Blount Sabrina & James & Greenwood Connie L	136 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30851106	-75.58703832
Hanover Woods	2	2D62	Down Spouts	134 Garnet Drive, Gilbertsville PA, 19525	Barut Dawn	134 Garnet Drive, Gilbertsville PA, 19525	Barut Dawn	134 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30868619	-75.58707588
Hanover Woods	2	2D63	Down Spouts	132 Garnet Drive, Gilbertsville PA, 19525	Callaway Justin B & Kathryn M	132 Garnet Drive, Gilbertsville PA, 19525	Callaway Justin B & Kathryn M	132 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30884631	-75.58717339

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Hanover Woods	2	2D64	Down Spouts	130 Garnet Drive, Gilbertsville PA, 19525	Harris Bruce	130 Garnet Drive, Gilbertsville PA, 19525	Harris Bruce	130 Garnet Drive, Gilbertsville PA, 19525	7/5/2006	PAG2004605185	No	Yes	40.30897166	-75.5873095
Hanover Woods	2	2E	Bio-Infiltration Area	Layfield Park	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	7/6/2006	PAG2004605186	Yes	Yes	40.307555	-75.584782
Orff	3	3	Infiltration Basin	961 Layfield Drive, Perkiomenville PA 18074	David & Susan Orff		David & Susan Orff	195 Paper Mill Road, Barto PA 19504	1/24/2007	PAG2004606121	Yes	Yes	40.3594435	-75.52796221
Falcon Crest (Shannon Rose Estates)	4	4	Detention Basin	111 Lawrence Drive, Gilbertsville PA	William & Susan Grill		William & Susan Grill	111 Lawrence Drive, Gilbertsville PA	7/3/2007	PAG2004606157	Yes	Yes	40.27843556	-75.57053752
Fairbrook	5	5A	Detention Basin	107 Fairbrook Drive, Gilbertsville PA	PALMERIO JOSEPH M & JENNIFER A	107 Fairbrook Drive, Gilbertsville PA	Rouse/Chamberlin Homes (NEED HOA INFO)	500 Exton Commons, Exton PA 19341	2/4/2011	PAG02004605117R	Yes	Yes	40.29377982	-75.58069343
Fairbrook	5	5B	Vegetated Swale	107-119 Fairbrook Drive, Gilbertsville PA	Multiple		Rouse/Chamberlin Homes (NEED HOA INFO)	500 Exton Commons, Exton PA 19341	2/4/2011	PAG02004605117R	Yes	Yes	40.29303576	-75.58051822
Hanover Greene	6	6	Detention Basin	2292 Sterling Drive, Gilbertsville PA, 19525	MUSSER MATTHEW S	2292 Sterling Drive, Gilbertsville PA, 19525	MUSSER MATTHEW S	2292 Sterling Drive, Gilbertsville PA, 19525	TBD	PAR10T919	Yes	Yes	40.28690563	-75.57592772
Highlands at Hanover II	8	8A	Seepage Bed	2512 Tracy Ln, Gilbertsville PA 19525	King Edward & Courtney		King Edward & Courtney	2512 Tracy Ln, Gilbertsville PA 19525	TBD	TBD	Yes	Yes	40.27555849	-75.56324697
Highlands at Hanover II	8	8A1	Seepage Bed	2514 Tracy Ln, Gilbertsville PA 19525	Wieber Francis M & Rebecca S		Wieber Francis M & Rebecca S	2514 Tracy Ln, Gilbertsville PA 19525	TBD	TBD	Yes	Yes	40.27520072	-75.56303104
Highlands at Hanover II	8	8A2	Seepage Bed	2516 Tracy Ln, Gilbertsville PA 19525	Cless Craig M & Catherine B		Cless Craig M & Catherine B	2516 Tracy Ln, Gilbertsville PA 19525	TBD	TBD	Yes	Yes	40.2750823	-75.56288171
McSurdy Office Center	9	9A	Wet (Detention) Basin	1831 Swamp Pike, Gilbertsville PA 19525	McSurdy LP		McSurdy LP	128 MENNONITE RD, COLLEGEVILLE, PA 19426	TBD	PAG2004606064	Yes	Yes	40.30418218	-75.58871005
McSurdy Office Center	9	9B	Snout	1831 Swamp Pike, Gilbertsville PA 19525	McSurdy LP		McSurdy LP	128 MENNONITE RD, COLLEGEVILLE, PA 19426	TBD	PAG2004606064	Yes	Yes	40.3038281	-75.58913457
McSurdy Office Center	9	9B1	Snout	1831 Swamp Pike, Gilbertsville PA 19525	McSurdy LP		McSurdy LP	128 MENNONITE RD, COLLEGEVILLE, PA 19426	TBD	PAG2004606064	Yes	Yes	40.30399249	-75.58924755
Minister Creek Farms	10	10A	Seepage Bed	107 Holbrook Ln, Gilbertsville PA 19525	HALSEY KRISTOPHER T & BEVERLY JEAN	107 Holbrook Ln, Gilbertsville PA 19525	HALSEY KRISTOPHER T & BEVERLY JEAN	107 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29142756	-75.56022879
Minister Creek Farms	10	10A1	Seepage Bed	109 Holbrook Ln, Gilbertsville PA 19525	Saunders Rena	109 Holbrook Ln, Gilbertsville PA 19525	Saunders Rena	109 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29152259	-75.56038365
Minister Creek Farms	10	10A2	Seepage Bed	111 Holbrook Ln, Gilbertsville PA 19525	Testa Jonathan & Onder Ashley	111 Holbrook Ln, Gilbertsville PA 19525	Testa Jonathan & Onder Ashley	111 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29161493	-75.5605422
Minister Creek Farms	10	10A3	Seepage Bed	113 Holbrook Ln, Gilbertsville PA 19525	Cordrey T Daniel & Bucher-Cordrey Heather	113 Holbrook Ln, Gilbertsville PA 19525	Cordrey T Daniel & Bucher-Cordrey Heather	113 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29171003	-75.56070065
Minister Creek Farms	10	10A4	Seepage Bed	115 Holbrook Ln, Gilbertsville PA 19525	Messmer Christine M	115 Holbrook Ln, Gilbertsville PA 19525	Messmer Christine M	115 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29181196	-75.56085709
Minister Creek Farms	10	10A5	Seepage Bed	117 Holbrook Ln, Gilbertsville PA 19525	Klee Laura Anne	117 Holbrook Ln, Gilbertsville PA 19525	Klee Laura Anne	117 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29192332	-75.56107605
Minister Creek Farms	10	10A6	Seepage Bed	205 Clarkdale Ln, Gilbertsville PA 19525	Mauger Alana J & Reinke Chris A	205 Clarkdale Ln, Gilbertsville PA 19525	Mauger Alana J & Reinke Chris A	205 Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29168057	-75.56219435
Minister Creek Farms	10	10A7	Seepage Bed	219 Clarkdale Ln, Gilbertsville PA 19525	Schoedler Ronald W & Nicole K	219 Clarkdale Ln, Gilbertsville PA 19525	Schoedler Ronald W & Nicole K	219 Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29184063	-75.56226361
Minister Creek Farms	10	10A8	Seepage Bed	221 Clarkdale Ln, Gilbertsville PA 19525	Gargano Anthony Jr	221 Clarkdale Ln, Gilbertsville PA 19525	Gargano Anthony Jr	221 Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29199494	-75.56219084
Minister Creek Farms	10	10A9	Seepage Bed	223 Clarkdale Ln, Gilbertsville PA 19525	Smith Gregory J & Julia L	223 Clarkdale Ln, Gilbertsville PA 19525	Smith Gregory J & Julia L	223 Clarkdale Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29215703	-75.56211481
Minister Creek Farms	10	10A10	Seepage Bed	227 Holbrook Ln, Gilbertsville PA 19525	Ellis Brian C & Vicki L	227 Holbrook Ln, Gilbertsville PA 19525	Ellis Brian C & Vicki L	227 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29137077	-75.56313551
Minister Creek Farms	10	10A11	Seepage Bed	222 Holbrook Ln, Gilbertsville PA 19525	Cornelius Mark & Lara	222 Holbrook Ln, Gilbertsville PA 19525	Cornelius Mark & Lara	222 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29060278	-75.56349764
Minister Creek Farms	10	10A12	Seepage Bed	220 Holbrook Ln, Gilbertsville PA 19525	PHILLIPS JOSHUA & DANIELLE	220 Holbrook Ln, Gilbertsville PA 19525	PHILLIPS JOSHUA & DANIELLE	220 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29054207	-75.56338786

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Minister Creek Farms	10	10A13	Seepage Bed	218 Holbrook Ln, Gilbertsville PA 19525	Keenan Francis & Elva J	218 Holbrook Ln, Gilbertsville PA 19525	Keenan Francis & Elva J	218 Holbrook Ln, Gilbertsville PA 19525	9/21/2006	PAG2004606077	Yes	Yes	40.29047912	-75.56329974
Minister Creek Farms	10	10B	Infiltration Bed	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0285	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0285	9/21/2006	PAG2004606077	Yes	Yes	40.29222331	-75.56381541
Minister Creek Farms	10	10B1	Infiltration Bed	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0286	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0286	9/21/2006	PAG2004606077	Yes	Yes	40.29114726	-75.56411507
Minister Creek Farms	10	10C	Detention Basin	Holbrook Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0287	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0287	9/21/2006	PAG2004606077	Yes	Yes	40.2920776	-75.56168216
Minister Creek Farms	10	10D	Retention Basin	Holbrook Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0288	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0288	9/21/2006	PAG2004606077	Yes	Yes	40.2920873	-75.56105321
Minister Creek Farms	10	10E	Natural Features - Stream Riparian Corridor	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0289	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0289	9/21/2006	PAG2004606077	Yes	Yes	40.29323518	-75.56235338
Minister Creek Farms	10	10E1	Natural Features - Existing Woodlands	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0290	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0290	9/21/2006	PAG2004606077	Yes	Yes	40.29242954	-75.56193757
Minister Creek Farms	10	10E2	Natural Features - Vegetative Stabilization	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0291	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0291	9/21/2006	PAG2004606077	Yes	Yes	40.29238927	-75.56157874
Minister Creek Farms	10	10E3	Natural Features - Steep Slopes	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0292	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0292	9/21/2006	PAG2004606077	Yes	Yes	40.29248722	-75.56122627
Minister Creek Farms	10	10E4	Natural Features - Steep Slopes	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0293	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0293	9/21/2006	PAG2004606077	Yes	Yes	40.29244006	-75.56064154
Minister Creek Farms	10	10E5	Natural Features - Riparian Stream Corridor	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0294	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0294	9/21/2006	PAG2004606077	Yes	Yes	40.29252059	-75.56013508
Minister Creek Farms	10	10E6	Natural Features - Vegetative Stabilization	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0295	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0295	9/21/2006	PAG2004606077	Yes	Yes	40.29342133	-75.56047791
Minister Creek Farms	10	10E7	Natural Features - Existing Woodlands	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0296	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0296	9/21/2006	PAG2004606077	Yes	Yes	40.29227774	-75.56026237
Minister Creek Farms	10	10E8	Natural Features - Stream Riparian Corridor	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0297	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0297	9/21/2006	PAG2004606077	Yes	Yes	40.29194692	-75.56353696

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Minister Creek Farms	10	10E9	Natural Features - Existing Woodlands	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0298	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0298	9/21/2006	PAG2004606077	Yes	Yes	40.29141842	-75.56459925
Minister Creek Farms	10	10E10	Natural Features - Steep Slopes	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0299	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0299	9/21/2006	PAG2004606077	Yes	Yes	40.29095724	-75.56404764
Minister Creek Farms	10	10E11	Natural Features - Stream Riparian Corridor	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0300	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0300	9/21/2006	PAG2004606077	Yes	Yes	40.29088472	-75.56378879
Minister Creek Farms	10	10F	Vegetative Grass Swale	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0301	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0301	9/21/2006	PAG2004606077	Yes	Yes	40.29045927	-75.56324142
Minister Creek Farms	10	10F1	Vegetative Grass Swale	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0302	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0302	9/21/2006	PAG2004606077	Yes	Yes	40.29046373	-75.56159134
Minister Creek Farms	10	10G	Landscape Planting	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0303	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0303	9/21/2006	PAG2004606077	Yes	Yes	40.29013961	-75.56244865
Minister Creek Farms	10	10G1	Landscape Planting	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0304	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0304	9/21/2006	PAG2004606077	Yes	Yes	40.29017077	-75.56127403
Minister Creek Farms	10	10G2	Landscape Planting	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0305	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0305	9/21/2006	PAG2004606077	Yes	Yes	40.29079218	-75.56005131
Minister Creek Farms	10	10H	Grassy Filter Strip	Clarkdale Ln, Gilbertsville PA 19525	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	9/21/2006	PAG2004606077	Yes	Yes	40.29100156	-75.5609908
Pryor Tract	11	11A	Detention Basin	2303 Wooded Creek Cir	Albright Jason P & Stephanie A		Albright Jason P & Stephanie A	2303 Wooded Creek Cir	TBD	TBD	Yes	Yes	40.33610341	-75.53370217
Pryor Tract	11	11B	Swale	2301 Wooded Creek Cir	Sillitti Frank & Schuck Renee A		Sillitti Frank & Schuck Renee A	2301 Wooded Creek Cir	TBD	TBD	Yes	Yes	40.33661246	-75.53408402
Lawrence	13	13A	Recharge Pit	2408 New Hanover Square Rd, Gilbertsville PA, 19525	Zielinski Carla J & Kenneth J Jr	2408 New Hanover Square Rd, Gilbertsville PA, 19525	Zielinski Carla J & Kenneth J Jr	2408 New Hanover Square Rd, Gilbertsville PA, 19525	4/27/2004	PAG2004604040	Yes	Yes	40.27516046	-75.57437413
Lawrence	13	13A1	Recharge Pit	2404 New Hanover Square Rd, Gilbertsville PA, 19525	Austin Lisa & Jamie L	2404 New Hanover Square Rd, Gilbertsville PA, 19525	Austin Lisa & Jamie L	2404 New Hanover Square Rd, Gilbertsville PA, 19525	4/27/2004	PAG2004604040	Yes	Yes	40.2754518	-75.57494533
Lawrence	13	13B	Roof Drain Cleanout	2404 New Hanover Square Rd, Gilbertsville PA, 19525	Austin Lisa & Jamie L	2404 New Hanover Square Rd, Gilbertsville PA, 19525	Austin Lisa & Jamie L	2404 New Hanover Square Rd, Gilbertsville PA, 19525	4/27/2004	PAG2004604040	Yes	Yes	40.27558346	-75.57508051

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Lawrence	13	13B1	Roof Drain Cleanout	2408 New Hanover Square Rd, Gilbertsville PA, 19525	Zielinski Carla J & Kenneth J Jr	2408 New Hanover Square Rd, Gilbertsville PA, 19525	Zielinski Carla J & Kenneth J Jr	2408 New Hanover Square Rd, Gilbertsville PA, 19525	4/27/2004	PAG2004604040	Yes	Yes	40.27531888	-75.57414311
Lawrence	13	13B2	Roof Drain Cleanout	2400 New Hanover Square Rd, Gilbertsville PA, 19525	Deloach Ian C & Tammy L	2400 New Hanover Square Rd, Gilbertsville PA, 19525	Deloach Ian C & Tammy L	2400 New Hanover Square Rd, Gilbertsville PA, 19525	4/27/2004	PAG2004604040	Yes	Yes	40.27526827	-75.57531452
Rosenberry Ridge	15	15A	Infiltration Basin	2281 Sterling Drive, Gilbertsville, PA 19525	CARVAJAL JESUS R ROSADO & ROSADO LEYMARY	2281 Sterling Drive, Gilbertsville, PA 19525	CARVAJAL JESUS R ROSADO & ROSADO LEYMARY	2281 Sterling Drive, Gilbertsville, PA 19525	1/23/2008	PAG2004606154	Yes	Yes	40.2851516	-75.57605019
Rosenberry Ridge	15	15B	Vegetated Swale	2295-2285 Sterling Drive, Gilbertsville, PA 19525	DAVIS GREGORY P & SPADONE JULIANE/REED BRANDON & ARGOE KELLY/CHAPMAN DANIEL J & BALLAT DANA/MCCARTHY TIMOTHY E & ERIN M	2295/2293/2289/2285 Sterling Drive, Gilbertsville, PA 19525	DAVIS GREGORY P & SPADONE JULIANE/REED BRANDON & ARGOE KELLY/CHAPMAN DANIEL J & BALLAT DANA/MCCARTHY TIMOTHY E & ERIN M	2295/2293/2289/2285 Sterling Drive, Gilbertsville, PA 19525	1/23/2008	PAG2004606154	Yes	Yes	40.28529527	-75.57675292
Sterling Tract	16	16A	Detention Basin	2306 Sterling Dr, Gilbertsville, PA 19525	Reffner Brent & Christina L	2306 Sterling Dr, Gilbertsville, PA 19525	Reffner Brent & Christina L	2306 Sterling Dr, Gilbertsville, PA 19525	TBD	TBD	Yes	Yes	40.28452655	-75.57675192
Valley Brook II	17	17A	Seepage Bed	303 Renninger Rd, Gilbertsville, PA 19525	Schwarz Brian J & Felicia M	303 Renninger Rd, Gilbertsville, PA 19525	Schwarz Brian J & Felicia M	303 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31366153	-75.53708024
Valley Brook II	17	17A1	Seepage Bed	307 Renninger Rd, Gilbertsville, PA 19525	BORDER PAUL L & REBECCA GRACE	307 Renninger Rd, Gilbertsville, PA 19525	Davenport Wynn E & Marie E	307 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31402831	-75.53672003
Valley Brook II	17	17A2	Seepage Bed	313 Renninger Rd, Gilbertsville, PA 19525	Benedict Craig & Maria	313 Renninger Rd, Gilbertsville, PA 19525	Benedict Craig & Maria	313 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31443322	-75.53630393
Valley Brook II	17	17A3	Seepage Bed	355 Renninger Rd, Gilbertsville, PA 19525	Stein Jeffrey A Jr & Loree L	355 Renninger Rd, Gilbertsville, PA 19525	Stein Jeffrey A Jr & Loree L	355 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31635284	-75.53431389
Valley Brook II	17	17A4	Seepage Bed	363 Renninger Rd, Gilbertsville, PA 19525	Young Thomas A & Jamie M	363 Renninger Rd, Gilbertsville, PA 19525	Young Thomas A & Jamie M	363 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31751795	-75.53544925
Valley Brook II	17	17A5	Seepage Bed	361 Renninger Rd, Gilbertsville, PA 19525	Brown Heath A & Conrad Debra J	361 Renninger Rd, Gilbertsville, PA 19525	Brown Heath A & Conrad Debra J	361 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31674791	-75.5338845
Valley Brook II	17	17B	Detention Basin	355 Renninger Rd, Gilbertsville, PA 19525	Stein Jeffrey A Jr & Loree L	355 Renninger Rd, Gilbertsville, PA 19525	Stein Jeffrey A Jr & Loree L	355 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31692449	-75.53495127
Valley Brook II	17	17B1	Detention Basin	313 Renninger Rd, Gilbertsville, PA 19525	Benedict Craig & Maria	313 Renninger Rd, Gilbertsville, PA 19525	Benedict Craig & Maria	313 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.3147598	-75.53683583
Valley Brook II	17	17C	Snout	303 Renninger Rd, Gilbertsville, PA 19525	Schwarz Brian J & Felicia M		Schwarz Brian J & Felicia M	303 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31356449	-75.537188
Valley Brook II	17	17C1	Snout	307 Renninger Rd, Gilbertsville, PA 19525	BORDER PAUL L & REBECCA GRACE		Davenport Wynn E & Marie E	307 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31394732	-75.53680296

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Site	BMP Site No.	BMP No.	BMP Type	BMP Address	Property Owner	Property Owner Address	Responsible Party	Responsible Party Address	Date Installed	NPDES Permit No.	Active BMP	Constructed	Latitude	Longitude
Valley Brook II	17	17C2	Snout	313 Renninger Rd, Gilbertsville, PA 19525	Benedict Craig & Maria		Benedict Craig & Maria	313 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31434623	-75.53638539
Valley Brook II	17	17C3	Snout	355 Renninger Rd, Gilbertsville, PA 19525	Stein Jeffrey A Jr & Loree L		Stein Jeffrey A Jr & Loree L	355 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31647551	-75.53421611
Valley Brook II	17	17C4	Snout	363 Renninger Rd, Gilbertsville, PA 19525	Young Thomas A & Jamie M		Young Thomas A & Jamie M	363 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31739332	-75.53536758
Valley Brook II	17	17C5	Snout	361 Renninger Rd, Gilbertsville, PA 19525	Brown Heath A & Conrad Debra J		Brown Heath A & Conrad Debra J	361 Renninger Rd, Gilbertsville, PA 19525	TBD	PAG2004604200	Yes	Yes	40.31685304	-75.53377774
Halteman Office Center	21	21A	Bio-Retention Area	1808 Swamp Pike	HALTEMAN OFFICE CENTER CONDOMINIUM ASSOC	19825 N COVE RD UNIT 218, CORNELIUS NC 28031	HALTEMAN OFFICE CENTER CONDOMINIUM ASSOC	19825 N COVE RD UNIT 218, CORNELIUS NC 28031	5/21/2007	TBD	Yes	Yes	40.30256679	-75.59364287
Halteman Office Center	21	21B	Infiltration Basin	1808 Swamp Pike	HALTEMAN OFFICE CENTER CONDOMINIUM ASSOC	19825 N COVE RD UNIT 218, CORNELIUS NC 28031	HALTEMAN OFFICE CENTER CONDOMINIUM ASSOC	19825 N COVE RD UNIT 218, CORNELIUS NC 28031	5/21/2007	TBD	Yes	Yes	40.30293336	-75.59279609
Halteman Office Center	21	21C	Inlet Snout	1808 Swamp Pike	HALTEMAN OFFICE CENTER CONDOMINIUM ASSOC	19825 N COVE RD UNIT 218, CORNELIUS NC 28031	HALTEMAN OFFICE CENTER CONDOMINIUM ASSOC	19825 N COVE RD UNIT 218, CORNELIUS NC 28031	5/21/2007	TBD	Yes	Yes	40.30280809	-75.59288995
Boyertown Middle School East	22	22	Infiltration Trench	2020 Big Rd, Gilbertsville, PA 19525	Boyertown Area School District		Boyertown Area School District	2020 Big Rd, Gilbertsville, PA 19525	6/21/2004	TBD	Yes	Yes	40.31420061	-75.57776165
Acorn Hills	23	23A	Vegetated Filter Strip	Samantha Way	Camco Management Company		Acorn Hills HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	7/30/2014	TBD	Yes	Yes	40.28458668	-75.54910452
Acorn Hills	23	23B1	Disconnection of Roof	3024 Samantha Way	CWIKLA JOHN F & MICHELLE L	3024 SAMANTHA WAY, GILBERTSVILLE PA 19525	CWIKLA JOHN F & MICHELLE L	3024 SAMANTHA WAY, GILBERTSVILLE PA 19525	7/30/2014	TBD	Yes	Yes	40.28483105	-75.54923692
Acorn Hills	23	23B2	Disconnection of Roof	3028 Samantha Way	LIGHT KELLY & CHESTER	3028 SAMANTHA WAY, GILBERTSVILLE PA 19525	LIGHT KELLY & CHESTER	3028 SAMANTHA WAY, GILBERTSVILLE PA 19525	7/30/2014	TBD	Yes	Yes	40.28506826	-75.54913446
Acorn Hills	23	23C	Detention Basin	Samantha Way	Camco Management Company		Acorn Hills HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	7/30/2014	TBD	Yes	Yes	40.28655396	-75.5483012
Acorn Hills	23	23D	Existing Vegetation	Samantha Way	Camco Management Company		Acorn Hills HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	7/30/2014	TBD	Yes	Yes	40.28529846	-75.54882198

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Acorn Hills	23	23D1	Existing Vegetation	Samantha Way	Camco Management Company		Acorn Hills HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	7/30/2014	TBD	Yes	Yes	40.28305732	-75.55024998
Acorn Hills	23	23B3	Disconnection of Roof	3004 Samantha Way	RAMAMOORTHY BARATHWAJ	3004 SAMANTHA WAY, GILBERTSVILLE PA 19525	RAMAMOORTHY BARATHWAJ	3004 SAMANTHA WAY, GILBERTSVILLE PA 19525	7/30/2014	TBD	Yes	Yes	40.28349652	-75.54997427
Acorn Hills	23	23B4	Disconnection of Roof	2698 ST VICTORIA DR	DREYER EDWARD & CYNTHIA	2698 ST VICTORIA DR, GILBERTSVILLE PA 19525	DREYER EDWARD & CYNTHIA	2698 ST VICTORIA DR, GILBERTSVILLE PA 19525	7/30/2014	TBD	Yes	Yes	40.28245095	-75.55183821
Acorn Hills	23	23B5	Disconnection of Roof	2694 ST VICTORIA DR	HAUGHTON GARFIELD A	2694 ST VICTORIA DR, GILBERTSVILLE PA 19525	HAUGHTON GARFIELD A	2694 ST VICTORIA DR, GILBERTSVILLE PA 19525	7/30/2014	TBD	Yes	Yes	40.2824071	-75.55226836
Acorn Hills	23	23C1	Detention Basin	ST VICTORIA DRIVE	Camco Management Company		Acorn Hills HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	7/30/2014	TBD	Yes	Yes	40.28235317	-75.55343081
Acorn Hills	23	23B6	Disconnection of Roof	2544 ST VICTORIA DR	Camco Management Company		Acorn Hills HOA, c/o Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	7/30/2014	TBD	Yes	Yes	40.28396416	-75.55578754
Acorn Hills	23	23B7	Disconnection of Roof	2538 SAINT VICTORIA DR	BREYER HERBERT J & DEBRA J	2538 SAINT VICTORIA DR, GILBERTSVILLE PA 19525	BREYER HERBERT J & DEBRA J	2538 SAINT VICTORIA DR, GILBERTSVILLE PA 19525	7/30/2014	TBD	Yes	Yes	40.28379671	-75.55601048
Acorn Hills	23	23B8	Disconnection of Roof	2534 ST VICTORIA DR	LAMPMANN STEPHEN F & KATHLEEN P	2534 ST VICTORIA DR, GILBERTSVILLE PA 19525	LAMPMANN STEPHEN F & KATHLEEN P	2534 ST VICTORIA DR, GILBERTSVILLE PA 19525	7/30/2014	TBD	Yes	Yes	40.28355051	-75.55613559
Acorn Hills	23	23B9	Disconnection of Roof	2530 ST VICTORIA DR	WEZNER JOHN J	2530 ST VICTORIA DR, GILBERTSVILLE PA 19525	WEZNER JOHN J	2530 ST VICTORIA DR, GILBERTSVILLE PA 19525	7/30/2014	TBD	Yes	Yes	40.28335354	-75.55628921
Acorn Hills	23	23B10	Disconnection of Roof	2528 ST VICTORIA DR	BRADY RICHARD & CYNTHIA A	2528 SAINT VICTORIA DR, GILBERTSVILLE PA 19525	BRADY RICHARD & CYNTHIA A	2528 SAINT VICTORIA DR, GILBERTSVILLE PA 19525	7/30/2014	TBD	Yes	Yes	40.28325108	-75.55642638
Boyertown YMCA	24	24	Detention Basin	3065 N CHARLOTTE ST	NEW HANOVER UNITED METHODIST CHURCH		NEW HANOVER UNITED METHODIST CHURCH	2211 SWAMP PIKE, GILBERTSVILLE PA 19525	2/25/2003	TBD	Yes	Yes	40.31025248	-75.57749627
Briar Ridge	25	25A1	Infiltration Trench	2370/2374 Sycamore Lane	PULEO CHARLES F JR & REBECCA L/WEIDMAN JOHN E & DOLORES C	2370/2374 Sycamore Lane	PULEO CHARLES F JR & REBECCA L/WEIDMAN JOHN E & DOLORES C	2370/2374 Sycamore Lane, GILBERTSVILLE PA 19525	9/13/2012	TBD	Yes	Yes	40.2775305	-75.57669551
Briar Ridge	25	25A2	Infiltration Trench	2463 Magnolia Drive/2377 Sycamore Lane/2381 Sycamore Lane	REITER KYLE J & ASHLEY A/GRUBE MICHAEL & ANGIE/STORTI CHARLES M & ELMA M	2463 Magnolia Drive/2377 Sycamore Lane/2381 Sycamore Lane	REITER KYLE J & ASHLEY A/GRUBE MICHAEL & ANGIE/STORTI CHARLES M & ELMA M	2463 Magnolia Drive/2370/2374 Sycamore Lane, GILBERTSVILLE PA 19525	9/13/2012	TBD	Yes	Yes	40.27823323	-75.57589658
Briar Ridge	25	25A3	Infiltration Trench	2398 Magnolia Dirve	MOYER MARTYNE L		MOYER MARTYNE L	2398 MAGNOLIA DR, GILBERTSVILLE PA 19525	9/13/2012	TBD	Yes	Yes	40.27843067	-75.57446234
Briar Ridge	25	25A4	Infiltration Trench	2393/2397/2401 Mulberry Lane	MOYER DONALD E & SUSAN K/WELSH MAUREEN/HILTNER ROBERT J & PATRICIA A		MOYER DONALD E & SUSAN K/WELSH MAUREEN/HILTNER ROBERT J & PATRICIA A	2393/2397/2401 Mulberry Lane, GILBERTSVILLE PA 19525	9/13/2012	TBD	Yes	Yes	40.27893332	-75.57295608
Briar Ridge	25	25A5	Infiltration Trench	2414 Magnolia Drive	VITABILE WILLIAM J & KAREN A		VITABILE WILLIAM J & KAREN A	2414 MAGNOLIA DR, GILBERTSVILLE PA 19525	9/13/2012	TBD	Yes	Yes	40.2800458	-75.57272916
Briar Ridge	25	25A6	Infiltration Trench	2430/2426/2422 Magnolia Drive	COYNE JOSEPH G & NANCY T/KENNEDY JOSEPH H JR & LINDA F/ULRICH J MICHAEL & MARY H		COYNE JOSEPH G & NANCY T/KENNEDY JOSEPH H JR & LINDA F/ULRICH J MICHAEL & MARY H	2430/2426/2422 MAGNOLIA DR, GILBERTSVILLE PA 19525	9/13/2012	TBD	Yes	Yes	40.28055161	-75.57391794

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Briar Ridge	25	25B1	Infiltration Basin	2411/2427 Magnolia Drive	SHARKEY THOMAS D/SPLEEN LISA M		SHARKEY THOMAS D/SPLEEN LISA M	2411/2427 MAGNOLIA DR, GILBERTSVILLE PA 19525	9/13/2012	TBD	Yes	Yes	40.27990086	-75.57403652
Camp Laughing Waters	27	27A1	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.28994292	-75.55436404
Camp Laughing Waters	27	27A2	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.28929895	-75.55296962
Camp Laughing Waters	27	27A3	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.29161511	-75.55144463
Camp Laughing Waters	27	27A4	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.29231931	-75.55112516
Camp Laughing Waters	27	27A5	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.29410959	-75.55176106
Camp Laughing Waters	27	27A6	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.29472597	-75.5521575
Camp Laughing Waters	27	27A7	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.29345699	-75.54718844
Camp Laughing Waters	27	27A8	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.29506686	-75.54900386
Camp Laughing Waters	27	27A9	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.2956508	-75.54648643
Camp Laughing Waters	27	27A10	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.29556669	-75.54536238
Camp Laughing Waters	27	27A11	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.29159868	-75.54780882
Camp Laughing Waters	27	27A12	Bioretention Garden	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.29161122	-75.54737226
Camp Laughing Waters	27	27B1	Vegetated Swale with Check Dam	2698 HILDEBEIDEL RD	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	TBD	TBD	Yes	Yes	40.29309417	-75.55179458
New Hanover Square Pump Station	28	28A	Permanent Vegetation	3076 New Hanover Square Road	New Hanover Township Authority	2943 N. Charlotte Street, Gilbertsville PA 19525	New Hanover Township Authority	2943 N. Charlotte Street, Gilbertsville PA 19525	2005	TBD	Yes	Yes	40.293487	-75.556403
Hanover Preserves	29	29A	Detention Basin	513/515 Courtside Ave	SCHAEFER SEAN & CATHERINE DIMOTSIS / DINIELLI JAMES R SR & MESETE-DINIELLI ALLISON E	513/515 Courtside Ave, GILBERTSVILLE PA 19525	SCHAEFER SEAN & CATHERINE DIMOTSIS / DINIELLI JAMES R SR & MESETE-DINIELLI ALLISON E	513/515 Courtside Ave, GILBERTSVILLE PA 19525	12/14/2006	PAG02004606058	Yes	Yes	40.281446	-75.593041

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Hanover Preserves	29	29B	Detention Basin	517 Courtside Ave	PROSTOVICH EVAN J & TRISTIN A	517 COURTSIDE AVE, GILBERTSVILLE PA 19525	PROSTOVICH EVAN J & TRISTIN A	517 COURTSIDE AVE, GILBERTSVILLE PA 19525	12/14/2006	PAG02004606058	Yes	Yes	40.28127	-75.592377

2022 NEW HANOVER TOWNSHIP PCSM BMP COMPLIANCE STATUS

BMP No.	BMP Type	Responsible Party	Responsible Party Address	BMP Address	Site Name	Date of Inspection	Temp. (°F)	Weather	Inspector Name	Inspection Type	Structural or Non-Structural BMP	Rainfall within 72 hours?	OVERALL	In Compliance?
1D	Revegetation Area	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:00	83	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1E	Vegetated Swale	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 15:23	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1G	Disconnection from Storm Sewers	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 15:29	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1F	Soils Amendment and Restoration	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1A	Retention Basin	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 15:41	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1B	Rain Garden/Bio-Retention	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	2488 Church Road	Fun-E-Farm, LLC.	8/26/2022 15:53	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1G5	Disconnection from Storm Sewers	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1G3	Disconnection from Storm Sewers	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:10	85	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1G1	Disconnection from Storm Sewers	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:13	85	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1F1	Soils Amendment and Restoration	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:15	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1G2	Disconnection from Storm Sewers	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:19	85	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1G4	Disconnection from Storm Sewers	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1B1	Rain Garden/Bio-Retention	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	2488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1C1	Protected Sensitive Features	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
1C	Protected Sensitive Features	FEF, LLC.	10 Schoolhouse Road, STE 1, Souderton, PA 18964	3488 Church Road	Fun-E-Farm, LLC.	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes

2022 NEW HANOVER TOWNSHIP PCSM BMP COMPLIANCE STATUS

BMP No.	BMP Type	Responsible Party	Responsible Party Address	BMP Address	Site Name	Date of Inspection	Temp. (°F)	Weather	Inspector Name	Inspection Type	Structural or Non-Structural BMP	Rainfall within 72 hours?	OVERALL	In Compliance?
20F	Protect/Convert/Establish Riparian Buffer	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Quail Drive	Country Meadows	8/26/2022 18:01	85	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_design	Yes
20D1	Inlet Snout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Qual Road	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20C5	Underground Detention Basin	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	109 Fox Lane	Country Meadows	8/26/2022 18:06	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20D4	Inlet Snout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Qual Drive	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20D2	Snout Inlet/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Fox Lane	Country Meadows	8/26/2022 18:16	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20D3	Inlet Snout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Fox Lane	Country Meadows	8/26/2022 18:18	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20C6	Underground Detention Basin	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	110 Fox Lane	Country Meadows	8/26/2022 18:21	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20D12	Inlet Snout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Qual Drive	Country Meadows	8/26/2022 18:25	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20C8	Underground Detention Basin	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	214 Qual Road	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20D11	Inlet Snout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Dotterer Road	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20C7	Underground Detention Basin	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	213 Qual Road	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20D10	InletSnout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	213 Qual Drive	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20A9	Rain Garden	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	211/213 Qual Drive	Country Meadows	8/26/2022 16:00	82	Sunny	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetation	No
20B1	Infiltration Berm	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	2939 Dotterer Road	Country Meadows	8/26/2022 19:00	82	Sunny	Matt Soffera, CEG	Routine	Structural	No	Other	No
20B2	Infiltration Berm	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	108 Fox Lane	Country Meadows	8/26/2022 16:00	82	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20A8	Rain Garden	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	209/211 Qual Drive	Country Meadows	8/26/2022 19:08	82	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes

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20B3	Infiltration Berm	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	206 Peter Lane	Country Meadows	8/26/2022 19:14	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
20D9	Inlet Snout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Peter Lane	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
20C3	Underground Detention Basin	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	209 Peter Lane	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
20D8	Inlet Snout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Peter Lane	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
20D7	Inlet Snout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Peter Lane	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
20D6	Inlet Snout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Peter Lane	Country Meadows	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
13A1	Recharge Pit	Austin Lisa & Jamie L	2404 New Hanover Square Rd, Gilbertsville PA, 19525	2404 New Hanover Square Rd, Gilbertsville PA, 19525	Lawrence	8/26/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
13B	Roof Drain Cleanouts	Austin Lisa & Jamie L	2404 New Hanover Square Rd, Gilbertsville PA, 19525	2404 New Hanover Square Rd, Gilbertsville PA, 19525	Lawrence	8/26/2022 16:00	85	Sunny		Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
18C	Foo-guard vortex separator	WINDLESTRAE COMMUNITY MASTER ASSOCIATION, C/O CAMCO MANAGEMENT	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Middle Creek Road	Windlestrae	8/30/2022 15:07	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
18B	Porous Pavement	WINDLESTRAE COMMUNITY MASTER ASSOCIATION, C/O CAMCO MANAGEMENT	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Tulip Lane	Windlestrae	8/30/2022 15:09	82	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
18E	Snout	WINDLESTRAE COMMUNITY MASTER ASSOCIATION, C/O CAMCO MANAGEMENT	501 Office Center Drive, STE 200, Fort Washington, PA 19034	Middle Creek Road	Windlestrae	8/30/2022 15:27	82	Sunny	M Soffera	Routine	Structural	No	Other	No
20D5	Inlet Snout/Oil-Grit Separator	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	Fox Drive	Country Meadows	8/30/2022 16:00	82	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
20A7	Rain Garden	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	107/109 Fox Lane	Country Meadows	8/30/2022 15:48	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
20E	Vegetated Swale	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	107/109 Fox Lane	Country Meadows	8/30/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes

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20C4	Underground Detention Basin	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	105 Fox Lane	Country Meadows	8/30/2022 15:56	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20A6	Rain Garden	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	103/105 Fox Lane	Country Meadows	8/30/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20A5	Rain Garden	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	101 Fox Lane	Country Meadows	8/30/2022 16:00	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20A1	Rain Garden	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	201/203 Peter Lane	Country Meadows	8/30/2022 16:11	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20C1	Underground Detention Basin	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	203 Peter Lane	Country Meadows	8/30/2022 16:17	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20A2	Rain Garden	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	205 Peter Lane	Country Meadows	8/30/2022 16:24	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetation,Other	No
20A3	Rain Garden	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	207 Peter Lane	Country Meadows	8/30/2022 16:38	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetation	No
20A4	Rain Garden	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	207/209 Peter Lane	Country Meadows	8/30/2022 16:46	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
20C2	Underground Detention Basin	Community HOA/Brian Tyler	110 Fox Lane, Gilbertsville PA, 19525	207 Peter Lane	Country Meadows	8/30/2022 16:51	85	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
17C2	Snout	Benedict Craig & Maria	313 Renninger Rd, Gilbertsville, PA 19525	313 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
17B1	Basin	Benedict Craig & Maria	313 Renninger Rd, Gilbertsville, PA 19525	313 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
17A2	Seepage Bed	Benedict Craig & Maria	313 Renninger Rd, Gilbertsville, PA 19525	313 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
17C1	Snout	BORDER PAUL L & REBECCA GRACE	307 Renninger Rd, Gilbertsville, PA 19525	307 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	Other	No
17A1	Seepage Bed	BORDER PAUL L & REBECCA GRACE	307 Renninger Rd, Gilbertsville, PA 19525	307 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
17C	Snout	Schwarz Brian J & Felicia M	303 Renninger Rd, Gilbertsville, PA 19525	303 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
17A	Seepage Bed	Schwarz Brian J & Felicia M	303 Renninger Rd, Gilbertsville, PA 19525	303 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes

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17C3	Snout	Stein Jeffrey A Jr & Loree L	355 Renninger Rd, Gilbertsville, PA 19525	355 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
17A3	Seepage Bed	Stein Jeffrey A Jr & Loree L	355 Renninger Rd, Gilbertsville, PA 19525	355 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
17B	Detention Basin	Stein Jeffrey A Jr & Loree L	355 Renninger Rd, Gilbertsville, PA 19525	355 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
17C4	Snout	Young Thomas A & Jamie M	363 Renninger Rd, Gilbertsville, PA 19525	363 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	Other	No
17A4	Seepage Bed	Young Thomas A & Jamie M	363 Renninger Rd, Gilbertsville, PA 19525	363 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	55	Sunny	Matt Soffera, CEG	Routine	Structural	No	Excessive_trash/debris/sediment_accumulation	No
17C5	Snout	Brown Heath A & Conrad Debra J	361 Renninger Rd, Gilbertsville, PA 19525	361 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
17A5	Seepage Bed	Brown Heath A & Conrad Debra J	361 Renninger Rd, Gilbertsville, PA 19525	361 Renninger Rd, Gilbertsville, PA 19525	Valley Brook II	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
11B	Swale	Sillitti Frank & Schuck Renee A	2301 Wooded Creek Cir	2301 Wooded Creek Cir	Pryor Tract	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
24	Basin	NEW HANOVER UNITED METHODIST CHURCH	2211 SWAMP PIKE, GILBERTSVILLE PA 19525	3065 N CHARLOTTE ST	Boyertown YMCA	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	No
2C2	Sump Inlet	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	Jackie Drive	Hanover Woods	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
2C3	Sump Inlet	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	Marisa Lane	Hanover Woods	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
2C4	Sump Inlet	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	Marisa Lane	Hanover Woods	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
2E	Bio-Infiltration Area	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	Layfield Park	Hanover Woods	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
2B1	Retentive Grading	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	Garnet Drive	Hanover Woods	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
2C	Sump Inlet	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	Garnet Drive	Hanover Woods	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes

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2C1	Sump Inlet	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	Garnet Drive	Hanover Woods	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
8A	Seepage Bed	KING EDWARD & COURTNEY	2512 Tracy Ln, Gilbertsville PA 19525	2512 Tracy Ln, Gilbertsville PA 19525	Highlands at Hanover II	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
8A1	Seepage Bed	Wieber Francis M & Rebecca S	2514 Tracy Ln, Gilbertsville PA 19525	2514 Tracy Ln, Gilbertsville PA 19525	Highlands at Hanover II	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	No
8A2	Seepage Bed	Cless Craig M & Catherine B	2516 Tracy Ln, Gilbertsville PA 19525	2516 Tracy Ln, Gilbertsville PA 19525	Highlands at Hanover II	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
13B1	Roof Drain Cleanout	Zielinski Carla J & Kenneth J Jr	2408 New Hanover Square Rd, Gilbertsville PA, 19525	2408 New Hanover Square Rd, Gilbertsville PA, 19525	Lawrence	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	No
13A	Recharge Pit	Zielinski Carla J & Kenneth J Jr	2408 New Hanover Square Rd	2408 New Hanover Square Rd	Lawrence	9/16/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No		No
2B	Retentive Grading	New Hanover Township	2943 N Charlotte St, Gilbertsville, PA 19525	Marisa Lane	Hanover Woods	9/20/2022 16:00	66	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
2A2	Basin	HANOVER WOODS PLANNED COMMUNITY ASSN	2655 PHILMONT AVE, HUNTINGDON VALLEY PA 19006	Marisa Lane	Hanover Woods	9/20/2022 16:00	68	Sunny	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetation	No
2A1	Basin	HANOVER WOODS PLANNED COMMUNITY ASSN	2655 PHILMONT AVE, HUNTINGDON VALLEY PA 19006	Jackie Drive	Hanover Woods	9/20/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
2A	Basin	HANOVER WOODS PLANNED COMMUNITY ASSN	2655 PHILMONT AVE, HUNTINGDON VALLEY PA 19006	Dotterer Road	Hanover Woods	9/20/2022 16:00	72	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
21C	Snout	HALTEMAN OFFICE CENTER CONDOMINIUM ASSOC	19825 N COVE RD UNIT 218, CORNELIUS NC 28031	1808 Swamp Pike	Halteman Office Center	9/20/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
21B	Infiltration Basin	HALTEMAN OFFICE CENTER CONDOMINIUM ASSOC	19825 N COVE RD UNIT 218, CORNELIUS NC 28031	1808 Swamp Pike	Halteman Office Center	9/20/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetation	No
21A	Bio-Retention Area	HALTEMAN OFFICE CENTER CONDOMINIUM ASSOC	19825 N COVE RD UNIT 218, CORNELIUS NC 28031	1808 Swamp Pike	Halteman Office Center	9/20/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
9B	Snout	McSurdy LP	128 MENNONITE RD, COLLEGEVILLE, PA 19426	1831 Swamp Pike, Gilbertsville PA 19525	McSurdy Office Center	9/20/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes

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9B1	Snout	McSurdy LP	128 MENNONITE RD, COLLEGEVILLE, PA 19426	1831 Swamp Pike, Gilbertsville PA 19525	McSurdy Office Center	9/20/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
9A	Detention Basin	McSurdy LP	128 MENNONITE RD, COLLEGEVILLE, PA 19426	1831 Swamp Pike, Gilbertsville PA 19525	McSurdy Office Center	9/20/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	No
23C	Detention Basin	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	Samantha Way	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	No
23B2	Roof Drain Disconnection	LIGHT KELLY & CHESTER	3028 SAMANTHA WAY, GILBERTSVILLE PA 19525	3028 Samantha Way	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
23D	Existing Vegetation	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	Samantha Way	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
23B1	Roof Drain Disconnection	CWIKLA JOHN F & MICHELLE L	3024 SAMANTHA WAY, GILBERTSVILLE PA 19525	3024 Samantha Way	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
23A	Vegetated Filter Strip	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	Samantha Way	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
23B3	Roof Drain Disconnection	RAMAMOORTHY BARATHWAJ	3004 SAMANTHA WAY, GILBERTSVILLE PA 19525	3004 Samantha Way	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
23D1	Existing Vegetation	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	Samantha Way	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
23B4	Roof Drain Disconnection	DREYER EDWARD & CYNTHIA	2698 ST VICTORIA DR, GILBERTSVILLE PA 19525	2698 ST VICTORIA DR	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
23B	Roof Drain Disconnection					9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	No
23C1	Detention Basin	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	ST VICTORIA DRIVE	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetatio n	No
23B10	Roof Drain Disconnection	BRADY RICHARD & CYNTHIA A	2528 ST VICTORIA DR, GILBERTSVILLE PA 19525	2528 ST VICTORIA DR	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	No
23B9	Roof Drain Disconnection	WEZNER JOHN J	2530 ST VICTORIA DR, GILBERTSVILLE PA 19525	2530 ST VICTORIA DR	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
23B8	Roof Drain Disconnection	LAMPMANN STEPHEN F & KATHLEEN P	2534 ST VICTORIA DR, GILBERTSVILLE PA 19525	2534 ST VICTORIA DR	Acorn Hills	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	No

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BMP No.	BMP Type	Responsible Party	Responsible Party Address	BMP Address	Site Name	Date of Inspection	Temp. (°F)	Weather	Inspector Name	Inspection Type	Structural or Non-Structural BMP	Rainfall within 72 hours?	OVERALL	In Compliance?
10A9	Seepage Bed	Smith Gregory J & Julia L	223 Clarkdale Ln, Gilbertsville PA 19525	223 Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A7	Seepage Bed	Schoedler Ronald W & Nicole K	219 Clarkdale Ln, Gilbertsville PA 19525	219 Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A6	Seepage Bed	Mauger Alana J & Reinke Chris A	205 Clarkdale Ln, Gilbertsville PA 19525	205 Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10C	Detention Basin					9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetatio n,Evidence_of_accel erated_erosion	No
10A5	Seepage Bed	Klee Laura Anne	117 Holbrook Ln, Gilbertsville PA 19525	117 Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	No
10A4	Seepage Bed	Messmer Christine M	115 Holbrook Ln, Gilbertsville PA 19525	115 Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A3	Seepage Bed	Cordrey T Daniel & Bucher-Cordrey Heather	113 Holbrook Ln, Gilbertsville PA 19525	113 Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A2	Seepage Bed	Testa Jonathan & Onder Ashley	111 Holbrook Ln, Gilbertsville PA 19525	111 Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A1	Seepage Bed	Saunders Rena	109 Holbrook Ln, Gilbertsville PA 19525	109 Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A	Seepage Bed	HALSEY KRISTOPHER T & BEVERLY JEAN	107 Holbrook Ln, Gilbertsville PA 19525	107 Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10G2	Landscape Plantings	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A13	Seepage Bed	PHILLIPS JOSHUA & DANIELLE	220 Holbrook Ln, Gilbertsville PA 19525	220 Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A12	Seepage Bed	CORNELIUS MARK & LARA	222 Holbrook Ln, Gilbertsville PA 19525	222 Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A11	Seepage Bed	RUMINSKI DAVID & BARBARA	224 Holbrook Ln, Gilbertsville PA 19525	224 Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10F	Vegetated Swale	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/21/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes

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19C15	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	610 MADISON CT	Kingston Hill	9/28/2022 14:16	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C14	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	608 MADISON CT	Kingston Hill	9/28/2022 14:21	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C13	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	606 MADISON CT	Kingston Hill	9/28/2022 14:24	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C12	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	604 MADISON CT	Kingston Hill	9/28/2022 14:27	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C11	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	602 MADISON CT	Kingston Hill	9/28/2022 14:30	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C10	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1977 CANYON CREEK RD	Kingston Hill	9/28/2022 14:33	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C9	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	CANYON CREEK RD	Kingston Hill	9/28/2022 14:38	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C8	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1981 CANYON CREEK RD	Kingston Hill	9/28/2022 14:40	58	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C7	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1983 CANYON CREEK RD	Kingston Hill	9/28/2022 14:43	58	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C6	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1985 CANYON CREEK RD	Kingston Hill	9/28/2022 14:47	58	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C5	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1987 CANYON CREEK RD	Kingston Hill	9/28/2022 14:51	58	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C3	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1988 CANYON CREEK RD	Kingston Hill	9/28/2022 14:55	58	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C4	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1986 CANYON CREEK RD	Kingston Hill	9/28/2022 14:58	58	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C20	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1963 CANYON CREEK RD	Kingston Hill	9/28/2022 15:02	58	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C21	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	CANYON CREEK RD	Kingston Hill	9/8/2021 16:00	58	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes

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19C16	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1969 CANYON CREEK RD	Kingston Hill	9/28/2022 15:11	60	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19B	Infiltration Berm	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	Canyon Creek Road	Kingston Hill	9/28/2022 15:14	62	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C17	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	CANYON CREEK RD	Kingston Hill	9/28/2022 15:18	62	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C18	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1965 CANYON CREEK RD	Kingston Hill	9/28/2022 15:20	62	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C19	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1963 CANYON CREEK RD	Kingston Hill	9/28/2022 15:24	62	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C22	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1960 CANYON CREEK RD	Kingston Hill	9/28/2022 15:28	62	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C23	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1956 CANYON CREEK RD	Kingston Hill	9/28/2022 15:32	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C24	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	1954 CANYON CREEK RD	Kingston Hill	9/28/2022 15:36	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C26	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	CENTENNIAL AVE	Kingston Hill	9/28/2022 15:41	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C25	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	CENTENNIAL AVE	Kingston Hill	9/28/2022 15:45	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	2001 CANYON CREEK RD	Kingston Hill	9/28/2022 15:56	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C1	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	2003 CANYON CREEK RD	Kingston Hill	9/28/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19C2	Amended Soils	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	2007 CANYON CREEK RD	Kingston Hill	9/28/2022 16:03	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19A1	Detention basin	Kingston Hill Ii Community Association	TBD	Canyon Creek Road, Gilbertsville, PA 19525	Kingston Hill	9/28/2022 16:29	70	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
19A2	Detention basin	Kingston Hill Ii Community Association	TBD	Canyon Creek Road, Gilbertsville, PA 19525	Kingston Hill	9/28/2022 16:53	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetatio n	No

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19A	Detention Basin	Kingston Hill Ii Community Association	TBD	Canyon Creek Road, Gilbertsville, PA 19525	Kingston Hill	9/28/2022 17:26	80	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	No
29B	Detention Basin	Hanover Preserves HOA	TBD	517 Courtside Ave	Hanover Preserves	9/28/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
29A	Detention Basin	Hanover Preserves HOA	TBD	513 Courtside Ave	Hanover Preserves	9/28/2022 16:00	75	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
19A3	Detention basin	Kingston Hill Ii Community Association	TBD	Canyon Creek Road, Gilbertsville, PA 19525	Kingston Hill	9/28/2022 19:11	70	Cloudy	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
5A	Basin	Rouse/Chamberlin Homes	500 Exton Commons, Exton PA 19341	107 Fairbrook Drive, Gilbertsville PA	Fairbrook	9/28/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
5B	Vegetated Swale	Rouse/Chamberlin Homes	500 Exton Commons, Exton PA 19341	107 Fairbrook Drive, Gilbertsville PA	Fairbrook	9/28/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10B	Infiltration Bed	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10E8	Stream Riparian Corridor	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10E9	Existing Woodlands	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10B1	Infiltration Bed	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10E10	Natural Features Steep Slopes	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10E11	Stream Riparian Corridor	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A10	Seepage Bed	Ellis Brian C & Vicki L	227 Holbrook Ln, Gilbertsville PA 19525	227 Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10A8	Seepage Bed	Gargano Anthony Jr	221 Clarkdale Ln, Gilbertsville PA 19525	221 Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10E1	Existing Woodlands	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes

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10E2	Vegetative Stabilization	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10D	Retention Basin	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Holbrook Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10E7	Natural Woodlands	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10E5	Riparian Stream Corridor	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10E4	Steep Slopes	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10E3	Steep Slopes	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	65	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10F1	Grass Swale	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	75	Sunny	Matt Soffera, CEG, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10G	Landscape Plantings	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10G1	Landscape Planting	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
10F1	Grass Swale	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	9/29/2022 16:00	75	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_de sign	Yes
27B1	Vegetated Swale with Check Dams	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A4	Bioretention Garden	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A2	Bioretention Garden	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A1	Bioretention Garden	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A3	Bioretention Garden	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No

2022 NEW HANOVER TOWNSHIP PCSM BMP COMPLIANCE STATUS

BMP No.	BMP Type	Responsible Party	Responsible Party Address	BMP Address	Site Name	Date of Inspection	Temp. (°F)	Weather	Inspector Name	Inspection Type	Structural or Non-Structural BMP	Rainfall within 72 hours?	OVERALL	In Compliance?
27A11	Bioretention Garden	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A12	Bioretention Garden	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A7	Bioretention Garden	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A10	Bioretention Area	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A9	Bioretention Garden	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A8	Bioretention Area	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A5	Bioretention Garden	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
27A6	Bioretention Garden	GIRL SCOUTS OF PHILADELPHIA INC & CFO GEORGE GORGE	330 MANOR RD, MIQUON PA 19444	2698 HILDEBEIDEL RD	Camp Laughing Waters	9/30/2022 16:00	58	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Other	No
28A	Permanent Vegetation	New Hanover Township	2943 N. Charlotte Street, Gilbertsville PA 19525	3076 New Hanover Square Road, Gilbertsville PA 19525	N/A	9/30/2022 16:00	60	Cloudy	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_design	Yes
16A	Basin	Reffner Brent & Christina L	2306 Sterling Dr, Gilbertsville, PA 19525	2306 Sterling Dr, Gilbertsville, PA 19525	Sterling Tract	9/30/2022 16:00	60	Cloudy	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
15A	Infiltration Basin	CARVAJAL JESUS R ROSADO & ROSADO LEYMARY	2281 Sterling Drive, Gilbertsville, PA 19525	2281 Sterling Drive, Gilbertsville, PA 19525	Rosenberry Ridge	9/30/2022 16:00	60	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetation	No
6	Basin	Heritage Building Group, Inc.	TBD	2207 Holly Drive	Hanover Greene	9/30/2022 16:00	60	Cloudy	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
4	Basin	GRILL WILLIAM & SUSAN	111 Lawrence Drive, Gilbertsville PA	111 Lawrence Drive, Gilbertsville PA	Falcon Crest	9/30/2022 16:00	60	Cloudy	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetation	Yes
22	Infiltration Trench	Boyertown Area School District	2020 Big Rd, Gilbertsville, PA 19525	2020 Big Rd, Gilbertsville, PA 19525	Boyertown Middle School East	10/20/2022 16:00	57	Sunny	Matt Soffera, CEG	Routine	Structural	No	Other	No

2022 NEW HANOVER TOWNSHIP PCSM BMP COMPLIANCE STATUS

BMP No.	BMP Type	Responsible Party	Responsible Party Address	BMP Address	Site Name	Date of Inspection	Temp. (°F)	Weather	Inspector Name	Inspection Type	Structural or Non-Structural BMP	Rainfall within 72 hours?	OVERALL	In Compliance?
25B1	Infiltration Basin	SHARKEY THOMAS D/SPLEEN LISA M	2411/2427 MAGNOLIA DR, GILBERTSVILLE PA 19525	2411/2427 Magnolia Drive	Briar Ridge	10/20/2022 16:00	57	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
25A6	Infiltration Trench	COYNE JOSEPH G & NANCY T/KENNEDY JOSEPH H JR & LINDA F/ULRICH J MICHAEL & MARY H	2430/2426/2422 MAGNOLIA DR, GILBERTSVILLE PA 19525	2430/2426/2422 Magnolia Drive	Briar Ridge	10/20/2022 16:00	57	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
25A5	Infiltration Trench	VITABILE WILLIAM J & KAREN A	2414 MAGNOLIA DR, GILBERTSVILLE PA 19525	2414 Magnolia Drive	Briar Ridge	10/20/2022 16:00	57	Sunny	Matt Soffera, CEG	Routine	Structural	No	Other	No
25A4	Infiltration Trench	MOYER DONALD E & SUSAN K/WELSH MAUREEN/HILTNER ROBERT J & PATRICIA A	2393/2397/2401 Magnolia Drive, GILBERTSVILLE PA 19525	2393/2397/2401 Magnolia Drive	Briar Ridge	10/20/2022 16:00	57	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
25A3	Infiltration Trench	MOYER MARTYNE L	2398 MAGNOLIA DR, GILBERTSVILLE PA 19525	2398 Magnolia Drive	Briar Ridge	10/20/2022 16:00	57	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	No
25A2	Infiltration Trench	REITER KYLE J & ASHLEY A/GRUBE MICHAEL & ANGIE/STORTI CHARLES M & ELMA M	2463 Magnolia Drive/2370/2374 Sycamore Lane, GILBERTSVILLE PA 19525	2463 Magnolia Drive/2377 Sycamore Lane/2381 Sycamore Lane	Briar Ridge	10/20/2022 16:00	57	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
25A1	Infiltration Trench	PULEO CHARLES F JR & REBECCA L/WEIDMAN JOHN E & DOLORES C	2370/2374 Sycamore Lane, GILBERTSVILLE PA 19525	2370/2374 Sycamore Lane	Briar Ridge	10/20/2022 16:00	57	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
43	Infiltration Basin					11/4/2022 16:00	58	Sunny	Matt Soffera, CEG	Routine	Structural	No	Excessive_vegetation	Yes
10E6	Vegetative Stabilization	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	11/4/2022 16:00	60	Cloudy	Matt Soffera, CEG	Routine	Nonstructural	No	Excessive_vegetation	Yes
10E	Natural Features Stream Riparian Corridor	Hawthorne Estates Community Association	PO BOX 306, GILBERTSVILLE PA 19525-0306	Clarkdale Ln, Gilbertsville PA 19525	Minister Creek Farms	11/4/2022 16:00	60	Sunny	Matt Soffera, CEG	Routine	Nonstructural	No	BMP_appears_to_be_functioning_per_design	Yes
19D	Tree Plantings	Camco Management Company	501 Office Center Drive, Ste. 220 Fort Washington, PA 19034	Kingston Hill	Kingston Hill	11/4/2022 16:00	60	Sunny	Matt Soffera, CEG	Routine	Structural	No	BMP_appears_to_be_functioning_per_design	Yes
15B	Swale	DAVIS GREGORY P & SPADONE JULIANE/REED BRANDON & ARGOE KELLY/CHAPMAN DANIEL J & BALLAT DANA/MCCARTHY TIMOTHY E & ERIN M		2289 Sterling Drive, Gilbertsville, PA 19525	Rosenberry Ridge	11/4/2022 16:00	60	Sunny	Matt Soffera, CEG	Routine	Structural	No	Other	No



ANNUAL MS4 STATUS REPORT
NEW HANOVER TOWNSHIP

ATTACHMENT E

MCM #6 POLLUTION PREVENTION/GOOD
HOUSEKEEPING



Center for Watershed Protection, Inc.
11711 East Market Pl, Suite 200
Fulton, MD 20759
<https://www.cwp.org>



September 14, 2022



STORMWATER MANAGEMENT PROGRAM

OPERATIONS & MAINTENANCE

FOR

MUNICIPAL OPERATIONS & FACILITIES

Prepared For:

New Hanover Township
Montgomery County, Pennsylvania
2943 North Charlotte Street
Gilbertsville, PA 19525
Updated January 2022



Prepared By:



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Cedarville Engineering Group, LLC (CEG) is a **Federally Certified 8(a)/EDWOSB & DBE/WBE Company** specializing in civil engineering, environmental consulting, geospatial and construction services for federal, state, municipal, private and institutional clients. The CEG team of professionals ensure successful projects from concept to planning and design, through permitting and construction, to project acceptance, operations and maintenance. We deliver value through innovation.

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- APPENDIX C – Materials Inventory Log
- APPENDIX D – Hazardous Spill Clean-up Sheet
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- APPENDIX F – Municipal Owned Facilities Map

1. INTRODUCTION

New Hanover Township has developed an Operations & Maintenance (O&M) Program as part of the Township's Stormwater Management Program.

The O&M Program was developed to provide methods of pollution prevention and good housekeeping measures for all municipal operations and facilities that may contribute to the discharge of pollutants from the Municipal Separate Storm Sewer System (MS4). The goal of the O&M Program is to prevent or reduce pollutants to the maximum extent practical. This O&M manual will be reviewed annually and updated, as necessary.

Specifically, the O&M Program identifies:

O&M Program

- Management practices, policies, and procedures to reduce or prevent the discharge of pollutants to the MS4.
- Maintenance activities and schedules and inspection procedures to reduce the potential for pollutants to the MS4.
- Controls for reducing or eliminating the discharge of pollutants from municipal facilities; and
- Procedures for the proper disposal of waste.

The O&M Program is designed to comply with New Hanover Township's National Pollution Discharge Elimination System - Municipal Separate Storm Sewer System (NPDES-MS4) Individual Permit No. PAG130020 issued by the Pennsylvania Department of Environmental Protection (DEP). More specifically, it will meet the measurable goals and criteria outlined in Minimum Control Measure (MCM) No. 6 - Pollution Prevention/Good Housekeeping - Best Management Practice (BMP) #2 of the NPDES-MS4 permit.

Pollution prevention and good housekeeping are the simplest and least costly methods to implement to help protect stormwater quality from municipal facilities. These are integral components to an effective stormwater management policy because it is easier to prevent pollution from entering waterways than to clean it up later.

Outside contractors will also be required to follow the procedures outlined in this manual.

2. GOOD HOUSEKEEPING

Good housekeeping practices are designed to maintain a clean and orderly work environment. Often the most effective first step towards preventing pollution in the stormwater collection system simply involves using good common sense to improve basic housekeeping methods. A clean and orderly work area reduces the possibility of accidental spills caused by mishandling of chemicals or equipment and should reduce safety hazards to Township personnel. In the event of a spill, Township personnel should complete the Hazardous

Spill Clean-Up Sheet (**Appendix D**) to record the details of the spill and how it was remediated. In addition to maintaining an organized work-area, Township employees will:

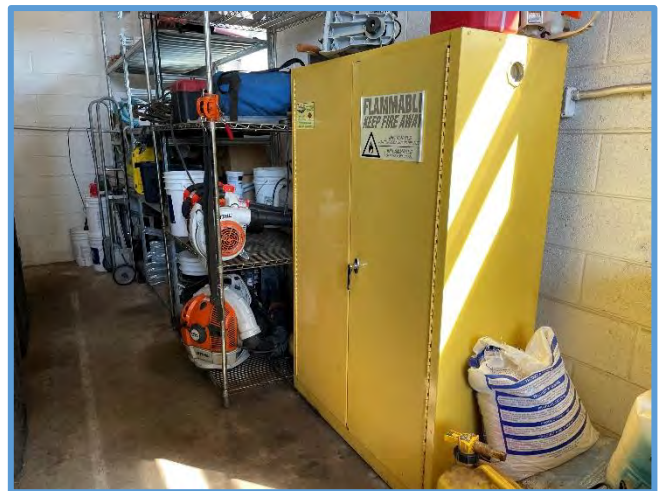
- Maintain clean, dry floors and ground surfaces by using brooms, shovels, vacuum cleaners, or cleaning machines. Sweeping shall be conducted as needed to remove dirt and other debris, as well as immediately following loading/unloading activities, when practical.
- Regularly pickup garbage and waste materials and place all trash, dirt, and other debris in the dumpster. The Township's recycling program shall be utilized to collect and properly dispose of paper, plastic, cans, and bottles.

3. MATERIALS STORAGE & HANDLING

3.1 Materials Storage Practices

Improper storage can result in the release of materials or chemicals that can cause stormwater runoff pollution. Keep storage areas clean, well-organized and provide adequate aisle space to facilitate material transfer and easy access for inspections.

- All containers, drums, and bags shall be stored away from direct traffic routes to prevent accidental spills.
- All chemicals shall be stored in a designated cabinet to be easily located when necessary or for inspections.
- When practical, chemical, fluids, and supplies should be kept indoors.
- If containers containing chemicals are stored outside, they must be covered when not being used and placed on spill platforms.
- All containers shall be properly labeled or marked and kept in good condition and tightly closed when not in use.
- Perform regular inspections of all indoor and outdoor storage locations.
- Maintain the Materials Inventory Log (**Appendix C**) for record-keeping of materials.



The Township currently stores the following materials at the Public Works Garage:

- Oil containers
- Petroleum products
- Fuel additives
- Paints (spray and cans)
- De-icing materials
- Household cleaning supplies

3.2 Materials Handling Practices

Absorbent material, spill kits and drip pans must be kept near any potential spill hazard and protected from rainfall. If spills or accidents occur, contain with dikes, berms, or appropriate absorbent materials, and dispose of properly after use. Spills of hazardous materials require special care and should only be attempted by trained Township or contracted personnel. Collect all waste fluids in properly labeled containers and dispose of properly.

4. STORMWATER FACILITIES

4.1 Stormwater BMPs

The Township owns three(3) Post Construction Stormwater Management (PCSM) BMPs, which are inspected and maintained under MCM No. 5 – Post-Construction Stormwater Management (PCSM) in New Development and Redevelopment – BMP #3 of the NPDES MS4 Permit.



BMPs are to be inspected at least annually to check for sediment accumulation and overall conditions and they should be inspected after large rain events to evaluate overall performance and drainage characteristics. Inspections are to be conducted by New Hanover Township Public Works personnel (or other Township representatives) to evaluate the performance of the stormwater facilities and to determine the potential amounts of pollutants, trash and debris entering and discharging from the stormwater collection system. These inspections should occur as part of regular job duties.

- Inspections will check for excessive silt build-up, erosion, collapsed pipes, misaligned joints and water quality concerns such as unusual algae growth, discolored water, water with a sheen, and suspect odors.
- Inspections will occur after severe weather conditions, such as heavy rains, to ensure they are working properly and are clear of debris. Inspection frequencies will depend on a variety of factors including weather conditions and type and function of the stormwater structures.
- All inspections activities, results and recommendations are to be documented in writing and kept on file with the Township. Typical records to be retained for future reference include a log of all inspections, repairs and maintenance performed at the site, copies of inspection reports, invoices for work performed, and a photograph of facilities.

All municipally owned stormwater facilities will be operated per their design specifications and in a manner that prevents or reduces adverse environmental or public health and safety impacts.

New Hanover Township's stormwater facility O&M program is structured to provide inspections of all facilities and to provide maintenance as needed. All maintenance activities are to be documented in writing and kept on file with the Township. When possible, photos will be taken of various storm sewer system components to document before and after maintenance conditions.

4.2 Storm Drain Inlets

New Hanover Township owns and maintains 1,746 storm drain inlets located along roadways and in parking lots throughout the Township. To maintain the integrity of the Township's stormwater system, the Township personnel will:

- Inspect all Township storm drain inlets at least annually to determine the trash and sediment load and overall condition of the structure. If the depth of deposits is greater than or equal to one-third the depth from the basin, cleaning will be scheduled.
- Storm drain inlets that accumulate trash and deposits quickly will be inspected more frequently and the drainage area will also be inspected to determine possible causes.
- Inlet grates will be inspected to ensure that there is no trash blocking the inlets, especially before heavy rains are forecast.
- While inspecting storm drain inlets, Township staff will check for evidence of illegal dumping or illicit discharges. If evidence of illegal dumping or illicit discharges is found, efforts are to be made to identify the source of these discharges.
- New Hanover Township personnel shall schedule cleaning of municipal storm drain inlets when inspections reveal an excessive accumulation of sediment or debris. Structural repairs to any part of storm drain inlets will be performed as needed including replacement of damaged or deficient piping.



4.3 Storm Sewer Piping, Drainage Channels, and Outfalls

The Township owns several large box culverts and many miles of underground storm sewer piping ranging in size from 6 to 60 inches. The age of the piping ranges from 40 years old to new pipe that was recently installed. The piping is constructed of reinforced concrete pipe, corrugated metal pipe, and HDPE pipe. The Township maintains several ditches, culverts and swales that function as storm drainage channels. To maintain the storm sewer system, Township public works personnel will:

- Open conveyances will be inspected annually to check for trash, debris, sediment build-up, obstructions, and general water quality conditions.
- Inspect piping as needed to check for structural integrity, blockages, or any other unusual conditions such as improper cross-connections or excessive inflow/infiltration.
- Inspect stormwater outfalls periodically to check for any unusual conditions such as excessive erosion or illicit discharges.

If inspections of storm sewer piping reveal structural deficiencies, cross-connections, tree roots, sediment build-up or obstructions, then the appropriate maintenance solution will be selected and implemented as soon as possible. These solutions may include excavation and repair, tree root removal, and physical cleaning. Chemical agents will not be utilized. For cleaning techniques, such as jet/vactor use, rodding or bucketing, the downstream end of the pipe will be blocked off and the debris will be captured and removed from the system.

- For storm culverts, ditches and swales, maintenance of free-flowing conditions will be achieved by physical removal of any debris, sediment, or overgrown vegetation.
- For storm sewer easements, the Township will remove any obstruction that is identified.
- Trash/obstructions will be removed at the outfalls to maintain free flowing conditions.
- Velocity reducers will be maintained or replaced as needed.

5. ROADWAYS

New Hanover Township owns and maintains approximately 80 miles of Township roadways.

- The overall condition and cleanliness of Township roads and parking lots shall constantly be inspected and evaluated during routine travels by public works personnel.
- Those areas with excessive staining, trash or sediment will be investigated and scheduled for cleaning or repairs, as necessary.
- Appropriate corrective actions shall be considered for any areas exhibiting flooding or poor drainage patterns.

The following roads within the Township are State owned and maintained:

- Big Road
- Layfield Road
- Charlotte Street
-

While the following roads within the Township are county owned and maintained

- Hill Road
- Henning Road
- Synder Road
- Hoffmansville Road
- Ludwig Road
- New Hanover Square Road
- Fagleysville Road
- Sanatoga Road
- Moyer Road

New Hanover Township is responsible for repairs and maintenance of all Township owned roadways. If outside contractors perform road paving or repairs, the following guidelines should be followed:

5.1 Roadway Paving Repair

Roadway paving repairs have the potential to generate stormwater pollution due to the materials and equipment needed to perform the repairs. To avoid and/or minimize stormwater pollution, the Township will follow the guidelines provided below:



- Avoid paving activities during wet weather.
- Ensure that storm drain inlets and open manholes are protected during road repair work to prevent slurry mixes, dust, and debris from entering the storm sewers.
- Avoid using water to clean up. Mechanically sweep and/or vacuum dust and debris following all activities. DO NOT wash residue into the storm drain system.
- Place stockpiles away from waterways and stormwater inlets to prevent materials from being washed into streams. Cover stockpiles or contain with berms.
- Contain water and wastes generated during cleaning and flushing of spray equipment and field servicing of equipment. Use inlet protection and allow area to dry before uncovering storm drain inlets.
- Recycle used materials such as asphalt. Store these materials properly.
- Use drip pans to contain leaks from vehicles and equipment parked at the site overnight.

5.2 Traffic Line Painting

During routine traffic line painting, the Township will follow the guidelines provided below to reduce the potential for stormwater pollution to the MS4:

- Develop paint-handling procedures for proper use, storage, and disposal of paints to keep the material contained.
- Protect storm drain inlets, open manholes and roadside ditches during grinding and pressure washing activities.
- Avoid using water to clean up. Mechanically sweep and/or vacuum grindings and dust following all activities. DO NOT wash residue into the storm drain system.
- Contain water and wastes generated during cleaning and flushing of equipment and field servicing of equipment. Use inlet protection and allow area to dry before uncovering storm drain inlets.

5.3 Snow Removal and De-Icing

The storage and application of materials used for roadway de-icing or traction control shall be conducted in a manner that reduces the impact to the storm sewer system and the environment. New Hanover Township uses salt for de-icing. All road salt is stored indoors at the public works maintenance facility. All salt is further tarped within the storage shed to prevent any runoff when not in use.

- During loading and unloading of salt, prevent and/or minimize spills by utilizing safe work practices and sound judgment.
- If any material is spilled, promptly collect it using dry cleaning methods. All collected materials shall be either reused or properly discarded.
- Minimize the tracking of materials from the storage area and the distance that road salt is transported during the loading/unloading operations.
- All operators of snowplows/salt spreaders are to be trained in the proper application rates of road salt. The salt spreaders are to be examined before operating to ensure that they are functioning properly.
- The application of road salt to roads or parking lots will be only enough to accomplish the task and will take into consideration site specific characteristics such as road width and design, traffic concentration, and proximity to surface waters.



6. DISPOSAL OF DEBRIS

Yard waste and organic debris is disposed of by the contracted refuse management company. The Township does not collect or handle any debris.

7. FERTILIZERS, HERBICIDES & PESTICIDES

The Township utilizes pesticides and herbicides to manage roadside vegetation. Chemical application is used in tandem with regular mowing. Currently the Township has two (2) licensed applicators:

- Dean Armstrong
- Tom Miskiewicz

Any herbicide and pesticide used on Township lands or around any part of the storm sewer collection system will be reviewed by the person(s) listed above to comply with all applicable regulations and to prevent adverse water quality impacts.

- Applications will only be conducted by Township personnel or contractors who have an appropriate applicators license from the PA Department of Agriculture.
- Herbicides, and pesticides shall be applied exactly according to manufacture guidelines, as more is not always better in the case of chemical applications. The use of these chemicals will be limited as much as possible and non-hazardous alternatives shall be encouraged.
- Herbicides and pesticides shall be stored in a covered location to avoid any chemicals from entering into the municipal separate storm system.

8. MUNICIPAL FACILITIES

The Township owns and maintains two (2) facilities that have the potential for producing stormwater pollution. There are also various parks and open spaces that do not have the potential for producing stormwater pollution. See the list below. An inventory of activities and BMPs for each facility is located in **Appendix A**. The locations of these facilities are illustrated on the Municipal Facilities Location Map in **Appendix F**. These properties will be operated and maintained in a manner that reduces the potential for pollution to enter the municipal storm sewer system or to the environment using the Municipal Facility Operation & Maintenance Form, located in **Appendix B**.



- **Municipal Complex** (2901 North Charlotte Street)
 - The municipal complex consists of a main garage, fueling station, a salt shed, police station, administrative offices, associated parking facilities and other infrastructure.

- **NHTA Waste Water Treatment Plant (WWTP)** (2990 Fagleysville Road)

- **3 NHTA Pump Stations** New Hanover township has the following three (3) pump stations which were determined to not have potential for generating pollution to stormwater runoff.
 - Burton Drive
 - New Hanover Square Road
 - Samantha Way

- **Parks/Open Space** - The following list of parks and open space were determined to not have a potential for generating pollution to stormwater runoff:

<ul style="list-style-type: none"> ○ New Hanover Township Recreation Area ○ Hickory Park ○ Swamp Creek Park ○ Anthony Gambone Sports Complex ○ Wassmer-Layfield Park ○ Deep Creek Park 	<ul style="list-style-type: none"> ○ New Hanover Township Community Park ○ Parestis Park ○ Rosenberry Road Open Space ○ Kurtz Road Open Space ○ Pleasant Run Park
--	--



9. MUNICIPAL VEHICLES

All Township vehicles will be operated in a manner that reduces the potential for pollution to enter the municipal stormsewer system or to the environment. This includes obeying all road and traffic rules and being alert at all times.

New Hanover Public Works Department owns the following vehicles and large equipment used for maintenance, repairs, and mowing.

UNIT NO.	YEAR	MAKE	MODEL
TRUCKS			
T-1	2020	Ford	550
T-3	2014	International	4300SBA
T-4	2016	International	7400SFA
T-5	2015	Ford	550
T-6	2022	Ford	F-250/4X4
T-7	2016	Inionational	7400SfA
T-8	2015	Ford 4x4	Crew cab
T-9	2019	Peterbuilt	Tandam Dump
T-10	2009	Mack	Tandam Dump
T-11	2011	Chevrolet	2500 Silverado
T-12	2013	Chevrolet	2500 Silverado
T-15	2005	GMC	C15
TRAILERS			
TR-1	2015	Interstate trailer	-
Tr-2	2013	Belmont	Landscape
Tr-3	2015	Carmate	Enclosed
TR-4	2017	Belmont	5x10
HEAVY EQUIPMENT			
P-1	2015	Leeboy	8500C
B-1	2018	Case Backhoe	590SN
L-1	2016	Case Loader	621
Mini Excavator	2021	John Deere	50G
L-1F	2016	Case forks	Case 721F
L-1B	2016	American Bucket	-
L-1TB	2016	Tree Basket	Case721F
M-1	2011	John Deere	6330
M-1DBM	2020	Diamond	BoomMower
M-1SB	2015	Sweepster Broom	QC32M9DM18
M-2	2010	John Deere	3520MFWD
Track Loader	2021	John Deere	333
SST-MM	2013	Bradco Mill Mach.	CP24HE
ATTACHMENTS AND MOWERS			



SST.B	2012	JCB Bucket	332/3180
SST-F	2015	Paladin Forks	30945
M-3	2012	Exmark mower	Lazer Z
M-4	2014	Toro Mower	7427
Ch-1	2010	Bandit Chipper	1090XP
R-1	2017	Case Roller	Dv36
Blower	2017	Toro PRO Blower	44552
V Box	2017	Boss V Box	VBX8000
Broom for 333	2021	John Deere	Skid Attachment

In the event of an accident involving vehicle fluids or cargo, all attempts will be made to prevent the spilled material(s) from entering the storm sewer system or nearby waterways. This could include diking, damming, absorbing, or removing the material from the affected area. All recovered materials will be disposed of in accordance with all applicable state and federal waste disposal regulations. Appropriate spill containment and recovery equipment will be maintained at the public works facility and on vehicles, when possible.

For any spill beyond the Township's ability to address, emergency responders or local contractors will be contacted to provide assistance. An up-to-date list of appropriate contactors as well as other entities to be contacted (PA DEP, PA Fish & Boat Commission, water users/intakes, etc.) will be maintained at the Township and made readily available.

9.1 Maintenance

Minor vehicle maintenance is performed at the public works facility located at 2901 North Charlotte Street. Other maintenance such as oil change, regular maintenance, inspection, etc. is performed at Sawchuk's Garage INC. Within the maintenance garage is a continuous floor drain that discharges into our sanitary sewer system. Washing of vehicles is not permitted within the public works garage. All vehicles must be washing outside in a location where runoff is directed to a pervious area. Vehicles, to the maximum extent possible, are stored inside our public works garage. Vehicles are periodically checked for leaks. Drip pans are to be placed to capture leaks. Do not pour liquid waste into floor drains, sinks, outdoor storm drain inlets, or other storm drains or sewer connections.

All products such as oils, grease and lubricants will be stored indoors. All products of maintenance activities, such as greasy rags, oil filters, air filters, batteries, tires and degreasers will be placed in appropriate containers within the maintenance building for proper disposal or recycling.

Avoid hosing down work areas and do not wash areas containing spillage or contaminants with water so that the runoff could enter the floor drains within the maintenance building. Utilize dry cleanup methods whenever possible. Suitable materials will be maintained on site for the cleanup and disposal of oils, chemicals, or other hazardous materials.

Utilize non-hazardous cleaners and solvents whenever possible and maintain an organized inventory of materials used in the maintenance building. Recycle antifreeze, used oil, mineral spirits and solvents when possible. Label and track the recycling of waste material. Drain oil filters before disposal or recycling. Place oil filters in a funnel over the waste oil recycling or disposal collection container to drain excess oil before disposal, then crush and recycle oil filters. Keep waste streams separate (i. e. waste oil and solvents).

Routinely inspect vehicle storage and maintenance areas to determine the effectiveness of the pollution prevention program. Maintain inspection records and promptly correct any deficiencies. Training will be conducted to educate employees and contractors on proper waste control and disposal procedures.

9.2 Fueling

The Township maintains a 5,000-gallon aboveground storage tank for fueling operations. The tank is a split tank and holds 5,000 gallons of diesel fuel. The steel tank was installed in 2006 and has double wall construction. The second outside wall is for containment. This containment area has spill monitors located on the top of tank. The tank and pump is protected by steel bollards.

The facility is used by Township Public Works and the Police Department. No other public use is permitted.



Observe proper safety techniques and constantly monitor all fueling operations to prevent or react to spillage. Do not leave a fueling operation or a storage tank delivery unattended. Discourage “topping off” of vehicle fuel tanks through training and signage. Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment, and appropriate contact information for the person(s) responsible for spill response.

The fuel delivery company is responsible to assure proper delivery procedures are followed. Any spills are to be reported to the responsible person immediately.

Any spillage from fueling activities will be controlled and cleaned up immediately. Appropriate clean up materials such as oil dry or absorbent pads will be maintained at the maintenance facility and will be used to prevent spillage from migrating away from the area. Small spills can be cleaned up with rags and larger spills can be cleaned with dry absorbent materials such as kitty litter, straw, or sawdust. Dispose of collected waste properly. Water will not be used to wash or cleanup fuel spillage.

The fueling area and storage tank will be routinely monitored for general housekeeping conditions and signs of possible leakage. Any fueling equipment found to be leaking or in disrepair will be repaired or replaced as soon as possible.

9.3 Vehicle/Equipment Washing

All vehicles or equipment washing is to occur outside and away from storm drains. The Township washes vehicles and equipment on an as needed basis. The washing activities runoff must infiltrate into the ground and is not be permitted to enter any storm drain system or be permitted to remain on outdoor paved areas where future rain events could then carry it to a storm drain system. Phosphate-free biodegradable detergents will be used whenever possible. All efforts should be made to avoid any water from entering the municipal stormwater system.

10. GOALS AND ACCOMPLISHMENTS

The goal of the O&M program is to prevent and reduce pollution runoff from operations, facilities, and activities by the Township. The Township is required to submit annual reports on the Stormwater Management Program to DEP by September 30th. The annual reports are available to the public by request at the Township Municipal Building. O&M accomplishments will be reported each year in the Annual MS4 Status Report.



