

1-800-646-0400

February 12, 2020

Ms. Barcy F. McNeal Secretary Docketing Division The Public Utilities Commission of Ohio 180 East Broad Street Columbus, OH 43215-3793

# Letter of Notification Fostoria West End (AEP)-Lemoyne-West Fremont 138 kV Transmission Line and Woodville No. 2 Substation Upgrade Project <u>Case No. 19-1337-EL-BLN</u> Supplemental Information

Dear Ms. McNeal:

In response to Staff's request for additional information please find enclosed copies of both the NPDES and floodplain permits associated with the Woodville Substation portion of the Project.

At Staff's request, we are submitting this additional information into the docket as a supplement to the Letter of Notification application.

Should the Ohio Power Siting Board desire further information or discussion of this submittal, please contact me at (330) 384-2526.

Sincerely,

Scott M. Humphrys

Transmission Siting Supervisor

Energy Delivery Transmission and Substation Design

FirstEnergy Service Company

Attachments

# FLOOD HAZARD AREA DEVELOPMENT PERMIT

This permit is issued based on documentation that the information provided in the Flood Hazard Development Permit Application is in compliance with the Sandusky County Flood Damage Reduction Regulations.

Address or property location:Ju	nction of State Rout 582 and State Route 105, Woodville
Township, OH	
Description of development activity:	Expansion of existing electrical substation, including fill in
the 100-year-floodplain to match exis	sting grade

The permittee understands and agrees that:

- An as-built Elevation Certificate will be submitted to the Floodplain Administrator after the first floor of a new, substantially improved, or substantially damaged, residential or non-residential structure is constructed;
- A final Letter of Map Revision will be obtained where a Conditional Letter of Map Revision was required as part of the permit application;
- The permit is issued on the representations made herein and on the application for permit;
- The permit may be revoked because of any breach of representation;
- Once a permit is revoked all work shall cease until the permit is reissued or a new permit is issued:
- The permit will not grant any right or privilege to erect any structure or use any premises
  described for any purposes or in any manner prohibited by the codes or regulations of the
  community;
- The permittee hereby gives consent to the Floodplain Administrator to enter and inspect activity covered under the provisions of the Floodplain Management Regulations;
- The permit form will be posted in a conspicuous place on the premises in plain view; and,
- The permit will expire if no work is commenced within one year of issuance.

Issued by:	John	ant	Date:	11-26-2019
	Floodpla	in A <del>dmin</del> istrator		

Permit Number: 008-2019

#### SPECIAL FLOOD HAZARD AREA DEVELOPMENT PERMIT APPLICATION FOR SENECA COUNTY

Application is hereby made for a DEVELOPMENT PERMIT as required by the Flood Damage Prevention Resolution of December 13, 2001 Journal 72 pages of 50 of Seneca County for development in an identified Flood Hazard Area, amended August 22, 2008. All activities shall be completed in accordance with the requirements of said Ordinance. The development to be preformed is described below and in attachments hereto. The applicant understands and agrees that:

- This permit is issued on the conditions and facts described;
- Any permit may be repealed if conditions of facts change;
- Permit void if the activity has not begun within 180 days of the issuance date;
- The permit will remain valid for one year from date of issuance.
- · Contact the flood plain administrator if you have any questions regarding this form:

Sandusky County Regional Planning Commission 2511 Countryside Drive, Suite C Fremont, OH 43420

Owner's Name:	American Transmission Systems	Builder's Nam	ne:		
Address:	7 / 0 South Iviain, Akron, UH 44308	Address:			
Phone:	724-830-5971 	Phone:			
order to determi National Flood I	ion to completion of this form the appli ine that the proposed development is on the surance Program. Additional informations of the area	compliant with the local and ation may include but is not i	federal flood dar limited to: Site s	mage prevention criter	ria of the
DESCRIPTION	OF WORK				
Location of		6801 OH - 582, Woodville T	ownship, OH		
New Bo Reside Nonres Installa	ntial	Existing Structure Alteration Addition Accessory Materials Storage		Filing / Grading Mining / Degrading Watercourse Other*	
This work will co	. First Energy will be expanding the e กง	xisting substation at 6810 C	)H-582		
zzisiiiy substatit					
*Dimensions	e allaureu sile piaris				
4. If the propo construction  NOTE: An exist greater than 50 structures only meet "new cons	ory storage of SFHA should not be lessed construction is an alteration, addit a \$ What is sting structure must comply with the file of the market value of the structure and that once a structure meets the struction" requirements. For floodplain	ion or improvement to an exthe estimated market value lood protection standards if ) FEMA maintains that the definition of "new construct management purposes" in	kisting structure, of the existing st it is substantial impression" any further new construction	indicate the cost of precincture \$	oposed ?  vement equal copplies to existing structure muster which "start co
construction" be	egan on or after the effective date of th	ne initial Flood Insurance Ra	ite Map issued b	y FEMA for the comm	unity.
X"A" o	ood Zone within this parcel (obtained from Approximate Zone "A 'A" Zone, Registered Engineer or So	E" Elevation Determined to	be	mean sea level.	
6. Elevation of	of Building Site is determined by a Reg	istered Engineer or Surveyo	or to be r	mean sea level.	
detern	Y Sounty Flood Plain Regulations prohi in a flood plain. Restrictions are place Administrator before proceeding.	bit new residential structure ced on other non-residential	s and/or substar   structures withii	ntial improvements wit n these areas. Please	hin areas consult with
EXISTING PRO REQUIREMENT AND AGREE TO	TALL STATEMENTS IN AND ATTAC PERTY AND THE PROPOSED DEVE IS FOR SPECIAL FLOOD HAZARD A O ABIDE THERETO. I UNDERSTAN OCAL PERMITS.	ELOPMENT ACTIVITY. I U AREA ACTIVITIES PER TH	NDERSTAND T E APPROPRIA	HE DEVELOPMENT TE ORDINANCE (RES	SOLUTION)
Applicant's Si	gnature		Date		

#### **ADMINISTRATIVE**

NOTE: The following is to be completed by the local floodplain administrator. All references to elevations are in feet mean sea level (m.s.l.) The term base flood elevation means the same as 100-year elevation. 7. Is the proposed development located in: \_\_\_\_\_ Not located in a floodplain an identified floodway a flood hazard area where base flood elevations exist with no identified floodway an area within the floodplain fringe an approximate flood hazard area (Zone A). If yes, complete only 7a in the following question. \*See No. 10. NOTE: Floodway development must demonstrate through hydrologic and hydraulic analysis, performed in accordance with standard engineering practice, that no increase is base flood elevation will result during occurrence of the base flood discharge. If base flood elevations exist with no floodway delineation, hydrologic and hydraulic analysis is required to demonstrate not more than one foot increase at any point to the water surface elevation of the base flood. Does proposed development meet NFIP and local General Standards at Section 5.1 of your regulations? \_\_\_\_\_ Construction materials and methods resistant to flood damage\_\_\_\_\_\_ New Residential prohibited. Subdivision designed to minimize flood damage Utilities safe from flooding Anchored properly, Compensatory storage remains the same. 8b. Does proposed development meet NFIP and local Specific Standards at Section 5.2 of your regulations? Floodway Encroachments-proposed action will not obstruct flood waters. Proposed site grade elevations if fill or topographic alteration is planned. Proposed lowest floor elevation expressed in feet mean sea level (nonresidential only). New Residential/Substantial Improvement prohibited. 9. Base flood elevation (100-year) at proposed site \_\_\_\_\_feet m.s.l. Data Source: FIRM effective date: May 17, 1990 FEMA Community Number: 390779 10. Does the structure contain: enclosed area other than basement, below the lowest floor? \_\_\_\_\_basement 11. For structures located in approximate A zones (no BFE available) the structure's lowest floor is \_\_\_\_\_\_ feet above the highest grade adjacent to the structure. 12. The certified as-built elevation of the structure's lowest floor is feet above m.s.l.\* 13. The certified as-built floodproofed elevation of the structure is \_\_\_\_\_\_ feet above m.s.l.\* NOTE: \*Certificates of a registered engineer or land surveyor documenting these elevations are necessary if elevations are provided by applicant. 14. The proposed development is in compliance with applicable floodplain standards. PERMIT ISSUED ON 15. The proposed development is <u>not</u> in compliance with applicable floodplain standards. PERMIT DENIED ON \_\_\_\_\_ Reason: NOTE: All nonresidential structures must be built with the lowest floor, including the basement, elevated or flood proofed to or above the base flood elevation (100-year) unless variance has been granted. Only nonresidential structures may be flood proofed. New Residential structures and/or Substantial Improvements are prohibited. 16. The proposed development is exempt from the floodplain standards per Section 4.2 of the Seneca Flood Damage **Prevention Resolution.** Date: \_\_\_\_\_ Administrator's Signature\_\_\_



Mike DeWine, Governor Jon Husted, Lt. Governor Laurie A. Stevenson, Director

Oct 25, 2019

American Transmission Systems, Inc. (FirstEnergy) Amanda Habershaw 76 South Main Street Akron, OH 44308

Re: Approval Under Ohio EPA National Pollutant Discharge Elimination System (NPDES) - Construction Site Stormwater General Permit - OHC000005

Dear Applicant,

**Permit Effective Date:** 

Your NPDES Notice of Intent (NOI) application is approved for the following facility/site. Please use your Ohio EPA Facility Permit Number in all future correspondence.

Facility Name: Woodville Substation

Facility Location: 6801 OH-582
City: Woodville
County: Sandusky
Township: Woodville
Ohio EPA Facility Permit Number: 2GC05844\*AG

Please read and review the permit carefully. The permit contains requirements and prohibitions with which you must comply. Coverage under this permit will remain in effect until a renewal of the permit is issued by the Ohio EPA.

If more than one operator (defined in the permit) will be engaged at the site, each operator shall seek coverage under the general permit. Additional operator(s) shall submit a Co-Permittee NOI to be covered under this permit. There is no fee associated with the Co-Permittee NOI form.

Please be aware that this letter only authorizes discharges in accordance with the above referenced NPDES CGP. The placement to fill into regulated waters of the state may require a 401 Water Quality Certification and/or Isolated Wetlands Permit from Ohio EPA. Also, a Permit-To-Install (PTI) is required for the construction of sanitary or industrial wastewater collection, conveyance, storage, treatment, or disposal facility; unless a specific exemption by rule exists. Failure to obtain the required permits in advance is a violation of Ohio Revised Code 6111 and potentially subjects you to enforcement and civil penalties.

To view your electronic submissions and permits please Logon in to the Ohio EPA's eBusiness Center at http://ebiz.epa.ohio.gov.

Oct 25, 2019

If you need assistance or have questions please call (614) 644-2001 and ask for Construction Site Stormwater General Permit support or visit our website at http://www.epa.ohio.gov.

Sincerely, Laurie a Levenson

Laurie A. Stevenson

Director

# Storm Water Pollution Prevention Plan For Construction Activity

# National Pollutant Discharge Elimination System Storm Water Discharges From Construction Activities General Permit

# **Woodville Substation Expansion**

Sandusky County, Ohio

Prepared for:

**FirstEnergy** 

**Site Operator:** 

**FirstEnergy** 

**Expected Project Start Date: Expected Project Completion Date:** 

Prepared by Black & Veatch



Black & Veatch Project No. 400121

February 2020

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#### 1.0 Introduction

FirstEnergy will expand the existing Woodville Substation in Woodville Township, Sandusky County, Ohio to provide reliable and adequate transmission services in the area by reducing the frequency and duration of outages. This project includes removing existing equipment at the facility, installing foundations, equipment support structures, line termination structures, static mast, control building, electrical equipment, and a stormwater infiltration basin.

Project Name: Woodville Substation Expansion

Project Location: Sandusky County, Ohio

Project Owner: American Transmission Systems, Inc. (A FirstEnergy Co.)

Project Owner Responsible Party: American Transmission Systems, Inc. (A FirstEnergy Co.)

76 South Main Street c/o FirstEnergy Akron, OH 44308

#### Certification

NT . . . .

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 knowing violations.

m:.1.

name:	Title:	
Signature:	Date:	

#### 1.1 Purpose

This Storm Water Pollution Prevention Plan (SWPPP) has been prepared for the FirstEnergy – Woodville Substation Project in accordance with the *Ohio Environmental Protection Agency (OEPA) Permit No. OHCO00005 General Permit for Storm Water Discharges Associated with Construction Activities,* effective December 9, 2019 thru March 31, 2021 (General Permit). A copy of the effective General Permit is included in Appendix A. The General Permit authorizes the discharge of storm water runoff from construction activities that disturb one or more acres of land from the date of authorization of the storm water discharge until the site is stabilized and the construction storm water discharge Notice of Termination (NOT) is approved by the OEPA.

The purposes of the SWPPP are to ensure the design, implementation, management, and maintenance of Best Management Practices (BMPs) in order to minimize erosion; reduce the amount of sediment and other pollutants in storm water runoff from construction activities; comply with the Ohio Water Quality Standards; and ensure compliance with the terms and conditions of the General Permit.

This SWPPP provides specific information on the following topics:

- Project Description and Site Description
- Existing Soils Information
- Description of BMPs
- Temporary and Permanent Non-Structural BMPs
- Temporary and Permanent Structural BMPs
- Permanent Storm Water Controls
- Site Inspections by Permittee
- Project Completion

The SWPPP will be revised and updated as appropriate during the term of construction activities. At a minimum, the SWPPP will be revised in the event that any of the following occurs:

- The permittee's inspections identify deficiencies in the SWPPP or any BMP;
- OEPA notifies the permittee of deficiencies in the SWPPP;
- The SWPPP is determined to be ineffective in significantly minimizing or controlling erosion and sedimentation; or
- OEPA determines violations of Water Quality Standards may occur or have occurred: or
- OEPA determines the activities at the site constitute a significant pollution potential.

Any revision to the SWPPP will be attached to this SWPPP document. If SWPPP revisions become necessary due to changes in design, construction, operation or maintenance of the BMPs, these changes will be recorded in Appendix D. All records associated with this SWPPP are to be kept by the field construction manager until final stabilization has been completed. A record of the

construction activities must be maintained as part of this SWPPP. This information is maintained in a separate construction activity logbook on an ongoing basis.

A Notice of Intent (NOI) for coverage of storm water discharges associated with the construction activity authorized is required to be submitted to and approved by the OEPA for authorization under this General Permit. The approved NOI will be included in Appendix B. A Notice of Termination (NOT) is to be completed and submitted to the OEPA within 30 days of final stabilization of the construction site. The NOT is included in Appendix C.

# 1.2 Project Description

The purpose of the Project is to expand the existing Woodville Substation in Woodville Township, Sandusky County, Ohio to provide reliable and adequate transmission services in the area by reducing the frequency and duration of outages. This project includes removing existing equipment at the facility, constructing a temporary equipment laydown yard, installing foundations, equipment support structures, line termination structures, static mast, control building, electrical equipment, and a stormwater dry detention basin. This SWPPP will cover the entirety of the project. Figure 1-1 below shows the project location in Woodville Township in Sandusky County, Ohio. The drawings showing the site plan are located in Appendix E.





Figure 1-1 Project Location Map

# 2.0 Site Description and Construction Activities

The following provides a description of the project site, construction activities, receiving waters, and disturbed areas.

# 2.1 Site Description

The existing substation site is relatively flat with a few trees and grasses. Storm water flow is generally toward the Portage River to the South. The elevation of the existing substation is 637 ft. mean sea level (MSL). The substation has been at its location for decades. The area immediately around the substation has residential developments.

#### 2.2 Construction Activities

Construction activities include the following, which are discussed in the subsequent paragraphs.

- Grading new contours.
- Dry Detention Basin
- Expansion of existing driveway.
- Lay-down/staging area.
- Substation expansion construction.
- Cleanup and restoration.

#### **Vegetation Clearing and New Contours**

The site of the substation expansion are within the current ROW maintained by FirstEnergy and so will require minimal vegetative clearing. The project site will require approximately 2.7 acres of grading.

#### Lay-Down/Staging Area

A temporary laydown/staging area will be established on a separate parcel directly north of State Road 582. The laydown/staging area will be used for staging the equipment and for construction materials.

#### **Substation Expansion Construction**

This project includes removing select equipment and associated foundation from the existing facility and expanding the substation area for the installation of new equipment and associated support structures, line termination, static mast, control building. Also, construction will provide a temporary laydown yard for equipment and material storage during construction,

#### **Cleanup and Restoration**

Once construction of the substation is complete, the area will be covered with 12 inches of crushed rock. The remaining disturbed area of the project site will be seeded with native vegetation.

### 2.3 Construction Sequence

Preparation of the Project area will begin in December 2019 and demobilization will occur in March 2021. Specific construction activities and their general sequence are as follows:

- Installation of silt fence.
- Staking of driveway, structure, and foundation location.
- Site and laydown yard preparation, grading for substation expansion and grading for dry detention basin.
- Delivery of new electrical equipment.
- Foundation work for new substation equipment.
- New electrical equipment installation. Placement of crushed rock around new equipment.
- Seeding area disturbed by construction that are not covered with aggregate or riprap.

#### 2.4 Disturbed Areas

The estimated total area to be disturbed for the substation expansion is approximately 3.0 acres and laydown area is approximately 2.4 acres. Any topsoil required to be removed during grading will be temporarily stockpiled for reuse in areas of fill. Any excess will be transported offsite by the Contractor. Removal of existing treesis required for the construction of the substation expansion.

#### 2.5 Soils

Table 2-1 below lists the soils present in the project area.

Table 2-1 Soil Types

Soil Designation	Soil Name
HoA	Hoytville clay loam, 0 to 1 percent slopes
GwB	Glynwood silt Loam, 2 to 6 percent slopes

# 2.6 State or Federal Water Quality Permits

The Project will not require authorization under Section 404 of the Clean Water Act (CWA) and Section 401 Water Quality Certification (WQC) or Section 10 of the River and Harbors Act for the any impacts from the Project construction activities. Table 2-2 below summarizes the potential impacts to waters of the U.S. and relevant permit authority.

Table 2-2 Potential Waters of the U.S. Impacts

Feature Name	Description	Impact Acreage (ac)	Permit Authority
Portage River (a navigable water of the U.S.)	Navigable water of the U.S. per U.S. Army Corps of Engineers (USACE) Buffalo Regulator District	0.00 ac	USACE Section 404 / 10 permit for fill or aerial crossing of navigable water of the U.S.

# 2.7 Receiving Waters

The nearest surface water is the Portage River located approximately 170 feet south of the existing substation. No temporary or permanent impacts are anticipated from the Project construction activities.

#### 2.8 Runoff Coefficient

The runoff coefficient was calculated for the permanent substation expansion (Table 2-3). The runoff coefficient is increasing due to the increased aggregate area and dry detention basin, which is required for the substation expansion. This will in turn reduce the amount of grass area onsite.

Table 2-3 Runoff Coefficient

Runoff Coefficient	
Total project area	6.0 acres
Construction site area to be permanently disturbed	3.0acres
Construction site area to be temporarily disturbed	2.4 acres
Percentage impervious area before construction	13.5%
Runoff coefficient before construction	81.45
Percentage impervious area after construction	50%
Runoff coefficient after construction	85.84
Source: US Department of Agriculture; "Urban Hydrology for Small Watersheds, 2nd Edition"; Technical Release 55 (TR-55); June 1986.	