APPENDIX A

Municipal Facilities Inventory



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

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NEW HANOVER TOWNSHIP - MUNICIPAL FACILITIES INVENTORY OF ACTIVITIES

ACTIVITIES & BEST MANAGEMENT PRACTICES (BMPs)	Public Works Facility	WWDP (Fagleysville Road)	Parks and Open Space
Landscaping & Lawncare			
Pesticide Application/Storage			X
Herbicide Application/Storage			X
Limit Purchase/Storage to One Year Supply			
Zero/Low Input Lawns			
Alternative Landscaping Techniques			
Grass Clippings Left on Lawn			
Integrated Pest Management			
Recordkeeping Fertilizer & Pesticide Use			
Spill Response & Prevention			
Aboveground Storage Tanks	X	X	
Drums for Liquid Storage	X	X	
Chemical Storage	X	X	
Secondary Containment Systems	X	X	
Floor Drain Storage Tank	X		
Spill Berm			
Roof/Overhang			
Vehicle/Equipment Washing			
Vehicle Washing	X		
Washwater Drains to MS4			
Vehicle Washing Inside; Single Purpose Bay			
Biodegradable Soaps (if used)	X		
Washwater Drains to Floor Drain Storage Tank	X		
Washwater Drains to Sanitary Sewer			
Equipment Rinsed on Vegetated Area			
Commercial Carwash Used (for small vehicles)	X		
Roadway & Bridge Maintenance			
Roadway Patching, Resurfacing, Sealing			

ACTIVITIES & BEST MANAGEMENT PRACTICES (BMPs)	Public Works Facility	WWDP (Fagleysville Road)	Parks and Open Space
Maintenance of Unpaved Roads			
Bridge & Structure Maintenance			
Painting/Paint Removal			
Dry Weather Paving			
Cover Storm Drain Inlets Prior to Paving			
Fluid Leaks/Spills from Paving Cleaned ASAP			
Cover Storm Drain Inlets When Painting			
Sweeping/Vacuuming After Task is Done			
Hazardous & Waste Materials Management			
Oil/Antifreeze Use and/or Storage	X	X	
Paints, Thinners, Solvents Use and/or Storage	X	X	
Cleaning Agents Use and/or Storage	X	X	
Illegal Dumping Occurs			
Recycle Drop Off Location			
Limit Purchase/Storage to One Year Supply	X	X	
Proper Storage; Away from Floor/Storm Drains	X	X	
Oil & Antifreeze Recycling	X	X	
Household Hazardous Waste Collected			
Litter Control Program			
Inspection of Material Storage Areas	X	X	
Building Maintenance			
Household Cleaning Performed	X	X	
Exterior Building Washing Performed	X	X	
Sidewalk Cleaning	X	X	
Roof Drainage Systems	X	X	
Walkway Salt Application	X	X	
Direct Washwater Away from MS4	X	X	
Minimize Salt Use	X	X	
Direct Roof Drain(s) to Grass, Rain Garden, etc.			

ACTIVITIES & BEST MANAGEMENT PRACTICES (BMPs)	Public Works Facility	WWDP (Fagleysville Road)	Parks and Open Space
Fluorescent/Other Light Recycling	X	X	
Paper/Plastic Recycling	X	X	
Stormwater Infrastructure Maintenance			
Stormwater Infrastructure Present	X	X	
Stormwater is Treated on Site	X		
Stormwater Drains to MS4	X	X	
Structure Inspection	X	X	
Structure Maintenance, Repair & Cleaning	X	X	
Open Ditch Maintenance	X	X	
Dispose/Store Vactor Waste Properly	X	X	
Structural BMP on Site	X		
Non-Structural BMP on Site			
Street Cleaning			
Street Cleaning & Maintenance			
Street Sweeping			
Disposal of Sweeper Waste			
Sweeps in a Pattern to Avoid Inlets			
Maintain Roadside Vegetation			
Dispose/Store Sweeper Waste Properly			
Road Salt Storage & Application			
Road Salt Performed			
Salt Storage On-Site	X		
Covered Salt Storage Facility	X		
Spreaders Calibrated & Maintained	X		
Diversion Berms to Reduce Run-On to Storage			
Alternative Materials Used (identify)			
Establish Low Salt for Sensitive Areas			

Comments:



APPENDIX B

Municipal Facility Operations and Maintenance Form



Cedarville Engineering Group, LLC

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Municipal Facility Operation & Maintenance Form

Date of Inspection:

Inspector:

Category	Components/Items to Check	Problems Observed	Maintenance/Repairs Necessary			Comments / Actions Taken
			Yes	No	N/A	
Hazardous Spill Response and Prevention	Products/waste storage areas	<input type="checkbox"/> Uncovered/deteriorating containers <input type="checkbox"/> Materials spilled, leaks				
	Equipment storage areas	<input type="checkbox"/> Fluid Leaks				
	Secondary containment systems	<input type="checkbox"/> Structural deterioration <input type="checkbox"/> Leakage of fluids				
	Floor drains, storm receiver inlets and outlets	<input type="checkbox"/> Accumulation of contaminants				
Hazardous and Waste Materials Management	Outside storage areas	<input type="checkbox"/> Weathering				
	Salt piles	<input type="checkbox"/> Salt staining				
	Soil staging areas	<input type="checkbox"/> Silt runoff				
	Aboveground storage tanks	<input type="checkbox"/> Deterioration				
	Inside storage areas	<input type="checkbox"/> Potential for discharges				
	Drums, other containers	<input type="checkbox"/> Deterioration <input type="checkbox"/> Uncovered				
Vehicle and Equipment Maintenance/Storage Area	Truck/equipment	<input type="checkbox"/> Leak/spills				
	Salt/sand spreader	<input type="checkbox"/> Improper amounts of product applied				
	Lawn care equipment	<input type="checkbox"/> Improper operation				
Vehicle and Equipment Washing Area	Designated "wash only" area	<input type="checkbox"/> No impermeable pad with wastewater collection system				
	Wastewater discharge location	<input type="checkbox"/> Does not flow to either a holding tank or to sanitary sewers				
	Washing/degreasing compounds	<input type="checkbox"/> Solvent based				
Road Salt Storage and Application	Storage shed	<input type="checkbox"/> Salt outside of shed				
	Truck loading area	<input type="checkbox"/> Salt on ground				
	Roads - (sites of application)	<input type="checkbox"/> Excessive salt on ground				
	Salt spreader	<input type="checkbox"/> Excessive salt on ground				
Pest Control	Pesticide storage area	<input type="checkbox"/> Excessive amounts of pesticides <input type="checkbox"/> Spilled pesticides <input type="checkbox"/> Empty containers				
	Application equipment	<input type="checkbox"/> Improper amounts of pesticides applied				



APPENDIX C

Materials Inventory Log



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

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Materials Inventory Log

Calendar Year:

Material	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
Salt (amount used)												
Yard Waste (amount collected)												
Street Sweeping (amount collected)												
Other: _____												
Other: _____												



APPENDIX D

Hazardous Spill Clean-up Sheet



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Pottstown, Pennsylvania | Pensacola, Florida

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Hazardous Spill Clean-up Sheet

Inventory Sheet No.:

Storage Facility Name & Address:

Preparer Name(s):

Date of Spill:

Time of Spill:

What and how much was spilled?

How long after the spill did clean-up begin?

How was the spill cleaned up and how was the material disposed of?

Are there any other actions that need to be undertaken regarding this spill?

Additional Comments:



APPENDIX E

Storm Sewer System Operation and Maintenance Form



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

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Storm Sewer System Operation & Maintenance Form

Date of Inspection:				Facility Name:			
Inspector:				Facility Location:			
Components/Items to Check	Problems Observed	Maintenance/ Repairs Necessary			Comments	Location (House #, distance from intersection)	
		Yes	No	N/A			
Catch Basin/Drop Inlet	<input type="checkbox"/> Deterioration of Structure						
	<input type="checkbox"/> Clogged Inlets During or After Storm Event						
	<input type="checkbox"/> Deposits in Structure						
Storm Manhole	<input type="checkbox"/> Deterioration of Structure						
	<input type="checkbox"/> Deposits in Structure						
Storm Sewer Piping	<input type="checkbox"/> Clogged Pipe						
	<input type="checkbox"/> Deteriorated Pipe						
Ditches/Swales	<input type="checkbox"/> Excessive Vegetation						
	<input type="checkbox"/> Debris (branches, litter, garbage, etc.)						
	<input type="checkbox"/> Excessive Siltation						
Roadside/Cross Culverts	<input type="checkbox"/> Clogged Pipe						
	<input type="checkbox"/> Deteriorated Pipe						
BMPs	<input type="checkbox"/> Excessive Vegetation						
	<input type="checkbox"/> Debris (branches, litter, garbage, etc.)						
	<input type="checkbox"/> Excessive Siltation						



APPENDIX F

Municipal Owned Facilities Map



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

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August 4, 2022



STORMWATER MANAGEMENT PROGRAM EMPLOYEE TRAINING PROGRAM



Prepared For:

New Hanover Township

2943 North Charlotte Street
Gilbertsville, PA 19525
Montgomery County, Pennsylvania

Prepared By:



Cedarville Engineering Group, LLC

Pottstown, Pennsylvania | Pensacola, Florida

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Cedarville Engineering Group, LLC (CEG) is a **Federally Certified 8(a)/EDWOSB & DBE/WBE Company** specializing in civil engineering, environmental consulting, geospatial and construction services for federal, state, municipal, private and institutional clients. The CEG team of professionals ensure successful projects from concept to planning and design, through permitting and construction, to project acceptance, operations and maintenance. We deliver value through innovation.

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PROJECT OVERVIEW

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APPENDICES

APPENDIX A - Training and Education Tracking Sheet

1. INTRODUCTION

New Hanover Township has developed an Employee Training Program that focuses on educating Township employees as part of the Township Stormwater Management Program. The Employee Training Program was developed to further the goal of preventing or reducing the discharge of pollutants from municipal operations to the regulated Municipal Separate Storm Sewer System (MS4). The Employee Training Program is designed to comply with New Hanover Township's National Pollution Discharge Elimination System – Municipal Separate Storm Sewer System (NPDES MS4) Individual Permit No. PAG130020 issued by the Pennsylvania Department of Environmental Protection (PA DEP). More specifically, it will meet the measurable goals and criteria outlined in Minimum Control Measure (MCM) No. 6 – Pollution Prevention/Good Housekeeping – Best Management Practice (BMP) #3 of the NPDES MS4 permit.

2. TARGET AUDIENCE GROUPS

Education and training are important to help prevent stormwater pollution. New Hanover Township has developed procedures for the education and training of all relevant employees and contractors including the three (3) main target audiences employed with the Township:

- Public works staff
- Police and fire departments
- Administration

3. TRAINERS

The trainings may be conducted by New Hanover Township staff or outside personnel, depending on the nature of the topics covered. The person(s) conducting the trainings must be familiar with the NPDES MS4 permit requirements, along with the regular activities of the Township. The trainer's ability to contextualize the information to New Hanover Township will increase its applicability and aid in information retention for all trainees.



4. FREQUENCY

The trainings should be held at least annually. A higher frequency of trainings is recommended in order to heighten the awareness of stormwater management all year-round. Additional smaller trainings can be worked in with existing trainings that the Township already does as a refresher. With new hires and seasonal employees, it is recommended to implement employee training throughout the year strategically.

5. DOCUMENTATION

Each training must be documented in writing to be reported in the Annual MS4 Status Reports. **Appendix A** provides a training and education tracking sheet for record keeping. Documentation of trainings is important in order to demonstrate that the trainings officially occurred. In the event of an audit from the United States Environmental Protection Agency (USEPA) or an inspection by PA DEP, the Township must present this documentation to support the training requirements of the permit.

Table 1: Documentation Requirements

Documentation Items	✓ Date of the training
	✓ Attendee name(s)
	✓ Training presenter(s)
	✓ Topic(s) covered
	✓ Handouts (if applicable)

6. LOCATION

Trainings may be held at the Township building, on-site/in the field, at the wastewater treatment plant, or whichever is most appropriate for the topics that are covered. A classroom setting may be the ideal place to begin a training session, as it would allow for the easy distribution of NPDES MS4 permit information, background, and context in a controlled setting. Incorporation of a field component to supplement the classroom information would be valuable, as it would engage the trainees and allow them to actively participate in and practice what they have learned or reviewed. Trainings may also be virtual or recorded webinars depending on the topic. Refer to **Table 2** for suggestions.

7. TOPICS

Training topics will be tailored to each of the three (3) Township target audiences, but each will generally focus on topics such as: how stormwater pollution can be prevented or reduced with operation, inspection, maintenance, and repair activities associated with the municipal operations and facilities. The Township holds various in-house trainings on a variety of topics for each department on an annual basis. The Township can mesh MS4 training information into these existing training opportunities. Specific staff training topics for the three (3) Township target audiences (Public Works, Police, and Administration) may include the following.

7.1 Public Works

The Township public works staff are directly involved in the operations and maintenance of the Township MS4 infrastructure, sanitary sewer system, parks and recreational facilities, equipment repair, and property

maintenance. This target audience is the most directly applicable to the goals of the MS4 program. Public works-specific training topics may include:

- Recognizing, reporting, and locating the source of illicit dumping into the Township stormwater conveyance system;
- Identification and removal procedures for yard waste dumping in and adjacent to streams and the Township stormwater conveyance system;
- Proper disposal of waste removed during stormwater facility maintenance;
- Proper handling, storage, and disposal of hazardous materials;
- Vehicle and equipment washing techniques; and
- What to do in the event of a spill.



7.2 Police

The police department staff are often out and about in the Township, are first responders to incidents, and have a mission to keep the Township safe. This target audience consists of a large portion of Township staff that already receives annual training, which can be supplemented with MS4 topics. Police department staff-specific training topics may include:

- Recognizing, reporting, and locating the source of illicit dumping into the Township stormwater conveyance system.
- What to do in the event of a spill; and
- The basics of the MS4 permit.

7.3 Administration

The Township administrative department consists of all office staff at each of the Township -owned buildings. It is important to train administrative staff because of their consistent interactions with the public. Administration staff-specific training topics may include:

- Recognizing and reporting illicit dumping into the Township stormwater conveyance system; and
- The basics of the MS4 permit.

Table 2: Potential Field Training Locations

Training Locations	Suggested Training Activities
BMPs (i.e., basins)	Conduct mock inspections.
Municipal Facilities	Conduct mock inspections.
Residential Neighborhoods (i.e., inlets)	Walk around and discuss and/or locate potential sources of illicit discharge.
Outfalls	Conduct mock outfall field screening.

Each of the training topics listed above will identify:

- The individual responsible for implementation and oversight of the activities;
- The Department or group conducting the activities;
- Methods to be used to measure compliance;
- Records that must be maintained; and
- Whom to report activities and submit tracking records.

New Township employees should be trained on reporting protocols and forms, and current applicable technologies, including GIS applications. Existing staff should receive annual refreshers on reporting procedures and the software to ensure consistent and uniform documentation within the Township. Refer to **Table 3** below for a combined list of training topics for all.

Table 3: Training Topics

Pollution Prevention & Reduction Topics	
<ul style="list-style-type: none"> • Street sweeping. • Snow removal/de-icing. • Lawns/ground care. • General storm sewer system inspections and maintenance/repairs. • Park and open space maintenance. • Municipal building maintenance. • New construction and land disturbances. • Right-of-way maintenance. • Vehicle operation, fueling, washing, and maintenance. 	<ul style="list-style-type: none"> • Streets, roads, highways, parking lots, maintenance and storage yards, waste transfer stations, parks, fleet or maintenance shops, wastewater treatment plants, stormwater conveyances, riparian buffers, and stormwater storage or treatment units. • Illicit discharge detection and elimination. • Construction sites. • Hazardous materials. • Ordinance requirements. • Material transfer operations.

8. ANNUAL GOALS

The Township aims to provide that all current and incoming municipal employees are introduced to the NPDES MS4 permit requirements and the numerous municipal activities that contribute to the Township’s compliance. All applicable trainees must be trained annually, and all applicable topics mentioned above must be covered.

9. ANNUAL REPORTING AND ACCOMPLISHMENTS

The Township is required to submit Annual MS4 Status Reports to PA DEP by September 30th each year. These reports are available to the public by request at the Township building. Employee Training Program accomplishments will be reported in the Annual MS4 Status Reports.



APPENDIX A

Training and Education Tracking Sheet



Cedarville Engineering Group, LLC

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Training and Education Tracking Sheet

Seminar Date: _____
Seminar Location: _____
Instructor Name(s): _____
Instructor Affiliation: _____

Seminar Time: _____
Topics Covered: _____

Name & Title of Public Works Employees

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
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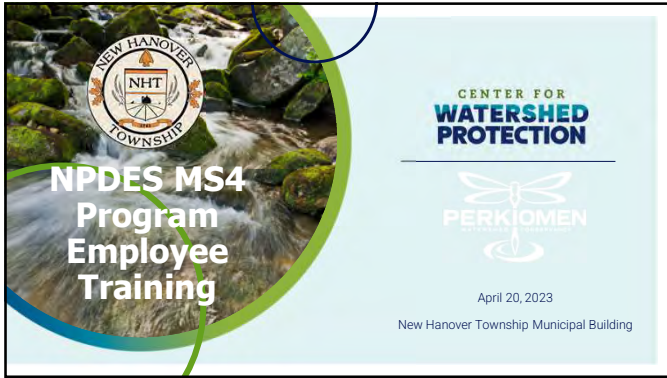
NPDES MS4 Program Training Sign-In

New Hanover Township, Montgomery County, PA
Municipal Building, 2943 N. Charlotte Street, Gilbertsville, PA 19525
April 20, 2023 at 10:00am

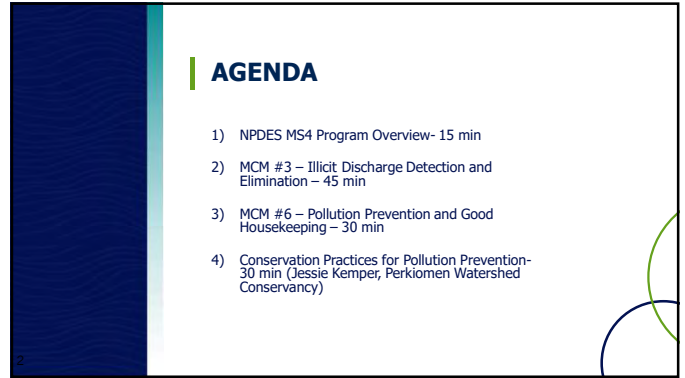


Name	Department	Email
Maggie Dobbs	Planning & Zoning	mdobbs@newhanover-pa.org
Tom Miskiewicz	Public works	
Zach Hendricks	Public works	
MATTHEW BECHTER	PUBLIC WORKS	
Jay Kowal	P/W.	
Randy Miller	Public works	
Kevin Snyder	PW	

Training conducted by Beth Uhler and Julie Schneider, Center for Watershed Protection in partnership with Jessie Kemper, Perkiomen Watershed Conservancy.



1



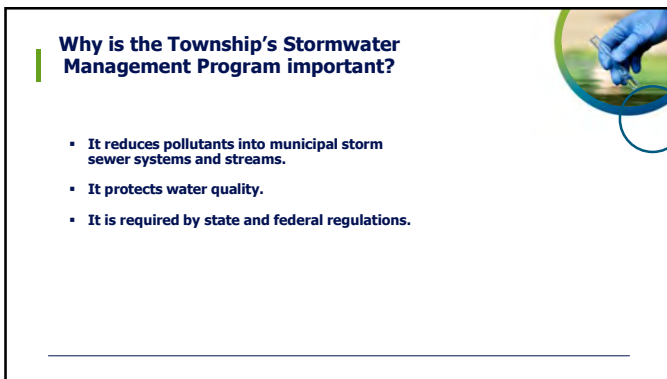
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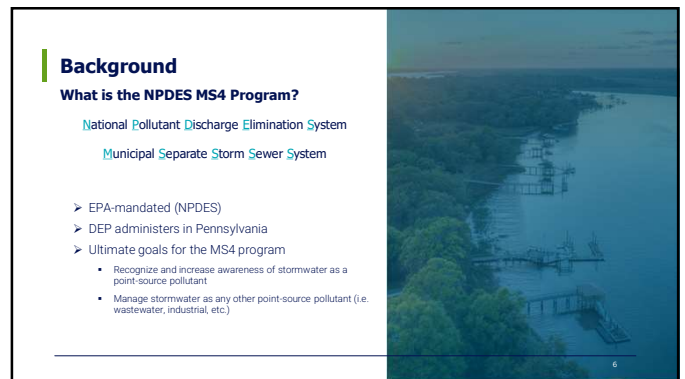
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4



5



6

Background

Permit Round 1 – 2003 - 2013

- Implement Best Management Practices (BMPs) under Six (6) Minimum Control Measures (MCMs)

Permit Round 2 – 2013 - 2018

- Continuation of MCMs
- Added Total Maximum Daily Load (TMDL) Requirements

Permit Round 3 – 2018 - 2023

- Continuation of MCMs
- Added Pollutant Reduction Plans & Pollutant Control Measures (PCMs) Requirements

7

Pollutant Reduction Plan (PRP)

Planning

5-year Implementation Period will not begin until PRP is approved.



Design & Construction

Must record annual progress towards achieving BMPs identified in your PRP.

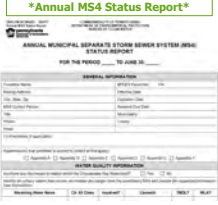


8

Minimum Control Measures

- Public Education & Outreach
- Public Involvement & Participation
- Illicit Discharge Detection & Elimination**
- Construction Site Stormwater Runoff Control
- Post Construction Stormwater Management for Development & Redevelopment
- Pollution Prevention/Good Housekeeping**

Annual MS4 Status Report



9

Public Education & Outreach (MCM #1)

Permit Requirements:

Written PEOP Program

- Review annually and update as needed.
- Plans and goals.

Target Audience Lists

- Review annually and update as needed.


Publish at least one (1) education item per year

- Website
- Newsletter

Distribute stormwater educational materials to target audiences using at least two (2) distribution methods per year

- Displays, posters, signs
- Pamphlets, booklets, brochures, mailings, fact sheets
- Radio, local TV, newspaper articles, other advertisements
- Presentations, conferences, meetings
- Workshops, giveaways, storm drain stenciling

DOCUMENT, DOCUMENT, DOCUMENT!!!



10

Public Involvement & Participation (MCM #2)

Permit Requirements:

Written PIPP Program



- Review annually and update as needed
- Identifies plans and goals
- Opportunities for the public to participate in decision-making processes
- Routine communication with watershed associations and other environmental organizations
- Make Progress Reports available to the public
 - Website
 - Township Building
 - By Mail, etc.

Public Input on Stormwater-Related Ordinances

At least one (1) Public Meeting

Stream clean-ups, volunteer plantings, community events, etc.

DOCUMENT, DOCUMENT, DOCUMENT!!!

11

Illicit Discharge Detection & Elimination (MCM #3)

Permit requirements:

Written IDD&E Program


Mapping

Outfall Field Screening

Ordinance Prohibiting Non-Stormwater Discharges into the MS4

- Must be consistent with DEP's 2022 Model Stormwater Management Ordinance and submitted to DEP by September 30, 2022

Educational outreach specific to IDD&E



12

Construction Site Runoff Control (MCM #4)



Erosion and Sediment Control
 Statewide program for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities through DEP, County Conservation District, and Municipality **SATISFIES** this permit requirement.

13

13

Post Construction Stormwater Management in New and Re-Development (MCM #5)

Permit requirements:

- Statewide Program for issuing NPDES Permits for Stormwater Discharges Associated with Construction Activities through DEP & the County Conservation District **SATISFIES A PORTION** of this permit requirement.
- Ordinance
- Low Impact Development (LID)
- PCSM BMP Inventory
- Written PCSM BMP Inspection Program **for BMPs approved after 2003** (Operations & Maintenance)



14

14

Pollution Prevention/Good Housekeeping (MCM #6)

Permit Requirements:

- **Written Operations & Maintenance Program**
 - Review annually and update as needed
 - Township-owned facilities and activities
- **Written Employee Training Program (for everyone!)**
 - Review annually and update as needed
 - Hold **one (1) Employee Training** per year (**you are completing this requirement as we speak!**)




15

15

MCM #3: Illicit Discharge Detection & Elimination

16

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MS4 Permit Requirements for Illicit Discharge Detection and Elimination

6 Best Management Practices (BMPs)

- BMP #1:** Written IDD&E Program
- BMPs #2 and #3:** Mapping
- BMP #4:** Dry Weather Outfall Field Screening
- BMP #5:** Ordinance prohibiting Non-Stormwater Discharges into the MS4
- BMP #6:** Educational outreach specific to IDD&E




17

17

MCM #3 - IDDE

What is an Illicit Discharge?

- Any discharge (or seepage) to a MS4 that is not composed entirely of stormwater.
 - Does not refer to discharges authorized under a NPDES permit.
 - This includes pet waste, leaking dumpsters, grass clippings, sediment runoff from construction sites, parking lot trash, leaf litter, etc.

18

18

How do you detect an Illicit Discharge?

What to look for:

- Discoloration
- Clarity/sedimentation
- Oily sheen
- Odor
- Floating solids
- Suspended solids
- Foam
- Other visible indicators of pollution




EXAMPLES.....

19

Motor vehicle fluids (oil, etc.) Soaps, detergents

Color: Rainbow sheen
Odor: Petroleum or gasoline smell




Color: White, grey, cloudy
Odor: Laundry detergent, soaps, or none at all




20

Sediment Sewage

Color: Brown, orange/yellow, "chocolate milk"
Odor: None



Color: Grey
Odor: Sulfur, fecal matter



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WHAT DO YOU DO WHEN YOU SEE AN ILLICIT DISCHARGE?

Resident: Call Township
Public Works: Report to MS4 point person

DOCUMENT!!! DOCUMENT!!! DOCUMENT!!!



22

IDD&E Outfall Field Screening

What is an Outfall?

- A point source where an MS4 discharges stormwater to surface waters.

How often?

- Once per permit term
- Priority Areas and known Continual Dry Weather Flows: Annually


When?

- "Dry weather" is anytime following the initial 48 hours after a stormwater producing event.

What?

- Dry weather flows
- Color, Turbidity, Sheen, Floating or submerged solids, Odor

Sampling
Compliance & Enforcement per IDD&E Program
Documentation, documentation, documentation.



23

Priority Outfall Area Identification

Procedure for identification


- Areas with a higher likelihood of illicit discharges, connections or illegal dumping

Example areas:

- Containing older infrastructure
- Concentration of high-risk activities
- History of water pollution

Procedure for screening outfalls

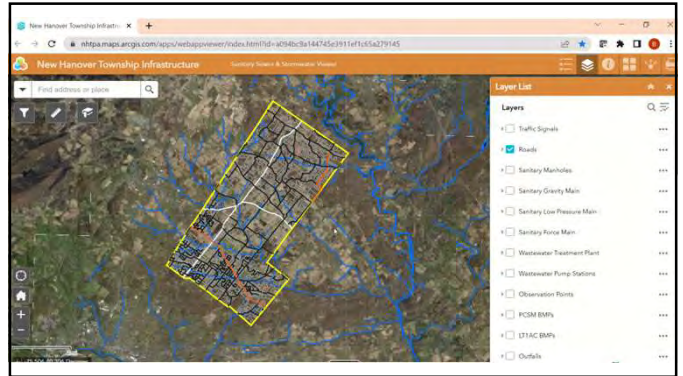
- Dry weather screening
- Lab sampling and testing



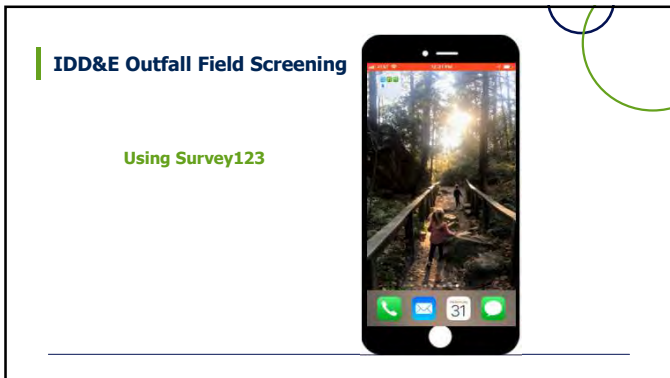
24



25



26



27

MS4 OUTFALL FIELD SCREENING REPORT

3800-FM-81CW0621 12/2018
MS4 Outfall Field Screening Report
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

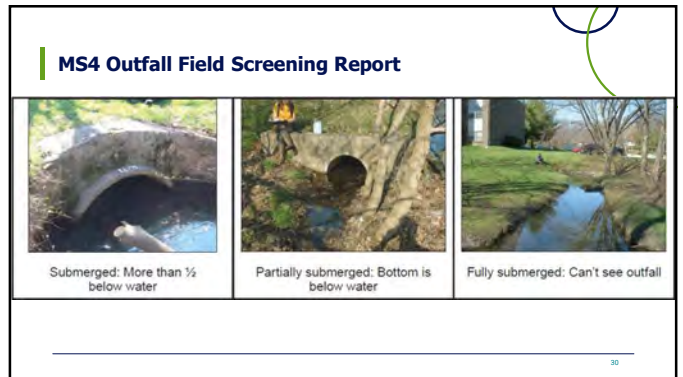
BACKGROUND INFORMATION	
Permittee Name:	NPDES Permit No.: PA
Date of Inspection:	Outfall ID No.:
Land Uses in Outfall Drainage Area (Select All):	Latitude: _____
<input type="checkbox"/> Industrial	<input type="checkbox"/> Urban Residential
<input type="checkbox"/> Commercial	<input type="checkbox"/> Suburban Residential
<input type="checkbox"/> Open Space	<input type="checkbox"/> Other:
Inspector Name(s):	Longitude: _____
	Dry Weather Inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Date of Previous Precipitation:
	Amount of Previous Precipitation: in
	Were Photographs Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Are Photographs Attached? <input type="checkbox"/> Yes <input type="checkbox"/> No

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MS4 Outfall Field Screening Report




OUTFALL DESCRIPTION				
TYPE	MATERIAL	SHAPE	DIMENSIONS	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other	<input type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other <input type="checkbox"/> Other	Diameter: _____ in	<input type="checkbox"/> In Water <input type="checkbox"/> With Sediment
<input type="checkbox"/> Open Channel	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> Rip-Rap <input type="checkbox"/> Other	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other	Depth: _____ in Top Width: _____ in Bottom Width: _____	

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MS4 Outfall Field Screening Report

Trickle Flow: Very narrow stream of water

Moderate Flow: Steady stream, but very shallow depth

Significant flow (Source is a fire hydrant discharge)

Dry Weather Flow Present at Outfall During Inspection? Yes No (If No, skip to Certification Section)

Description of Flow Rate: Trickle Moderate Significant N/A

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MS4 Outfall Field Screening Report

DRY WEATHER FLOW EVALUATION

Does the dry weather flow contain color? Yes No If Yes, provide a description below.

Does the dry weather flow contain an odor? Yes No If Yes, provide a description below.

Is there an observed change in the receiving waters as a result of the discharge? Yes No If Yes, provide a description below.

Does the dry weather flow contain floating solids, scum, sheen or substances that result in deposits? Yes No If Yes, provide a description below.

32

MS4 Outfall Field Screening Report

Were sample(s) collected of the dry weather flow? Yes No (If Yes, No. Samples: _____)

FIELD / LABORATORY ANALYSIS					
PARAMETER	RESULTS	UNITS	PARAMETER	RESULTS	UNITS
Flow Rate		GPM	Fecal Coliform		No./100 mL
pH		S.U.	COD		mg/L
Total Residual Chlorine (TRC)		mg/L	BOD5		mg/L
Conductivity		µmhos/cm	TSS		mg/L
Ammonia-Nitrogen		mg/L	TDS		mg/L
Other: _____			Oil and Grease		mg/L
Other: _____			Other: _____		

Indicate the parameters above that were analyzed by a DEP-certified laboratory.

33

MS4 Outfall Field Screening Report

ILLICIT DISCHARGES

Is the dry weather flow an illicit discharge? Yes No

If Yes, describe efforts made to determine the source(s) of the illicit discharge.

Describe corrective actions taken by the permittee in response to the finding of an illicit discharge.

Inspector Comments:

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MS4 Outfall Field Screening Report

RESPONSIBLE OFFICIAL CERTIFICATION

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 assure that qualified personnel properly gathered and evaluated 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Responsible Official Name _____ Signature _____

Telephone No. _____ Date _____

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MS4 Outfall Field Screening Report

Sampling / Laboratory Analysis

Common Test Parameters:

- pH
- Conductivity
- Fecal Coliform bacteria
- Heavy Metals
- Chemical Oxygen Demand (COD)
- 5-day Biochemical Oxygen Demand (BOD5)
- Total Suspended Solids (TSS)
- Total Dissolved Solids (TDS)
- Oil and Grease
- Total Residual Chlorine (TRC)
- Ammonia-nitrogen

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MCM #3 - IDD&E Stormwater Management Ordinance

Prohibited Discharges
"Any drain or conveyance, whether on the surface or subsurface, that allows any non-stormwater discharge, including sewage, process wastewater, and wash water to enter the municipality's separate storm sewer system or the waters of the commonwealth is prohibited."

Prohibited Connections
*"Any drain or conveyance, whether on the surface or subsurface, that allows any non-stormwater discharge, including sewage, process wastewater, and wash water, to enter a separate storm sewer system, and any connections to the separate storm sewer system from indoor drains and sinks."
 "Any drain or conveyance connected from a commercial or industrial land use to a separate storm sewer system, which has not been documented in plans, maps, or equivalent records and approved by the municipality."*

39

Eliminating an Illicit Discharge

Voluntary Compliance

Enforcement

- Enforcement Notice
- Notice of Violation
- Citation
- Cease & Desist Order
- Penalties and fines

Program Documentation

40

MCM #3 - IDD&E Stormwater Management Ordinance

Authorized Discharges

- Discharges or flows from firefighting activities.
- Discharges from potable water sources, including dechlorinated water line and fire hydrant flushing if such discharges do not contain detectable concentrations of total residual chlorine (TRC).
- Noncontaminated irrigation water, water from lawn maintenance, landscape drainage and flows from riparian habitats and wetlands.
- Diverted stream flows and springs.
- Noncontaminated HVAC condensation and water from geothermal systems.
- Residential (i.e., not commercial) vehicle wash water where cleaning agents are not utilized.
- Noncontaminated pumped groundwater and water from foundation and footing drains and crawl space pumps.
- Noncontaminated hydrostatic test water discharges if such discharges do not contain detectable concentrations of TRC.

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MCM #6: Pollution Prevention & Good Housekeeping

42

HOW CAN YOU PREVENT ILLICIT DISCHARGES FROM MUNICIPAL FACILITIES?

43

MCM #6 Pollution Prevention and Good Housekeeping

Goal of the Operation & Maintenance (O&M) Program is:

- to prevent/reduce pollutants from municipal operations to the maximum extent practical.

44

Good Housekeeping

- Maintain a clean and orderly work environment.
- Prevent pollutant discharges into floor drains.
- Regularly inspect and maintain equipment.
- Proper chemical storage.
- Have spill clean-up materials present and accessible.

45

Hazardous Spill Clean-up Sheet

Inventory Sheet No. _____ Date of Spill _____
 Storage Facility Name & Address _____
 Preparer Name(s) _____ Time of Spill _____

What was spilled and how much?
 Approximately 1/2 gallon of oil.

How long after the spill occurred did clean-up operations commence?
 Within 5 minutes.

How was the spill cleaned up and how was the material disposed of?
 Oil dry powder was applied to the spill and given time to absorb. The powder was swept up and disposed of in a sealed bag.

Are there any other actions that need to be undertaken regarding this spill?
 No.

Contractor/Public Works Personal Contact Information
 Employee Name _____
 Phone Number _____
 Address _____

Additional Comments _____

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Materials Storage & Handling

- Containers, drums, and bags stored away.
- All chemicals stored in a designated cabinet.
- Chemical, fluids and supplies kept indoors.
- If outside, containers to be covered and placed on platforms.
- Contain spill with dike, berm, or absorbent materials and dispose of properly after use.

47

Materials Log

Year: _____
 Municipality: _____



Material	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC
Salt (amount used)												
Yard Waste (amount collected)												
Street Sweeping (amount collected)												
Other												
Other												

48

Stormwater Inspections

What to inspect:


- BMPs
- Storm Drain Inlets
- Storm Sewer Piping, Drainage Channels, and Outfalls

49

Township-Owned Stormwater BMPs

- **Inspect after severe weather to ensure proper functioning.**
- **All inspections, results, and recommendations are to be documented.**



50

Storm Drain Inlets

- **Inspect to determine trash/sediment load and overall condition of the structure.**
- **Check for evidence of illegal dumping or illicit discharges.**

Document!!!
Document!!!
Document!!!




51

Storm Sewer Piping, Drainage Channels, and Outfalls

Inspect for:

- Trash, debris
- Sediment build-up
- Obstructions, and
- Water quality

Document!!!
Document!!!
Document!!!



52

Storm Sewer System O&M Form

Storm Sewer System Operation & Maintenance Form


Date of Inspection: _____ Facility Name: _____
Inspector: _____ Facility Location: _____

Component/Phase to Check	Problems Observed	Maintenance/Repairs Necessary			Comments	Location (Phase & Details from Worksheet)
		Yes	No	N/A		
Catch Basin/Drain Inlet	<input type="checkbox"/> Obstruction of Inlet					
	<input type="checkbox"/> Clogged Inlets During or After Storm Events					
Storm Manhole	<input type="checkbox"/> Deposits in Structure					
	<input type="checkbox"/> Deterioration of Structure					
Storm Sewer Piping	<input type="checkbox"/> Deposits in Structure					
	<input type="checkbox"/> Clogged Pipe					
Ditches/Swales	<input type="checkbox"/> Deteriorated Pipe					
	<input type="checkbox"/> Excessive Vegetation					
Roadside/Cross Culverts	<input type="checkbox"/> Debris (branches, litter, garbage, etc.)					
	<input type="checkbox"/> Excessive Erosion					
	<input type="checkbox"/> Clogged Pipe					
	<input type="checkbox"/> Deteriorated Pipe					

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Municipal Vehicle Maintenance

- **Store oils, grease, and lubricants indoors.**
- **Use dry cleanup methods for spills instead of hosing down work areas.**
- **Recycle materials when possible.**
Antifreeze, used oil, mineral spirits, solvents, etc.
- **Inspect vehicles for leaks.**



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Municipal Facility O&M Form

Category	Inspection/Screening/Event	Frequency	Responsible Party	Inspection/Screening/Event Date	Inspection/Screening/Event Status
Stormwater Management	Annual Stormwater Management Plan (SWMP) Review	Annual	Public Works		
	Annual Stormwater Management Plan (SWMP) Update	Annual	Public Works		
	Annual Stormwater Management Plan (SWMP) Implementation	Annual	Public Works		
	Annual Stormwater Management Plan (SWMP) Reporting	Annual	Public Works		
Pollution Prevention	Annual Pollution Prevention Plan (PPP) Review	Annual	Public Works		
	Annual Pollution Prevention Plan (PPP) Update	Annual	Public Works		
	Annual Pollution Prevention Plan (PPP) Implementation	Annual	Public Works		
	Annual Pollution Prevention Plan (PPP) Reporting	Annual	Public Works		
Public Works	Annual Public Works Inspection	Annual	Public Works		
	Annual Public Works Screening	Annual	Public Works		
	Annual Public Works Event	Annual	Public Works		
	Annual Public Works Reporting	Annual	Public Works		

55


EPA Audits/DEP Inspections

Non-compliance is costly

- Four central PA communities were fined in 2010 by EPA for stormwater violations. One community was fined \$177,500.

What do they want to see?

- Clean workspaces
- Labeled chemicals/containers
- Signage
- Preparedness for spills
- DOCUMENTATION!!!**



56

EPA Audits/DEP Inspection

Are you ready?

O&M Program is there to help when EPA/DEP comes!

IMPORTANT to keep records and documents of repairs, events, or anything pertaining to the stormwater system.

57

Tips

- Designate a Public Works staff member to conduct more frequent routine inspections.
- Always DOCUMENT inspections, screenings and O&M activities.
- Don't just write it down. Take PHOTOS.
- Notify Supervisor/Manager immediately if there appears to be an illicit discharge and/or safety concern.

58

Resources

- Perkiomen Watershed Conservancy (PWC)
- Montgomery County Planning Commission (MCPC)
- Montgomery County Conservation District (MCCD)
- PA Department of Environmental Protection (PA DEP)
- Center for Watershed Protection (CWP)**


59



60

About the Perkiomen Watershed Conservancy

- Founded in 1964 with the goal of preserving and protecting the natural resources of the Perkiomen Creek Watershed.
- The watershed is 362 square miles and encompasses 55 municipalities in 4 PA counties.
- Environmental conservation, education and outreach programs reach thousands of people each year!



61

Our MS4 Program

- Annual membership available to municipalities within the watershed.
- Member municipalities receive benefits to help address MCMs and reduce pollution.
- Membership levels:
 - Benefactor - \$1,000
 - Educational articles
 - Stormwater statistics package
 - Grant program
 - Rain barrel workshop
 - Municipal workshop
 - Patron - \$500
 - Educational articles
 - Stormwater statistics package
 - Promoter - \$250
 - Educational articles



62

Landscaping and Lawn Maintenance

- **Recommended BMPs:**
 - Mulch-mow grasses wherever possible.
 - Mow with sharpened blades set to 3 inches.
 - Sweep grass clippings from sidewalks or streets back onto grassy areas.
 - Dispose of organic wastes by composting whenever possible.
 - Do not wash down or dispose of landscape waste in or near a storm drain, drainage ditch or body of water.
 - Irrigate with the minimal amount of water needed.
 - Create a "no-mow zone" adjacent to water ways.
 - Plant with native species!