# 3.0 Storm Water Management Plan

This SWPPP was designed to minimize erosion; reduce the amount of sediment and other pollutants in storm water runoff from construction activities; comply with the Ohio Surface Water Quality Standards; and ensure compliance with the terms and conditions of the General Permit. It includes erosion and sedimentation control measures and spill prevention and response requirements.

#### 3.1 Construction Erosion and Sedimentation Control

The selection, installation, utilization, operation, and maintenance of physical erosion and sediment control BMPs are in accordance with typical US EPA and Ohio agency guidance. The potential for storm water runoff pollution will be reduced using sediment and erosion control measures installed temporarily or permanently during construction. The site drawings will be modified to show the implementation of additional controls if existing controls prove inadequate in minimizing erosion and sediment releases or in protecting the water quality of the receiving stream. Through frequent inspection, the BMPs will be maintained in working order. The BMPs will be immediately repaired if observations indicate failure or malfunction.

Prior to conducting soil disturbing activities, silt fence will be installed to retain sediment (refer to site drawings in Appendix E). Excavation activities are not to occur during a runoff event or when excavation cannot be properly backfilled before an anticipated runoff event. Re-vegetation and aggregate are the primary permanent erosion control measures for disturbed areas after construction activities have been completed.

It will be the responsibility of the Construction Manager to have the site drawings (see Appendix E) revised if the location or types of control measures indicated are changed in the field.

#### 3.1.1 Temporary and Permanent Non-Structural BMPs (Stabilization)

The Project will use both temporary and permanent non-structural BMPs. Major practices to be employed to limit erosion as practicable include:

- Minimization of the time period for soil areas to be without vegetative cover.
- Where soil disturbing activities are scheduled to be stopped in an area, the
  disturbed areas shall be protected from erosion by maintaining the erosion control
  BMPs, or stabilizing the area with mulch or other similarly effective soil stabilizing
  BMPs.
- Vegetative practices including seeding and mulching.
- Permanent non-structural BMPs will include final seeding and aggregate.
- Stabilization measures will be placed concurrently with construction activities as needed to address problems. Stabilization of disturbed areas will, at a minimum, be initiated within 2 days whenever any clearing, excavating, or other soil disturbing activities have permanently ceased on any portion of the site, or temporarily ceased

on any portion of the site and will not resume for a period of 14 days or more. This also applies to areas within 50 ft. of a stream. Temporary or permanent vegetative practices will be implemented within seven (7) calendar days of grubbing activities. For disturbed areas over 50 ft. from a stream at final grade, permanent erosion controls will be applied within 7 days of reaching final grade. Revegetation with native seed and placement of aggregate are the primary choice for permanent stabilization.

#### 3.1.2 Temporary and Permanent Structural BMPs

The Project will use temporary structural BMPs while completing construction activities. The structural BMP for erosion control will be silt fence that is installed prior to vegetation clearing. The silt fence will be buried a minimum of 8 in. below ground. It will be constructed across a level area in the shape of a swale. This aids in ponding of runoff and facilitates sedimentation. The silt fence wire will be a minimum of 32 in. wide and have a minimum of 6 line wires with 12-in. stay spacing. Geotextile fabric meeting the Type II material requirements installed to OEPA specifications may be used without the wire fence. A Compost Sock Washout will be located near the entrance to the construction site on level ground. The Compost Sock Washout will be constructed to the dimensions and specifications shown on the drawings located in Appendix E. Rip-rap apron will also be installed at the inlet and outlet of the replaced culvert underneath the access road. The rip-rap apron will be constructed to the dimensions and specifications shown on the drawings located in Appendix E.

# 3.2 Allowable Non-Storm Water Discharges

The following is a list of the sources of allowable non-storm water discharges from project activities. Project site plans are to be amended to identify the locations of allowable non-storm water discharges as they are determined. The Construction General Permit authorizes the following non-storm water discharges from construction sites during the life of the project:

- Discharges from firefighting activities
- Fire hydrant flushing,
- Potable water sources including uncontaminated waterline flushing,
- Uncontaminated excavation dewatering,
- Water used to control dust,
- Landscape irrigation,
- Water used for rinsing streets or structures that does not contain cleansers, detergents, solvents or additives,
- Water used to wash vehicles, wheel wash water and other wash waters where detergents are not used,
- Uncontaminated air conditioning or compressor condensate,
- Routine external building wash down that does not use detergents or solvents,

- Discharges of uncontaminated groundwater or spring water, and
- Foundation or footing drains where flows are not contaminated with materials such as solvents.

It will be necessary to obtain an NPDES permit for any other sources or types of construction non-storm water discharges associated with the Project. However, no non-storm water discharges are anticipated.

#### 3.3 Potential Sources of Pollutants

Silt and sediment are the site sources of pollution generated because of construction activities. Pollutants from sources other than ground disturbing activities have the potential to enter the storm water system during project construction. Descriptions of such potential pollutants and the control measures proposed to reduce the risk of storm water pollution are provided below.

#### 3.3.1.1 Fugitive Dust

Fugitive dust may be generated during dry weather conditions. The Construction Manager, or his authorized designee, will direct dust control activities. Water sprays, placing aggregate or shell rock, wind fencing, and physical or vegetative stabilization practices may be used for dust control.

#### 3.3.1.2 Offsite Sediment Tracking

The permanent access road entrance/exit off state road 582 is currently gravel. However, it will be stabilized as needed to reduce vehicle tracking of sediment onto existing roadways.

#### 3.3.1.3 Petroleum Products and Chemicals

Construction equipment will require diesel fuel and oil on a regular basis so the potential exists for spills or leaks. Onsite construction vehicles will be monitored for leaks and receive regular preventive maintenance to ensure proper operation and reduce the chance of leakage. If refueling occurs in the field, no "topping off" of fuel tanks will be allowed, reducing the possibility of spills.

Petroleum products will be stored in clearly labeled and tightly sealed containers or tanks within the laydown area. From containment areas, clean water may be released after visual verification that no oil or oil sheen is present. Any soil contaminated by fuel or oil spills will be removed and disposed of an Ohio EPA approved solid waste management facility or hazardous treatment, storage or disposal facility.

Impacts from the use of chemicals and petroleum products will be prevented through proper storage, handling, and disposal practices. Construction contractors are required to implement practices (e.g., spill containment, employee training) to prevent spills and comply with the minimum requirements of the EPA at 40 CFR Part 112 , as applicable, with regard to secondary containment or more stringent state requirements. Fueling and maintenance activities will be located so that spills, if

they do occur, will not be adjacent to surface waters. If spills do occur, they will be contained and cleaned up immediately.

#### 3.3.1.4 Construction Waste Materials

Waste materials generated during construction will be collected, deposited, and stored in appropriate containers (e.g., metal dumpsters from a licensed solid waste management contractor). No construction waste materials will be buried onsite. All construction and demolition debris (C&DD) waste will be disposed of in an Ohio EPA approved C&DD landfill as required by Ohio Revised Code (ORC) 3714. The Construction Manager will instruct all site personnel of the proper waste disposal procedures.

#### 3.3.1.5 Hazardous Materials and Wastes

Hazardous materials and wastes will be stored, handled, and disposed of according to local or state regulation or by the manufacturer's recommendations. Construction personnel will be instructed regarding the correct procedure for hazardous waste handling and disposal. The Construction Manager will be responsible for overall compliance with these procedures.

#### 3.3.1.6 Fertilizers/Pesticides

Fertilizers and pesticides will be applied in amounts and methods recommended by the manufacturer. Mixing of compounds such as fertilizers will be at the construction laydown site. Storage will be in a rain-protected area.

#### 3.3.1.7 Paints/Solvents

Paint and paint cleaning containers will be tightly sealed and properly stored to prevent leaks or spills. Storage will be in a rain-protected area. Unused paints or cleaners will be disposed of according to local and/or state regulations. Spray painting, if required, will not occur on windy days and as necessary drop cloth will be used to collect and dispose of drips and overspray associated with painting activities.

#### 3.3.1.8 Sanitary Wastes

Portable toilet units will be used for sanitary wastes. A licensed sanitary waste management contractor will collect all construction or temporary sanitary wastes from the portable units. The units will be maintained on a regular basis, which will prevent overloading of the system and discharge to storm water runoff.

#### 3.4 Spill Prevention and Response

The purpose of a Spill Prevention and Response protocol is to prevent chemicals, petroleum products, and other materials that will be used and stored at the construction site from entering surface waters of the United States. BMPs, such as good housekeeping measures, inspections,

containment, and spill prevention practices, will be used to limit contact between storm water and potential pollutants. Procedures and practices implemented to prevent and control spills in a manner that minimizes discharges of spill materials to the drainage system or watercourse will be required for all construction activities. Spill control procedures will be implemented any time that chemicals and/or hazardous substances are stored.

In addition to the good housekeeping and hazardous materials storage procedures outlined in Subsection 3.3.1, spill prevention and cleanup practices will be as follows for a small release (less than 25 gallons) and releases greater than 25 gallons.

- Construction personnel will be informed of the manufacturer's recommended spill cleanup methods and the location of that information and cleanup supplies.
- Materials and equipment for the cleanup of a relatively small spill will be kept in the
  materials storage area. Materials and equipment may include brooms, rags, gloves,
  shovels, goggles, sand, sawdust, plastic or metal trash containers, and protective
  clothing.
- All containers will be labeled, tightly sealed, and stacked or stored neatly and securely.

The spill response procedure will be as follows.

- Step 1. Upon discovery of a spill, stop the source of the spill.
- Step 2. Cease all spill material transfer until the release is stopped and waste removed from the spill site.
- Step 3. Initiate containment to prevent spill from reaching State waters.
- Step 4. Notify a Supervisor or the Construction Manager of the spill.
- Step 5. The Construction Manager will coordinate further cleanup activities.
- Step 6. Any significant spill of hazardous material will be reported to the appropriate state and local agencies at the following numbers: IMPORTANT NOTE: Notification is not required for any release that is confined within a building or otherwise wholly enclosed structure, where the floors and walls are of non-earthen, impervious materials, and the substance is cleaned up within 24 hours. Notification of the National Response Center is only required if the spill reaches state waters.

# The National Response Center 24-hour phone number and additional emergency contact phone numbers are identified below.

_	Nation	nal Response Center	800-424-8802
_	Ohio E	EPA Emergency Management Agency	800-282-9378
			614-224-0946
_	Local	Contacts:	
	0	Sandusky County Emergency Management	419-334-8933
	0	Fire Department	911
	0	FirstEnergy	
		<ul> <li>Tyler Leggett</li> </ul>	419-249-5111

• Step 7. Review the construction SWPPP and amend if needed. Record a description of the spill, cause, and cleanup measures taken.

# 3.5 Waste Management and Disposal

The materials listed below are expected to be present onsite during project construction, but may be subject to change:

- Fill materials.
- Equipment components.
- Diesel fuel.
- Cleaning solvents.
- Petroleum-based products.
- Paints.
- Herbicides.
- Motor oil.

The following are material management practices to be used to reduce the accidental exposure of materials and substances to storm water runoff. An inspection by the Construction Manager or his designee will be performed every week to ensure proper materials management onsite.

- All materials stored onsite will be stored in designated locations and, if practical, in watertight containers or under a roof or enclosure.
- Containers will be inspected every week for leaks or damage that could cause leaks. All weekly inspections will be recorded.
- Products will be stored in their original containers with the manufacturer's original label, and all hazardous products will be stored in the original container unless it is not re-sealable or damaged.
- All original labels and MSDS/SDS will be retained for all hazardous products.
- If any hazardous product or surplus hazardous product must be disposed of, the manufacturers' recommended practices and state and local regulations must be followed.
- Products will not be mixed together unless recommended by the manufacturer.
- Whenever possible, all of a product will be used up before disposing of the container. Disposal of a product or container must follow manufacturers' recommended practices.
- Only products required for the job will be stored onsite.

Sanitary wastes from portable units shall be collected and disposed of by a licensed sanitary waste management contractor.

Fugitive dust may be generated during dry weather conditions. Dust control will be at the direction of the Construction Manager. Water sprays may be used to control dust emissions. The new permanent access road will have compacted aggregated to reduce dust and offsite sediment tracking.

The Construction Manager will be responsible for directing compliance with all applicable state and local waste disposal and open burning regulations.

# 3.6 Training, Inspection, Maintenance and Reporting Procedures

Site inspection and facility maintenance are important features of an effective storm water management system. Day-to-day implementation of the SWPPP will be the responsibility of the Construction Manager.

#### 3.6.1 Training

Effective management of storm water pollution requires employees to be alert to those conditions that may cause pollutants to enter storm water. Proper design, use, and maintenance of BMPs by all contractors and employees are essential to the successful implementation of the SWPPP. The contractor and/or designated specialist is responsible for ensuring that all staff members responsible for SWPPP implementation understand the SWPPP components, how it will be implemented, and their individual role in contributing to the effectiveness of the SWPPP. Training will address control measures identified in this plan, good housekeeping, materials management, spill response, maintenance of controls, and inspections. Training can be formal or informal. Informal training may include activities such as weekly briefing meetings, "tail-gate" meetings, etc. Formal training may include classroom training, videos, printed materials, etc. Onsite pollution prevention training will be conducted on an ongoing basis during periods of project construction.

Training is documented on the forms provided in Appendix G.

#### 3.6.2 Preventive Maintenance

The effectiveness of the control practices and other BMPs described in this SWPPP depends on proper maintenance. Preventive maintenance will be performed on all equipment, storage areas, containment areas, and other pollution sources with the potential to discharge contaminates from the project construction site. Maintenance will be conducted away from wetlands and waterbodies. Preventative maintenance of vehicles will be performed offsite.

# 3.6.3 Inspections

Inspections will be conducted, as described below, by qualified inspection personnel. A report of the inspection will include the name of the inspector, the date of inspection, observations relative to the effectiveness of the BMPs, actions taken or necessary to correct deficiencies, listing of areas where construction operations have permanently or temporarily stopped, and observations

of storm water discharge locations with respect to the up gradient BMPs. The Construction Site Inspection Checklist is located in Appendix F. The Construction Site Inspection Checklist will be signed by the inspector after every inspection.

Construction management will ensure the entire construction site including but not limited to disturbed areas, BMPs, waste and construction storage areas, drainage areas, locations where storm water can flow from the construction site, receiving streams, and permanent and temporarily stabilized areas, is inspected every seven days and within twenty-four hours after any storm event greater than  $\frac{1}{2}$ -inch of rain . Any needed repairs, replacements or supplements to BMPs will be addressed within three days of inspection. Missing BMPs required for installation by this SWPPP will be installed within three days of the inspection.

This SWPPP may be revised based on the findings of the inspection and the contractor shall implement all SWPPP revisions. SWPPP revisions are recorded in the Record of Plan Amendments in Appendix D. The following are the minimum inspection, maintenance and reporting practices that will be used to maintain erosion and sediment controls at our construction site.

- 1. The Construction Manager will select designate individuals that will have or receive the necessary training to properly inspect and maintain the controls in good working order.
- 2. Site Inspection and Certification Log will be completed after each inspection.
  - The completed Construction Site Inspection Checklist will be kept with this SWPPP in Appendix F.
- 3. Sediment and erosion control measures identified in the Plan shall be observed to ensure they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Specifically:
  - Sediment will be removed from the silt fences when it has reached one-third of the height of the fence.
  - Silt fences will be inspected for depth of accumulated sediment, tears, attachment to posts, and stability on a weekly basis.
  - Compost Sock Washout will be inspected weekly and after each runoff event.
- 4. Erosion and sediment control measures will be maintained in good working order. If repair is necessary, it will be initiated within 3 days of inspection.
- 5. Temporary seeding and planting will be inspected for bare spots, washouts and healthy growth. Areas that have not reached final stabilization will be inspected at least once every month and within 24 hours of a rain event.
- 6. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system.
- 7. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking

- 8. In addition to inspections, records will be kept of the following;
  - Dates when major grading activities occur in a particular area.
  - Date when construction activities in an area cease temporarily or permanently.
  - Date when an area is stabilized, temporarily or permanently.

The information is maintained in a separate construction log book.

9. Records will be kept for a minimum of three years following the date of the NOT.

#### 3.6.4 Reporting and Record Retention

The Construction Site Inspection Checklist is provided in Appendix F for recording inspections and maintenance of the control measures. All disturbed areas and materials storage areas require inspection at least once every week and within 24 hours after any storm event greater than  $\frac{1}{2}$ -inch of rain.

Records required by the Construction General Permit are to be retained for three years following the date of the NOT. All records are to be kept on-site or in a readily available location identified in the NOI until final stabilization has been completed. After final stabilizing has been completed, records may be maintained at the permittee's main office.

Records are to be readily available during normal business hours. The records to be maintained include, but are not limited to:

- The NOI indicating the Authorization by the OEPA of storm water runoff from construction activities, and supporting documentation used to apply for authorization under the General Permit.
- The SWPPP for the construction site and authorization to discharge storm water runoff, and any amendments to the SWPPP.
- All site inspection records including the construction log book.
- All contractor certifications.
- Any environmental and cultural resource clearance letters from the U.S. Fish and Wildlife Services, USACE, Ohio Department of Archives and History, OEPA, or other agency providing clearance.
- Copy of the Notice of Termination (NOT) submitted to the OEPA.

The generation of reports, as part of the construction process and inspection or amendment procedures, provides accurate records that can be used to evaluate the effectiveness of this Plan and document the plans compliance.

The following forms have been developed to assist the Construction Manager with record keeping activities. The forms are located in the Appendices at the back of this document:

- Record of Plan Amendments (Appendix D).
- Construction Site Inspection Checklist (Appendix F).

#### 3.6.5 Plan Amendments

Changes in design or construction of the storm water management system are documented and included with the Plan to facilitate Plan review or evaluation.

The SWPPP shall be amended whenever there is a change in design, construction, operation or maintenance, which has a significant effect on the potential for the discharge of pollutants to the Waters of the State and which has not otherwise been addressed in the SWPPP. The SWPPP shall also be amended if it proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified at the construction site, or in otherwise achieving the objectives of controlling pollutants in storm water discharges associated with construction site activity. In addition, the Plan shall be amended to identify any new contractor or subcontractor that will implement a measure of the SWPPP.

Plan amendments and inspections will be documented on the forms contained in Appendix D and Appendix F, respectively, and on the drawings. Completed inspection forms will be kept in Appendix G of this SWPPP. A record of construction activities will be maintained in a separate construction log book.

# 4.0 Certification of Compliance

This Construction Storm Water Pollution Prevention Plan reflects BMPs and erosion and sedimentation control measures for storm water management as recommended by the U.S. Environmental Protection Agency and OEPA.

The owner or operator "must certify that, under penalty of law, this document and all attachments were prepared under his/her direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on the inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information is, to the best of his/her knowledge and belief, true, accurate and complete. The owner/operator is aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations." This certification is provided in Section 1.0.

#### 5.0 Final Stabilization

The NOT must be submitted to the OEPA to request termination from authorization to discharge construction storm water per the Construction General Permit no later than 30 days after final stabilization has been achieved. The NOT form is included in Appendix C.

After written approval of acceptance of NOT by OEPA, the Construction Manager may terminate construction erosion and sediment control measures.