63

Pesticides and Fertilizers

- **Recommended BMPs:**
 - Follow all manufactures recommendations for application and storage – never over apply!
 - Do not apply before or during rainy weather.
 - Regularly inspect, maintain and calibrate all application equipment.
 - Purchase only enough lawn care products for one year and store properly.
 - Never apply within 5 ft. of pavement, 25 ft. of a stormwater inlet, or 50 ft. of a waterbody.



64

Stormwater Management at Home

- **Recommended BMPs:**
 - Keep storm drains clear of trash and debris.
 - Wash your car at a car wash.
 - Pick-up after your pets.
 - Increase your garden area and decrease your lawn area.
 - Plant with native species!
 - Mulch grass clippings and leaves into your yard.
 - Limit your pesticide, fertilizer and salt use.



65

Green Infrastructure

- Captures and cleans the rain where it falls.
- Slows the flow of water so it can filter into the ground.
- Instead of relying on a centralized network of sewers, green infrastructure can be spread out throughout a community.
- Provides benefits for the community:
 - Beautifying neighborhoods
 - Supporting pollinator species and other wildlife
 - Creating green spaces for recreation
 - Reducing flooding
 - Cleaning the air



66

Types of Green Infrastructure


- Rain barrels
- Green roofs
- Permeable pavement
- Rain gardens / Bioswales
- Riparian buffers



67

Rain Barrels

- Rain barrels capture rain water from your roof before it can become polluted runoff.
- Conservancy partners with municipalities to host rain barrel workshops throughout the year.
- We provide all the necessary equipment and handle registration.
- Hosted at a township location of your choosing.



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Rain Gardens / Bioswales

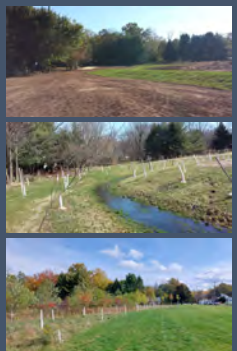
- Bowl shaped gardens designed to capture, slow and infiltrate stormwater.
- PWC installs at least 2 rain gardens / bioswales per year within local municipalities.
- PWC creates a planting plan, recruit volunteers, plant and maintain the gardens.
- Projects are funded through grants.



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Riparian Buffers

- A vegetated area near a body of water that helps to shade and protect the waterway from nearby land uses.
- Essential for a healthy stream, provides habitat and acts as a sponge.
- PWC partners with municipalities to install riparian buffers every fall.
- PWC submits the grant, selects species, recruits volunteers, plants and maintains the trees.
- Projects are funded through TreeVitalize grant.



70

Upcoming Conservancy Events


- Perkiomen Stream Clean-up: Saturday, April 15th, 9 am – 12 pm
- Lenape Challenge: Saturday, April 29th, 8 am – 12 pm
- Native Plant Sale: Saturday, May 13th, 9 am – 4 pm & Sunday, May 14th, 9 am – 1 pm



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THANK YOU

<p>Beth Uhler Pennsylvania Director Center for Watershed Protection beu@cwpp.org 484-680-0806</p>	<p>Julie Schneider Watershed Planner Center for Watershed Protection jas@cwpp.org 410-696-3971</p>	<p>Jessie Kemper Director of Conservation Perkiomen Watershed Conservancy jkemper@perkiomenwatershed.org 610-287-9383</p>
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72



ANNUAL MS4 STATUS REPORT
NEW HANOVER TOWNSHIP

ATTACHMENT F
POLLUTANT REDUCTION PLAN PROGRESS



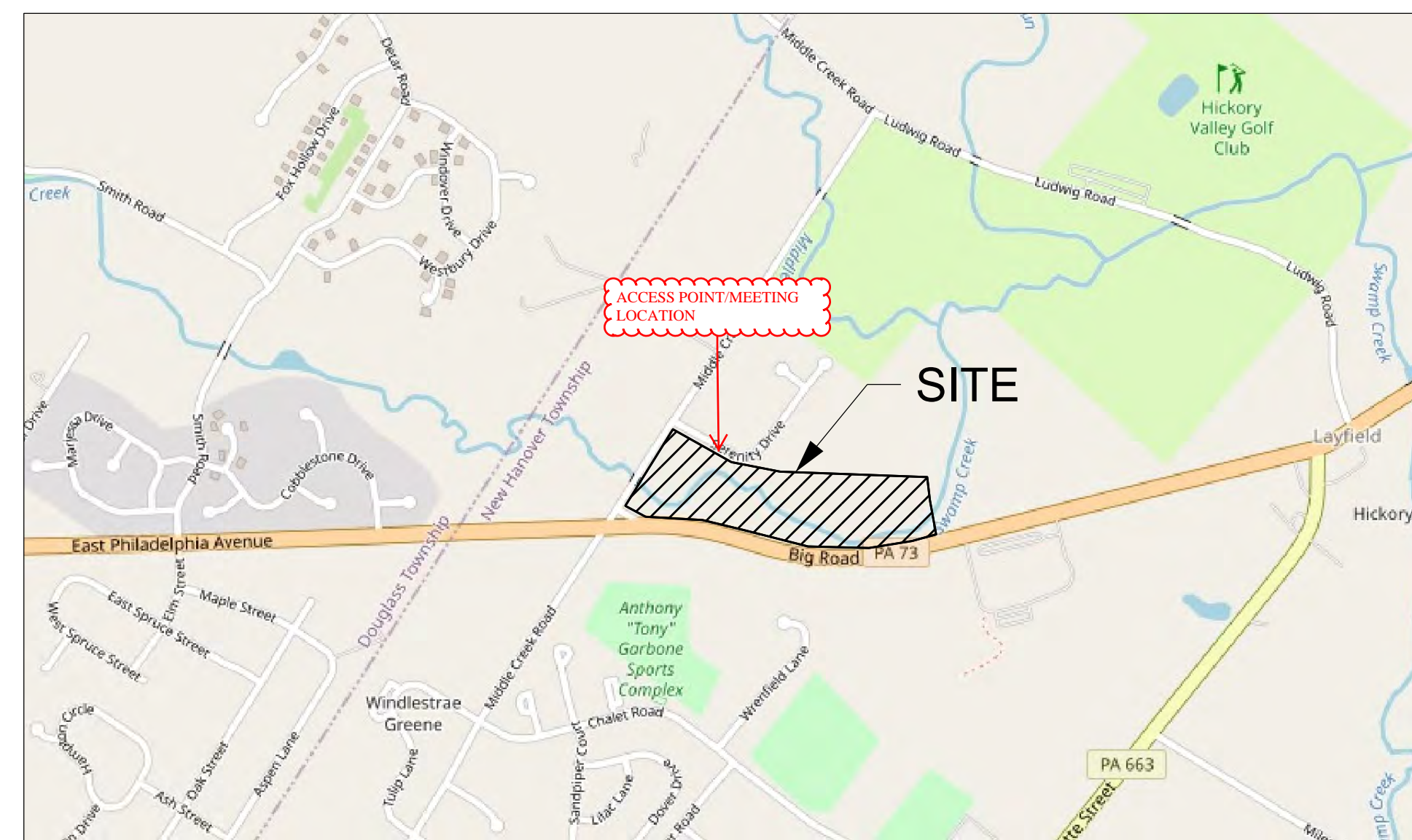
Center for Watershed Protection, Inc.
11711 East Market Pl, Suite 200
Fulton, MD 20759
<https://www.cwp.org>

SWAMP CREEK STREAM RESTORATION

PARCEL ID: 47-00-05022-54-5
NEW HANOVER, PA

PREPARED FOR:
NEW HANOVER TOWNSHIP
2943 NORTH CHARLOTTE STREET
GILBERTSVILLE, PA 19525-9718

JANUARY 2022



VICINITY MAP
1"=1000'

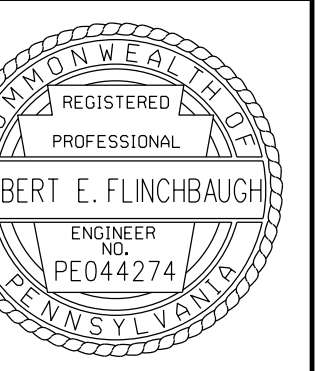
OWNER:
NEW HANOVER TOWNSHIP
2943 NORTH CHARLOTTE STREET
GILBERTSVILLE, PA 19525-9718

ENGINEER/PLAN PREPARER:
CEDARVILLE ENGINEERING GROUP LLC
159 E. HIGH STREET
POTTSTOWN, PA 19464
PHONE: 610-705-4500

SITE ADDRESS:
SWAMP CREEK
PARCEL ID: 47-00-05022-54-5
NEW HANOVER, PA

DRAWING NUMBER	DRAWING TITLE	DRAWING SCALE
C-1	COVER SHEET	NTS
C-2	EXISTING FEATURES PLAN	1"=40'
C-3	STREAM RESTORATION PLAN	1"=40'
C-4	STREAM PROFILE AND SECTION PLAN	AS NOTED
C-5	EROSION AND SEDIMENT CONTROL PLAN	1"=40'
C-6	EROSION AND SEDIMENT CONTROL NOTES/ DETAILS - 1	NTS
C-7	EROSION AND SEDIMENT CONTROL NOTES/ DETAILS - 2	NTS
C-8	EROSION AND SEDIMENT CONTROL LANDSCAPE/ PLANTING PLAN	1"=40'
C-9	EROSION AND SEDIMENT CONTROL LANDSCAPE/ PLANTING DETAILS	NTS

MARK	COMMENT	REVISIONS	DATE
1	MCCD REVIEW LETTER DATED 03/14/22		07/19/22



SITELINE IN
NEW HANOVER TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA
COVER SHEET
PREPARED FOR
NEW HANOVER TOWNSHIP
PROJECT NAME
SWAMP CREEK STREAM RESTORATION

DESIGNED BY: xxx/xxx
DRAWN BY: MJC/MMG
CHECKED BY: BMF
PROJECT NO. NHT-21-205
DATE: 01/12/2021
SCALE: NTS

SHEET 1 OF 9

C-1



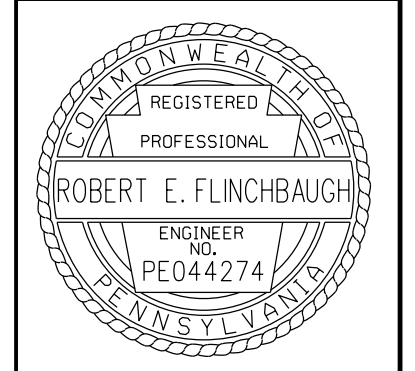
LEGEND:

EXISTING CONTOUR	--- --
100-YEAR FLOODPLAIN	--- --
APPROXIMATE TOP OF BANK	--- --
RIPARIAN BUFFER	--- --
EDGE OF TREES	--- --
EXISTING FOOT PATH	--- --
EDGE OF ROAD	--- --
FLOODWAY	--- --

- GENERAL NOTES:**
- EXISTING TOPOGRAPHY AND OTHER SURFACE INFORMATION TAKEN FROM A FIELD SURVEY PERFORMED BY CEDARVILLE ENGINEERING GROUP, LLC, IN AUGUST 2021.
 - GROUND SURVEY CONTROL WAS PERFORMED BY CEDARVILLE ENGINEERING GROUP, LLC. ELEVATIONS SHOWN ARE EXPRESSED IN US SURVEY FEET AND ARE BASED ON NAVD 83 AND HORIZONTAL LOCATIONS ARE BASED ON PENNSYLVANIA NAD 83, SOUTH ZONE (US SURVEY FEET).
 - LOCATIONS OF ALL UNDERGROUND UTILITIES ARE APPROXIMATE. ALL LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE AND ACCESSIBLE IN THE FIELD. THE MAPS LISTED IN THE REFERENCES AT THE TIME OF SURVEY, AVAILABLE AS-BUILTS, AND STRUCTURES BEFORE ANY EXCAVATION IS TO BEGIN. ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED TO THEIR LOCATION, SIZE, AND TYPE BY THE PROPER UTILITY COMPANY.

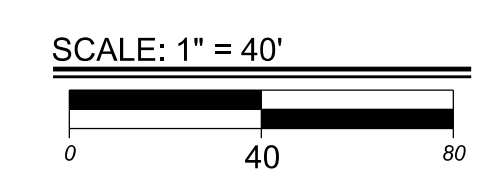
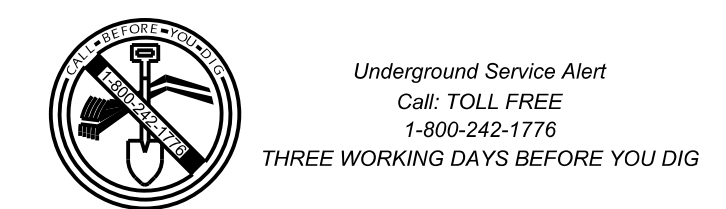
MARK	COMMENT	REVISIONS	DATE
1	MCCD REVIEW LETTER DATED 03/14/22		07/19/22

CEG CEDARVILLE
 CIVIL ENGINEERING • ENVIRONMENTAL SERVICES
 • SURVEYING • CONSTRUCTION
 159 East High Street, Suite #500 | Pottstown, PA 19464
 610.705.4500 (Office) | 610.705.4900 (Fax)



SITUATED IN
 NEW HANOVER TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA
 PREPARED FOR
EXISTING FEATURES PLAN
 PROJECT NAME
NEW HANOVER TOWNSHIP
SWAMP CREEK STREAM RESTORATION

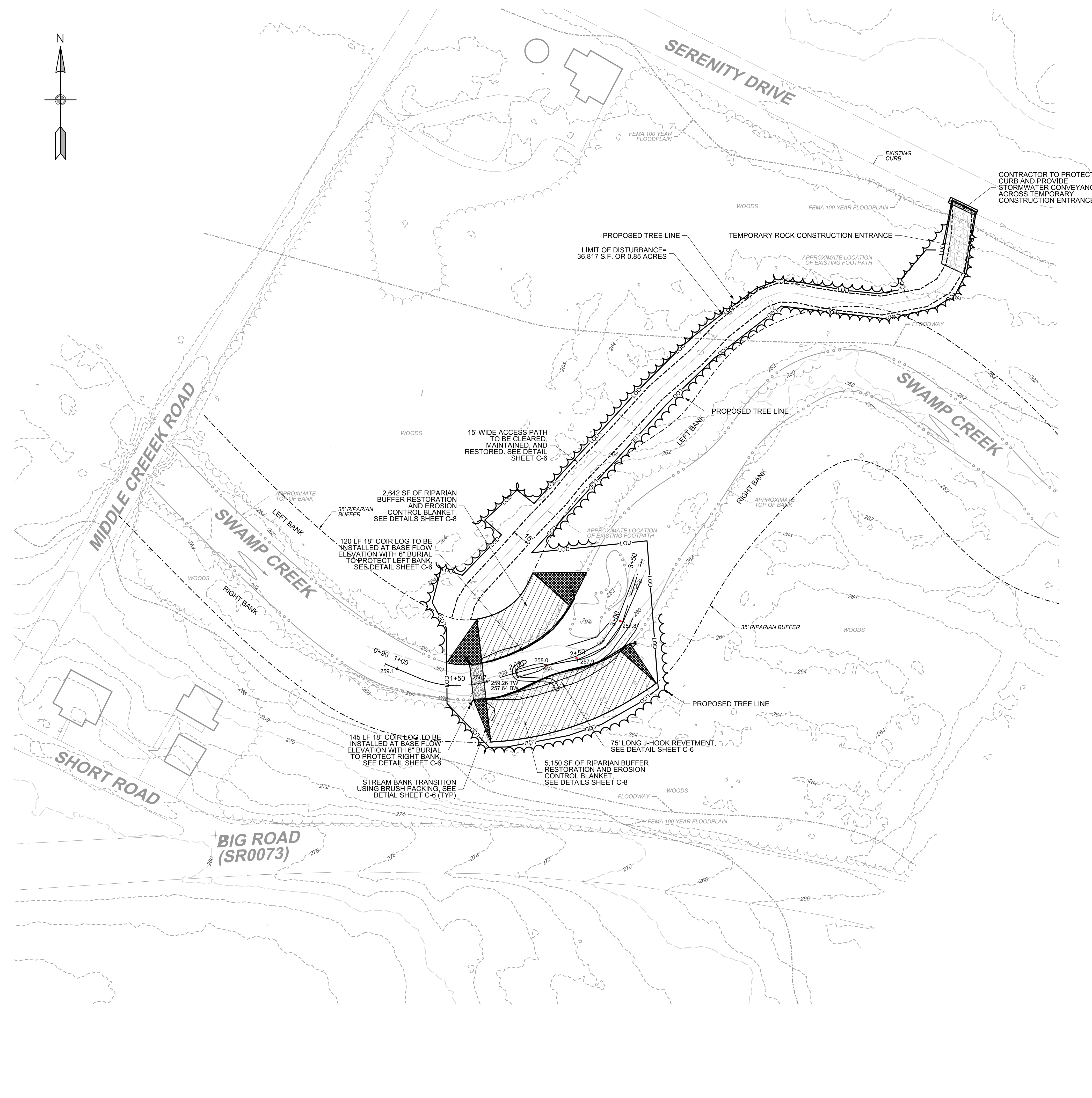
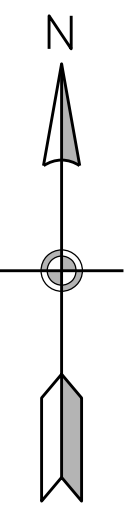
DESIGNED BY:	XXX/XXX
DRAWN BY:	MJC/MMG
CHECKED BY:	BMF
PROJECT NO.	NHT-21-205
DATE:	01/12/2021
SCALE:	1"=40'



SHEET **2** OF **9**

C-2

P:_Design\NHT-21-205_Swamp_Creek_Stream_Restoration_Design_and_Promoting\SheetC201.dwg (12/16/2021) 4:00 PM



CONSTRUCTION NOTES:

1. DUE TO IRREGULARITY OF ROCK SHAPES, CONTOURS DEPICTING GRADING WITHIN STRUCTURES ARE APPROXIMATE. SPECIFICATIONS FOR GRADING ARE PROVIDED IN TYPICAL SECTIONS AND CONSTRUCTION DETAILS. THE CONSTRUCTION DETAIL SPECIFICATIONS TAKE PRECEDENCE OVER THE CONTOURS ON THE STREAM RESTORATION PLAN.
2. TREE PROTECTION FENCING SHALL BE PLACED AROUND ALL AREAS OF TREES TO BE PRESERVED ADJACENT TO THE LIMITS OF DISTURBANCE (LOD).
3. IT IS ASSUMED THAT ALL TREES WITHIN THE LOD WILL BE REMOVED. PRIOR TO CONSTRUCTION THE LOD SHALL BE WALKED BY THE ENGINEER AND CONTRACTOR TO CONFIRM TREE REMOVAL AND MATERIAL PRESERVATION. IN THE EVENT THAT THE CONTRACTOR BELIEVES A TREE WITHIN THE LOD COULD BE SAVED OR UTILIZED, THE CONTRACTOR SHALL CONTACT THE ENGINEER.
4. TREES SHALL BE FELLED, TO PREVENT DAMAGE TO ADJACENT TREES TO BE PRESERVED, TREES SHALL BE CUT IN SECTIONS FROM TOP DOWN (NOT BE FELLED IN ONE BASE CUT).
5. WORK TO BE LIMITED TO WITHIN THE EXISTING CHANNEL AND LOD TO THE EXTENT PRACTICABLE USING SUITABLE TRACKED EQUIPMENT TO LIMIT IMPACT TO TREES.
6. CONTRACTOR SHALL SALVAGE EXISTING STREAM BED MATERIAL AS CONSTRUCTION PROGRESSES AND REPLACE IN THE RESTORED STREAM AS SHOWN ON THE TYPICAL CROSS SECTION DETAIL (REFER TO CONSTRUCTION DETAILS).
7. SLOPES EXCEEDING 2:1 (H:V) AT THE LIMITS OF RESTORATION TO BE PROTECTED WITH BRUSH PACKING AND RIP RAP UNDERLAIN WITH GEOTEXTILE FABRIC.
8. STREAM FLOWS TO BE DIVERTED USING TWO (2) 36" DIVERSION PIPES THROUGH THE LEFT BANK AREA. CONTRACTOR TO PROVIDE BYPASS, PUMPING PLAN IN ACCORDANCE WITH SECTION 01500.01 OF THE SPECIFICATIONS.

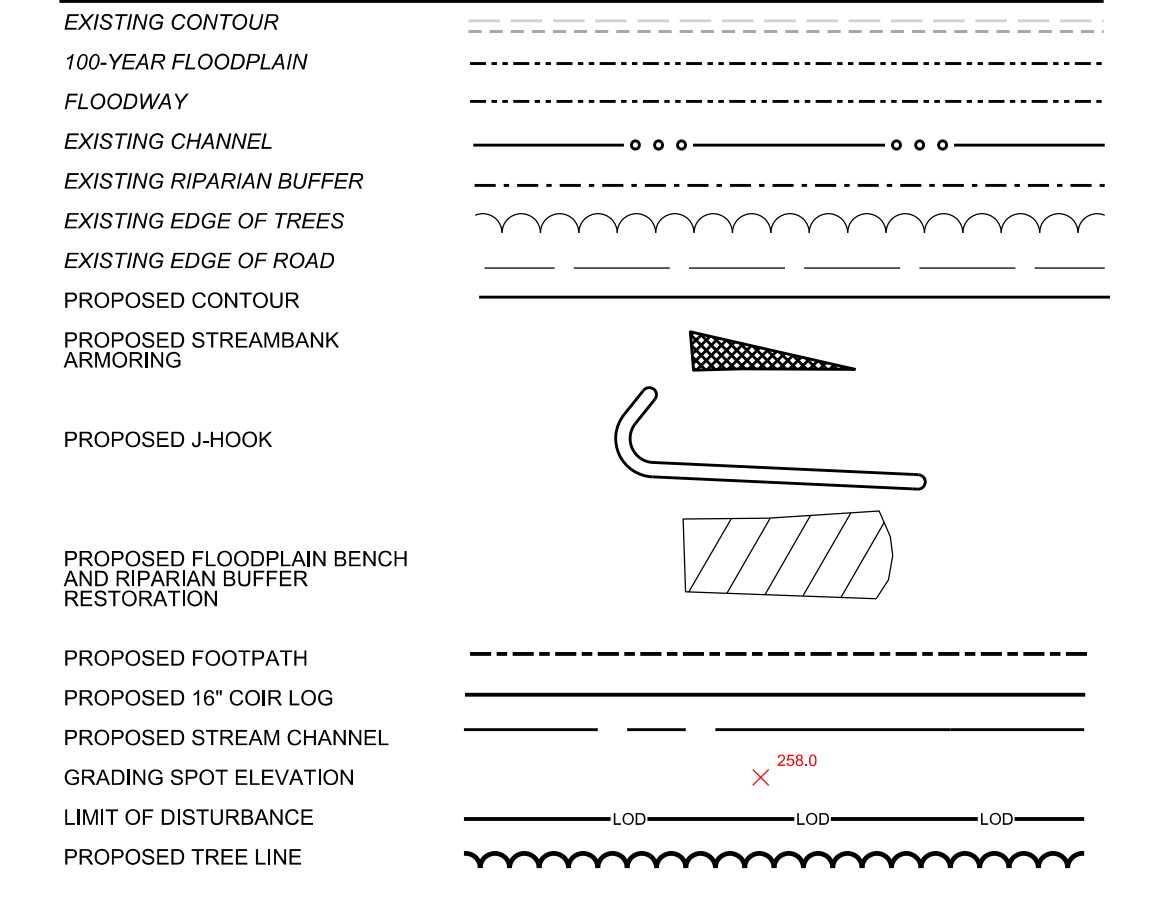
J-HOOK STRUCTURE NOTES:

1. STRUCTURE ROCK SHALL BE NATURALIZED, ROUNDED, AND SOURCED LOCALLY.
2. HEADER AND FOOTER ROCKS SHALL HAVE A MINIMUM DIMENSION OF 18 INCHES, INTERMEDIATE DIMENSION OF AT LEAST 36 INCHES, AND LONGEST DIMENSION OF AT LEAST 48 INCHES. EACH ROCK TO WEIGH A MINIMUM OF 400 LBS.
3. REFER TO TYPICAL CROSS-SECTION DETAILS FOR PLACEMENT OF COIR FABRIC ALONG THE STREAM BANKS.
4. BACKFILL BETWEEN J-HOOK AND BANKS WITH SUBSTRATE MATERIAL EXCAVATED FROM THE CHANNEL.
5. STRUCTURE SHALL BE UNDERLAIN WITH WOVEN OR NON-WOVEN POLYPROPYLENE GEOTEXTILE, SUCH AS MRFRAT 700x, MRFRAT 1020, FILTERWEAVE 500, NORSO, OR APPROVED EQUAL. THE FABRIC SHALL HAVE PUNCTURE RESISTANCE GREATER THAN 100 LBS, APPARENT OPENING SIZE GREATER THAN U.S. 70 SIEVE, AND 30 LBS. OF TENSILE STRENGTH AT 20% (MAXIMUM).
6. ALL FOOTER ROCKS SHALL BE EMBEDDED A MINIMUM OF 18 INCHES BELOW STREAM INVERT. SMALLER ROCKS MAY BE USED, AS APPROVED BY THE FIELD ENGINEER, BUT THIS MAY REQUIRE MORE THAN 2 ROWS OF ROCKS.

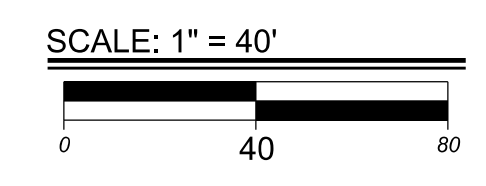
STREAM RESTORATION NOTES:

- 100 LF OF STREAM RESTORATION TO INCLUDE:
- J-HOOK VANE TO CONTROL EROSION FORCES AND PROVIDE HABITAT
 - STREAM BANK RESTORATION WITH RIPARIAN BUFFER PLANTINGS TO REDUCE EROSION POTENTIAL
 - FLOOD PLAN BENCHES TO INCREASE FLOOD WATER CAPACITY (RECONNECTION) IN FLOODPLAIN.

LEGEND:

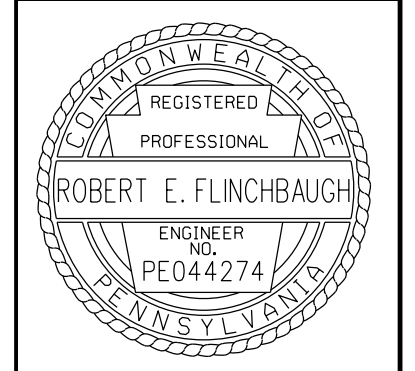


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MARK	COMMENT	REVISIONS	DATE
1	MCCD REVIEW LETTER DATED 03/14/22		07/19/22

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SITUATED IN
 NEW HANOVER TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA

STREAM RESTORATION PLAN

PREPARED FOR
 NEW HANOVER TOWNSHIP

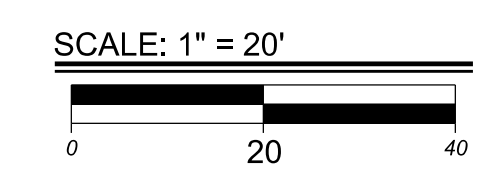
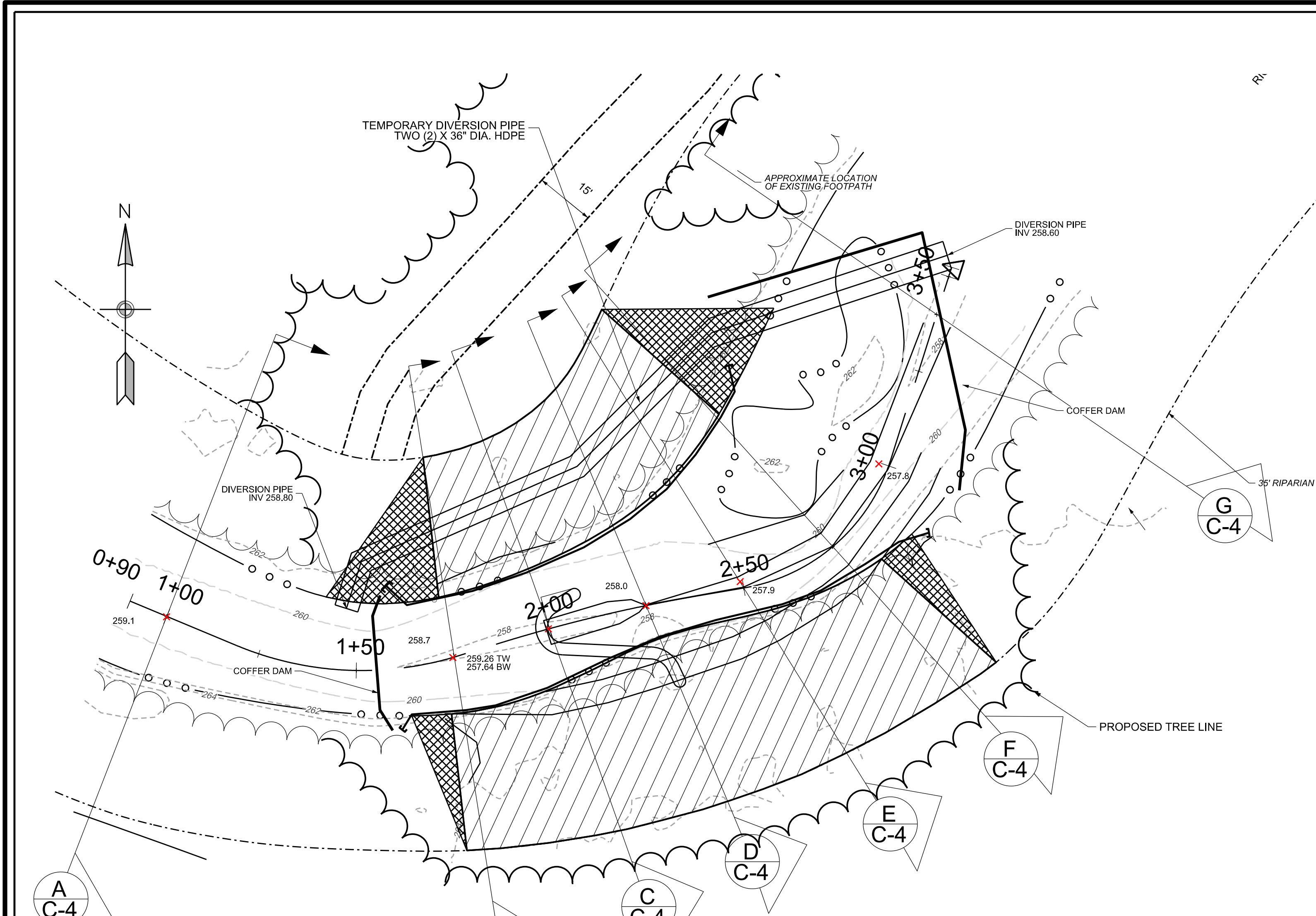
PROJECT NAME
 SWAMP CREEK STREAM RESTORATION

DESIGNED BY: xxx/xxx
 DRAWN BY: MJC/MMG
 CHECKED BY: BMF
 PROJECT NO: NHT-21-205
 DATE: 01/12/2021
 SCALE: 1"=40'

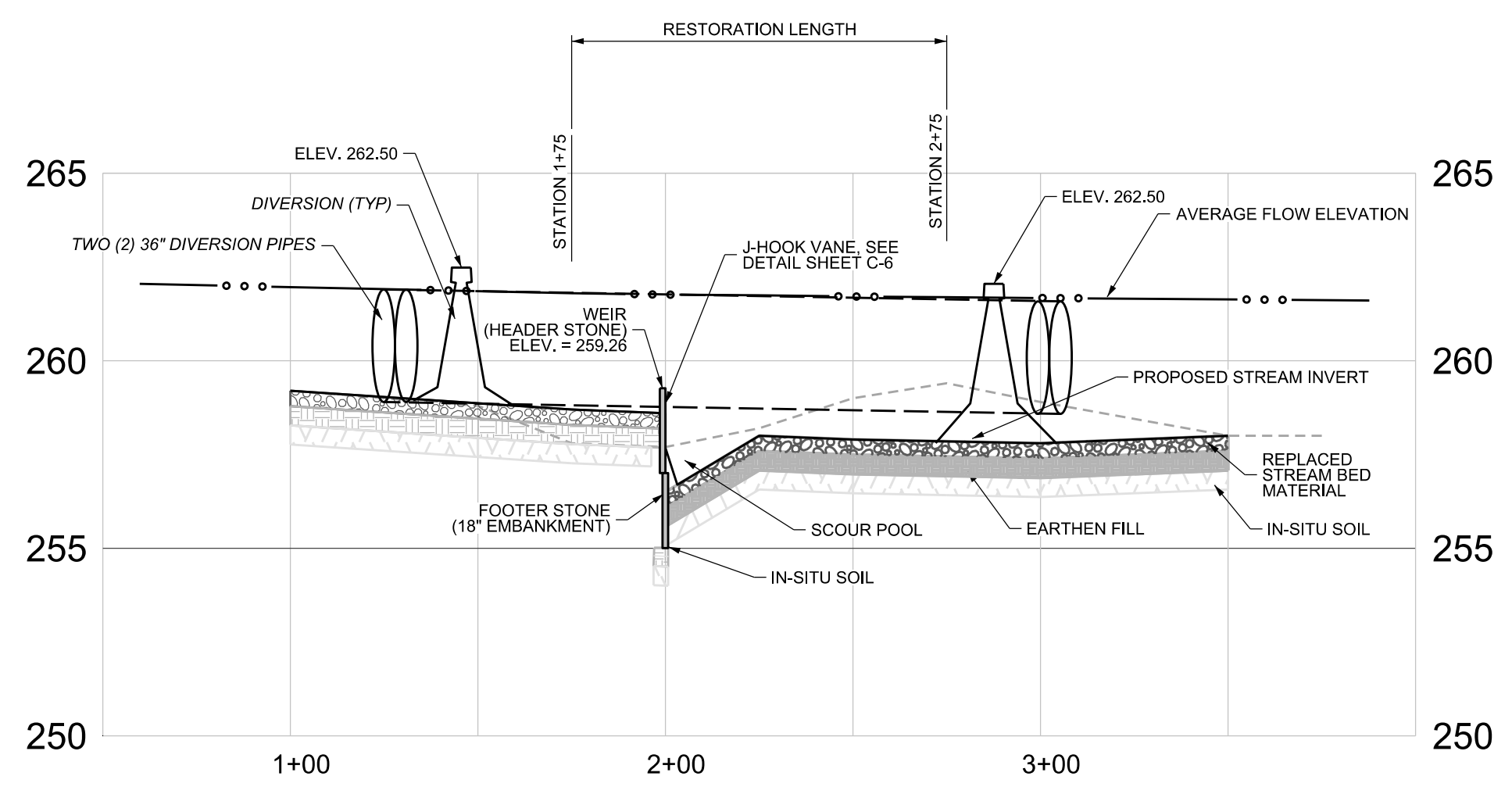
SHEET 3 OF 9

C-3

P:_Design\NHT-21-205_Swamp_Creek_Stream_Restoration_Design_and_Permitting\Sheet\2021_02_mjc\2021.dgn

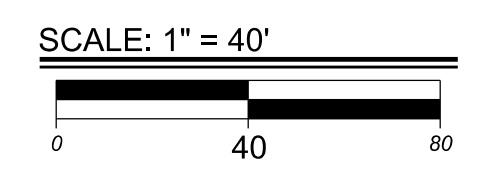


SECTION KEY



STREAM PROFILE

1"=40' - HORIZONTAL SCALE
1"=4' - VERTICAL SCALE

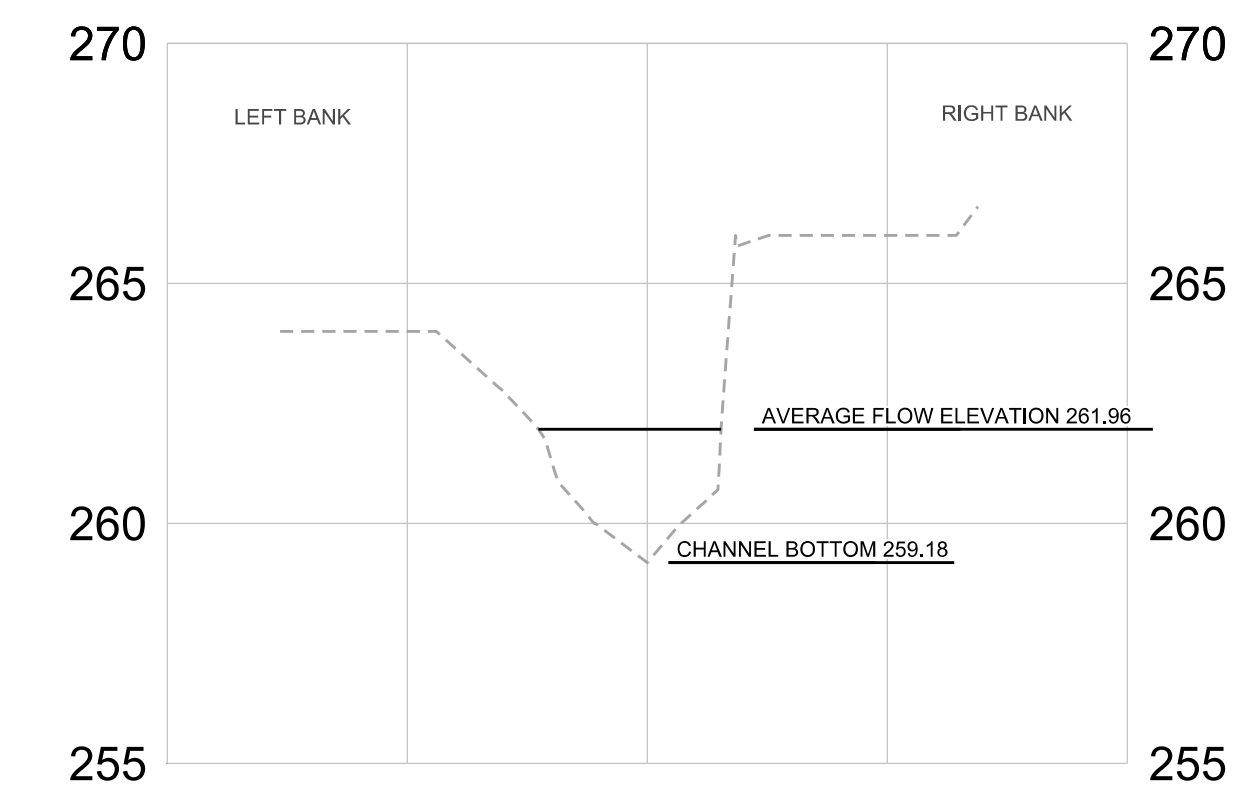


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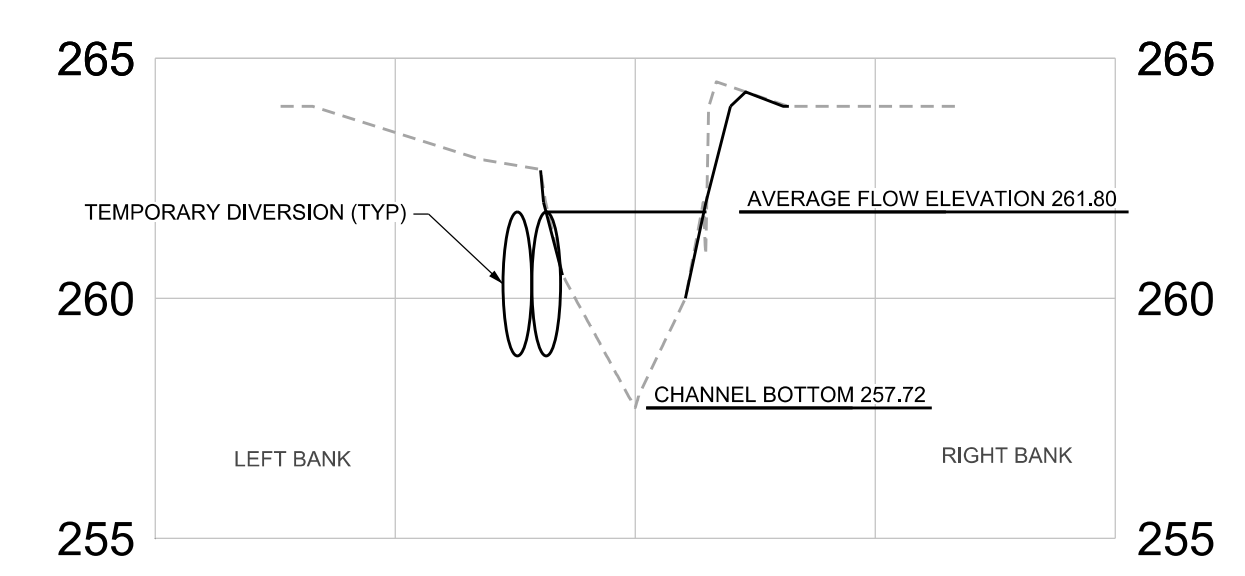
EX STREAMBED	
PR STREAMBED	
EARTHEN FILL	
IN-SITU SOIL	
J-HOOK VANE	
COIR LOG	
SPOT ELEVATION	
BRUSH PACKING	
RIPARIAN RESTORATION	

CONSTRUCTION NOTES:

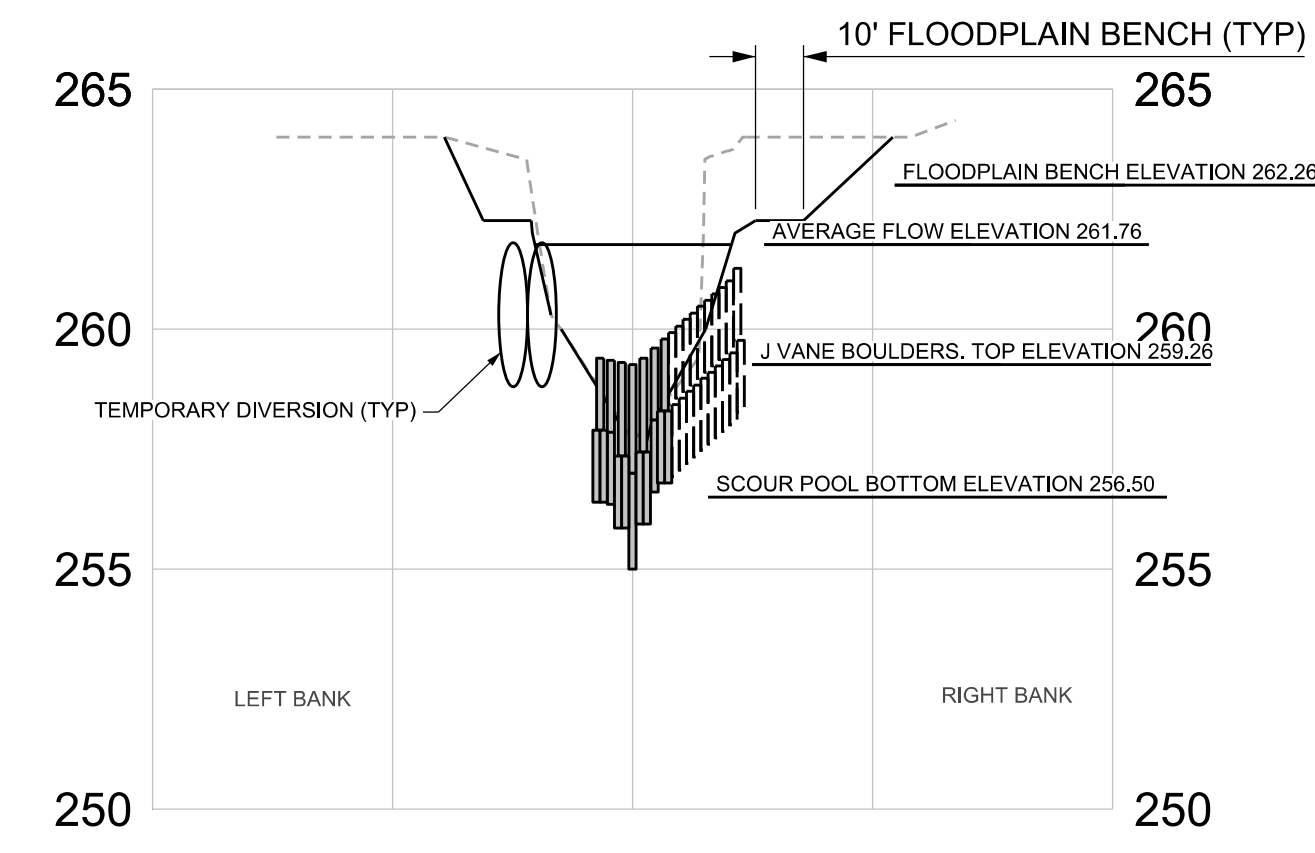
- DIVERSION PIPES TO BE BACKFILLED AND STABILIZED PRIOR TO CONSTRUCTION TRAFFIC TRAVERSING. DIVERSION PIPES TO BE RATED FOR TRAFFIC LOADING OR PLATED TO PREVENT CRUSHING.
- HEIGHT OF DIVERSION WALL TO MAINTAIN 6" OF FREEBOARD DURING ACTIVE FLOWS. IF NECESSARY, INCREASE HEIGHT PER SPECIFICATIONS AND DETAIL ON SHEET C-5.



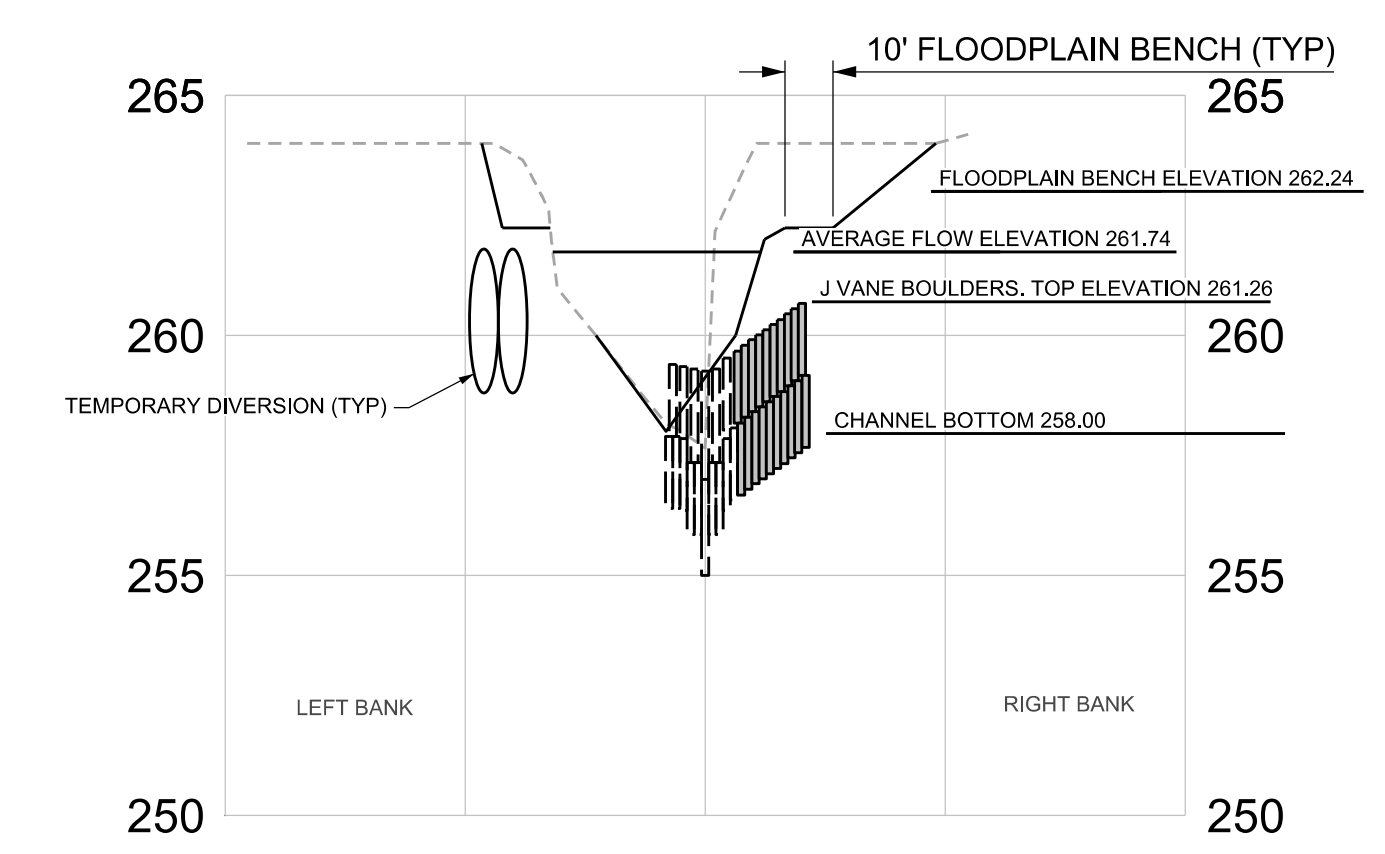
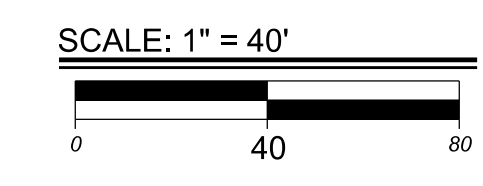
A
SECTION A, STATION 1+00
1"=40' - HORIZONTAL SCALE
1"=4' - VERTICAL SCALE



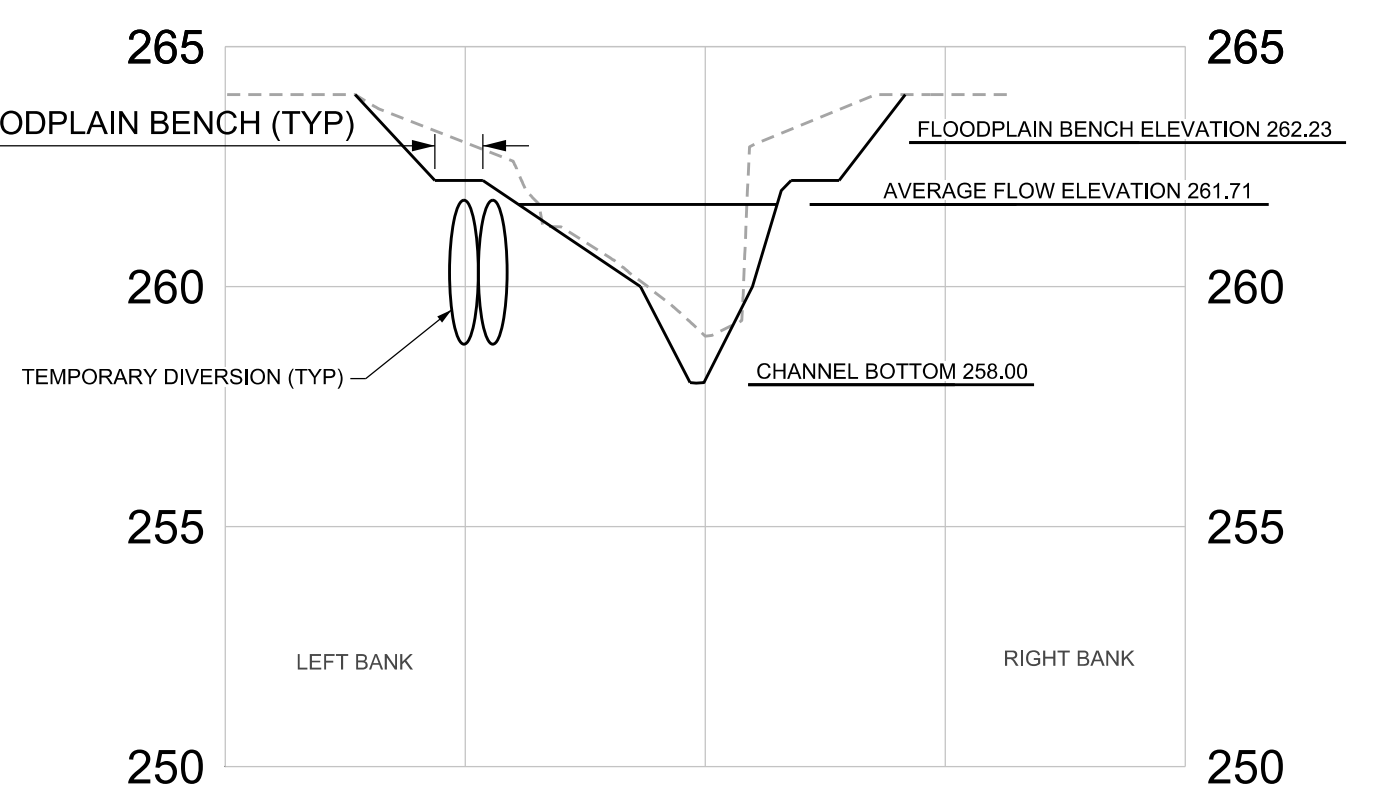
B
SECTION B, STATION 1+75
1"=40' - HORIZONTAL SCALE
1"=4' - VERTICAL SCALE



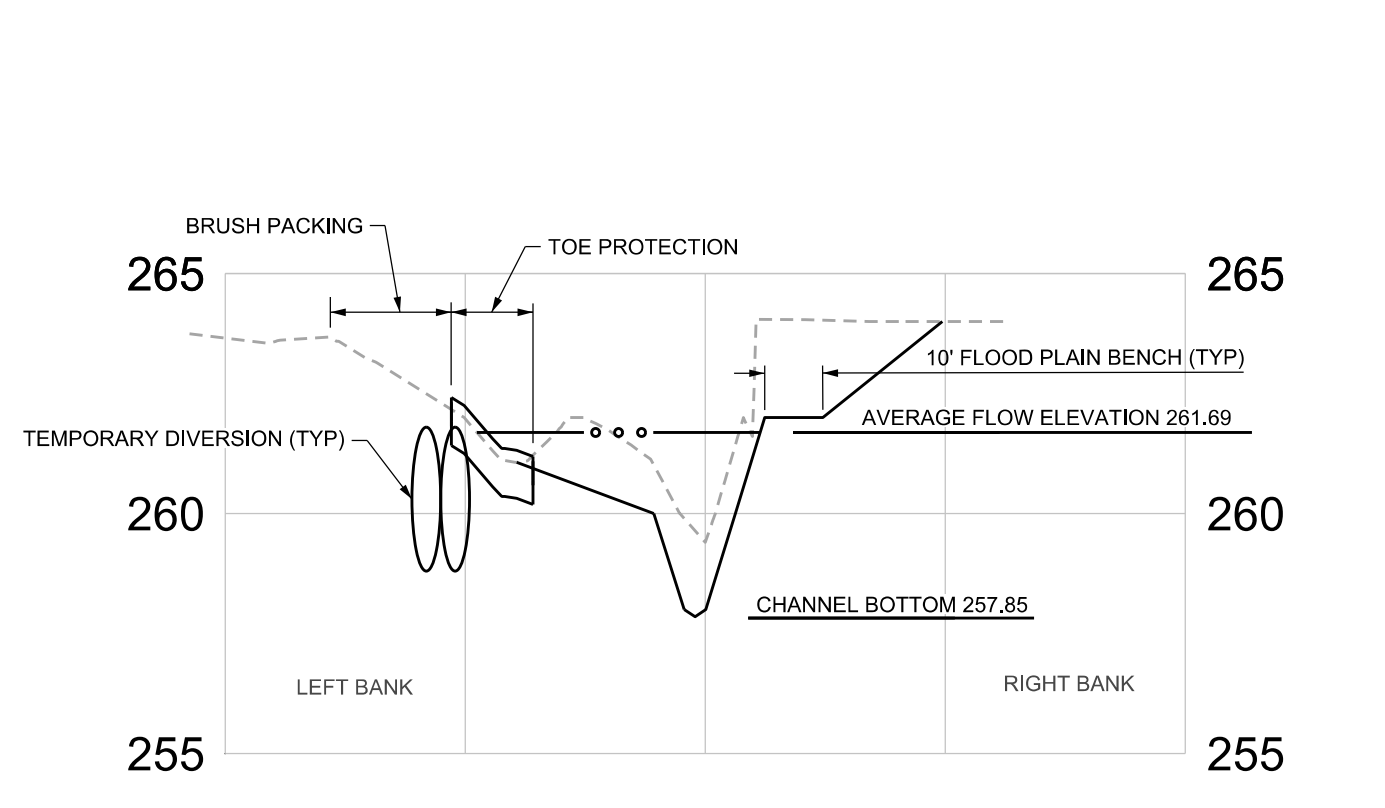
C
SECTION C, STATION 2+00
1"=40' - HORIZONTAL SCALE
1"=4' - VERTICAL SCALE



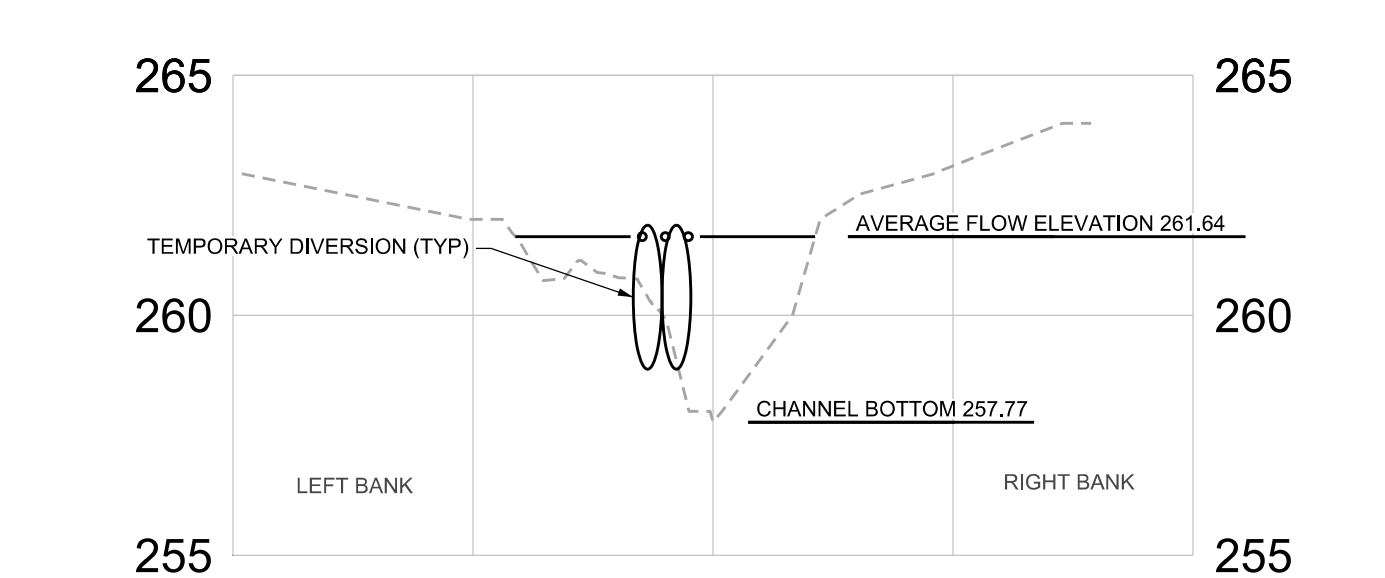
D
SECTION D, STATION 2+25
1"=40' - HORIZONTAL SCALE
1"=4' - VERTICAL SCALE



E
SECTION E, STATION 2+50
1"=40' - HORIZONTAL SCALE
1"=4' - VERTICAL SCALE



F
SECTION F, STATION 2+75
1"=40' - HORIZONTAL SCALE
1"=4' - VERTICAL SCALE



G
SECTION G, STATION 3+00
1"=40' - HORIZONTAL SCALE
1"=4' - VERTICAL SCALE

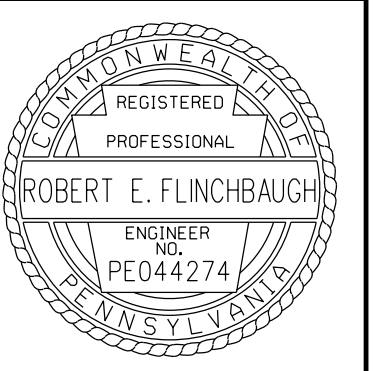
DATE: 07/19/22

REVISIONS

MARK	COMMENT	DATE
1	MCED REVIEW LETTER DATED 03/14/22	

CEG CEDARVILLE
CIVIL ENGINEERING • ENVIRONMENTAL SERVICES
SURVEYING • CONSTRUCTION

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610.705.4500 (Office) | 610.705.4900 (Fax)



SITING IN
NEW HANOVER TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA

STREAM PROFILE AND SECTIONS PLAN

PREPARED FOR
NEW HANOVER TOWNSHIP

PROJECT NAME
SWAMP CREEK STREAM RESTORATION

DESIGNED BY: xxx/xxx

DRAWN BY: MJC/MMG

CHECKED BY: BMF

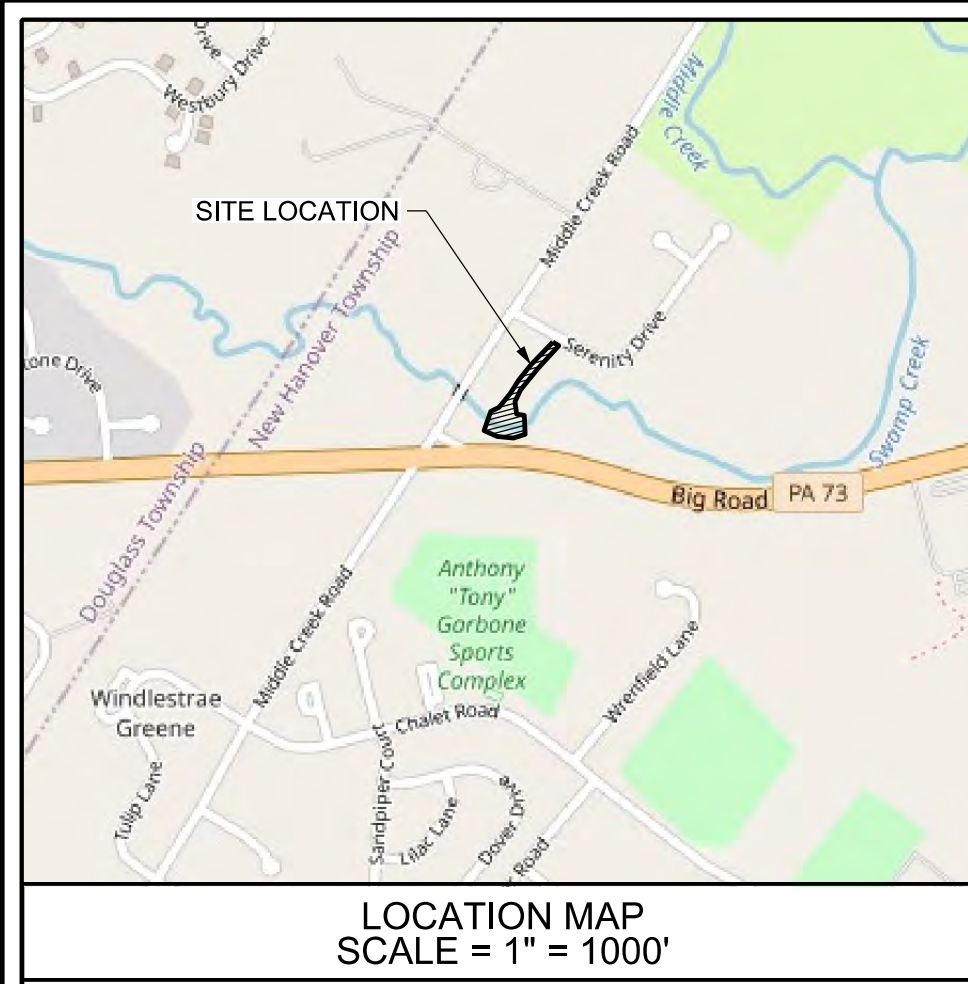
PROJECT NO: NHT-21-205

DATE: 01/12/2021

SCALE: AS NOTED

SHEET 4 OF 9

C-4



- GENERAL NOTES:**
1. A WETLAND DELINEATION WAS PERFORMED BY CEDARVILLE ENGINEERING GROUP, LLC ON JANUARY 16 AND AUGUST 18, 2021. NO WETLANDS WERE IDENTIFIED WITHIN THE AREA OF INVESTIGATION AND LIMITS OF DISTURBANCE AS SHOWN.
 2. TREE PROTECTION SHALL BE PLACED AROUND ALL AREAS OF TREES TO BE PRESERVED ADJACENT TO THE LIMITS OF DISTURBANCE (LOD).
 3. CONTRACTOR TO PROVIDE TREE PROTECTION FENCING AROUND ALL TREES TO BE PRESERVED WITHIN OR UP AGAINST THE LOD.
 4. STABILIZED TEMPORARY ACCESS PATH TO FOLLOW EXISTING FOOTPATH AND MINIMIZE CLEARING AND GRUBBING.
 5. THE ENTIRE LIMITS OF DISTURBANCE AREA, EXCEPTING THE STREAM CHANNEL, TO BE RESTORED IN ACCORDANCE WITH RESTORATION SPECIFICATIONS AND EROSION CONTROL BLANKETS.
 6. TREE PROTECTION FENCING SHALL BE PLACED AROUND ALL AREAS OF TREES TO BE PRESERVED ADJACENT TO THE LIMITS OF DISTURBANCE(LOD).
 7. DIVERSION PIPES TO BE BACKFILLED AND STABILIZED PRIOR TO CONSTRUCTION TRAFFIC TRAVERSING. DIVERSION PIPES TO BE RATED FOR TRAFFIC LOADING OR PLATED TO PREVENT CRUSHING.

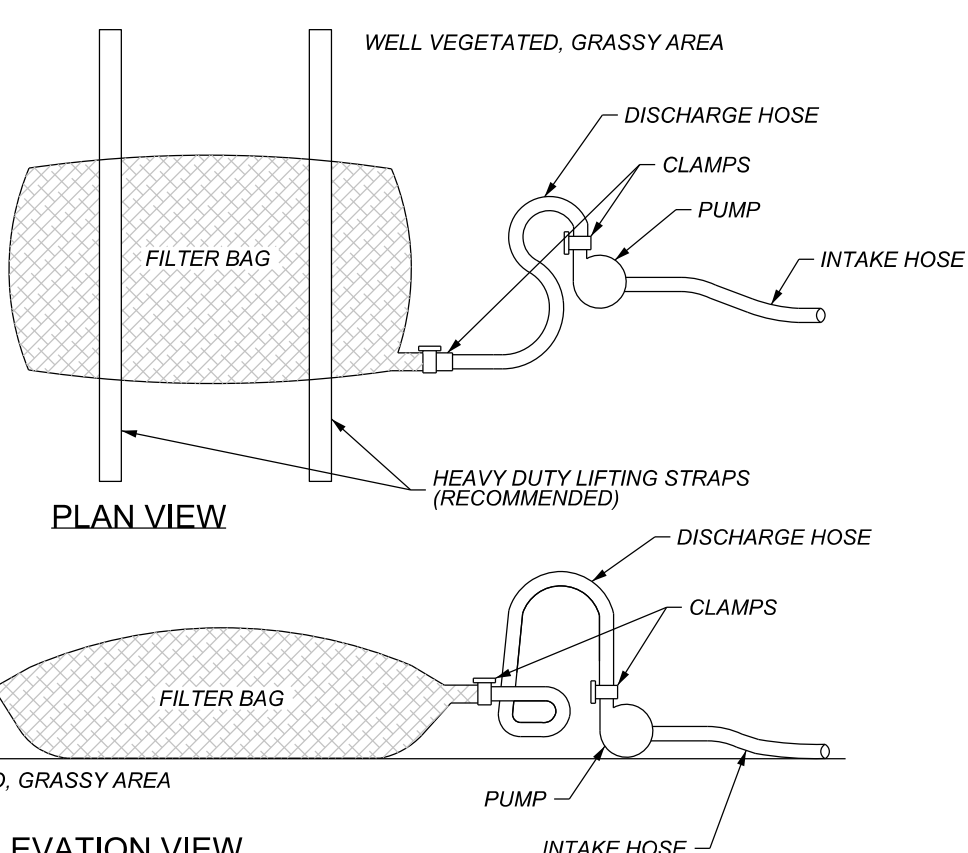
SOIL UNIT	SOIL TYPE	DEPTH OF RESTRICTIVE FEATURE	DEPTH TO WATER TABLE	SLOPE	HYDROLOGIC SOIL GROUP	HYDROLOGIC SOIL RATING
Bo	BOWMANVILLE-KNAUERS SILT-LOAM	72 TO 99 INCHES TO LITHIC BEDROCK	0 TO 18 INCHES	0-3%	C/D	YES

MAXIMUM BULK DENSITIES

SOIL TEXTURE	MAXIMUM BULK DENSITIES (G/CM ³)
SANDS, LOAMY SANDS	1.60
SANDY LOAMS, LOAMS	1.40
SANDY CLAY LOAMS, LOAMS, CLAY LOAMS	1.40
SILT, SILT LOAMS	1.30
SILT LOAMS, SILTY CLAY LOAMS	1.10
SANDY CLAYS, SILTY CLAYS, SOME CLAY LOAMS (35-45% CLAY)	1.10
CLAYS (>45% CLAY)	1.10

- NOTES:**
1. ON-SITE TOPSOIL WITH AN ORGANIC CONTENT OF AT LEAST 4 PERCENT CAN BE PROPERLY STOCKPILED (TO MAINTAIN ORGANIC CONTENT) AND REUSED.
 2. COMPOST DERIVED FROM OR OBTAINED FROM MUSHROOM GROWING OPERATIONS SHALL BE AGED AT LEAST 7 YEARS.
 3. SUB-SOILING TO RELIEVE COMPACTION.
 - A. AFTER EXCAVATION, THE SUBSOIL SHALL BE IN A LOOSE, FRIABLE CONDITION TO A DEPTH OF 20 INCHES BELOW FINAL TOPSOIL GRADE. THERE SHALL BE NO EROSION RILLS OR WASHOUTS IN THE SUBSOIL SURFACE EXCEEDING 3 INCHES IN DEPTH.
 - B. TO ACHIEVE THIS CONDITION, SUBSOILING, RIPPING, OR SCARIFICATION OF THE SUBSOIL WILL BE REQUIRED AS DIRECTED BY THE OWNER'S REPRESENTATIVE. WHEREVER THE SUBSOIL HAS BEEN COMPACTED BY EQUIPMENT OPERATION OR HAS BECOME DRIED OUT AND CRUSTED, AND WHERE NECESSARY TO OBLITERATE EROSION RILLS, SUB-SOILING SHALL BE REQUIRED TO REDUCE SOIL COMPACTION IN ALL AREAS WHERE PLANT ESTABLISHMENT IS PLANNED. SUB-SOILING SHALL BE PERFORMED BEFORE COMPOST PLACEMENT.
 - C. SUBSOILED AREAS SHALL BE LOOSENED TO LESS THAN 200 PSI TO A DEPTH OF 20 INCHES BELOW FINAL TOPSOIL GRADE, WHEN DIRECTED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THAT THE SUB-SOILING WORK CONFORMS TO THE SPECIFIED DEPTH.
 - D. SUB-SOILING SHALL FORM A TWO-DIRECTIONAL GRID. CHANNELS SHALL BE CREATED BY A COMMERCIALY AVAILABLE MULTI-SHANKED, PARALLEL-CORAM IMPLEMENT (SOLID-SHANK RIPPER). THE EQUIPMENT SHALL BE CAPABLE OF EXERTING A PENETRATION FORCE NECESSARY FOR THE SITE. NO DISC CULTIVATORS, CHISEL POINTS, OR SPRING LOADED EQUIPMENT WILL BE ALLOWED. THE GRID CHANNELS SHALL BE SPACED 36 INCHES APART, DEPENDING ON EQUIPMENT, SITE CONDITIONS, AND THE SOIL MANAGEMENT PLAN. THE CHANNEL DEPTH SHALL BE A MINIMUM OF 20 INCHES OR AS SPECIFIED IN THE SOIL MANAGEMENT PLAN.
 - E. LEVEL SUB-SOILED AREAS BY USE OF A YORK RAKE.
 - F. IF SOILS ARE SATURATED, THE CONTRACTOR SHALL DELAY OPERATIONS UNTIL THE SOIL WILL NOT HOLD A BALL WHEN SOULCEED. ONLY ONE PASS SHALL BE PERFORMED ON PROBLEME SLOPES GREATER THAN 3:1. WHEN ONLY ONE PASS IS USED (AND AS DIRECTED BY THE ENGINEER), WORK SHOULD BE DONE AT RIGHT ANGLES TO THE DIRECTION OF SURFACE DRAINAGE, WHENEVER PRACTICAL.
 - G. EXCEPTIONS TO SUBSOILING INCLUDE AREAS WITHIN THE DRIP LINE OF ANY EXISTING TREES, OVER UTILITY INSTALLATIONS WITHIN 30 INCHES OF THE SURFACE, WHERE TRENCHING/DRAINAGE LINES ARE INSTALLED, WHERE COMPACTION IS BY SPECIFIED ADJUSTMENTS, FOOTINGS, OR IN SLOPES) AND ON INACCESSIBLE SLOPES, AS APPROVED BY THE OWNER'S REPRESENTATIVE.
 2. FINAL AMENDED SOIL QUALITY:
 - A. ORGANIC CONTENT (BY VOLUME) - 8 TO 13%.
 - B. FINAL BULK DENSITIES SHALL MEET REQUIREMENTS LISTED ABOVE.
- SOIL AMENDMENT & RESTORATION CONSTRUCTION SEQUENCE:**
1. ALL OTHER CONSTRUCTION WITHIN THE TRIBUTARY AREA TO THE AREA TO BE AMENDED SHALL BE COMPLETED AND STABILIZED BEFORE BEGINNING SOIL RESTORATION.
 2. INITIAL SOIL DISTURBANCE - FOR HIGHLY COMPACTED SITE, PERFORMED WITH EQUIPMENT AS SPECIFIED ABOVE.
 3. UNIFORM BREAK-UP SUBSOIL - AS SPECIFIED ABOVE.
 4. ROCK REMOVAL - PERFORMED WITH A MECHANICAL PICKER.
 5. DISTRIBUTION OF IMPORTED MATERIAL - SPREAD MAXIMUM OF 1 INCH (ADJUST DEPTH OF COMPOST APPLIED TO ACHIEVE FINAL SAND INTO TOPSOIL WITH A ROTARY TILER THAT IS SET TO A DEPTH OF 8 INCHES.
 6. LINE AND FERTILIZER APPLICATION - AS DETERMINED BY SOIL TESTING.
 7. SOIL INTEGRATION - 2 PASSES WITH ROTOTILER IN PERPENDICULAR DIRECTIONS.
 8. GRADING AND ROLLING - TO ACHIEVE A SMOOTH SURFACE.
 9. SEED - AS DIRECTED IN SEEDING SPECIFICATIONS - USE OF HYDROSEED IS ACCEPTABLE.

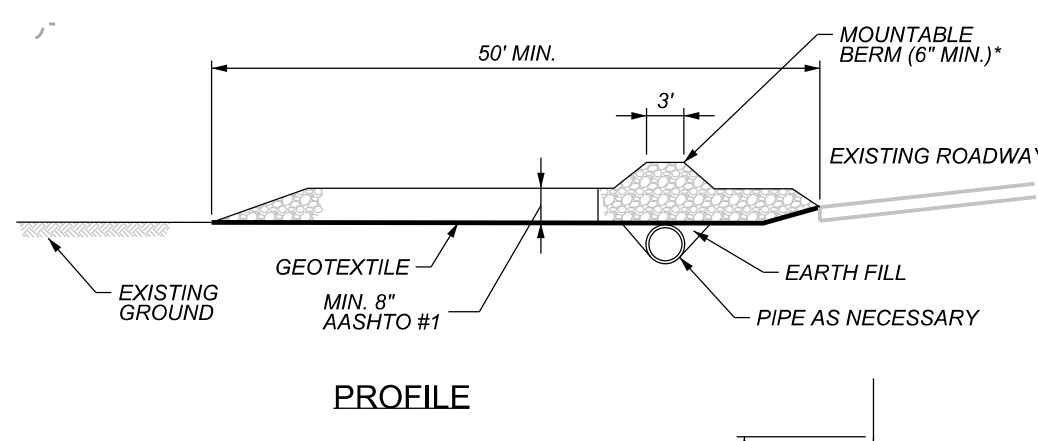
SOIL AMENDMENT & RESTORATION
NOT TO SCALE



- NOTES:**
- LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "I" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 100 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4633	110 LB
MULLEN BURST	ASTM D-3796	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

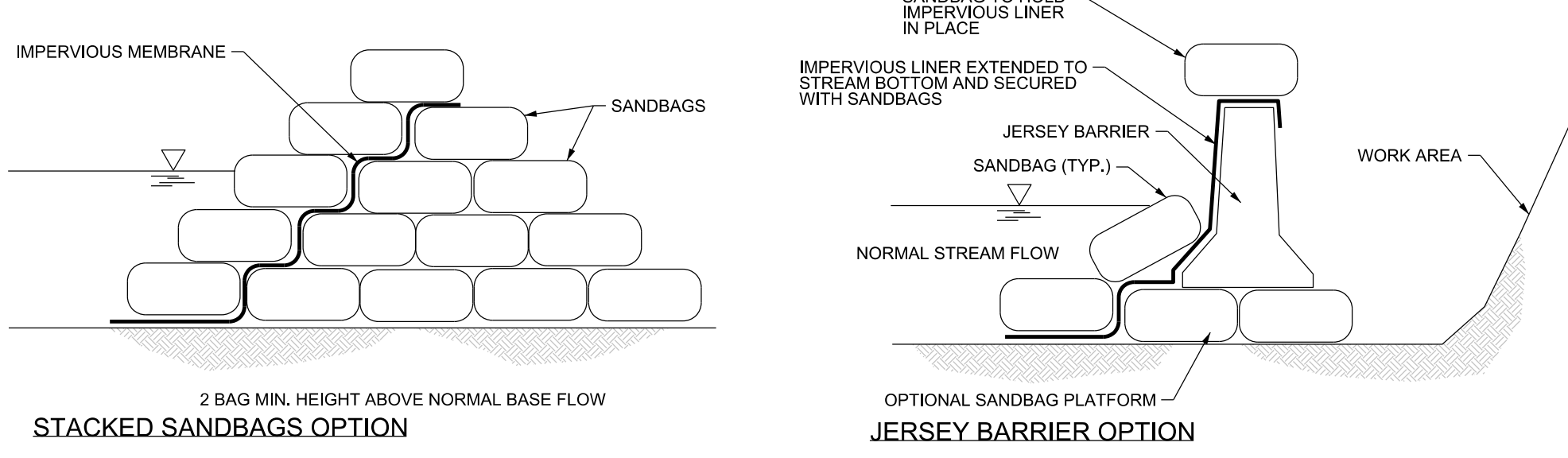
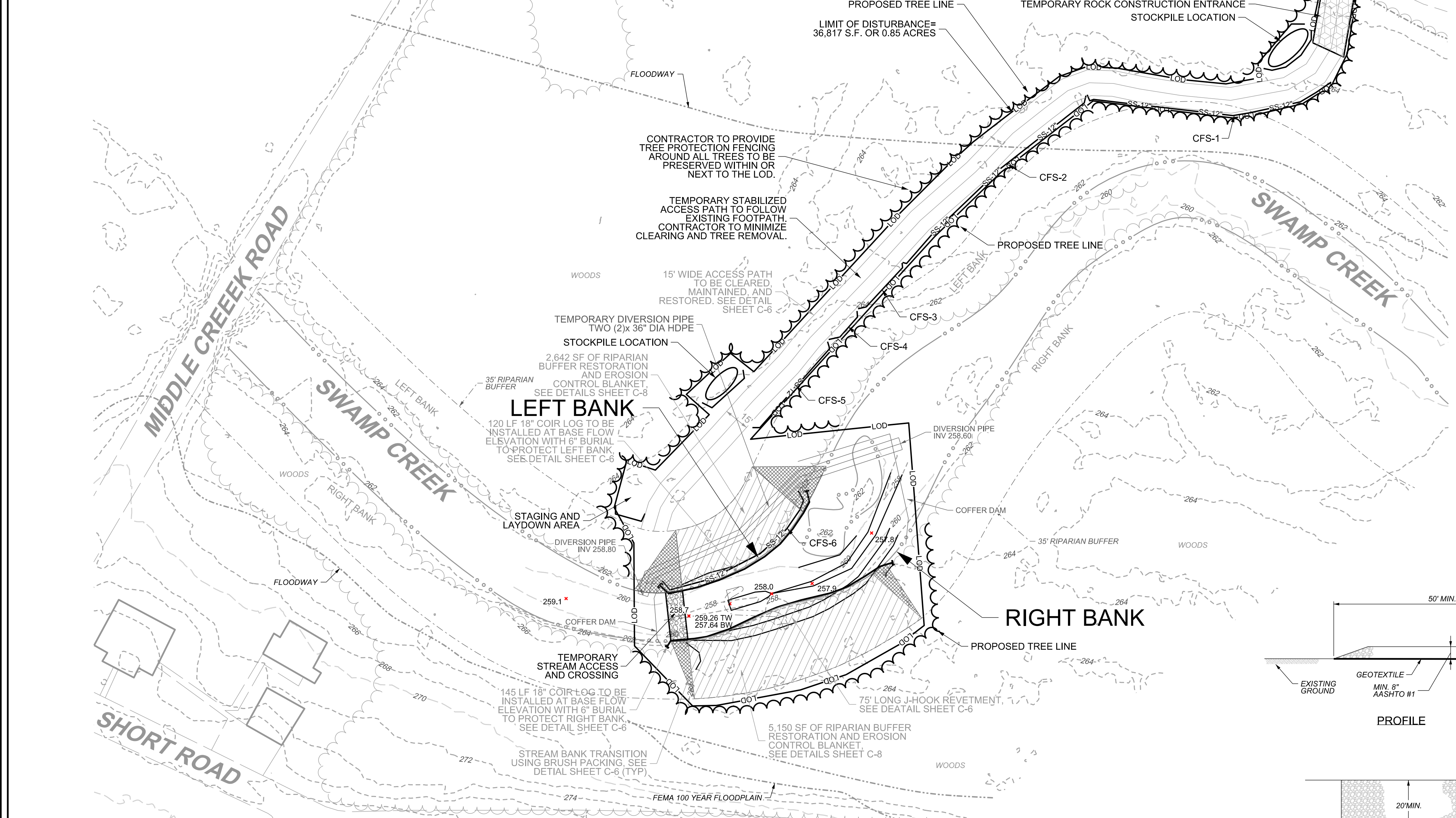
- A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL, UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.
- BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS, WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5% CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
- NO DOWNSLOPE SEDIMENT BARRIERS IS REQUIRED FOR MOST INSTALLATIONS. COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HO OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.
- THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.
- THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.
- FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.