The disturbed areas that do not contain aggregate will be permanently stabilized. Soil stabilization involves covering disturbed soils with native species, bark, mulch, straw, and/or geotextile fabric. Vegetative cover serves to reduce the erosion potential by absorbing the energy of raindrops, promoting infiltration in lieu of runoff, and reducing the velocity of runoff. Trapped sediment and other disturbed soil areas resulting from the disposition of temporary measures shall also be permanently stabilized to prevent further erosion and sedimentation.

# 5.1 Seeding

The contractor will be responsible for labor, materials, tools, equipment, and other related items required for preparing ground, providing for sowing of seeds, fertilizing, mulching and top dressing, and other management practices required for erosion control and to achieve final stabilization. It will be the contractor's responsibility to make sure that the soil seedbed is not blown, washed, or otherwise removed from the site. The contractor will make repairs (including replacement of lost topsoil and mulch) to the seedbed preparation site in the event of heavy rain, wind, or other natural events that cause damage. Native plant species shall be used for restoration.

#### 5.2 Fertilizer

Soil in areas of disturbance may need supplementation from fertilizer. Soil tests may be necessary to determine the most appropriate fertilizer for each location. Once applied, the fertilizer will be worked into the soil to limit exposure to storm water. Fertilizer spills will be cleaned up immediately and will not be applied along or in a waterway.

# 5.3 Mulching

Mulching may be used in conjunction with both temporary and permanent seeding practices to enhance success by providing erosion protection prior to the onset of vegetative growth. Mulch enhance plant establishment by moderating soil temperatures and conserving moisture. After seeding, straw or hay mulch will be applied at a rate of two to three tons per acre on the disturbed areas. Other forms of mulch will be applied at a rate designated by the manufacturer or Construction Manager. Mulch will not be applied in wetlands, on lawns, and areas where hydro-mulch is used. Mulch will be anchored immediately after placement on steep slopes. As needed, mulch will be held in place by light disking, a very thin covering of topsoil, small brush, pins, stakes, wire mesh, asphalt binder, or other adhesive material approved by the Construction Manager.

# 5.4 Topsoil Application

Topsoil should be applied in areas where the subsoil or existing surface soil does not provide an adequate growth medium for the desired vegetation, where soil is too shallow to provide adequate rooting depth, or where the soil contains substances toxic to the desired vegetation. Topsoil shall be reasonably free from subsoil and stumps, roots, brush, stones, and clay lumps or similar objects. When final grade is reached, topsoil will be distributed to a minimum depth of two (2) inches on 3:1 slopes and four (4) inches on flatter slopes.

# 5.5 Heavy-Equipment Use Avoidance

Heavy-equipment use in areas to be re-vegetated will be avoided. If compaction cannot be avoided, the top four (4) inches of the soil should be tilled before re-vegetation.

# 5.6 Removal of Temporary Controls

Temporary erosion controls will be left in place until the Project site is stabilized with a uniform vegetative cover of 70 percent density of the native background vegetative cover on all disturbed areas not covered in compacted aggregate or crushed rock. Following revegetation, the permittee will conduct periodic site visits to make sure that vegetation establishment is satisfactory. If sufficient vegetative cover has not been achieved, additional restoration measures will be implemented. Inspection results will be documented using the Construction Site Inspection Checklist in Appendix G.

All temporary soil erosion and sediment control measures will be removed and disposed of after final site stabilization is achieved and the OEPA provides written approval of the NOT.

# Appendix A

Ohio Construction General Permit
Permit Number OHC000005
Expires April 22, 2023

Ohio EPA Permit No.: OHC000005

Issuance Date: April 23, 2018 Effective Date: April 23, 2018 Expiration Date: April 22, 2023

> Ohio EPA APR 23 '18 Entered Directors Journal

#### OHIO ENVIRONMENTAL PROTECTION AGENCY

# GENERAL PERMIT AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the federal Water Pollution Control Act, as amended (33 U.S.C. Section 1251 et. seq. hereafter referred to as "the Act") and the Ohio Water Pollution Control Act [Ohio Revised Code ("ORC") Chapter 6111], dischargers of storm water from sites where construction activity is being conducted, as defined in Part I.B of this permit, are authorized by the Ohio Environmental Protection Agency, hereafter referred to as "Ohio EPA," to discharge from the outfalls at the sites and to the receiving surface waters of the state identified in their Notice of Intent ("NOI") application form on file with Ohio EPA in accordance with the conditions specified in Parts I through VII of this permit.

It has been determined that a lowering of water quality of various waters of the state associated with granting coverage under this permit is necessary to accommodate important social and economic development in the state of Ohio. In accordance with OAC 3745-1-05, this decision was reached only after examining a series of technical alternatives, reviewing social and economic issues related to the degradation, and considering all public and intergovernmental comments received concerning the proposal.

This permit is conditioned upon payment of applicable fees, submittal of a complete NOI application form, development (and submittal, if applicable) of a complete Storm Water Pollution Prevention Plan (SWP3) and written approval of coverage from the director of Ohio EPA in accordance with Ohio Administrative Code ("OAC") Rule 3745-38-02.

Crare-W. Butler

Director

Total Pages: 60

I certify this to be a true and accurate copy of the official documents as filed in the records of the Ohio Environmental Protection Agency.

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#### PART I. COVERAGE UNDER THIS PERMIT

#### A. Permit Area.

This permit covers the entire State of Ohio. Appendices A and B of this permit contain additional watershed specific requirements for construction activities located partially or fully within the Big Darby Creek Watershed and portions of the Olentangy River Watershed. Projects within portions of the Olentangy River watershed shall seek coverage under this permit following the expiration of OHCO00002 (May 31, 2019).

### B. Eligibility.

1. <u>Construction activities covered</u>. Except for storm water discharges identified under Part I.B.2, this permit may cover all new and existing discharges composed entirely of storm water discharges associated with construction activity that enter surface waters of the state or a storm drain leading to surface waters of the state.

For the purposes of this permit, construction activities include any clearing, grading, excavating, grubbing and/or filling activities that disturb one or more acres. Discharges from trench dewatering are also covered by this permit as long as the dewatering activity is carried out in accordance with the practices outlined in Part III.G.2.g.iv of this permit.

Construction activities disturbing one or more acres of total land or will disturb less than one acre of land but are part of a larger common plan of development or sale that will ultimately disturb one or more acres of land are eligible for coverage under this permit. The threshold acreage includes the entire area disturbed in the larger common plan of development or sale.

This permit also authorizes storm water discharges from support activities (e.g., concrete or asphalt batch plants, equipment staging yards, material storage areas, excavated material disposal areas, borrow areas) provided:

- The support activity is directly related to a construction site that is required to have NPDES permit coverage for discharges of storm water associated with construction activity;
- b. The support activity is not a commercial operation serving multiple unrelated construction projects and does not operate beyond the completion of the construction activity at the site it supports;
- c. Appropriate controls and measures are identified in a storm water pollution prevention plan (SWP3) covering the discharges from the support activity; and
- d. The support activity is on or contiguous with the property defined in the NOI (offsite borrow pits and soil disposal areas, which serve only one project, do not have to be contiguous with the construction site).
- 2. <u>Limitations on coverage</u>. The following storm water discharges associated with construction activity are not covered by this permit:

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 Storm water discharges that originate from the site after construction activities have ceased, including any temporary support activity, and the site has achieved final stabilization. Industrial post-construction storm water discharges may need to be covered by an NPDES permit;

- b. Storm water discharges associated with construction activity that the director has shown to be or may reasonably expect to be contributing to a violation of a water quality standard; and
- c. Storm water discharges authorized by an individual NPDES permit or another NPDES general permit.
- 3. <u>Waivers</u>. After March 10, 2003, sites whose larger common plan of development or sale have at least one, but less than five acres of land disturbance, which would otherwise require permit coverage for storm water discharges associated with construction activities, may request that the director waive their permit requirement. Entities wishing to request such a waiver must certify in writing that the construction activity meets one of the two waiver conditions:
  - a. Rainfall Erosivity Waiver. For a construction site to qualify for the rainfall erosivity waiver, the cumulative rainfall erosivity over the project duration must be five or less and the site must be stabilized with a least a 70 percent vegetative cover or other permanent, non-erosive cover. The rainfall erosivity must be calculated according to the method in U.S. EPA Fact Sheet 3.1 Construction Rainfall Erosivity Waiver dated January 2001 and be found at: http://epa.ohio.gov/portals/35/permits/USEPAfact3-1\_s.pdf. If it is determined that a construction activity will take place during a time period where the rainfall erosivity factor is less than five, a written waiver certification must be submitted to Ohio EPA at least 21 days before construction activity is scheduled to begin. If the construction activity will extend beyond the dates specified in the waiver certification, the operator must either: (a) recalculate the waiver using the original start date with the new ending date (if the R factor is still less than five, a new waiver certification must be submitted) or (b) submit an NOI application form and fee for coverage under this general permit at least seven days prior to the end of the waiver period; or
  - b. TMDL (Total Maximum Daily Load) Waiver. Storm water controls are not needed based on a TMDL approved or established by U.S. EPA that addresses the pollutant(s) of concern or, for non-impaired waters that do not require TMDLs, and equivalent analysis that determines allocations for small construction sites for the pollutant(s) of concern or that determines that such allocations are not needed to protect water quality based on consideration of existing in-stream concentrations, expected growth in pollutant contributions from all sources, and a margin of safety. The pollutant(s) of concern include sediment or a parameter that addresses sediment (such as total suspended solids, turbidity or siltation) and any other pollutant that has been identified as a cause of impairment of any water body that will receive a discharge from the construction activity. The operator must certify to the director of Ohio EPA that the construction activity will take place, and storm water discharges will occur, within the drainage area addressed by the TMDL or equivalent analysis. A written waiver certification must be submitted to Ohio EPA at least 21 days before the construction activity is scheduled to begin.

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4. Prohibition on non-storm water discharges. All discharges covered by this permit must be composed entirely of storm water with the exception of the following: discharges from firefighting activities; fire hydrant flushings; potable water sources including waterline flushings; irrigation drainage; lawn watering; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; air conditioning condensate; springs; uncontaminated ground water from trench or well point dewatering and foundation or footing drains where flows are not contaminated with process materials such as solvents. Dewatering activities must be done in compliance with Part II.C and Part III.G.2.g.iv of this permit. Discharges of material other than storm water or the authorized non-storm water discharges listed above must comply with an individual NPDES permit or an alternative NPDES general permit issued for the discharge.

Except for flows from firefighting activities, sources of non-storm water listed above that are combined with storm water discharges associated with construction activity must be identified in the SWP3. The SWP3 must identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

5. <u>Spills and unintended releases</u> (Releases in excess of Reportable Quantities). This permit does not relieve the permittee of the reporting requirements of Title 40 of the Code of Federal Regulations ("CFR") Part 117 and 40 CFR Part 302. In the event of a spill or other unintended release, the discharge of hazardous substances in the storm water discharge(s) from a construction site must be minimized in accordance with the applicable storm water pollution prevention plan for the construction activity and in no case, during any 24-hour period, may the discharge(s) contain a hazardous substance equal to or in excess of reportable quantities.

40 CFR Part 117 sets forth a determination of the reportable quantity for each substance designated as hazardous in 40 CFR Part 116. The regulation applies to quantities of designated substances equal to or greater than the reportable quantities, when discharged to surface waters of the state. 40 CFR Part 302 designates under section 102(a) of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, those substances in the statutes referred to in section 101(14), identifies reportable quantities for these substances and sets forth the notification requirements for releases of these substances. This regulation also sets forth reportable quantities for hazardous substances designated under section 311(b)(2)(A) of the Clean Water Act (CWA).

#### C. Requiring an individual NPDES permit or an alternative NPDES general permit.

1. The director may require an alternative permit. The director may require any operator eligible for this permit to apply for and obtain either an individual NPDES permit or coverage under an alternative NPDES general permit in accordance with OAC Rule 3745-38-02. Any interested person may petition the director to take action under this paragraph.

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The director will send written notification that an alternative NPDES permit is required. This notice shall include a brief statement of the reasons for this decision, an application form and a statement setting a deadline for the operator to file the application. If an operator fails to submit an application in a timely manner as required by the director under this paragraph, then coverage, if in effect, under this permit is automatically terminated at the end of the day specified for application submittal.

- Operators may request an individual NPDES permit. Any owner or operator eligible for this permit may request to be excluded from the coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application with reasons supporting the request to the director in accordance with the requirements of 40 CFR 122.26. If the reasons adequately support the request, the director shall grant it by issuing an individual NPDES permit.
- 3. When an individual NPDES permit is issued to an owner or operator otherwise subject to this permit or the owner or operator is approved for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit or the date of approval for coverage under the alternative general permit, whichever the case may be.

# D. Permit requirements when portions of a site are sold

If an operator obtains a permit for a development, and then the operator (permittee) sells off lots or parcels within that development, permit coverage must be continued on those lots until a Notice of Termination (NOT) in accordance with Part IV.B is submitted. For developments which require the use of centralized sediment and erosion controls (i.e., controls that address storm water runoff from one or more lots) for which the current permittee intends to terminate responsibilities under this permit for a lot after sale of the lot to a new owner and such termination will either prevent or impair the implementation of the controls and therefore jeopardize compliance with the terms and conditions of this permit, the permittee will be required to maintain responsibility for the implementation of those controls. For developments where this is not the case, it is the permittee's responsibility to temporarily stabilize all lots sold to individual lot owners unless an exception is approved in accordance with Part III.G.4. In cases where permit responsibilities for individual lot(s) will be terminated after sale of the lot, the permittee shall inform the individual lot owner of the obligations under this permit and ensure that the Individual Lot NOI application is submitted to Ohio EPA.

## E. Authorization

1. Obtaining authorization to discharge. Operators that discharge storm water associated with construction activity must submit an NOI application form and Storm Water Pollution Prevention Plan (SWP3) if located within the Big Darby Creek watershed or portions of the Olentangy watershed in accordance with the requirements of Part I.F of this permit to obtain authorization to discharge under this general permit. As required under OAC Rule 3745-38-06(E), the director, in response to the NOI submission, will notify the applicant in writing that he/she has or has not been granted general permit coverage to discharge storm water associated with construction activity under the terms and conditions of this permit or that the applicant must apply for an individual NPDES permit or coverage under an alternate general NPDES permit as described in Part I.C.1.

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2. No release from other requirements. No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations. Other permit requirements commonly associated with construction activities include, but are not limited to, section 401 water quality certifications, isolated wetland permits, permits to install sanitary sewers or other devices that discharge or convey polluted water, permits to install drinking water lines, single lot sanitary system permits and disturbance of land which was used to operate a solid or hazardous waste facility (i.e., coverage under this NPDES general permit does not satisfy the requirements of OAC Rule 3745-27-13 or ORC Section 3734.02(H)). The issuance of this permit is subject to resolution of an antidegradation review. This permit does not relieve the permittee of other responsibilities associated with construction activities such as contacting the Ohio Department of Natural Resources, Division of Water, to ensure proper well installation and abandonment of wells.

# F. Notice of Intent Requirements

- 1. Deadlines for notification.
  - a. <u>Initial coverage</u>: Operators who intend to obtain initial coverage for a storm water discharge associated with construction activity under this general permit must submit a complete and accurate NOI application form, a completed Storm Water Pollution Prevention Plan (SWP3) for projects within the Big Darby Creek and portions of the Olentangy river watersheds and appropriate fee at least 21 days (or 45 days in the Big Darby Creek watershed and portions of the Olentangy watershed) prior to the commencement of construction activity. If more than one operator, as defined in Part VII of this general permit, will be engaged at a site, each operator shall seek coverage under this general permit prior to engaging in construction activities. Coverage under this permit is not effective until an approval letter granting coverage from the director of Ohio EPA is received by the applicant. Where one operator has already submitted an NOI prior to other operator(s) being identified, the additional operator shall request modification of coverage to become a co-permittee. In such instances, the co-permittees shall be covered under the same facility permit number. No additional permit fee is required.
  - b. Individual lot transfer of coverage: Operators must each submit an individual lot notice of intent (Individual Lot NOI) application form (no fee required) to Ohio EPA at least seven days prior to the date that they intend to accept responsibility for permit requirements for their portion of the original permitted development from the previous permittee. Transfer of permit coverage is not granted until an approval letter from the director of Ohio EPA is received by the applicant.
- 2. <u>Failure to notify</u>. Operators who fail to notify the director of their intent to be covered and who discharge pollutants to surface waters of the state without an NPDES permit are in violation of ORC Chapter 6111. In such instances, Ohio EPA may bring an enforcement action for any discharges of storm water associated with construction activity.
- 3. <u>How to submit an NOI</u>. Operators seeking coverage under this permit must submit a complete and accurate Notice of Intent (NOI) application using Ohio EPA's electronic application form which is available through the Ohio EPA eBusiness Center at: <a href="https://ebiz.epa.ohio.gov/">https://ebiz.epa.ohio.gov/</a>. Submission through the Ohio EPA eBusiness Center will

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require establishing an Ohio EPA eBusiness Center account and obtaining a unique Personal Identification Number (PIN) for final submission of the NOI. Existing eBusiness Center account holders can access the NOI form through their existing account and submit using their existing PIN. Please see the following link for guidance:

http://epa.ohio.gov/dsw/ebs.aspx#170669803-streams-guidance. Alternatively, if you are unable to access the NOI form through the agency eBusiness Center due to a demonstrated hardship, the NOI may be submitted on a paper NOI form provided by Ohio EPA. NOI information shall be typed on the form. Please contact Ohio EPA, Division of Surface Water at (614) 644-2001 if you wish to receive a paper NOI form.

- 4. <u>Additional notification</u>. NOIs and SWP3s are considered public documents and shall be made available to the public in accordance with Part III.C.2. The permittee shall make NOIs and SWP3s available upon request of the director of Ohio EPA, local agencies approving sediment and erosion control plans, grading plans or storm water management plans, local governmental officials, or operators of municipal separate storm sewer systems (MS4s) receiving drainage from the permitted site. Each operator that discharges to an NPDES permitted MS4 shall provide a copy of its Ohio EPA NOI submission to the MS4 in accordance with the MS4's requirements, if applicable.
- 5. Re-notification. Existing permittees having coverage under the previous generations of this general permit shall have continuing coverage under OHC000005 with the submittal of a timely renewal application. Within 180 days from the effective date of this permit, existing permittees shall submit the completed renewal application expressing their intent for continued coverage. In accordance with Ohio Administrative Code (OAC) 3745-38-02(E)(2)(a)(i), a renewal application fee will only apply to existing permittees having general permit coverage for 5 or more years as of the effective date of this general permit. Permit coverage will be terminated if Ohio EPA does not receive the renewal application within this 180-day period.

#### Part II. NON-NUMERIC EFFLUENT LIMITATIONS

You shall comply with the following non-numeric effluent limitations for discharges from your site and/or from construction support activities. Part III of this permit contains the specific design criteria to meet the objectives of the following non-numeric effluent limitations. You shall develop and implement the SWP3 in accordance with Part III of this permit to satisfy these non-numeric effluent limitations.