STANDARD CONSTRUCTION DETAIL #3-1
ROCK CONSTRUCTION ENTRANCE
NOT TO SCALE

- NOTES:**
- REMOVE TOPSOIL PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
 - RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
 - MOUNTABLE BERM SHALL BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED AND PROPER PIPE COVER AS SPECIFIED BY MANUFACTURER IS NOT OTHERWISE PROVIDED. PIPE SHALL BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
 - MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK, WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

STANDARD CONSTRUCTION DETAIL #3-18
PUMPED WATER FILTER BAG
NOT TO SCALE

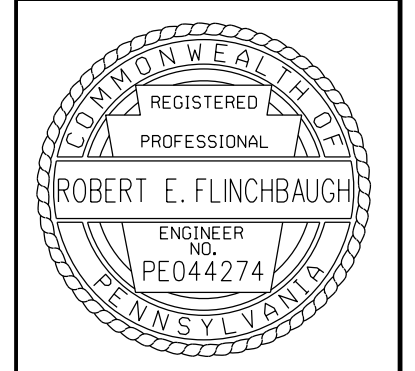


SANDBAG DIVERSION DAM OR COFFERDAM
NOT TO SCALE

- LEGEND:**
- EXISTING CONTOUR
 - 100-YEAR FLOODPLAIN
 - FLOODWAY
 - APPROXIMATE TOP OF BANK
 - 35-FOOT RIPARIAN BUFFER
 - EDGE OF TREES
 - PROPOSED CONTOUR
 - STREAMBANK ARMORING
 - J-HOOK
 - FLOODPLAIN BENCH AND RIPARIAN BUFFER RESTORATION
 - FOOTPATH
 - LIMIT OF DISTURBANCE
 - PROPOSED TREELINE
 - COMPOST FILTER SOCK
 - COIR LOG
 - ROCK CONSTRUCTION ENTRANCE

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610.705.4500 (Office) | 610.705.4900 (Fax)



SITING IN
NEW HANOVER TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA

EROSION AND SEDIMENT CONTROL PLAN

PROJECT NAME
NEW HANOVER TOWNSHIP
SWAMP CREEK STREAM RESTORATION

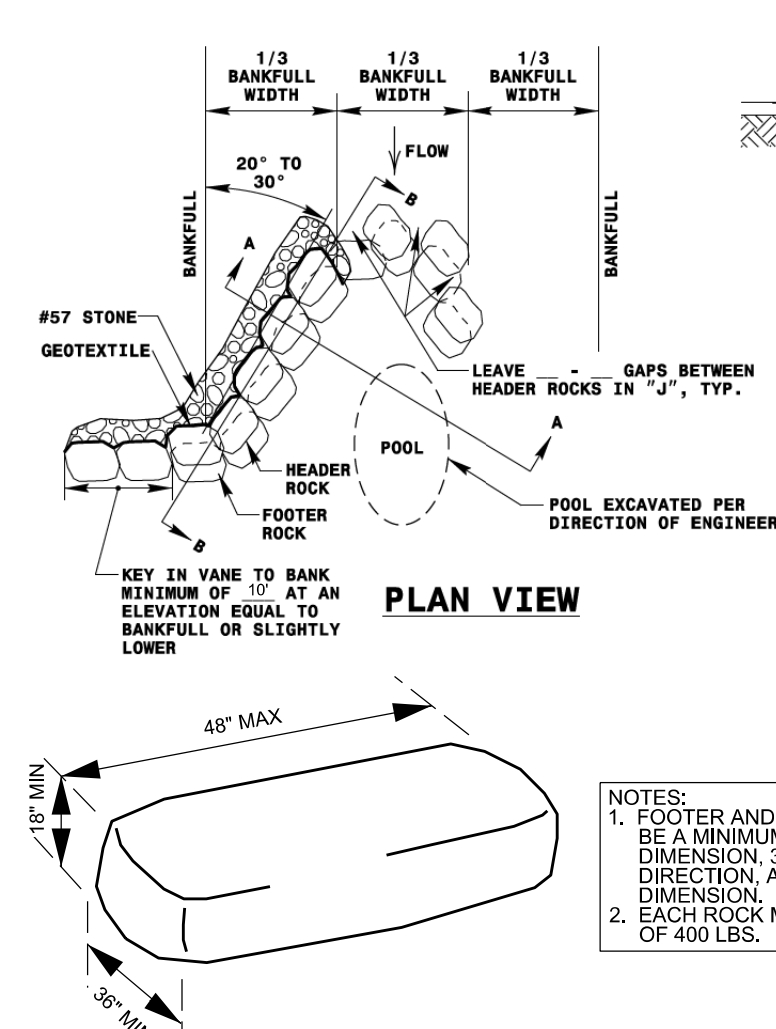
DESIGNED BY: XXX/XXX
DRAWN BY: MJC/MMG
CHECKED BY: BMF
PROJECT NO: NHT-21-205
DATE: 01/12/2021
SCALE: 1"=40'

SHEET 5 OF 9

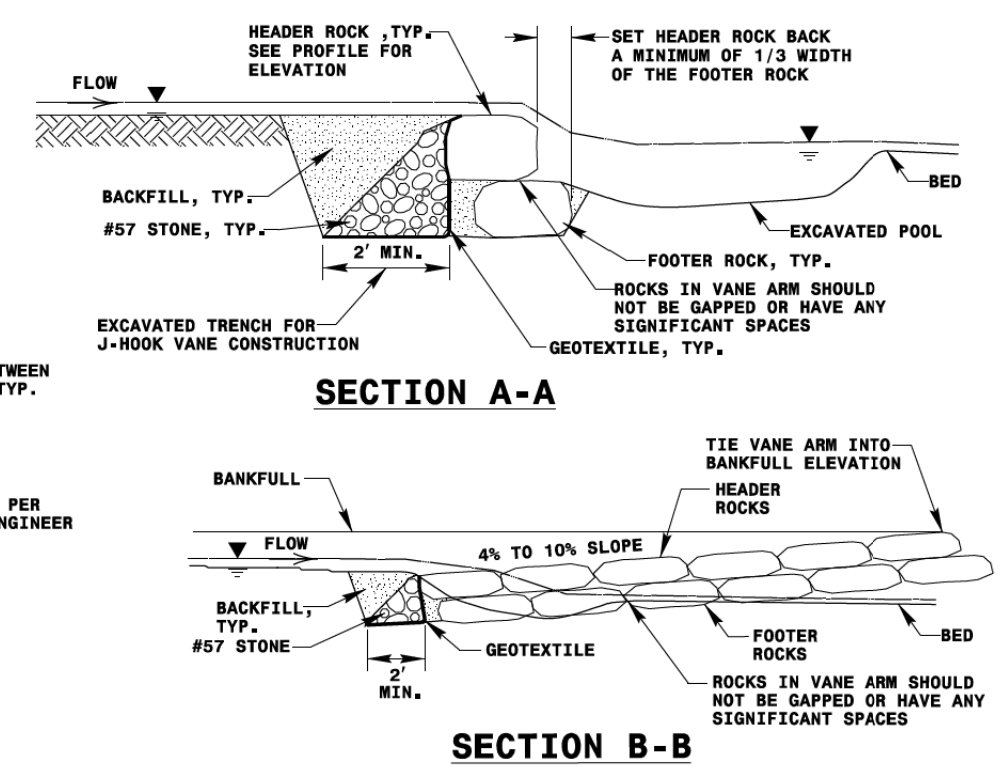
C-5

Underground Service Alert
Call: TOLL FREE
1-800-242-1776
THREE WORKING DAYS BEFORE YOU DIG

SCALE: 1" = 40'
0 40 80



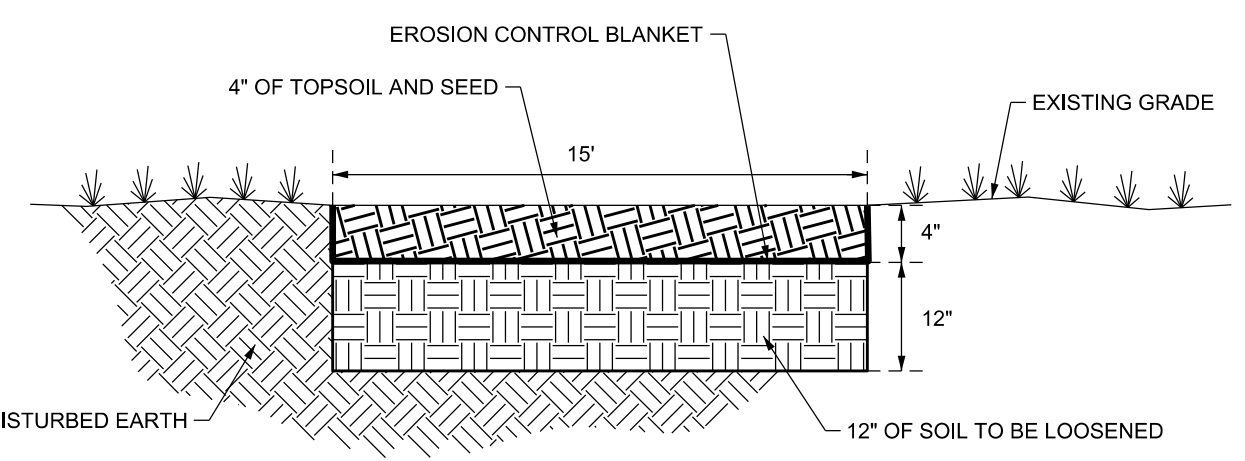
FOOTER/HEADER ROCK



SECTION A-A
SECTION B-B

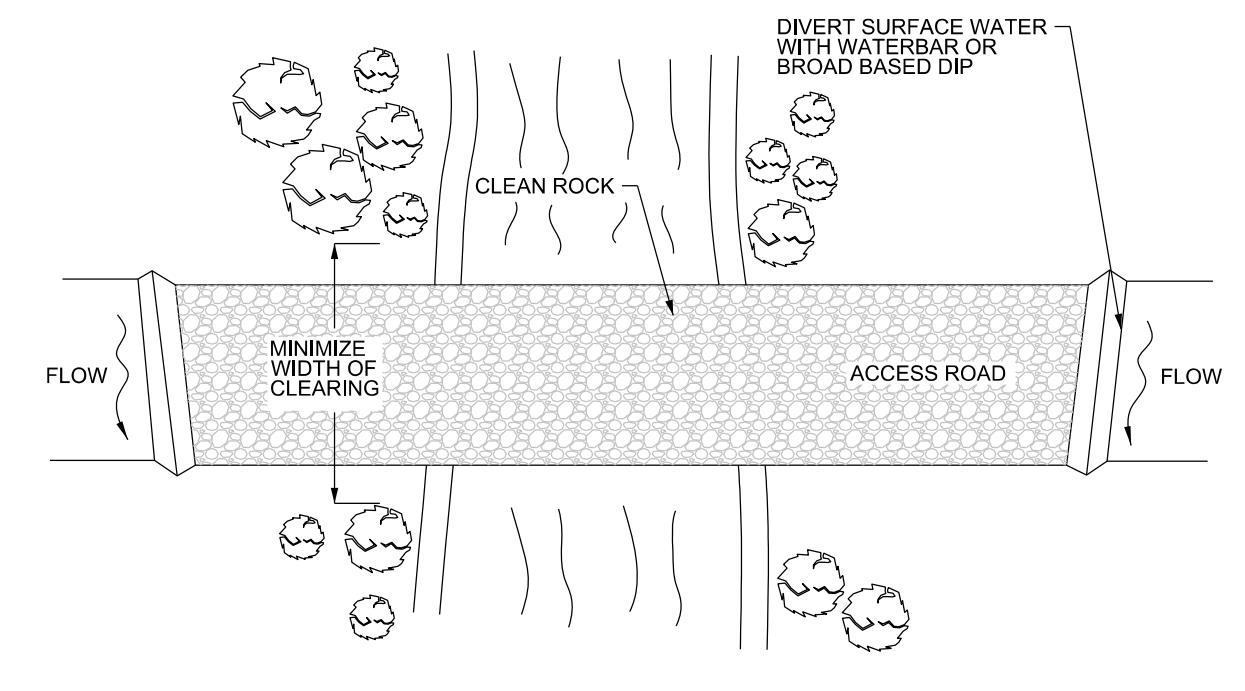
- NOTES:
- FOOTER AND HEADER ROCKS MUST BE A MINIMUM OF 12" IN ONE DIMENSION, 36" IN ANOTHER DIRECTION, AND 48" IN THE LONGEST DIMENSION. EACH ROCK MUST WEIGH A MINIMUM OF 400 LBS.
 - DO NOT EXCAVATE POOL TOO CLOSE TO FOOTER BOULDERS BETWEEN HEADERS AND FOOTERS.
 - CLASS "A" STONE CAN BE USED TO REDUCE VOIDS BETWEEN HEADERS AND FOOTERS.
 - COMPACT BACKFILL TO EXTENT POSSIBLE OR AT THE DIRECTION OF THE ENGINEER.
 - POOL DEPTH SHOULD BE 2 TO 3 TIMES BANKFULL DEPTH.

J-HOOK VANE DETAIL
NOT TO SCALE



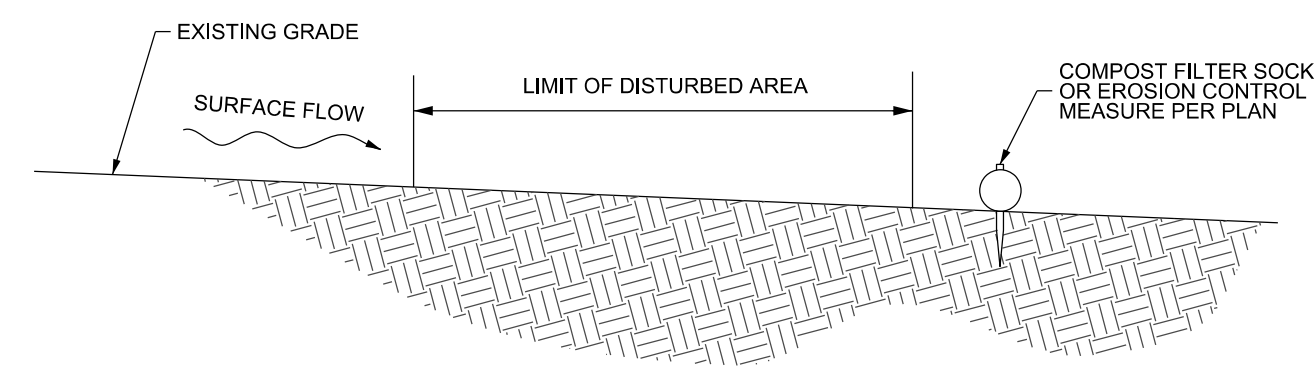
NOTE: ALL DISTURBED ACCESS AREAS TO BE RESTORED

ACCESS PATH RESTORATION
NOT TO SCALE



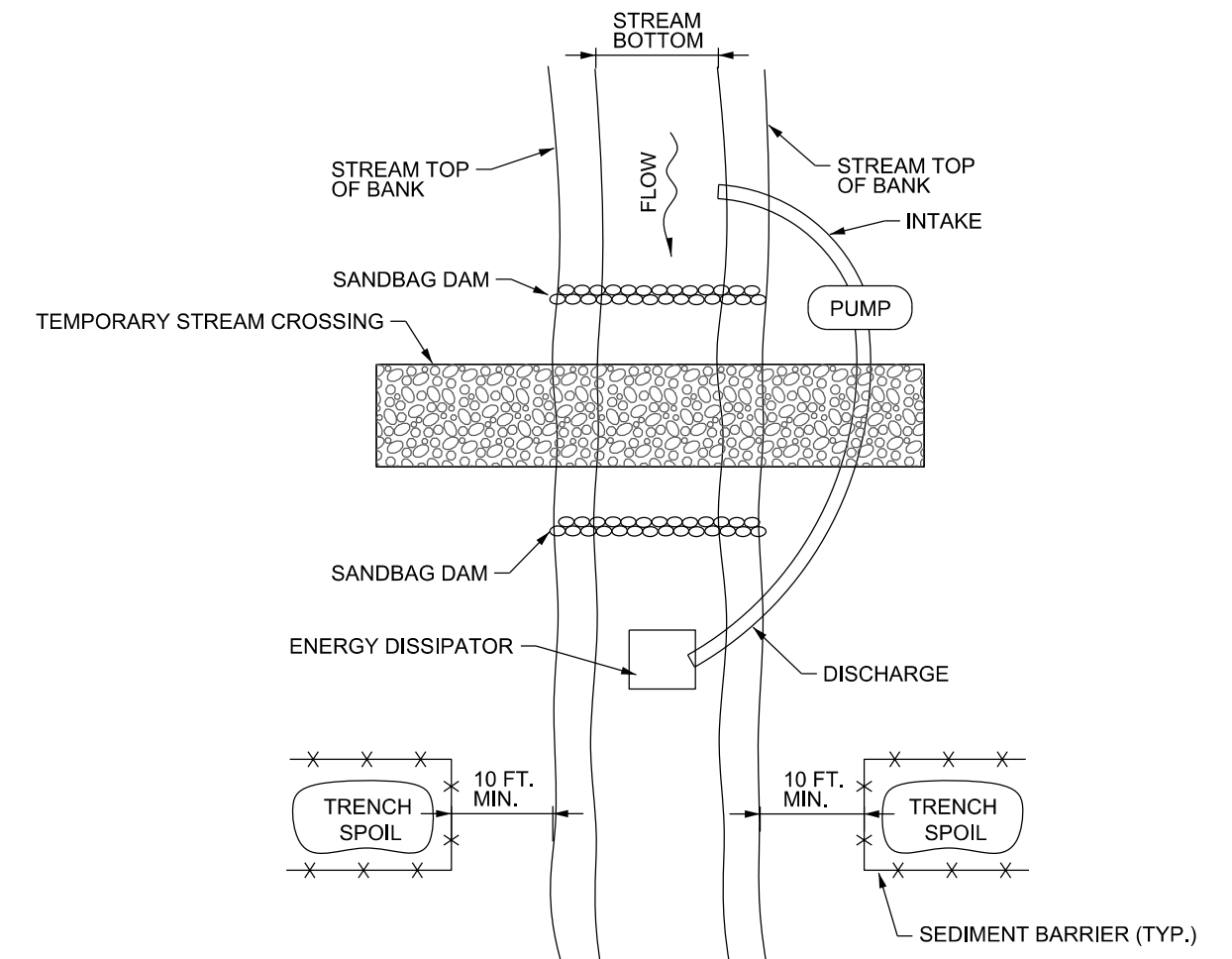
- NOTES:
- WATERBARS AND BROAD-BASED DIPS SHALL DISCHARGE TO SEDIMENT REMOVAL FACILITY.
 - CLEAN ROCK SHALL CONFORM TO CHAPTER 105 PERMITTING REQUIREMENTS.
 - FOLLOW PERMIT CONDITIONS REGARDING REMOVAL OF CROSSING.

TEMPORARY STREAM CROSSING - PLAN VIEW
NOT TO SCALE



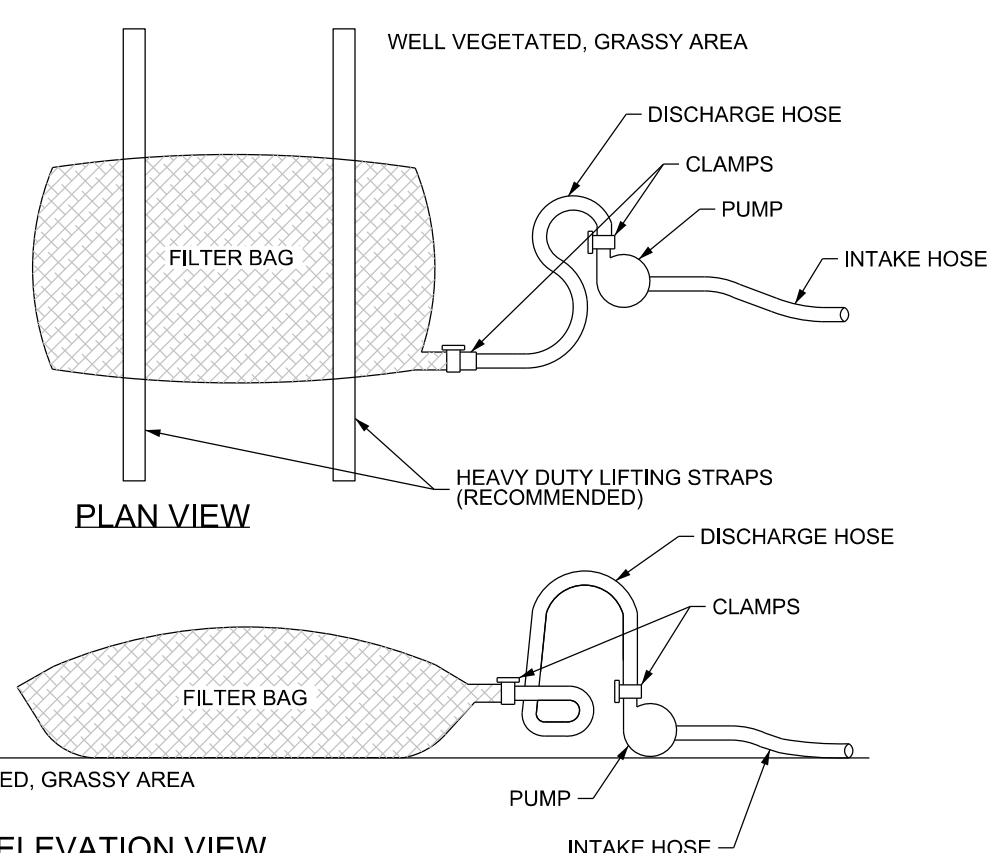
- NOTE:
- RUTTED OR ALTERED GRADES THAT PREVENT RUN-OFF AND CAUSE PONDING TO BE GRADED AND RESTORED TO EXISTING GRADE AT THE END OF EACH WEEK AND PRIOR TO RAIN EVENTS.
 - ACCESS PATH SHALL NOT PREVENT OR BLOCK STORM WATER RUN-OFF.
 - IF DISTURBED AREA CONTINUALLY PREVENTS ACCESS OR CAUSES SILTATION TO BUILD UP AT DOWNSTREAM E&S MEASURE, CONTRACTOR SHALL USE MULCH, REINFORCEMENT MATS, OR GROUND MATS TO STABILIZE THE AREA.

STABILIZED TEMPORARY ACCESS PATH
NOT TO SCALE



- NOTES:
- GRUBBING SHALL NOT TAKE PLACE WITHIN 50 FEET OF TOP-OF-BANK UNTIL ALL MATERIALS REQUIRED TO COMPLETE CROSSING ARE ON SITE AND PIPE IS READY FOR INSTALLATION.
 - BYPASS PUMP INTAKE SHALL BE MAINTAINED A SUFFICIENT DISTANCE FROM THE BOTTOM TO PREVENT PUMPING OF CHANNEL BOTTOM MATERIALS.
 - TRENCH PLUGS SHALL BE INSTALLED WITHIN THE TRENCH ON BOTH SIDES OF THE STREAM CHANNEL (STANDARD CONSTRUCTION DETAIL #13-4).
 - HAZARDOUS OR POLLUTANT MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK FROM THE TOP OF STREAMBANK.
 - ALL EXCESS EXCAVATED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE STREAM CROSSING AREA.
 - ALL DISTURBED AREAS WITHIN 50 FEET OF TOP-OF-BANK SHALL BE BLANKETED OR MATTED WITHIN 24 HOURS OF INITIAL DISTURBANCE FOR MINOR STREAMS OR 48 HOURS OF INITIAL DISTURBANCE FOR MAJOR STREAMS UNLESS OTHERWISE AUTHORIZED.
 - APPROPRIATE STREAMBANK PROTECTION SHALL BE PROVIDED WITHIN THE CHANNEL.

TYPICAL STREAM CROSSING WITH PUMP BYPASS
NOT TO SCALE



- NOTES:
- LOW VOLUME FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "P" TYPE SEAMS, THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS. HIGH VOLUME FILTER BAGS SHALL BE MADE FROM WOVEN GEOTEXTILES THAT MEET THE FOLLOWING STANDARDS:

PROPERTY	TEST METHOD	MINIMUM STANDARD
AVG. WIDE WIDTH STRENGTH	ASTM D-4884	60 LB/IN
GRAB TENSILE	ASTM D-4632	205 LB
PUNCTURE	ASTM D-4833	110 LB
MULLEN BURST	ASTM D-3786	350 PSI
UV RESISTANCE	ASTM D-4355	70%
AOS % RETAINED	ASTM D-4751	80 SIEVE

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES SHALL BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED. BAGS SHALL BE PLACED ON STRAPS TO FACILITATE REMOVAL UNLESS BAGS COME WITH LIFTING STRAPS ALREADY ATTACHED.

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS, WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE UNDERLAYMENT AND FLOW PATH SHALL BE PROVIDED. BAGS MAY BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5% FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.

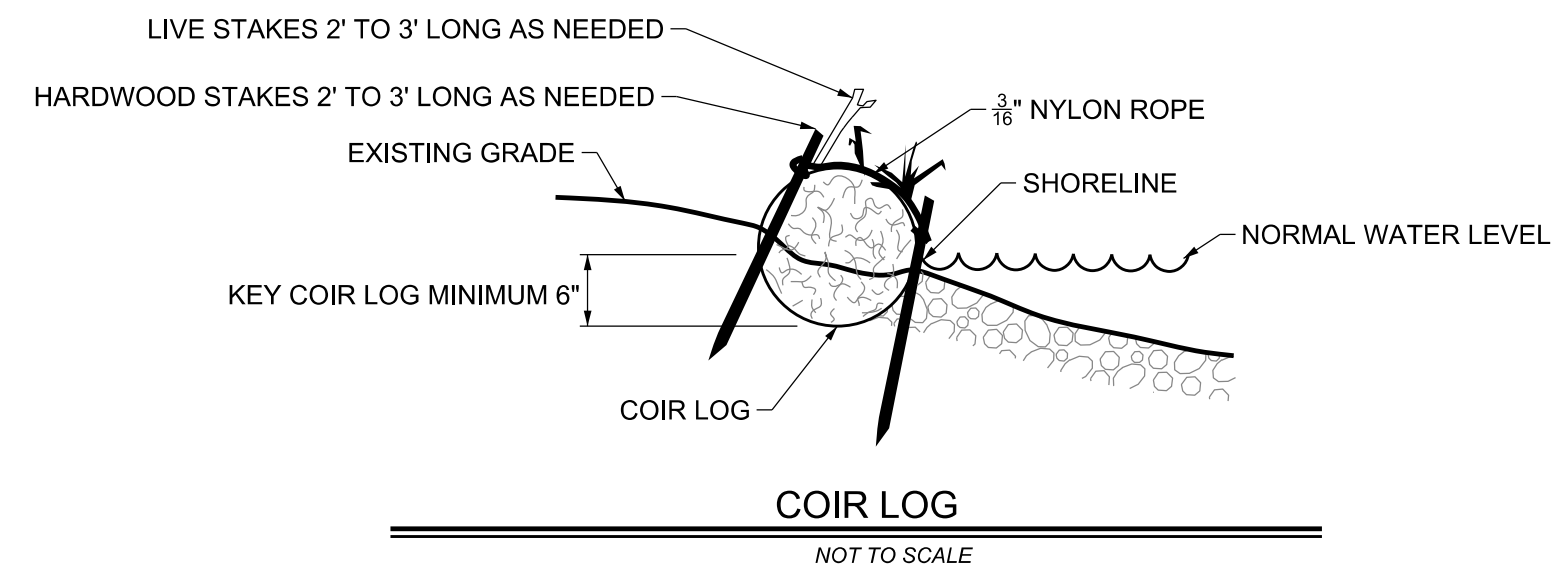
NO DOWNSLOPE SEDIMENT BARRIER IS REQUIRED FOR MOST INSTALLATIONS, COMPOST BERM OR COMPOST FILTER SOCK SHALL BE INSTALLED BELOW BAGS LOCATED IN HQ OR EV WATERSHEDS, WITHIN 50 FEET OF ANY RECEIVING SURFACE WATER OR WHERE GRASSY AREA IS NOT AVAILABLE.

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED. A PIECE OF PVC PIPE IS RECOMMENDED FOR THIS PURPOSE.

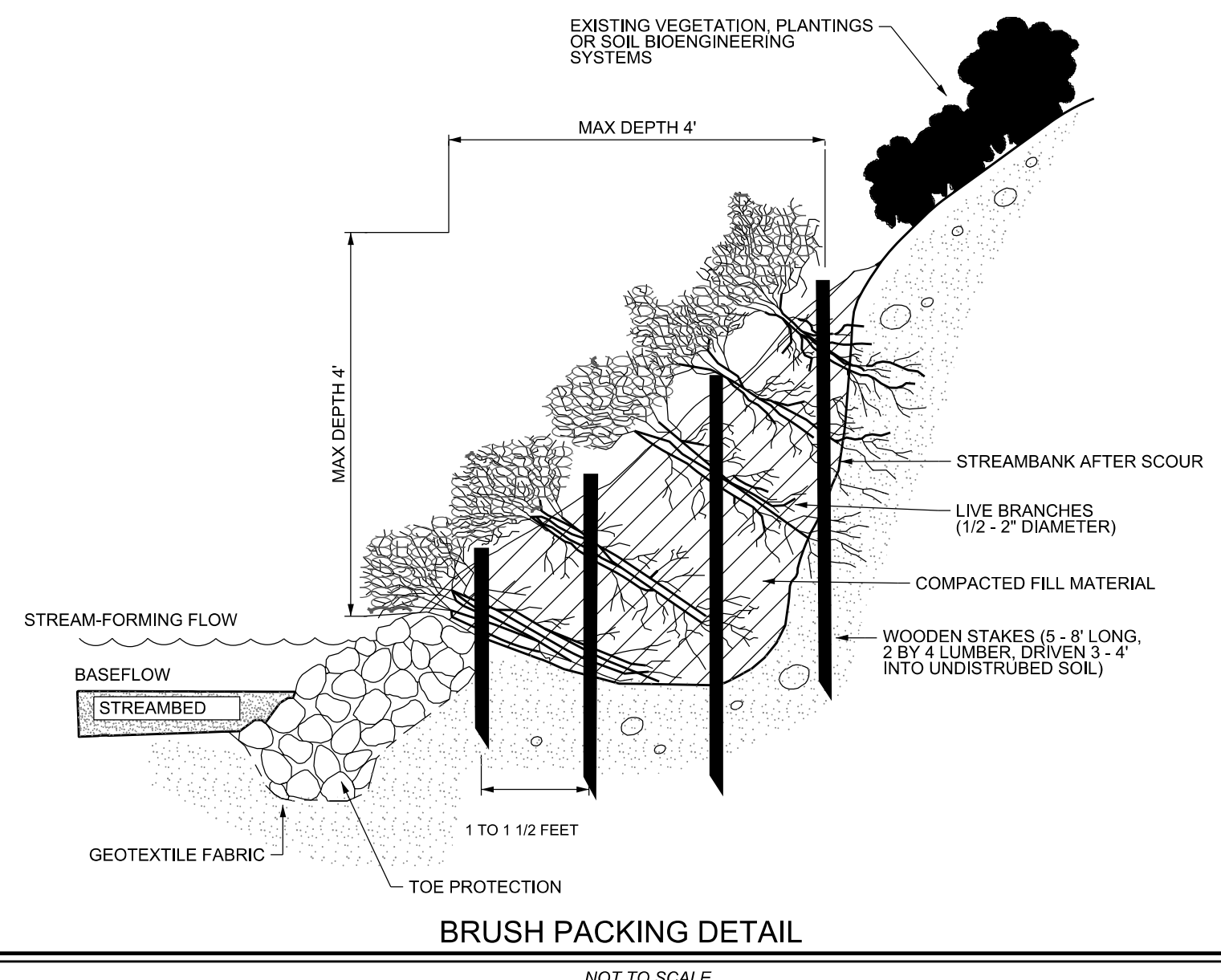
THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHALL BE FLOATING AND SCREENED.

FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

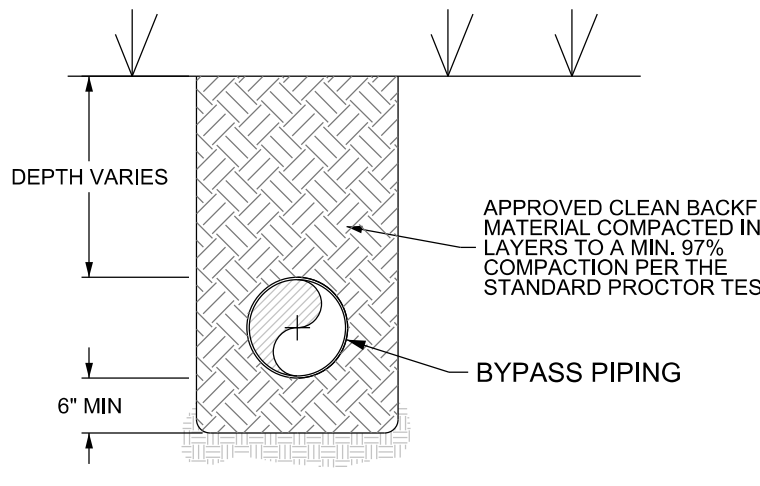
STANDARD CONSTRUCTION DETAIL #3-16
PUMPED WATER FILTER BAG
NOT TO SCALE



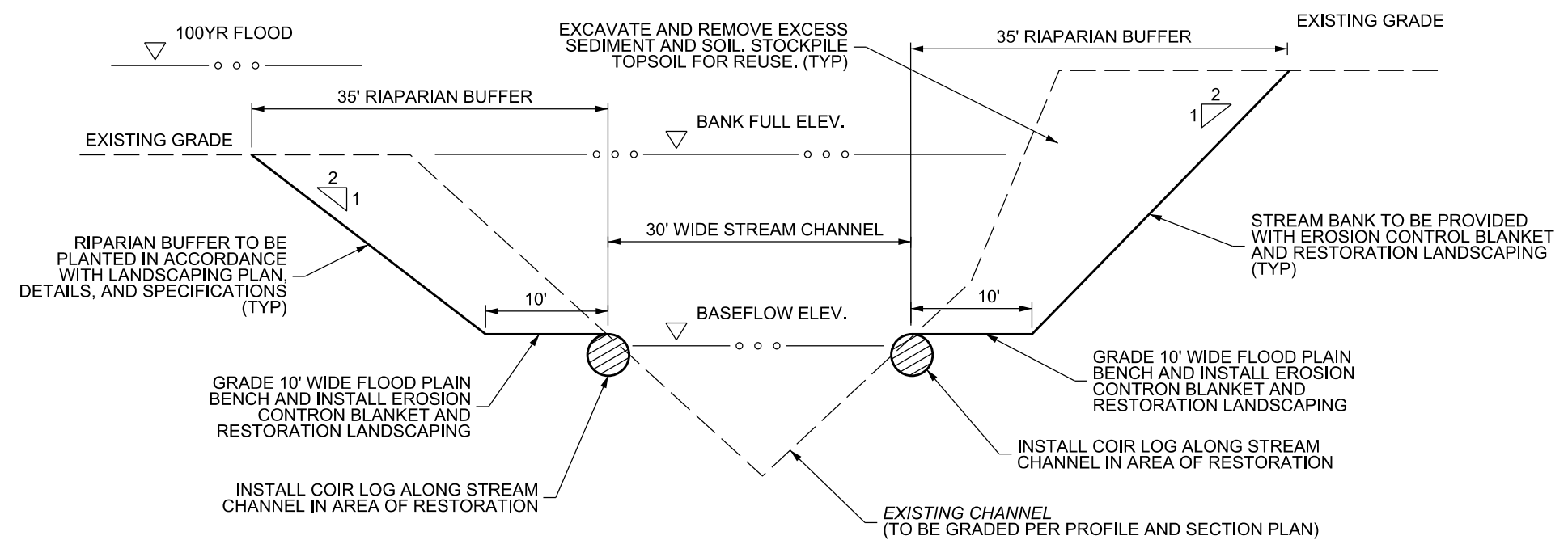
STANDARD CONSTRUCTION DETAIL #11-1
EROSION CONTROL BLANKET INSTALLATION
NOT TO SCALE



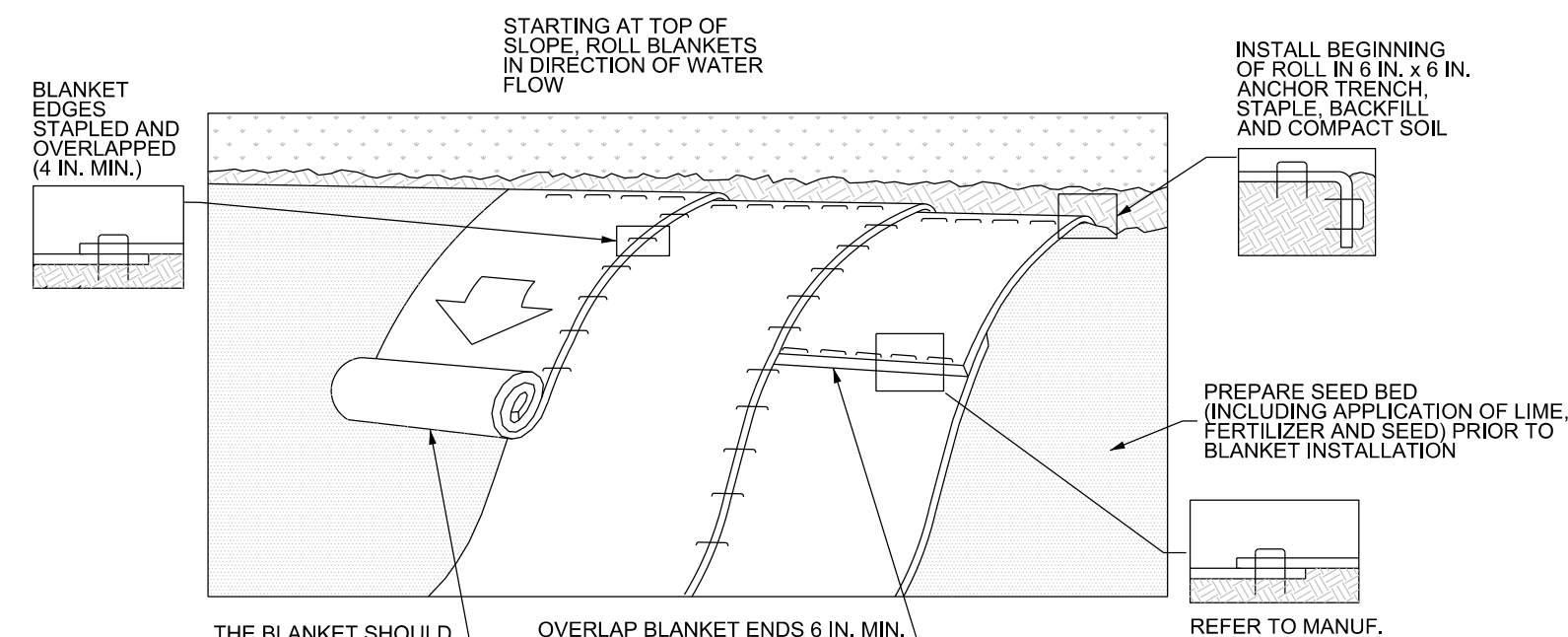
BRUSH PACKING DETAIL
NOT TO SCALE



BYPASS PIPE BACKFILL
NOT TO SCALE



STREAM RESTORATION DETAIL
NOT TO SCALE



- NOTES:
- SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
 - PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
 - SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
 - BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
 - THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 4 CALENDAR DAYS.

STANDARD CONSTRUCTION DETAIL #11-1
EROSION CONTROL BLANKET INSTALLATION
NOT TO SCALE

DATE:	07/19/22
REVISIONS:	
MARK:	COMMENT: MUCD REVIEW LETTER DATED 03/14/22

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PROFESSIONAL REGISTERED ENGINEER
 ROBERT E. FLINCHBAUGH
 PE044274
 PENNSYLVANIA

SITING IN
 NEW HANOVER TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA
 PREPARED FOR
EROSION & SEDIMENT CONTROL NOTES/DETAILS-1
 PROJECT NAME
NEW HANOVER TOWNSHIP
 PROJECT NUMBER
SWAMP CREEK STREAM RESTORATION

DESIGNED BY:	xxx/xxx
DRAWN BY:	MUC/MMG
CHECKED BY:	BMF
PROJECT NO.	NHT-21-205
DATE:	01/12/2021
SCALE:	NTS

SHEET 6 OF 9

C-6

STANDARD EROSION AND SEDIMENT CONTROL NOTES:

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS SHALL BE DONE IN ACCORDANCE WITH APPROVED E&S PLAN. A COPY OF THE APPROVED DRAWINGS (STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY) MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVOKE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE AGENCIES, THE E&S PLAN PREPARER, THE PCSM PLAN PREPARER, THE LICENSED PROFESSIONAL RESPONSIBLE FOR OVERSIGHT OF CRITICAL STAGES OF IMPLEMENTATION OF THE PCSM PLAN, AND THE REPRESENTATIVE FROM THE LOCAL CONSERVATION DISTRICT TO AN ON-SITE PRECONSTRUCTION MEETING.
- AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PENNSYLVANIA ONE CALL SYSTEM INC. SHALL BE NOTIFIED AT 1-800-242-1176 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE UNTIL THE E&S BMPs SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THE E&S PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN THE MANNER SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE REVEGETATED. STOCKPILES SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILES SHALL BE 20:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- ALL BUILDING MATERIALS AND WASTES SHALL BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS. ALL WASTES SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILES SHALL BE 20:1V OR FLATTER.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN AND FREE FROM FUEL OIL. FUEL OIL MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS 42-00-05022-54-5 ONTO MIDDLE CREEK ROAD OR BIG ROAD.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS, ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT OF BMPs, OR MODIFICATIONS TO THOSE INSTALLED WILL BE REQUIRED.
- A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE COLLECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- AREAS WHICH ARE TO BE TOP SOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 4 INCHES TO 6 TO 8 INCHES ON COMPACTED SOILS. PRIOR TO THE APPLICATION OF TOPSOIL, AREAS TO BE VEGETATED SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHODS.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER OR AS OTHERWISE SHOWN ON PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS, DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETTING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION, CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POSITIVE CONSTRUCTION STABILIZATION BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY, IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS. SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
- FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION IN RESPONSE TO EROSION AND SEDIMENT POLLUTION, MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING IMPOSED BY THE DEPARTMENT AS DESCRIBED IN THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY FINES, AND UP TO \$25,000 IN MIDDLE-AND/OR CRIMINAL PENALTIES FOR EACH VIOLATION.