- **A. Erosion and Sediment Controls**. You shall design, install and maintain effective erosion controls and sediment controls to minimize the discharge of pollutants. At a minimum, such controls shall be designed, installed and maintained to:
- 1. Control storm water volume and velocity within the site to minimize soil and stream erosion;
- 2. Control storm water discharges, including both peak flowrates and total storm water volume, to minimize erosion at outlets and to minimize downstream channel and streambank erosion;
- 3. Minimize the amount of soil exposed during construction activity;

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4. Minimize the disturbance of steep slopes;

- 5. Minimize sediment discharges from the site. The design, installation and maintenance of erosion and sediment controls shall address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting storm water runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site;
- 6. If feasible, provide and maintain a 50-foot undisturbed natural buffer around surface waters of the state, direct storm water to vegetated areas to increase sediment removal and maximize storm water infiltration. If it is infeasible to provide and maintain an undisturbed 50-foot natural buffer, you shall comply with the stabilization requirements found in Part II.B for areas within 50 feet of a surface water; and
- 7. Minimize soil compaction and, unless infeasible, preserve topsoil.
- **B. Soil Stabilization**. Stabilization of disturbed areas shall, at a minimum, be initiated in accordance with the time frames specified in the following tables.

Area requiring permanent stabilization

Time frame to apply erosion controls

Within seven days of the most recent disturbance

Any areas within 50 feet of a surface water of the state and at final grade

Other areas at final grade

Within seven days of reaching final grade

Within seven days of reaching final grade within that area

**Table 1: Permanent Stabilization** 

**Table 2: Temporary Stabilization** 

Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a	Within two days of the most recent
surface water of the state and not at final grade	disturbance if the area will remain idle for more than 14 days
Any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a surface water of	Within seven days of the most recent disturbance within the area
the state	For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s).
Disturbed areas that will be idle over winter	Prior to the onset of winter weather

Where vegetative stabilization techniques may cause structural instability or are otherwise unobtainable, alternative stabilization techniques must be employed. Permanent and temporary stabilization are defined in Part VII.

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**C. Dewatering.** Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited unless managed by appropriate controls.

- **D. Pollution Prevention Measures.** Design, install, implement and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented and maintained to:
- 1. Minimize the discharge of pollutants from equipment and vehicle washing, wheel washwater, and other washwaters. Washwaters shall be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
- 2. Minimize the exposure of construction materials, products, and wastes; landscape materials, fertilizers, pesticides, and herbicides; detergents, sanitary waste and other materials present on the site to precipitation and to storm water; and
- 3. Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.
- **E. Prohibited Discharges.** The following discharges are prohibited:
- 1. Wastewater from washout of concrete, unless managed by an appropriate control;
- 2. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
- 3. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and
- 4. Soaps or solvents used in vehicle and equipment washing or all other waste water streams which could be subject to an individual NPDES permit (Part III.G.2.g).
- F. Surface Outlets. When discharging from sediment basins utilize outlet structures that withdraw water from the surface, unless infeasible. (Note: Ohio EPA believes that the circumstances in which it is infeasible to design outlet structures in this manner are rare. Exceptions may include time periods with extended cold weather during winter months. If you have determined that it is infeasible to meet this requirement, you shall provide documentation in your SWP3 to support your determination.)
- **G. Post-Construction Storm Water Management Controls**. So that receiving stream's physical, chemical and biological characteristics are protected, and stream functions are maintained, post-construction storm water practices shall provide long-term management of runoff quality and quantity.

## PART III. STORM WATER POLLUTION PREVENTION PLAN (SWP3)

#### A. Storm Water Pollution Prevention Plans.

A SWP3 shall be developed for each site covered by this permit. For a multi-phase construction project, a separate NOI shall be submitted when a separate SWP3 will be prepared for

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subsequent phases. SWP3s shall be prepared in accordance with sound engineering and/or conservation practices by a professional experienced in the design and implementation of standard erosion and sediment controls and storm water management practices addressing all phases of construction. The SWP3 shall clearly identify all activities which are required to be authorized under Section 401 and subject to an antidegradation review. The SWP3 shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with construction activities. The SWP3 shall be a comprehensive, stand-alone document, which is not complete unless it contains the information required by Part III.G of this permit. In addition, the SWP3 shall describe and ensure the implementation of best management practices (BMPs) that reduce the pollutants and impact of storm water discharges during construction and pollutants associated with the post-construction land use to ensure compliance with ORC Section 6111.04, OAC Chapter 3745-1 and the terms and conditions of this permit.

# B. Timing.

An acceptable SWP3 shall be completed and submitted to the applicable regulated MS4 entity (for projects constructed entirely within a regulated MS4 area) prior to the timely submittal of an NOI. Projects within the Big Darby Creek and portions of the Olentangy watersheds must submit a SWP3 with the NOI. The SWP3 shall be updated in accordance with Part III.D. Submission of a SWP3 does not constitute review and approval on the part of Ohio EPA. Upon request and good cause shown, the director may waive the requirement to have a SWP3 completed at the time of NOI submission. If a waiver has been granted, the SWP3 must be completed prior to the initiation of construction activities. The SWP3 must be implemented upon initiation of construction activities.

In order to continue coverage from the previous generations of this permit, the permittee shall review and update the SWP3 to ensure that this permit's requirements are addressed within 180 days after the effective date of this permit. If it is infeasible for you to comply with a specific requirement in this permit because (1) the provision was not part of the permit you were previously covered under, and (2) because you are prevented from compliance due to the nature or location of earth disturbances that commenced prior to the effective date of this permit, you shall include documentation within your SWP3 of the reasons why it is infeasible for you to meet the specific requirement.

Examples of OHC000005 permit conditions that would be infeasible for permittees renewing coverage to comply with include:

- OHC000005 post-construction requirements, for projects that obtained NPDES construction storm water coverage and started construction activities prior to the effective date of this permit;
- OHC000005 post-construction requirements, for multi-phase development projects with an
  existing regional post-construction BMP issued under previous NPDES post-construction
  requirements. This only applies to construction sites authorized under Ohio EPA's
  Construction Storm Water Permits issued after April 20, 2003;
- OHC00005 post-construction requirements, for renewing or initial coverage and you have a SWP3 approved locally and you will start construction within 180 days of the effective date of this permit;

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 Sediment settling pond design requirements, if the general permit coverage was obtained prior to April 21, 2013 and the sediment settling pond has been installed; or

Case-by-case situations approved by the Director.

# C. SWP3 Signature and Review.

1. <u>Plan Signature and Retention On-Site</u>. The SWP3 shall include the certification in Part V.H, be signed in accordance with Part V.G., and be retained on site during working hours.

# 2. Plan Availability

- a. On-site: The plan shall be made available immediately upon request of the director or his authorized representative and MS4 operators or their authorized representative during working hours. A copy of the NOI and letter granting permit coverage under this general permit also shall be made available at the site.
- b. By written request: The permittee must provide the most recent copy of the SWP3 within 7 days upon written request by any of the following:
  - i. The director or the director's authorized representative;
  - ii. A local agency approving sediment and erosion plans, grading plans or storm water management plans; or
  - iii. In the case of a storm water discharge associated with construction activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the operator of the system.
- c. To the public: All NOIs, general permit approval for coverage letters, and SWP3s are considered reports that shall be available to the public in accordance with the Ohio Public Records law. The permittee shall make documents available to the public upon request or provide a copy at public expense, at cost, in a timely manner. However, the permittee may claim to Ohio EPA any portion of an SWP3 as confidential in accordance with Ohio law.
- 3. <u>Plan Revision</u>. The director or authorized representative may notify the permittee at any time that the SWP3 does not meet one or more of the minimum requirements of this part. Within 10 days after such notification from the director or authorized representative (or as otherwise provided in the notification), the permittee shall make the required changes to the SWP3 and shall submit to Ohio EPA the revised SWP3 or a written certification that the requested changes have been made.

#### D. Amendments.

The permittee shall amend the SWP3 whenever there is a change in design, construction, operation or maintenance, which has a significant effect on the potential for the discharge of pollutants to surface waters of the state or if the SWP3 proves to be ineffective in achieving the

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general objectives of controlling pollutants in storm water discharges associated with construction activity. Amendments to the SWP3 may be reviewed by Ohio EPA in the same manner as Part III.C.

# E. Duty to inform contractors and subcontractors.

The permittee shall inform all contractors and subcontractors not otherwise defined as "operators" in Part VII of this general permit who will be involved in the implementation of the SWP3 of the terms and conditions of this general permit. The permittee shall maintain a written document containing the signatures of all contractors and subcontractors involved in the implementation of the SWP3 as proof acknowledging that they reviewed and understand the conditions and responsibilities of the SWP3. The written document shall be created, and signatures shall be obtained prior to commencement of earth disturbing activity on the construction site.

# F. Total Maximum Daily Load (TMDL) allocations.

If a TMDL is approved for any waterbody into which the permittee's site discharges and requires specific BMPs for construction sites, the director may require the permittee to revise his/her SWP3. Specific conditions have been provided in Appendix A (for the Big Darby Creek Watershed) and Appendix B (for portions of the Olentangy river watershed).