ADDITIONAL EROSION AND SEDIMENT CONTROL NOTES:

- EROSION CONTROL BLANKETING SHALL BE INSTALLED ON ALL SLOPES 3H:1V OR STEEPER AND WITHIN 50 FEET OF A SURFACE WATER AND ON ALL DISTURBED AREAS SPECIFIED ON THE PLAN MAPS AND/OR DETAIL SHEETS.
- FILL MATERIALS FOR EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY DEBRIS. ORGANIC MATERIAL, LARGE STONELIKE AND OTHER OBJECTIONABLE MATERIALS, THE EMBANKMENT SHALL BE COMPACTED IN 12" LAYERED LIFTS.

FEMA FLOODPLAIN:

100-YEAR FLOODPLAIN IS PRESENT ON THIS SITE.

EROSION AND SEDIMENT CONTROL PLAN NOTES:

- ALL AREAS WITHIN THE LIMIT OF DISTURBANCE ARE TO BE CONSIDERED PART OF THE DEMOLITION AREA AS NECESSARY TO COMPLETE THE PROPOSED IMPROVEMENTS.
- COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES. ADDITIONALLY, THE OPERATOR SHALL ASSURE THAT AN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN PREPARED AND HAS BEEN APPROVED BY THE LOCAL MUNICIPALITY IN COMPLIANCE WITH CHAPTER 102.4(b)(5) REGULATIONS, AND IS BEING IMPLEMENTED AND MAINTAINED FOR ALL OFF SITE SOIL AND/OR ROCK SPOIL AND/OR BORROW AREAS. §102.4(b)(5)(xv).

E&S PLANNING DESIGN - 102.(B)(4)

- THE EARTH DISTURBANCE ACTIVITIES SHALL BE PLANNED AND IMPLEMENTED TO THE EXTENT PRACTICABLE IN ACCORDANCE WITH THE FOLLOWING: MINIMIZE THE EXTENT AND DURATION OF THE EARTH DISTURBANCE BY UTILIZING THE CONSTRUCTION SEQUENCE:
- MINIMIZE THE EXTENT AND DURATION OF THE EARTH DISTURBANCE BY UTILIZING THE CONSTRUCTION SEQUENCE.
 - PROTECTION OF EXISTING DRAINAGE FEATURES AND VEGETATION BY MAINTAINING EXISTING DRAINAGE PATTERN AND PROTECTION OF EXISTING TREES TO THE MAXIMUM EXTENT POSSIBLE.
 - MINIMIZE SOIL COMPACTION BY UTILIZING THE CONSTRUCTION SEQUENCE.
 - THE FILTER SOCKS WILL MINIMIZE THE GENERATION OF INCREASED STORMWATER RUNOFF.

THERMAL IMPACTS NOTES 102.4(b)(5)(xiii)

THERMAL IMPACTS TO THE SURFACE WATER CANNOT BE AVOIDED. IMPACTS ARE MINIMIZED BY FILTERING THE SURFACE WATER THROUGH MULCH AND VEGETATION THROUGH EXISTING UNDISTURBED VEGETATION. THE THERMAL IMPACT POTENTIAL TO THE RECEIVING WATERS IS MINIMAL.

DUST CONTROL NOTE:

CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES TO MITIGATE FUGITIVE DUST EMISSIONS AND THE POTENTIAL FOR OFF-SITE DUST MIGRATION. SUCH MEASURES MAY INCLUDE, BUT NOT LIMITED TO, KEEPING TEMPORARY WORKING STOCKPILES COVERED WITH TARPING, WATERING AND NOT OTHERWISE STABILIZED, APPLYING WATER TO DRY EARTHEN SURFACES VIA SPRINKLING OR TRUCK-MOUNTED SPRAY BAR, OR APPLYING MUNICIPALITY APPROVED ADDITIVES.

RECYCLING AND DISPOSAL OF MATERIALS NOTES 102.4(b)(5)(xi)

- THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS. ALL WASTES SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILES SHALL BE 20:1V OR FLATTER.
- ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN E&S PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
 - THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN AND FREE FROM FUEL OIL. FUEL OIL MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
 - ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
 - VEHICLES AND EQUIPMENT MAY NEITHER ENTER DIRECTLY NOR EXIT DIRECTLY FROM LOTS 42-00-05022-54-5 ONTO MIDDLE CREEK ROAD OR BIG ROAD.
 - UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS, ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF THE E&S BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT OF BMPs, OR MODIFICATIONS TO THOSE INSTALLED WILL BE REQUIRED.
 - A LOG SHOWING DATES THAT E&S BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE COLLECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION.
 - SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
 - ALL SEDIMENT REMOVED FROM BMPs SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
 - AREAS WHICH ARE TO BE TOP SOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 4 INCHES TO 6 TO 8 INCHES ON COMPACTED SOILS. PRIOR TO THE APPLICATION OF TOPSOIL, AREAS TO BE VEGETATED SHALL HAVE A MINIMUM OF 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
 - ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
 - ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
 - FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
 - FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
 - FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
 - SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHODS.
 - ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDED AREAS WITHIN 50 FEET OF A SURFACE WATER OR AS OTHERWISE SHOWN ON PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
 - IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS, DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETTING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
 - PERMANENT STABILIZATION IS DEFINED AS A MINIMUM PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION, CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
 - E&S BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
 - UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE E&S BMPs.
 - AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POSITIVE CONSTRUCTION STABILIZATION BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY, IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS. SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
 - UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE LOCAL CONSERVATION DISTRICT TO SCHEDULE A FINAL INSPECTION.
 - FAILURE TO CORRECTLY INSTALL E&S BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION IN RESPONSE TO EROSION AND SEDIMENT POLLUTION, MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING IMPOSED BY THE DEPARTMENT AS DESCRIBED IN THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY FINES, AND UP TO \$25,000 IN MIDDLE-AND/OR CRIMINAL PENALTIES FOR EACH VIOLATION.

CONSTRUCTION SEQUENCE

NOTE - ALL UNDERLINED TEXT IS A CRITICAL STAGE. A LICENSED PROFESSIONAL OR THEIR DESIGNEE SHALL BE ON SITE DURING ALL CRITICAL STAGE CONSTRUCTION.

NOTE - THE CONTRACTOR SHALL ASSURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS PROPERLY AND COMPLETELY IMPLEMENTED.

- PRE-CONSTRUCTION MEETING TO BE HELD WITH REPRESENTATIVES FROM THE MUNICIPALITY, MONTGOMERY COUNTY CONSERVATION DISTRICT, AND CEDARVILLE ENGINEERING GROUP, LLC.
- LIMITS OF DISTURBANCE ARE MARKED IN THE FIELD. TREES SELECTED FOR PRESERVATION OR LOCATED AGAINST THE LOD SHALL HAVE TREE PROTECTION FENCING PLACED AROUND THEM.
- IF AT ANY TIME DURING CONSTRUCTION ACTIVITY IS HALTED FOR GREATER THAN FOUR DAYS, TEMPORARY STABILIZATION SHALL BE PLACED OVER DISTURBED AREAS.
- PRIOR TO ANY EARTH DISTURBING ACTIVITIES ALL PERIMETER AND NECESSARY EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES SHALL BE INSTALLED AS SPECIFIED ON THE EROSION AND SEDIMENT CONTROL PLAN SHEETS. THE ROCK CONSTRUCTION ENTRANCE AND COMPOST FILTER SOCK(S) ALONG THE ACCESS AREA SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLAN ARE TO BE INSTALLED AS SHOWN ON THE PLAN, DOWNSLOPE OF ALL FILL AREAS, AND AS DIRECTED BY THE ENGINEER. THE ROCK CONSTRUCTION ENTRANCE IS NOT TO BE REMOVED UNTIL THE SITE IS STABILIZED.
- CLEARING, GRUBBING, AND SELECT TREE REMOVAL TO BE DONE IN AREAS WHERE EROSION CONTROLS AND TREE PROTECTION ARE IN PLACE.
- CRITICAL STAGE - INSTALL COFFERDAMS FOR RIGHT-BANK RESTORATION, DIVERSION PIPING, AND STREAM RESTORATION.
- CRITICAL STAGE - INSTALL TEMPORARY DIVERSION PIPING FROM DOWNSTREAM TO UPSTREAM END WITHIN LEFT-BANK STREAM AND BACKFILL WITH TEMPORARY EROSION CONTROL MEASURES INCLUDING COMPOST FILTER SOCKS AND SANDBAGS TO PREVENT EROSION. TEMPORARY DIVERSION PIPING SHALL BE INSTALLED AND MAINTAINED THROUGHOUT CONSTRUCTION. STREAM FLOW TO BE DIVERTED AFTER DIVERSION PIPES ARE BACKFILLED.
- INSTALL COFFERDAMS AND DIVERT STREAM FLOW.
- SET UP BYPASS PUMPING AND DEWATERING EQUIPMENT. ANY SEDIMENT-LADEN WATER SHOULD BE DEWATERED THROUGH A DRAINAGE WATER FILTER BAG PRIOR TO DISCHARGING TO A SURFACE WATER BODY.
- INSTALL CLEAN STONE TEMPORARY STREAM CROSSING TO ACCESS RIGHT BANK.
- WITHIN THE RIGHT BANK LOD, REMOVE TREES AND VEGETATION FROM THE RESTORATION AREA. STRIP TOPSOIL AND STAKE OFF FOR REUSE. STREAM CHANNEL MATERIAL TO BE STOCKPILED APART FROM TOPSOIL FOR REUSE WITHIN THE RESTORED STREAM CHANNEL. STOCKPILES SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLANS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. SLOPES SHALL BE 2H:1V OR FLATTER.
- COMPLETE STREAM RESTORATION FOR THE RIGHT BANK AND STREAM CHANNEL. INSTALL J-HOOK CROSS VANE STRUCTURE, STREAM BANK GRADING, FLOODPLAIN BENCH GRADING, STREAM CHANNEL GRADING, INSTALL COIR LOGS, EROSION CONTROL BLANKET/COIR FABRIC MATTING, SEEDING, AND BRUSH PACKING. INSTALL LEFT BANK COIR LOG.
- CRITICAL STAGE - BEGIN RESTORATION PLANTINGS AND CONSTRUCTION OF RIPARIAN/STREAM BUFFER AREA. COIR RIGHT-BANK AS SHOWN ON THE LANDSCAPING PLANS.
- RIGHT BANK TO BE CONSIDERED STABILIZED ONCE 70% PERENNIAL VEGETATIVE COVER HAS BEEN ACHIEVED OVER THE RIGHT BANK AREA.
- CRITICAL STAGE - UPON STABILIZATION OF THE RIGHT BANK, INSTALL LEFT BANK COIR LOG AND COMPOST FILTER SOCKS. REMOVE TEMPORARY STREAM CROSSING AND RELOCATE COIR DAMS TO FILL AND OUTLET. TEMPORARY BYPASS RETURN FLOW TO STABILIZATION.
- CRITICAL STAGE - REMOVE TEMPORARY STREAM DIVERSION PIPING AND ASSOCIATED EROSION CONTROL MEASURES.
- COMPLETE STREAM RESTORATION FOR THE LEFT BANK INCLUDING STREAM BANK GRADING, FLOODPLAIN BENCH GRADING, EROSION CONTROL BLANKET/COIR FABRIC MATTING, SEEDING, AND BRUSH PACKING.
- CRITICAL STAGE - BEGIN PLANTINGS AND CONSTRUCTION OF RIPARIAN/STREAM BUFFER AREA FOR LEFT-BANK AS SHOWN ON THE LANDSCAPING PLANS.
- LEFT BANK TO BE CONSIDERED STABILIZED ONCE 70% PERENNIAL VEGETATIVE COVER HAS BEEN ACHIEVED OVER THE RIGHT BANK AREA.
- UPON STABILIZATION OF THE LEFT BANK REMOVE TEMPORARY FILTER SOCK AND ALLOW COIR LOG TO REMAIN.
- UPON COMPLETION OF STREAM RESTORATION/EARTH DISTURBANCE ACTIVITIES, STABILIZE ALL REMAINING DISTURBED AREAS AND THE ACCESS PATH. ACCESS PATH TO BE CONSIDERED STABILIZED WHEN 70% PERENNIAL VEGETATIVE COVER HAS BEEN ACHIEVED.
- REMOVE ALL TEMPORARY E&S BMPs. THE OWNER/CONTRACTOR SHALL CONTACT THE ENGINEER FOR FINAL INSPECTION.

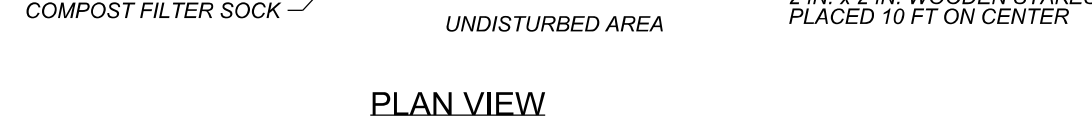
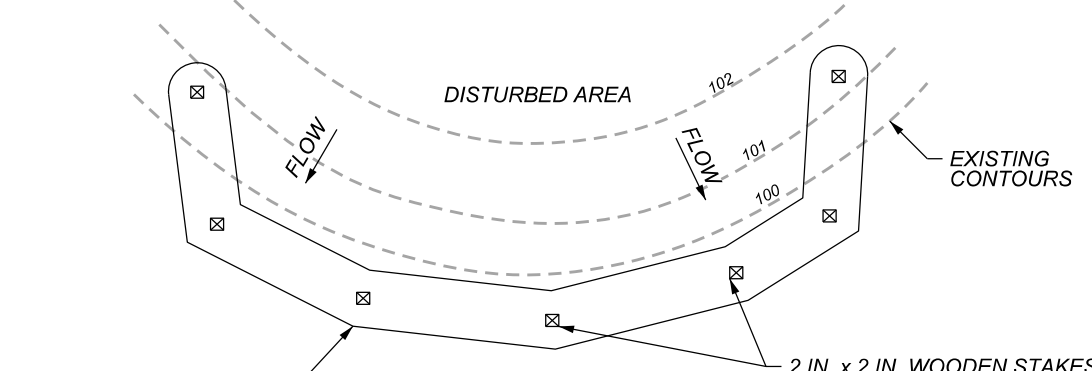
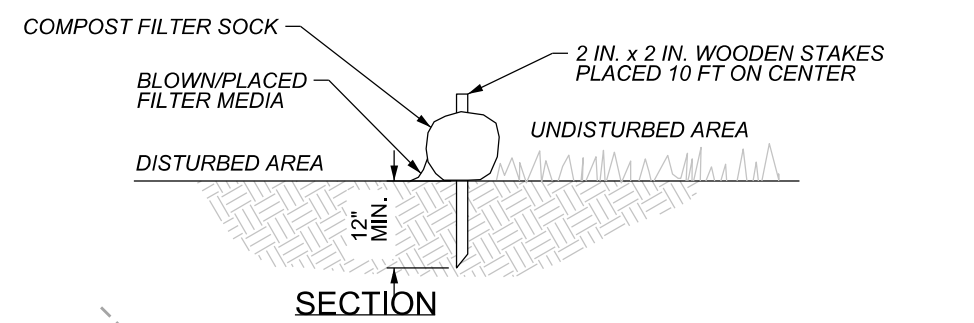
TEMPORARY SEEDING		PERMANENT SEEDING	
TYPE OF COVER AND SPECIES OR MIXTURES	AMOUNT PER ACRE	TYPE OF COVER AND SPECIES OR MIXTURES	AMOUNT PER ACRE
50% ANNUAL RYE	5.0 LB	PERENNIAL RYEGRASS	20.0 LB
50% WINTER RYE	28.0 LB	KENTUCKY BLUEGRASS	30.0 LB
TOTAL	33.0 LB	RED TOP	3.0 LB
		TOTAL	53.0 LB

RECOMMENDED FERTILIZATION RATE		RECOMMENDED FERTILIZATION RATE	
LIME	1 TON PER ACRE	LIME	6 TONS PER ACRE
FERTILIZER	500 LBS 10-10-10 PER ACRE	FERTILIZER	500 LBS 10-20-20 PER ACRE
MULCH	3 TONS PER ACRE	MULCH	3 TONS PER ACRE

- NOTES:
- SEED SHALL BE A MINIMUM 90% PURITY AND 85% GERMINATION.
 - LIME SHALL BE AGRICULTURAL LIMESTONE AT 90% MINIMUM OF CARBONATES.
 - ALL SEEDING, MULCHING AND SODDING SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE CHESTER COUNTY CONSERVATION DISTRICT. ALL SLOPES STEEPER THAN 2H:1V SHALL BE STABILIZED WITH EITHER SOD OR PERMANENT SEEDING AND MULCH AND ANCHORED IN PLACE WITH JUTE NETTING. NO SLOPES SHALL BE STEEPER THAN 2H:1V. TEMPORARY AND PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH THE PENN STATE AGRONOMY GUIDE OR AS RECOMMENDED BEDS DURING THE GERMINATING PERIOD. MULCH SHALL BE APPLIED AT THE RATES RECOMMENDED BELOW. IF THE SITE IS TO REMAIN INACTIVE FOR OVER 6 MONTHS OR AT THE COMPLETION OF FINAL GRADING APPLY PERMANENT SEED TO MULCH AT THE RATES RECOMMENDED BELOW. SHOULD UNFORESEEN EROSION CONDITIONS DEVELOP DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ACTION TO REMOVE SUCH CONDITIONS AND PREVENT DAMAGE TO ADJACENT/DOWN GRADIENT PROPERTIES AS A RESULT OF INCREASED SEDIMENT DISPLACEMENT. STOCKPILES OF WOOD CHIPS, HAY BALE, CRUSHED STONE AND/OR OTHER MATERIALS SHALL BE HELD IN READINESS TO DEAL IMMEDIATELY WITH EMERGENCY PROBLEMS OF EROSION.

SEEDING SPECIFICATIONS

NOT TO SCALE



NOTES:

SOCK FABRIC SHALL MEET STANDARDS OF TABLE 4.1 OF THE PA DEP EROSION CONTROL MANUAL. COMPOST SHALL MEET THE STANDARDS OF TABLE 4.2 OF THE PA DEP EROSION CONTROL MANUAL.

COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 3 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.

TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.

ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.

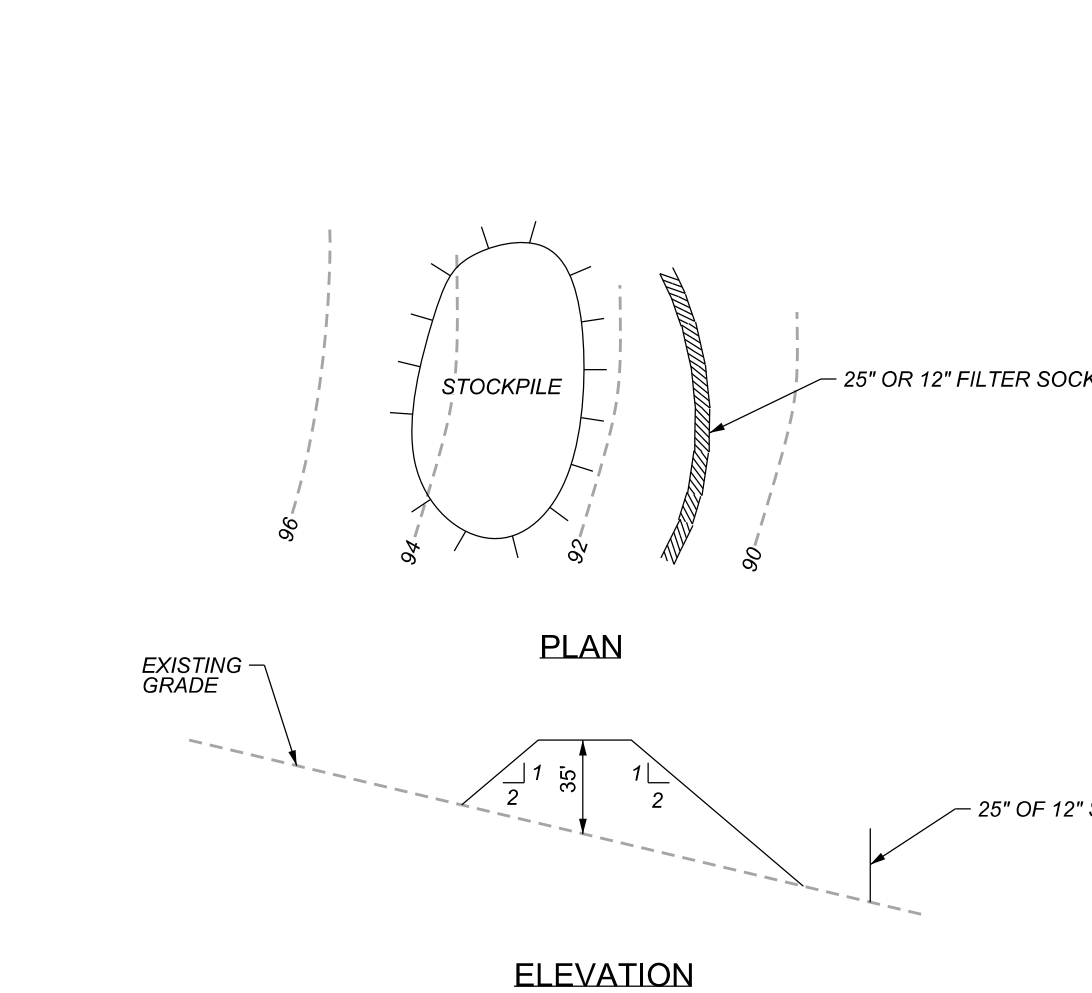
COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTOGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCK

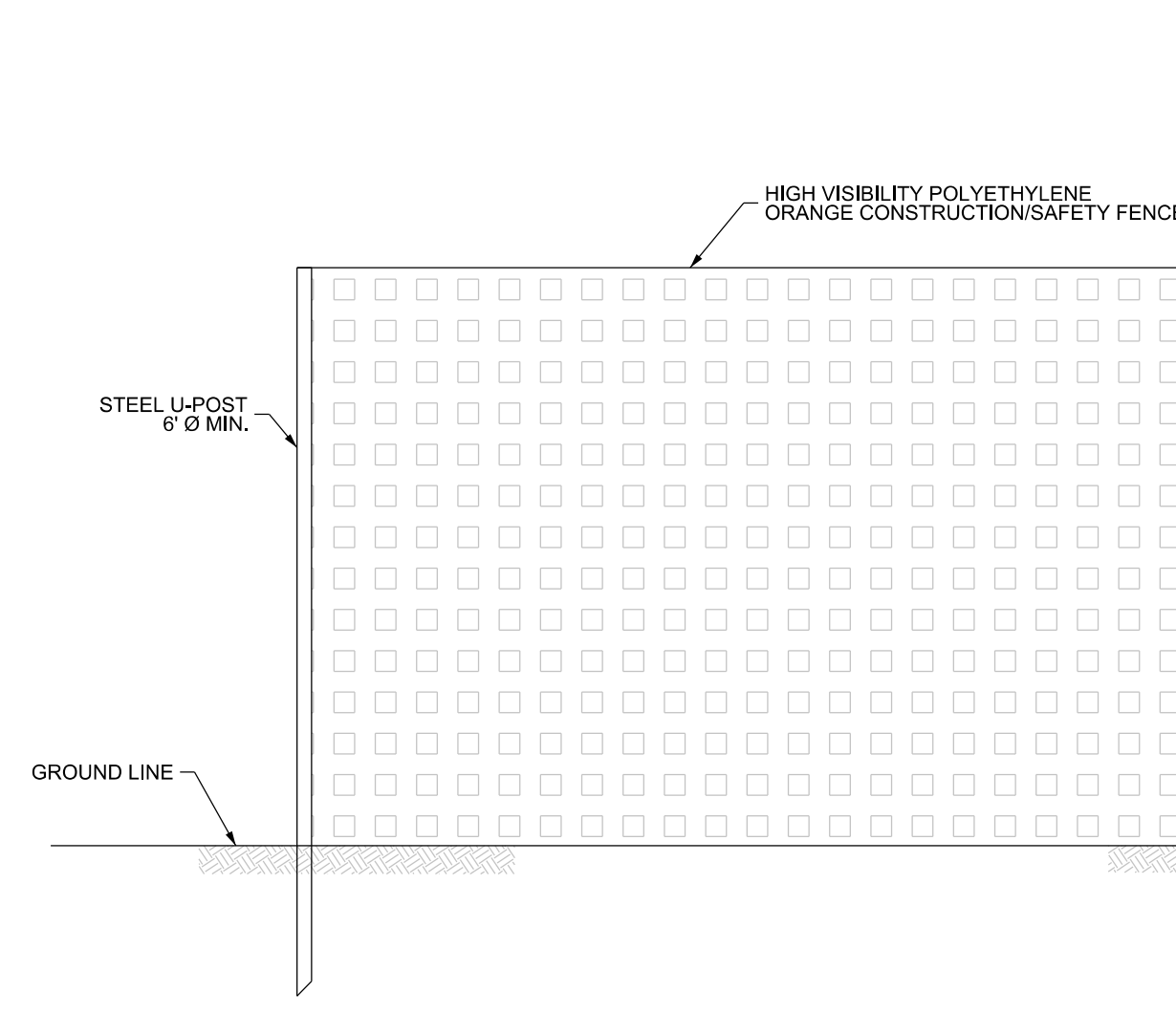
NOT TO SCALE



- NOTES:
- INSTALL SILT FENCE DOWNSLOPE OF AREA OF STOCKPILE.
 - PLACE STOCKPILE IN AREAS SHOWN ON EROSION CONTROL PLAN WITHOUT BLOCKING NATURAL DRAINAGE PATTERNS.
 - FOLLOW DIMENSIONS SHOWN ABOVE. HEIGHT SHOULD NOT EXCEED 35 FT. SIDE SLOPES SHOULD NOT BE STEEPER THAN 2H:1V.
 - MATERIAL SHALL BE TEMPORARILY STABILIZED AFTER 4 DAYS OF INACTIVITY. SEED WITH PENNDOT SEEDING FORMULA "C" FOLLOW SEEDING, FERTILIZATION SCHEDULE & SPECIFICATIONS.

TOPSOIL STOCKPILE AND MAINTENANCE

NOT TO SCALE



- NOTES:
- CONTRACTOR SHALL INSTALL ORANGE CONSTRUCTION FENCE ALONG LIMIT OF DISTURBANCE BOUNDARY PRIOR TO THE START OF ANY EARTHMOVING.
 - CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN FENCE THROUGHOUT ENTIRE DURATION OF THE PROJECT.

ORANGE CONSTRUCTION FENCE

NOT TO SCALE

SOIL NAME	SOIL LIMITATIONS														
	CUTBANKS CAVE	CORROSIVE TO CONCRETE / STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE / SEASONAL HIGH WATER TABLE	HYDRIC/HYDRIC INCLUSIONS / LOW STRENGTH / LANDSLIDE PRONE	SLOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK - SWELL	POTENTIAL SINKHOLES	PONDING	WETNESS
BOWMANVILLE SILT LOAMS	X	C/S			X	X	X	X	X	X			X	X	
KNAUERS SILT LOAMS	X	C/S	X		X	X	X	X		X	X		X	X	X

CUT BANK - CUT BANKS (IF APPLICABLE) WILL BE LAID BACK AT A MINIMUM OF 3H:1(V) TO PRODUCE STABLE SLOPES; CORROSIVE TO CONCRETE / STEEL - THE USE OF CONCRETE IS NOT ANTICIPATED IN THE DEMOLITION OF THE SITE. IF USED, CONCRETE MIXES WILL BE DESIGNED TO BE RESISTANT TO CORROSION. STEEL CASINGS WILL BE PROTECTED WITH COATINGS TO RESIST CORROSION, WHERE APPROPRIATE;

DROUGHTY - SEEDING AND MULCHING WILL BE ACCOMPANIED WITH SUFFICIENT WATERING TO PROMOTE THE GROWTH OF VEGETATION TO ACHIEVE SUFFICIENT COVER TO STABILIZE THE SOIL SURFACES;

EASILY ERODIBLE - EROSION PROTECTION BLANKETS WILL BE USED TO PREVENT ACCELERATED EROSION ON DISTURBED SLOPES OF 3H:1(V) AND STEEPER. SEEDING AND MULCHING OF DISTURBED AREAS WILL BE DONE AS SOON AS POSSIBLE AFTER WORK AREAS ARE COMPLETED. DISTURBED AREAS WILL BE INSPECTED AND MAINTAINED BY RE-SEEDING AS NEEDED UNTIL A STABLE VEGETATIVE COVER IS ESTABLISHED;

FLOODING - EARTH DISTURBANCE ACTIVITIES IN LOW-LYING AREAS WILL BE CONDUCTED DURING FAVORABLE WEATHER (IF POSSIBLE) OR WILL BE DEWATERED DURING CONSTRUCTION ACTIVITIES;

SEASONALLY HIGH WATER TABLE - IF CONSTRUCTION DEWATERING IS CONDUCTED, DEWATERING FLUIDS WILL BE PUMPED THROUGH A FILTER BAG AND DISCHARGED OVER STABLE GROUND SURFACES;

HYDRIC INCLUSIONS - THE EXISTING SITE IS FULLY DEVELOPED. NO WETLANDS WERE IDENTIFIED WITHIN THE LIMIT OF DISTURBANCE;

LOW STRENGTH / LANDSLIDE PRONE - CUT AND FILL SLOPES WILL BE CONSTRUCTED AT A SLOPE ADEQUATE TO PREVENT LANDSLIDES;

SLOW PERCOLATION - NO INFILTRATION OF SITE STORMWATER IS PROPOSED;

PIPING - NO IMPOUNDMENTS ARE PROPOSED TO BE CONSTRUCTED DURING THIS PROJECT. THEREFORE PIPING CONSIDERATIONS ARE NOT APPLICABLE;

POOR SOURCE OF TOPSOIL - ADDITIONAL FERTILIZER, LIME, AND MULCH WILL BE APPLIED AS NEEDED TO ESTABLISH THE REQUIRED 70% UNIFORM VEGETATIVE GROWTH TO STABILIZE THE DISTURBED AREAS;

FROST ACTION - NO STRUCTURES SUSCEPTIBLE TO DAMAGE TO FROST HEAVE WILL BE CONSTRUCTED;

SHRINK / SWELL - THE STRUCTURES WILL NOT BE SUSCEPTIBLE TO DAMAGE BY SHRINK / SWELL ISSUES;

POTENTIAL SINKHOLES - NO SINKHOLE OR KARST TOPOGRAPHICAL FEATURES ARE PRESENT WITHIN THE LIMIT OF DISTURBANCE;

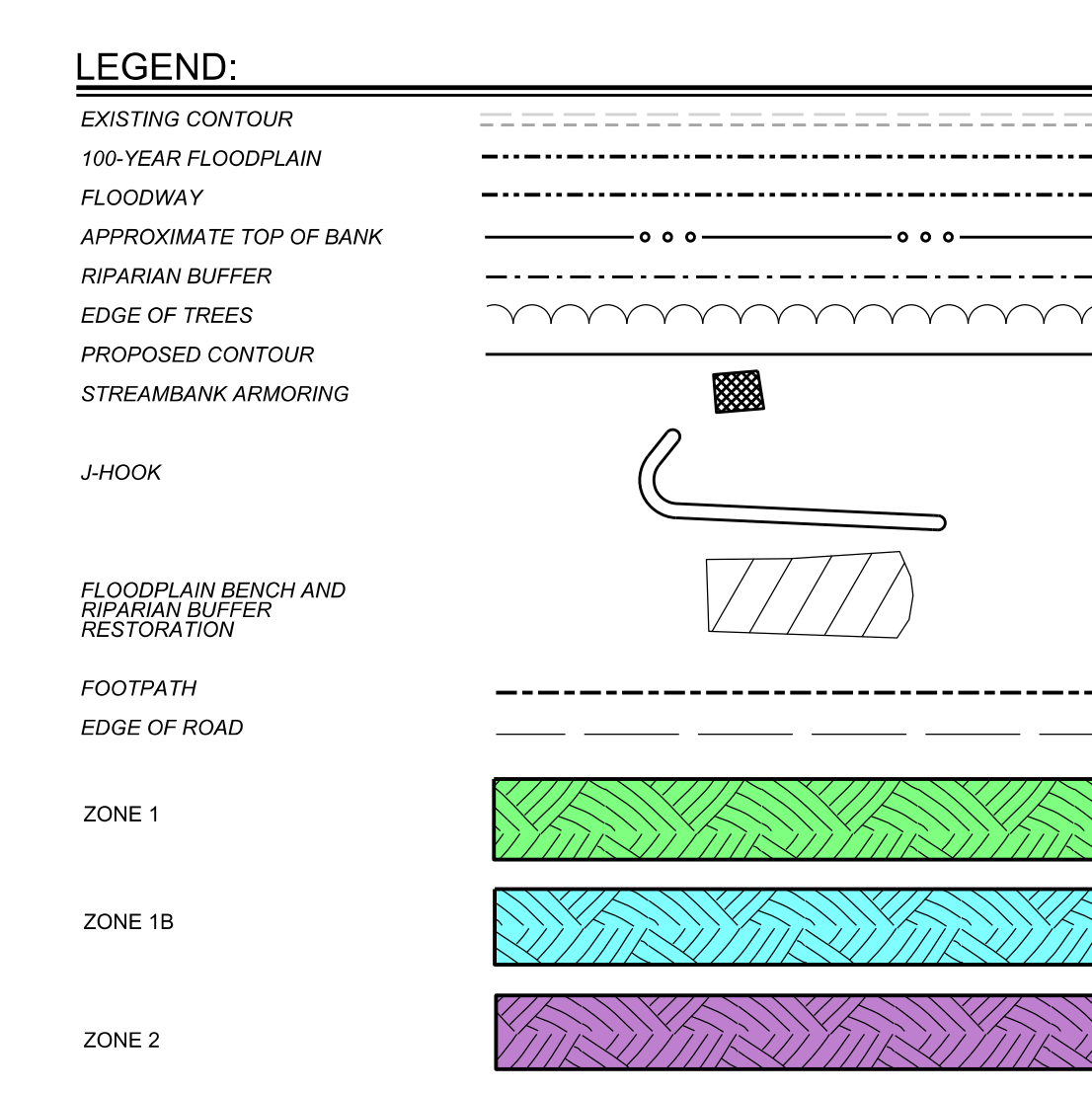
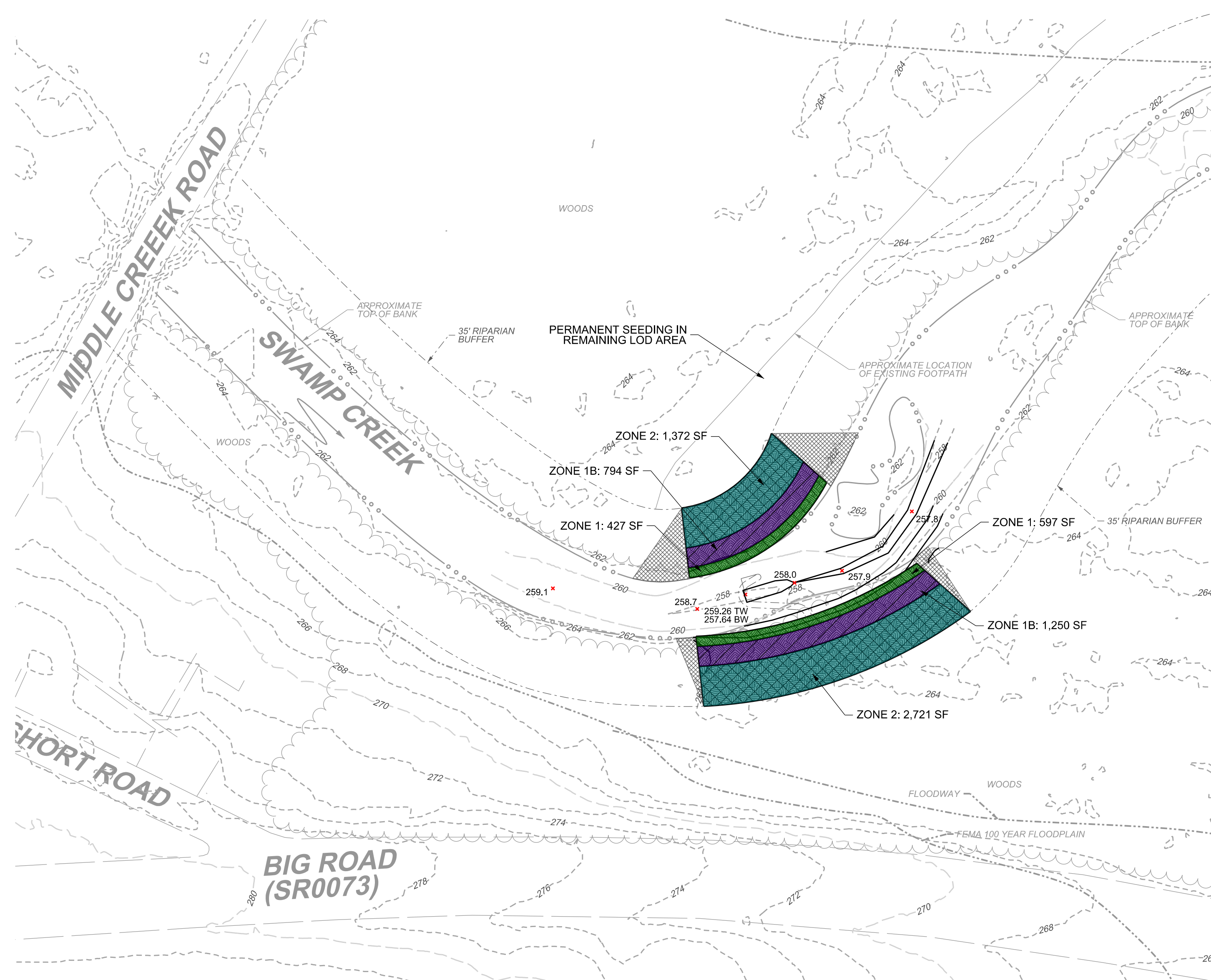
PONDING - EARTH DISTURBANCE ACTIVITIES IN LOW-LYING AREAS WILL BE CONDUCTED DURING FAVORABLE WEATHER (IF POSSIBLE) OR WILL BE DEWATERED DURING CONSTRUCTION ACTIVITIES;

WETNESS - WORK IS ANTICIPATED TO OCCUR DURING DRY WEATHER. IF NECESSARY, TEMPORARY WORK AREAS WILL BE CONSTRUCTED OF GRAVEL OR TIMBER MATS. ACCESS TO BE STABILIZED AND MAINTAINED THROUGHOUT CONSTRUCTION.

SOIL LIMITATIONS TABLE

NTS

MAINTENANCE SCHEDULE			
CONTROL MEASURE	INSPECT	PROBLEMS TO LOOK FOR	POSSIBLE REMEDIES
COMPOST FILTER SOCK	ONCE A WEEK AND AFTER EVERY RUNOFF EVENT	BARRIER HAS BEEN UNDERMINED OR TOPPED SEDIMENT AT 1/2 HEIGHT OF BARRIER TORN OR DAMAGED FABRIC SOCK IS OLDER THAN PERMITTED RUNOFF ESCAPING AROUND BARRIER	REPLACE WITH A ROCK FILTER OUTLET. INCREASE NUMBER OF STAKES AT AFFECTED AREA. REMOVE SEDIMENT, PLACE ACROSS SITE AS FILL. REPAIR ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACE. EXTEND BARRIER.
PUMPED WATER FILTER BAG	BEFORE AND AFTER EACH USE	TORN FABRIC, TEARS OR BREACHES SEDIMENT ESCAPING WITH PURGE WATER MORE THAN 50%	



COMMON NAME	LATIN NAME	TYPE	SIZE	Zone 1A	ZONE 1B	ZONE 2
PUSSY WILLOW	SALIX DICOLOR	LIVE STAKE	36-48"	250	0	0
RED OSIER DOGWOOD	CORNUS SERICA	LIVE STAKE	36-48"	250	0	0
HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	SHRUB, SEEDLING	1.5-2'	0	40	0
RED CHOKEBERRY	ARONIA ARBUTIFOLA	SHRUB, SEEDLING	1.5-2'	0	40	0
RIVER BIRCH	BETULA NIGRA	TREE	4-6'	0	8	0
RED MAPLE	ACER RUBRUM	TREE	4-6'	0	0	10

- ### HERBACIOUS SEED MIX PLANTING NOTES:
- A NATIVE RIPARIAN BUFFER SEED MIX SHOULD BE SOURCED (ERNST SEEDS, ERNMX-178) OR A SIMILAR MIX UP AS LISTED BELOW:
 27.1% ANDROPOGON GERARDII, 'NIAGARA' (BIG BLUESTEM, 'NIAGARA')
 27.0% SORGHASTRUM NUTANS, PA ECOTYPE (INDIANGRASS, PA ECOTYPE)
 20.0% ELYMUS VIRGINICUS, PA ECOTYPE (VIRGINIA WILDBLUE, PA ECOTYPE)
 14.0% PANICUM VIRGATUM, 'CARTHAGE', NC ECOTYPE (SWITCHGRASS, 'CARTHAGE', NC ECOTYPE)
 3.0% RUDEBECKIA HIRTA (BLACKEYED SUSAN)
 2.0% ASCLEPIAS INCANATA, PA ECOTYPE (SWAMP MILKWEEED, PA ECOTYPE)
 2.0% VERBENA HASTATA, PA ECOTYPE (BLUE VERVAIN, PA ECOTYPE)
 1.0% EUPATORIUM PERFOLIATUM, PA ECOTYPE (BONESSET, PA ECOTYPE)
 1.0% HELENIUM AUTUMNALE, PA ECOTYPE (COMMON SNEEZEWEED, PA ECOTYPE)
 0.7% ASTER NOVAE-ANGLAE, PA ECOTYPE (NEW ENGLAND ASTER, PA ECOTYPE)
 0.7% ASTER LIMBELATUS, PA ECOTYPE (FLAT TOPPED WHITE ASTER, PA ECOTYPE)
 0.7% Zizia aurea, PA ECOTYPE (GOLDEN ALEXANDERS, PA ECOTYPE)
 0.5% MONARDA FRETULOSA, FORT INDIANTOWN GAP, PA ECOTYPE (WILD BERGAMOT, FORT INDIANTOWN GAP, PA ECOTYPE)
 0.3% SOLIDAGO RUGOSA, PA ECOTYPE (WRINKLELEAF GOLDENROD, PA ECOTYPE)
 - SEED MIX SHOULD BE APPLIED AFTER WOODY INSTALLATION AND BEFORE MULCHING
 - SEED SHOULD BE APPLIED AT A RATE OF 4 LBS PER 1,000 SQUARE FEET. A MINIMUM OF 3.4 LBS OF SEED MIX IS REQUIRED FOR THE 8,800 SF BUFFER AREA.

- ### RIPIAIAN BUFFER RESTORATION PLANT INSTALLATION NOTES:
- BRUSH HOG UNDERSTORY OUTSIDE OF THE LIMIT OF DISBURANCE WITHIN RIPARIAN BUFFER AREA TO REMOVE INVASIVE SPECIES. NO GRADING SHOULD OCCUR OUTSIDE THE LOD.
 - SPRAY OR SPOT TREAT JAPANESE STILTGRASS WITH AQUATIC GLYPHOSATE.
 - IN AREAS WITHIN THE LOD, ENSURE THE TOPSOIL HAS BEEN REPALED AND THE SUBSTRATE IS NOT COMPACTED, AND THE AREA HAS BEEN PERMANENTLY STABILIZED WITH SEED STRAW MULCH AND ECG.
 - WAIT A MINIMUM OF 10 DAYS AFTER HERBICIDE APPLICATION TO INSTALL PLANTS.
 - TREE SHELTERS FOR SAPPLINGS UNDER 2" DIAMETER
 - ONCE ALL PLANTINGS ARE INSTALLED AND THE SITE STABILIZED, THE PLAN DESIGNER SHALL BE NOTIFIED AND SHALL INSPECT THE RIPARIAN BUFFER RESTORATION AREA.
 - WATER PLANTINGS AT THE END OF EACH DAY FOR TWO WEEKS AFTER PLANTING IS COMPLETED.
 - THE RIPARIAN BUFFER RESTORATION AREAS MUST BE MONITORED AND MAINTAINED POST CONSTRUCTION TO ENSURE THE SPECIES ARE ESTABLISHING AND RECTIFY POTENTIAL ISSUES.

- ALL PLANTS SHOULD BE SPACED AS FOLLOWS:
 - LIVE STAKES: SPACED 2-FOOT APART AND INSERTED PERPENDICULAR TO THE GROUND 3/4 THE LENGTH OF THE STOCK.
 - SHRUBS: RECTANGULAR GRID ON 7-FOOT CENTERS.
 - TREES: RECTANGULAR GRID ON 30-FOOT CENTERS.
- PLANTS SHOULD BE PURCHASED FROM A NATIVE PLANT NURSERY. THE CONTACT INFORMATION FOR A POINT NURSERY CAN BE FOUND BELOW:
 458 SWAMP PIKE
 SCHMENSVILLE, PA 19473
 (610) 287-8523
 info@onpointnursery.com
- IF A LISTED SPECIES IS NOT AVAILABLE, THEY MAY BE REPLACED WITH AN EQUIVALENT ALTERNATIVE SPECIES UPON COORDINATION WITH THE DESIGN ENGINEER.

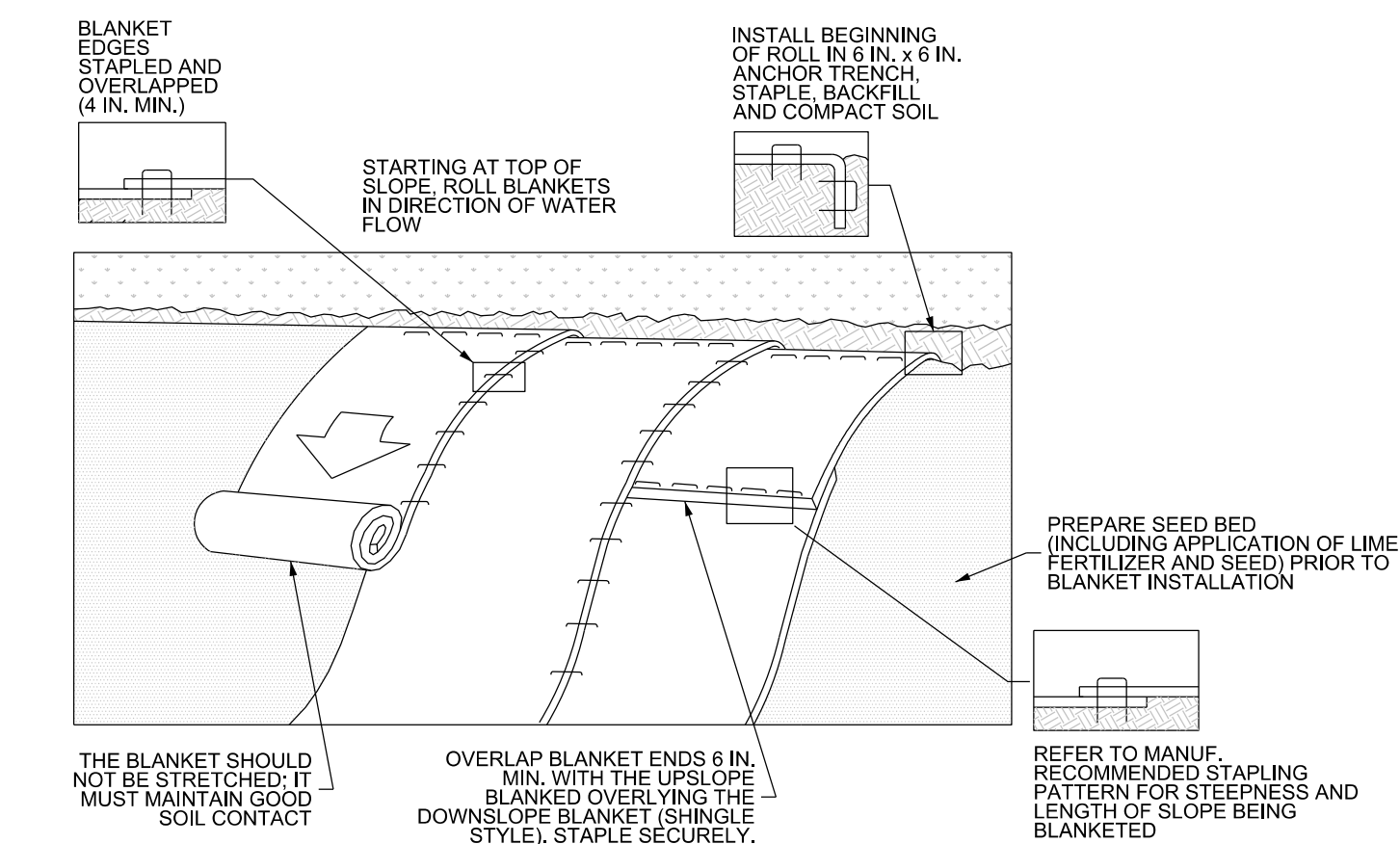
- ### LANDSCAPE PLAN ZONE NOTES
- ZONE 1 - 0'-15'
 LIVE STAKING 0'-5'
 100 - PUSSY WILLOW, SALIX DICOLOR, FACV
 100 - RED OSIER DOGWOOD, CORNUS SERICA (SUB SILKY DOGWOOD, CORNUS AMOMUM)
 PLANTING: STAKES SHOULD BE PLANTED 1'-3" AART AND 2' DOWN PERPENDICULAR TO GROUND. STAKES ARE FLOOD RESISTANT AND FOOT QUICKLY.
 SHRUBS/TREES 5'-15':
 8' - RIVER BIRCH, BETULA NIGRA
 40 - HIGH BUSH BLUEBERRY, VACCINIUM CORYMBOSUM
 40 - RED CHOKEBERRY, ARONIA ARBUTIFOLA
 PLANTING: RIVER BIRCHES, 35' APART. BLUEBERRIES IN ROWS 5' APART ROWS 10' APART. RED CHOKEBERRY, 4' SPACING.
 ZONE 2 - 15'-35'
 10 - RED MAPLE, ACER RUBRUM
 PLANTING 25' APART

RIPIAIAN BUFFER OPERATIONS AND MAINTENANCE:

THE PLANTING PLAN INSPECTION REPORTS AND MONITORING RECORDS MUST BE AVAILABLE FOR REVIEW AND INSPECTION BY THE PDSEP AND MCD. NEW HANOVER TOWNSHIP IS RESPONSIBLE FOR THE MONITORING AND MAINTENANCE OF THE RESTORED AREAS.

THE FOLLOWING ARE INSPECTION ACTIVITIES AND MONITORING RECORD THAT SHOULD BE PERFORMED BY THE PROPERTY OWNER (NEW HANOVER TOWNSHIP)

ACTIVITY	SCHEDULE
WATER TO PROMOTE PLANT GROWTH AND SURVIVAL, ESPECIALLY DURING THE FIRST TWO YEARS AND AFTER DRY SPELLS.	AS NEEDED
INSPECT SITE FOLLOWING RAINFALL EVENTS, ADD/REPLACE VEGETATION WHERE NEEDED, REMOVE TRASH AND DEBRIS.	REGULARLY (MONTHLY)
MONITOR REESTABLISHMENT OF INVASIVE SPECIES (ESPECIALLY JAPANESE STILT-GRASS) SPOT TREAT WITH HERBICIDE AS NEEDED.	REGULARLY (MONTHLY)
REPLACE MULCH TO MAINTAIN 2-3 INCHES AT BASE OF PLANT.	ANNUALLY, SEMI ANNUALY FIRST YEAR
INSPECT FOR REESTABLISHMENT OF INVASIVE SPECIES, TREAT/ REMOVE AS NECESSARY.	ANNUALLY, SEMI ANNUALY FIRST YEAR
REMOVE ACCUMULATED SEDIMENT AND DEBRIS.	ANNUALLY, SEMI ANNUALY FIRST YEAR
INSPECT SITE FOR EROSION AS WELL AS SEDIMENT AND MULCH THAT HAS BE DISPLACED.	ANNUALLY, SEMI ANNUALY FIRST YEAR
INSPECT RESTORATION AREAS FOR DEAD/DYING VEGETATION.	ANNUALLY, SEMI ANNUALY FIRST YEAR
REPLACE VEGETATION AS NEEDED.	ANNUALLY, SEMI ANNUALY FIRST YEAR
REPAIR TREE SHELTERS.	ANNUALLY, SEMI ANNUALY FIRST YEAR
TEST PH OF PLANTING BED, IF BELOW 5.2 APPLY LIME, IF ABOVE 8 APPLY IRON SULFATE.	ANNUALLY, SEMI ANNUALY FIRST YEAR
REMOVE AND REPLACE MULCH	EVERY 2-3 YEARS



NOTES:
 SEED AND SOIL AMENDMENTS SHALL BE APPLIED ACCORDING TO THE RATES IN THE PLAN DRAWINGS PRIOR TO INSTALLING THE BLANKET.
 PROVIDE ANCHOR TRENCH AT TOE OF SLOPE IN SIMILAR FASHION AS AT TOP OF SLOPE.
 SLOPE SURFACE SHALL BE FREE OF ROCKS, CLODS, STICKS, AND GRASS.
 BLANKET SHALL HAVE GOOD CONTINUOUS CONTACT WITH UNDERLYING SOIL THROUGHOUT ENTIRE LENGTH. LAY BLANKET LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH SOIL. DO NOT STRETCH BLANKET.
 THE BLANKET SHALL BE STAPLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 BLANKETED AREAS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT UNTIL PERENNIAL VEGETATION IS ESTABLISHED TO A MINIMUM UNIFORM 70% COVERAGE THROUGHOUT THE BLANKETED AREA. DAMAGED OR DISPLACED BLANKETS SHALL BE RESTORED OR REPLACED WITHIN 14 CALENDAR DAYS.

MAXIMUM BULK DENSITIES

SOIL TEXTURE	MAXIMUM BULK DENSITIES (G/CM3)
SANDS, LOAMY SANDS	1.60
SANDY LOAMS, LOAMS	1.40
SANDY CLAY LOAMS, LOAMS, CLAY LOAMS	1.40
SILT, SILT LOAMS	1.30
SILT LOAMS, SILTY CLAY LOAMS	1.10
SANDY CLAYS, SILTY CLAYS, SOME CLAY LOAMS (25-45% CLAY)	1.10
CLAYS (>45% CLAY)	1.10

- ### SOIL AMENDMENT & RESTORATION
- NOT TO SCALE
- NOTES:
 1. ON-SITE TOPSOIL WITH AN ORGANIC CONTENT OF AT LEAST 4 PERCENT CAN BE PROPERLY STOCKPILED (TO MAINTAIN ORGANIC CONTENT) AND REUSED.
 SPECIFICATIONS:
 1. COMPOST MATERIALS SHALL MEET THE REQUIREMENTS OF PENNDOT PUBLICATION 408 SECTION 807.2.
 2. COMPOST DERIVED FROM OR OBTAINED FROM MUSHROOM GROWING OPERATIONS SHALL BE AGED AT LEAST 7 YEARS.
 3. SUB-SOILING TO RELIEVE COMPACTION:
 A. AFTER EXCAVATION, THE SUBSOIL SHALL BE IN A LOOSE, FRAGILE CONDITION TO A DEPTH OF 20 INCHES BELOW FINAL TOPSOIL GRADE. THERE SHALL BE NO EROSION RILLS OR WASHOUTS IN THE SUBSOIL SURFACE EXCEEDING 3 INCHES IN DEPTH.
 B. TO ACHIEVE THIS CONDITION, SUBSOILING, RIPPING, OR SCARIFICATION OF THE SUBSOIL WILL BE REQUIRED AS DIRECTED BY THE OWNER'S REPRESENTATIVE. WHEREVER THE SUBSOIL HAS BEEN COMPACTED BY EQUIPMENT OPERATION OR HAS BECOME DRIED OUT AND CRUSTED, AND WHERE NECESSARY TO OBLITERATE EROSION RILLS, SUB-SOILING SHALL BE REQUIRED TO REDUCE SOIL COMPACTION IN ALL AREAS WHERE PLANT ESTABLISHMENT IS PLANNED. SUB-SOILING SHALL BE PERFORMED BEFORE COMPOST PLACEMENT.
 C. SUBSOILED AREAS SHALL BE LOOSENEED TO LESS THAN 200 PSI TO A DEPTH OF 20 INCHES BELOW FINAL TOPSOIL GRADE, WHEN DIRECTED BY THE OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL VERIFY THAT THE SUB-SOILING WORK CONFORMS TO THE SPECIFIED DEPTH.
 D. SUB-SOILING SHALL FORM A TWO-DIRECTIONAL GRID. CHANNELS SHALL BE CREATED BY A COMMERCIALY AVAILABLE MULTISHANKED, PARALLEL LOOAM IMPLEMENT (SOLID-SHANK RIPPER). THE EQUIPMENT SHALL BE CAPABLE OF EXERTING A PENETRATION FORCE NECESSARY FOR THE SITE. NO DISC CULTIVATORS, CHISEL PLOWS, OR SPRING LOADED EQUIPMENT WILL BE ALLOWED. THE GRID CHANNELS SHALL BE SPACED 36 INCHES APART, DEPENDING ON EQUIPMENT, SITE CONDITIONS, AND THE SOIL MANAGEMENT PLAN. THE CHANNEL DEPTH SHALL BE A MINIMUM OF 20 INCHES OR AS SPECIFIED IN THE SOIL MANAGEMENT PLAN.
 E. LEVEL SUB-SOILED AREAS BY USE OF A YORK RAKE.
 F. IF SOILS ARE SATURATED, THE CONTRACTOR SHALL DELAY OPERATIONS UNTIL THE SOIL WILL NOT HOLD A BALL WHEN SQUEEZED. ONLY ONE PASS SHALL BE PERFORMED ON ERODIBLE SLOPES GREATER THAN 3:1; WHEN ONLY ONE PASS IS USED (AND AS DIRECTED BY THE ENGINEER), WORK SHOULD BE DONE AT RIGHT ANGLES TO THE DIRECTION OF SURFACE DRAINAGE, WHENEVER PRACTICAL.
 G. EXCEPTIONS TO SUBSOILING INCLUDE AREAS WITHIN THE DRIP LINE OF ANY EXISTING TREES, OVER UTILITY INSTALLATIONS WITHIN 30 INCHES OF THE SURFACE, WHERE TRENCHING/DRAINAGE LINES ARE INSTALLED, WHERE COMPACTION IS BY SPECIFIED (ABUTMENTS, FOOTINGS, OR IN SLOPES) AND ON INACCESSIBLE SLOPES, AS APPROVED BY THE OWNER'S REPRESENTATIVE.
 2. FINAL AMENDED SOIL QUALITY:
 A. ORGANIC CONTENT (BY VOLUME) - 8 TO 13%
 B. FINAL BULK DENSITIES SHALL MEET REQUIREMENTS LISTED ABOVE.
 SOIL AMENDMENT & RESTORATION CONSTRUCTION SEQUENCE:
 1. ALL OTHER CONSTRUCTION WITHIN THE TRIBUTARY AREA TO THE AREA TO BE AMENDED SHALL BE COMPLETED AND STABILIZED BEFORE BEGINNING SOIL RESTORATION.
 2. INITIAL SOIL DISTURBANCE - FOR HIGHLY COMPACTED SITE, PERFORMED WITH EQUIPMENT AS SPECIFIED ABOVE.
 3. UNIFORM BREAK-UP SUBSOIL - AS SPECIFIED ABOVE.
 4. ROCK REMOVAL - PERFORMED WITH A MECHANICAL RIPPER.
 5. DISTRIBUTION OF IMPORTED MATERIAL - SPREAD MAXIMUM OF 1 INCH (ADJUST DEPTH OF COMPOST APPLIED TO ACHIEVE FINAL AMENDED SOIL QUALITY SPECIFICATIONS) OF APPROVED COMPOST AND 1 INCH OF SAND ON TOPSOIL TILL COMPOST AND SAND INTO TOPSOIL WITH A ROTARY TILER THAT IS SET TO A DEPTH OF 8 INCHES.
 6. LIME AND FERTILIZER APPLICATION - AS DETERMINED BY SOIL TESTING.
 7. SOIL INTEGRATION - 2 PASSES WITH ROTOTILER IN PERPENDICULAR DIRECTIONS.
 8. GRADING AND ROLLING OF SITE - TO ACHIEVE A UNIFORM SMOOTH SITE SURFACE.
 9. SEED - AS DIRECTED IN SEEDING SPECIFICATIONS - USE OF HYDROSEED IS ACCEPTABLE.

DATE: 07/15/22

REVISIONS

MARK: COMMENT: REVISION NUMBER

1. MCD REVIEW LETTER DATED 03/14/22

CEG CEDARVILLE
 CIVIL ENGINEERING • ENVIRONMENTAL SERVICES
 • SURVEYING • CONSTRUCTION
 159 East High Street, Suite #500 | Pottstown, PA 19464
 610.705.4500 (Office) | 610.705.4900 (Fax)

PROFESSIONAL ENGINEER
 ROBERT E. FLINCHBAUGH
 PE044274
 PENNSYLVANIA

SITING IN: NEW HANOVER TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA

PREPARED FOR: NEW HANOVER TOWNSHIP

PROJECT NAME: SWAMP CREEK STREAM RESTORATION

DESIGNED BY: xxx/xxx

DRAWN BY: MJC/MMG

CHECKED BY: BMF

PROJECT NO: NHT-21-205

DATE: 01/12/2021

SCALE: NTS

SHEET 8 OF 9

C-8

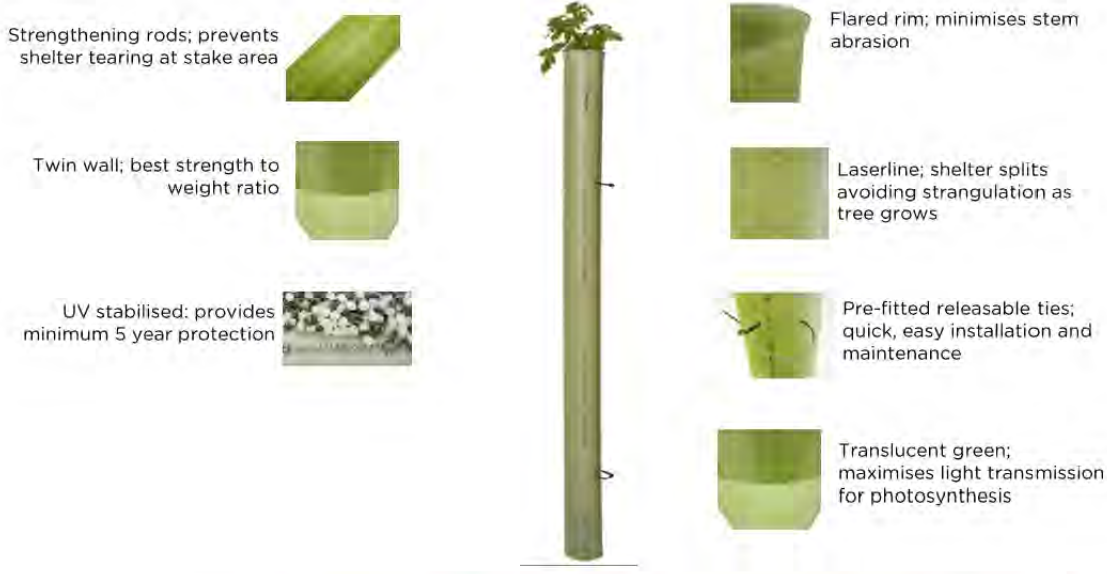


A PGI Company
Fiberweb Geosynthetics Ltd
Blackwater Trading Estate
The Causeway
Maldon CM9 4GG
United Kingdom
T: +44 (0)1621 874201
F: +44 (0)1621 874299

Standard Range

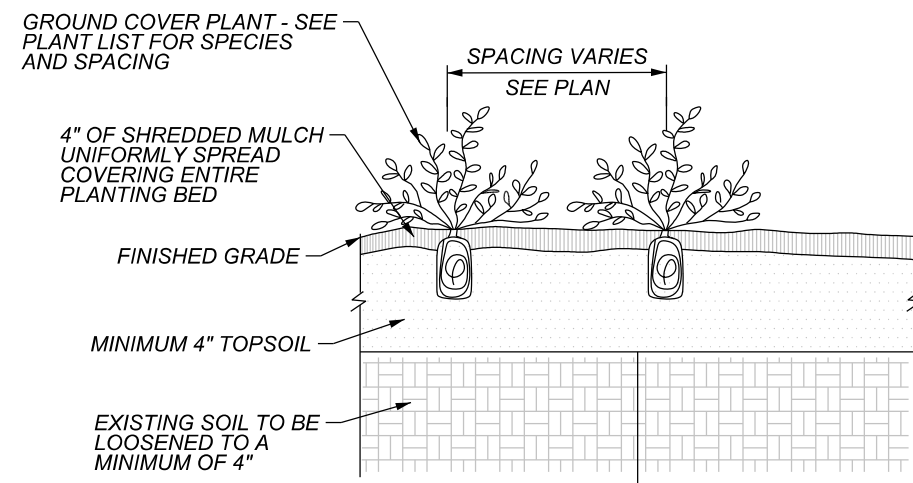
Product Information Sheet

DESCRIPTION Extruded polypropylene tube which protects and helps establish trees
APPLICATION For the protection of trees against animal browsing, herbicide spray and for the improvement of growth through a microclimate
SECTORS Forestry and Horticulture

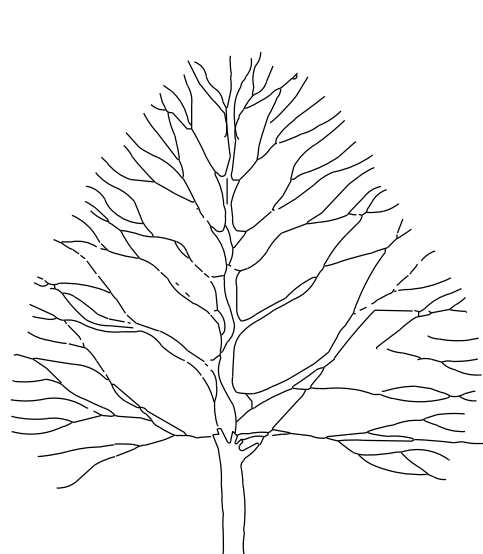


Dimensions	TUBEX Standard Range			TUBEX Standard Plus Range		
	Height	Diameter	No of ties	Height	Diameter	No of ties
Height	m	0.6	0.75	1.2	1.2	1.5
Diameter	mm	73-105	73-105	80-120	80-120	80-120
No of ties		2 (option to have 2)	2	2	2	2
Type of tie		Releasable	Releasable	Releasable	Releasable	Releasable
Size of tie	inch	9	9	9	10	10
Top tie height	mm	435-465	485-515	810-840	810-840	1110-1140
Bottom tie height	mm	-	185-215	235-265	235-265	235-265
Av. Weight per tube	g	72	90	146.5	175	221
Packaging						
Nest		5	5	5	5	5
Bundle		100	100	100	60	60
Bag or strap banded		Bag	Bag	Strap Banded	Strap Banded	Strap Banded

TREE SHELTER SPECIFICATION DETAIL
NOT TO SCALE

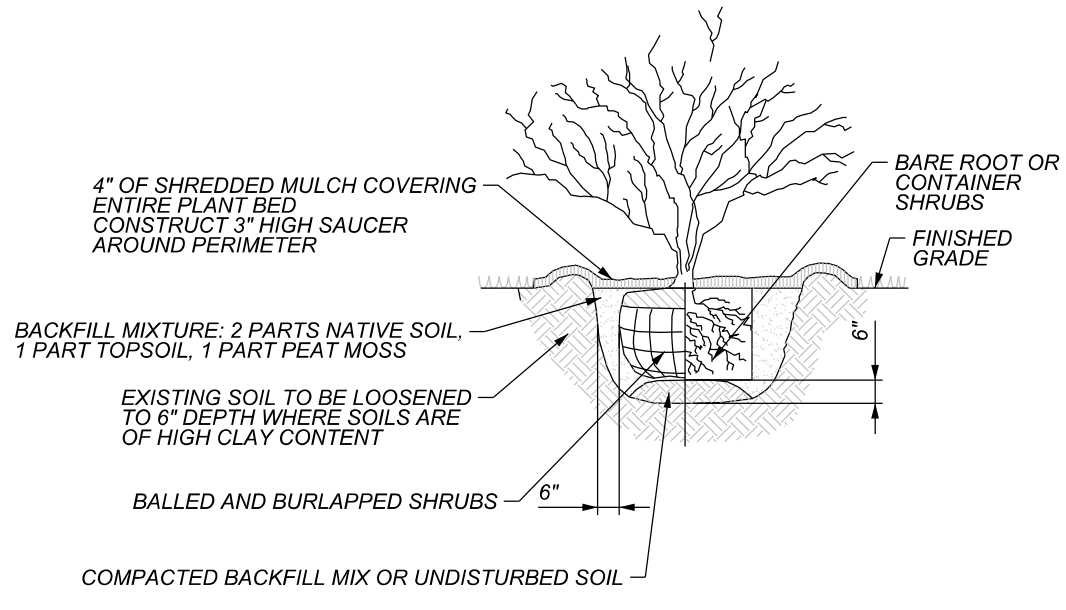


**NO STANDARD CONSTRUCTION NUMBER
GROUND COVER PLANTING**
NOT TO SCALE



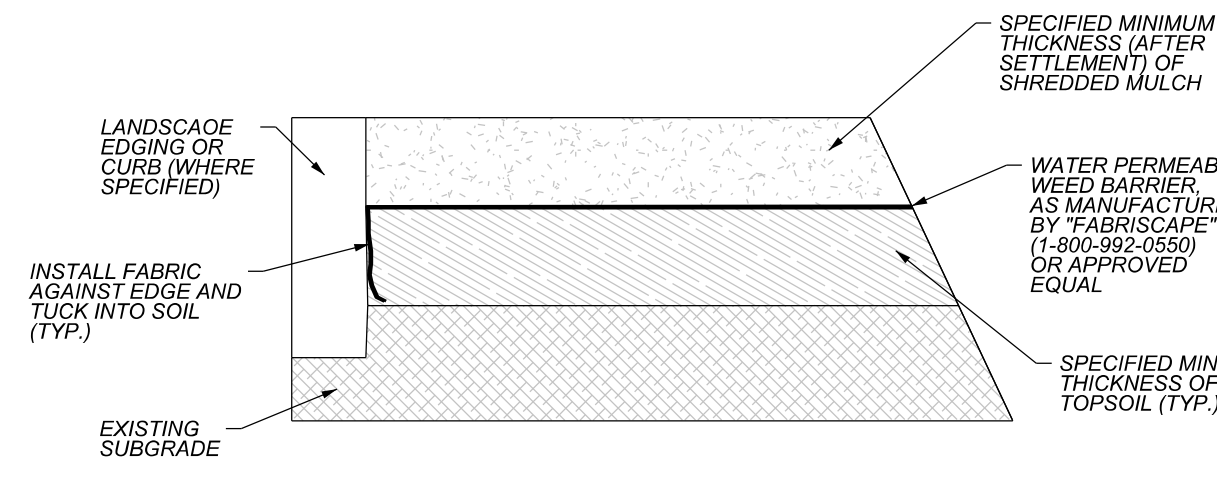
- NOTES:**
- TREES WITH POOR QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED SHALL BE REJECTED.
 - TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS SHALL BE REJECTED.
 - TREES WITH CENTRAL LEADER BROKEN SHALL BE REJECTED.
 - TREES THAT DO NOT DISPLAY THE NORMAL CHARACTERISTICS SHALL BE REJECTED.
 - THIS DETAIL ASSUMES THAT THE AREA OF LOAMY SOIL AVAILABLE TO EACH TREE IS A MINIMUM OF 500 SQ. FT.
 - LOAMY SOILS INCLUDE THE FOLLOWING USDA TEXTURAL CLASSIFICATIONS AND HAVE A CLAY CONTENT OF BETWEEN 15 TO 20%. LOAMY SANDY, CLAY AND SILT LOAM. NOTE THAT SOILS AT THE OUTER LIMITS OF THE LOAM CLASSIFICATIONS MAY PRESENT SPECIAL PLANTING PROBLEMS NOT ANTICIPATED BY THIS DETAIL.
 - LOAMY SOILS ARE DEFINED AS GRANULAR OR BLOCKY FRAGILE SOILS. A MIXTURE OF SAND, SILT AND CLAY PARTICLES WITH A MINIMUM OF 1% BY DRY WEIGHT ORGANIC MATTER. THE SOIL MUST NOT BE SO COMPACTED AS TO IMPED ROOT GROWTH OR DRAINAGE. THE SOIL STRUCTURE SHALL NOT BE PLATY OR MASSIVE. THE SOIL MUST BE TESTED FOR TEXTURE, DRAINAGE CAPABILITY, PH AND NUTRIENT VALUES PRIOR TO ADDING ANY SOIL IMPROVEMENTS.
 - EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.

**NO STANDARD CONSTRUCTION NUMBER
TREE PLANTING (NON-RESTRICTED SOIL CONDITIONS)**
NOT TO SCALE



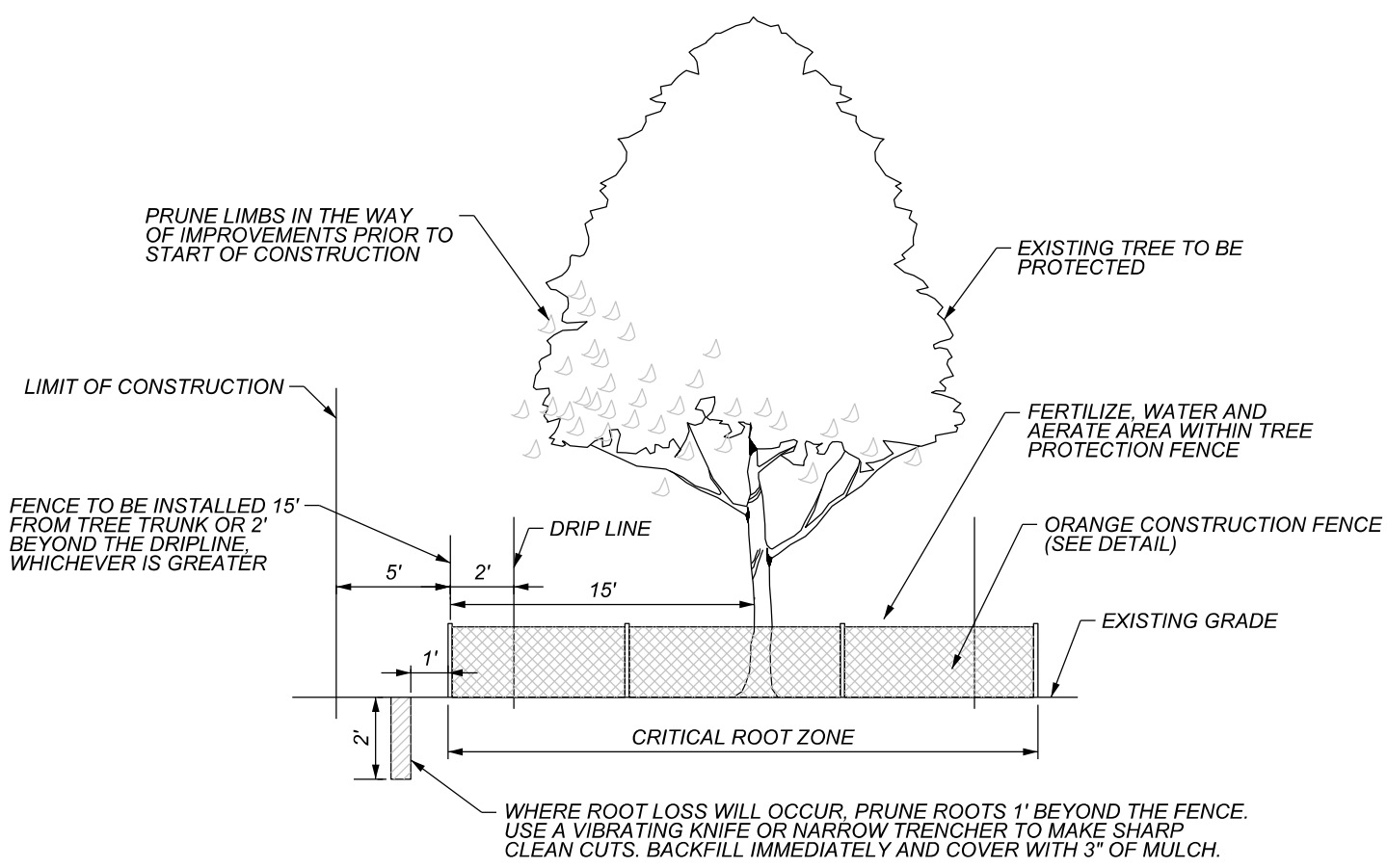
- NOTES:**
- REMOVE BURLAP FROM TOP 1/3 OF BALL OR WITH CONTAINER PLANTS REMOVE POTS AND SLICE BALLS 1" DEEP PER COMMON NURSERY PRACTICE.
 - DO NOT PRUNE EVERGREENS EXCEPT TO REMOVE DEAD AND BROKEN BRANCHES.
 - THIN BRANCHES AND FOLIAGE (NOT ALL BRANCH TIPS) BY 1/3, RETAINING NORMAL PLANT SHAPE (EXCEPT EVERGREEN).
 - SHRUB SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREVIOUS GRADE IN THE NURSERY.

**NO STANDARD CONSTRUCTION NUMBER
SHRUB PLANTING**
NOT TO SCALE



- NOTES:**
- WEED BARRIER TO BE CUT TO ALLOW FOR PLANTING OF SHRUBS AS SPECIFIED IN SHRUB PLANTING DETAIL.

**NO STANDARD CONSTRUCTION NUMBER
WEED BARRIER INSTALLATION**
NOT TO SCALE



- NOTES:**
- NO ENTRY, STORAGE, DISTURBANCE OR ALTERATION SHALL OCCUR IN AREA WITHIN TREE PROTECTION FENCE.

**NO STANDARD CONSTRUCTION NUMBER
TREE PROTECTION AND PRUNING**
NOT TO SCALE

LANDSCAPE SPECIFICATIONS:

- SCOPE OF WORK:**
THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISH GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOL AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.
- MATERIALS**
- GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.
 - TOPSOIL - NATURE, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5% A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.
 - LAWN - ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM SIX INCH (6") THICK LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT AND SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED WITHIN THE SOIL EROSION AND SEDIMENT CONTROL NOTES.
 - LAWNSEED MIXTURE SHALL BE FRESH CLEAN NEW CROP SEED.
 - SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE PEST FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOD IN PLACE.
 - MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN
 - FERTILIZER - FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WATERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
 - FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS, AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY CERTIFIED SOIL LABORATORY.
 - PLANT MATERIAL
 - ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN).
 - IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.
 - PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.
 - TREES WITH DEFORINATION OF BARK, SUN SCALDS, DISFIGURATION OF FRESH CUTS OF LIMBS OVER 1 1/2", WHICH HAVE NOT BEEN COMPLETELY CALLEDUS, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.
 - ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.
 - CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER IS SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE.
 - SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.
 - TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.
- GENERAL WORK PROCEDURES**
- CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.
 - WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.
- SITE PREPARATIONS**
- BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN.
 - ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.
 - CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.
- TREE PROTECTION**
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR 15 FEET FROM THE TRUNK OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
 - A FOURTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY "VISH-FENCE", OR APPROVED EQUAL, MOUNTED ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8") ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.
 - WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
 - AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCK PILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.
- SOIL MODIFICATIONS**
- CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.
 - LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.
 - THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.
 - TO INCREASE SANDY SOILS' ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OF WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
 - TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT MORE THAN 40% CLAY OR SILT BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/ OR AGRICULTURAL GYPSUM. COURSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL. DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.
 - MODIFY EXTREMELY SANDY SOILS (MORE THAN 95%) BY ADDING ORGANIC MATTER AND/ OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
- FINISHED GRADING**
- UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE- GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
 - LANDSCAPE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1")
 - ALL LAWN AND PLANTING AREA SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
 - ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN A ND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.
- TOPSOILING**
- CONTRACTOR SHALL PROVIDE A SIX INCH (6") THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
 - ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOILS TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
 - ALL PLANTING AND LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE TILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA):
 - 20 POUNDS GROW POWER OR APPROVED EQUAL
 - 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP
- PLANTING**
- INsofar THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY, IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT IN INSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
 - PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.
 - ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN- CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.
 - ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM ROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.
 - POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
 - PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS:
 - PLANTS: MARCH 15 TO DECEMBER 15
 - LAWN: MARCH 15 TO JUNE 15 OR SEPTEMBER 1 TO DECEMBER 1
 - PLANTING REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.
 - FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE USUALLY SUSCEPTIBLE TO WINTER DAMAGE, WITH TRANSPILANT SHOCK RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON:
 - ACER RUBRUM, PLATANUS X ACERIFOLIA
 - BETULA VARIETIES - POPULUS VARIETIES
 - CARPINUS VARIETIES, PRUNUS VARIETIES
 - CRATAEGUS VARIETIES - PYRUS VARIETIES
 - KOELERUTERIA, QUERCUS VARIETIES
 - LIQUIDAMBAR STRYCIUM, ULMUS, TOMENTOSA
 - LIRODENDRON TULIPIFERA - ZELKOVA VARIETIES
- PLANTING PITS SHALL BE DUG WITH LEVEL OF CONVEX BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:
 - 1 PART PEAT MOSS
 - 1 PART COMPOSTED COW MANURE BY VOLUME
 - 3 PARTS TOPSOIL BY VOLUME
 - 21 GRAMS AGRIFORM PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS
 - 2 TABLETS PER 1 GALLON PLANT
 - 3 TABLETS PER 5 GALLON PLANT
 - 4 TABLETS PER 15 GALLON PLANT
 - LARGER PLANTS; 2 TABLETS PER 1/2" CALIPER TRUNK
- FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY.
 - ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLARE BEGINS, IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL.
 - ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE. NO PRUNING SHALL BE CONDUCTED WITHIN THE FIRST YEAR OF PLANTING.
 - GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL BE WEEDED AND TREATED WITH A PRE-EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION.
 - NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS
 - ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR SAUCER. NO MULCH IS TO TOUCH THE TRUNK OF THE TREE OR SHRUB.
 - ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.
- TRANSPLANTING (WHEN REQUIRED)**
- ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT. (SEE SPECIFICATION 2.F. ABOVE).
 - IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND.
 - PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.
- UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
 - TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
 - IF TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.
- WATERING**
- NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH A MANNER AS TO NOT DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED.
 - SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT THE TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.
 - IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S OBLIGATION OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.
- GUARANTEE**
- THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE REASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER AT AUTHORIZED REPRESENTATIVE.
 - ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANT SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITH EXCEPTION.
 - TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING, AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE ON INSECTS AND DISEASE.
 - LAWN SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE FROM ERODED OR BARE AREAS.
- CLEANUP**
- UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.
 - THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.

DATE: 07/19/22

REVISIONS

MARK: COMMENT: REVISION LETTER DATED 03/14/22

1. MUCD REVIEW LETTER DATED 03/14/22

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SITATED IN NEW HANOVER TOWNSHIP, MONTGOMERY COUNTY, PENNSYLVANIA

PREPARED FOR: E&S CONTROL LANDSCAPE/PLANTING DETAILS

PROJECT NAME: NEW HANOVER TOWNSHIP SWAMP CREEK STREAM RESTORATION

DESIGNED BY: xxx/xxx

DRAWN BY: MJC/MMG

CHECKED BY: BMF

PROJECT NO: NHT-21-205

DATE: 01/12/2021

SCALE: NTS

SHEET 9 OF 9

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