# G. SWP3 Requirements.

Operations that discharge storm water from construction activities are subject to the following requirements and the SWP3 shall include the following items:

- 1. Site description. Each SWP3 shall provide:
  - a. A description of the nature and type of the construction activity (e.g., low density residential, shopping mall, highway, etc.);
  - b. Total area of the site and the area of the site that is expected to be disturbed (i.e., grubbing, clearing, excavation, filling or grading, including off-site borrow areas);
  - c. A measure of the impervious area and percent imperviousness created by the construction activity (existing, new and total impervious area after construction);
  - d. Storm water calculations, including the volumetric runoff coefficients for both the pre-construction and post- construction site conditions, and resulting water quality volume; design details for post-construction storm water facilities and pretreatment practices such as contributing drainage areas, capacities, elevations, outlet details and drain times shall be included in the SWP3; and if applicable, explanation of the use of existing post-construction facilities. Ohio EPA recommends the use of data sheets (see Ohio's Rainwater and Land Development manual and Ohio EPA resources for examples);
  - e. Existing data describing the soil and, if available, the quality of any discharge from the site;

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f. A description of prior land uses at the site;

- g. A description of the condition of any on-site streams (e.g. prior channelization, bed instability or headcuts, channels on public maintenance, or natural channels);
- h. An implementation schedule which describes the sequence of major construction operations (i.e., designation of vegetative preservation areas, grubbing, excavating, grading, utilities, infrastructure installation and others) and the implementation of erosion, sediment and storm water management practices or facilities to be employed during each operation of the sequence;
- i. The name and/or location of the immediate receiving stream or surface water(s) and the first subsequent named receiving water(s) and the areal extent and description of wetlands or other special aquatic sites at or near the site which will be disturbed, or which will receive discharges from disturbed areas of the project. For discharges to an MS4, the point of discharge to the MS4 and the location where the MS4 ultimately discharges to a stream or surface water of the state shall be indicated;
- j. For subdivided developments, a detail drawing of individual parcels with their erosion, sediment or storm water control practices and/or a typical individual lot showing standard individual lot erosion and sediment control practices.
  - A typical individual lot drawing does not remove the responsibility to designate specific erosion and sediment control practices in the SWP3 for critical areas such as steep slopes, stream banks, drainage ways and riparian zones;
- Location and description of any storm water discharges associated with dedicated asphalt and dedicated concrete plants covered by this permit and the best management practices to address pollutants in these storm water discharges;
- A cover page or title identifying the name and location of the site, the name and contact information of all construction site operators, the name and contact information for the person responsible for authorizing and amending the SWP3, preparation date, and the estimated dates that construction will start and be complete;
- m. A log documenting grading and stabilization activities as well as amendments to the SWP3, which occur after construction activities commence; and
- n. Site map showing:
  - Limits of earth-disturbing activity of the site including associated off-site borrow or spoil areas that are not addressed by a separate NOI and associated SWP3;
  - ii. Soils types for all areas of the site, including locations of unstable or highly erodible and/or known contaminated soils;

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iii. Existing and proposed contours. A delineation of drainage watersheds expected during and after major grading activities as well as the size of each drainage watershed, in acres;

- iv. The location of any delineated boundary for required riparian setbacks;
- v. Conservation easements or areas designated as open space, preserved vegetation or otherwise protected from earth disturbing activities. A description of any associated temporary or permanent fencing or signage;
- vi. Surface water locations including springs, wetlands, streams, lakes, water wells, etc., on or within 200 feet of the site, including the boundaries of wetlands or stream channels and first subsequent named receiving water(s) the permittee intends to fill or relocate for which the permittee is seeking approval from the Army Corps of Engineers and/or Ohio EPA;
- vii. Existing and planned locations of buildings, roads, parking facilities and utilities;
- viii. The location of all erosion and sediment control practices, including the location of areas likely to require temporary stabilization during site development;
- ix. Sediment traps and basins noting their sediment storage and dewatering (detention) volume and contributing drainage area. Ohio EPA recommends the use of data sheets (see Ohio EPA's Rainwater and Land Development manual and website for examples) to provide data for all sediment traps and basins noting important inputs to design and resulting parameters such as their contributing drainage area, disturbed area, detention volume, sediment storage volume, practice surface area, dewatering time, outlet type and dimensions;
- x. The location of permanent storm water management practices (new and existing) including pretreatment practices to be used to control pollutants in storm water after construction operations have been completed along with the location of existing and planned drainage features including catch basins, culverts, ditches, swales, surface inlets and outlet structures;
- xi. Areas designated for the storage or disposal of solid, sanitary and toxic wastes, including dumpster areas, areas designated for cement truck washout, and vehicle fueling;
- xii. The location of designated construction entrances where the vehicles will access the construction site; and
- xiii. The location of any areas of proposed floodplain fill, floodplain excavation, stream restoration or known temporary or permanent stream crossings.

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2. Controls. In accordance with Part II.A, the SWP3 shall contain a description of the controls appropriate for each construction operation covered by this permit and the operator(s) shall implement such controls. The SWP3 shall clearly describe for each major construction activity identified in Part III.G.1.h: (a) appropriate control measures and the general timing (or sequence) during the construction process that the measures will be implemented; and (b) which contractor is responsible for implementation (e.g., contractor A will clear land and install perimeter controls and contractor B will maintain perimeter controls until final stabilization). The SWP3 shall identify the subcontractors engaged in activities that could impact storm water runoff. The SWP3 shall contain signatures from all of the identified subcontractors indicating that they have been informed and understand their roles and responsibilities in complying with the SWP3. Ohio EPA recommends that the primary site operator review the SWP3 with the primary contractor prior to commencement of construction activities and keep a SWP3 training log to demonstrate that this review has occurred.

Ohio EPA recommends that the erosion, sediment, and storm water management practices used to satisfy the conditions of this permit should meet the standards and specifications in the most current edition of Ohio's <u>Rainwater and Land Development</u> (see definitions) manual or other standards acceptable to Ohio EPA. The controls shall include the following minimum components:

- a. <a href="Preservation Methods.">Preservation Methods.</a> The SWP3 shall make use of practices which preserve the existing natural condition as much as feasible. Such practices may include: preserving existing vegetation, vegetative buffer strips, and existing soil profile and topsoil; phasing of construction operations to minimize the amount of disturbed land at any one time; and designation of tree preservation areas or other protective clearing or grubbing practices. For all construction activities immediately adjacent to surface waters of the state, the permittee shall comply with the buffer non-numeric effluent limitation in Part II.A.6, as measured from the ordinary high water mark of the surface water.
- b. <u>Erosion Control Practices.</u> The SWP3 shall make use of erosion controls that provide cover over disturbed soils unless an exception is approved in accordance with Part III.G.4. A description of control practices designed to re-establish vegetation or suitable cover on disturbed areas after grading shall be included in the SWP3. The SWP3 shall provide specifications for stabilization of all disturbed areas of the site and provide guidance as to which method of stabilization will be employed for any time of the year. Such practices may include: temporary seeding, permanent seeding, mulching, matting, sod stabilization, vegetative buffer strips, phasing of construction operations, use of construction entrances and the use of alternative ground cover.
  - Stabilization. Disturbed areas shall be stabilized in accordance with Table 1 (Permanent Stabilization) and Table 2 (Temporary Stabilization) in Part II.B of this permit.
  - ii. **Permanent stabilization of conveyance channels**. Operators shall undertake special measures to stabilize channels and outfalls and prevent erosive flows. Measures may include seeding, dormant seeding (as defined in the most current edition of the <u>Rainwater and Land</u>

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<u>Development</u> manual), mulching, erosion control matting, sodding, riprap, natural channel design with bioengineering techniques or rock check dams.

- c. Runoff Control Practices. The SWP3 shall incorporate measures which control the flow of runoff from disturbed areas so as to prevent erosion from occurring. Such practices may include rock check dams, pipe slope drains, diversions to direct flow away from exposed soils and protective grading practices. These practices shall divert runoff away from disturbed areas and steep slopes where practicable. Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel to provide non-erosive flow velocity from the structure to a water course so that the natural physical and biological characteristics and functions are maintained and protected.
- d. <u>Sediment Control Practices.</u> The plan shall include a description of structural practices that shall store runoff allowing sediments to settle and/or divert flows away from exposed soils or otherwise limit runoff from exposed areas. Structural practices shall be used to control erosion and trap sediment from a site remaining disturbed for more than 14 days. Such practices may include, among others: sediment settling ponds, sediment barriers, earth diversion dikes or channels which direct runoff to a sediment settling pond and storm drain inlet protection. All sediment control practices must be capable of ponding runoff in order to be considered functional. Earth diversion dikes or channels alone are not considered a sediment control practice unless those are used in conjunction with a sediment settling pond.

The SWP3 shall contain detail drawings for all structural practices.

- i. Timing. Sediment control structures shall be functional throughout the course of earth disturbing activity. Sediment basins and perimeter sediment barriers shall be implemented prior to grading and within seven days from the start of grubbing. They shall continue to function until the upslope development area is stabilized with permanent cover. As construction progresses and the topography is altered, appropriate controls shall be constructed, or existing controls altered to address the changing drainage patterns.
- ii. **Sediment settling ponds.** A sediment settling pond is required for any one of the following conditions:
  - Concentrated or collected storm water runoff (e.g., storm sewer or ditch);
  - Runoff from drainage areas, which exceed the design capacity of silt fence or other sediment barriers; or
  - Runoff from drainage areas that exceed the design capacity of inlet protection.

The permittee may request approval from Ohio EPA to use alternative controls if the permittee can demonstrate the alternative controls are equivalent in effectiveness to a sediment settling pond.

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In accordance with Part II.F, if feasible, sediment settling ponds shall be dewatered at the pond surface using a skimmer or equivalent device. The sediment settling pond volume consists of both a dewatering zone and a sediment storage zone. The volume of the dewatering zone shall be a minimum of 1800 cubic feet (ft³) per acre of drainage (67 yd³/acre) with a minimum 48-hour drain time. The volume of the sediment storage zone shall be calculated by one of the following methods:

Method 1: The volume of the sediment storage zone shall be 1000 ft<sup>3</sup> per disturbed acre within the watershed of the basin. OR

Method 2: The volume of the sediment storage zone shall be the volume necessary to store the sediment as calculated with RUSLE or a similar generally accepted erosion prediction model.

Accumulated sediment shall be removed from the sediment storage zone once it exceeds 50 percent of the minimum required sediment storage design capacity and prior to the conversion to the post-construction practice unless suitable storage is demonstrated based upon over-design. When determining the total contributing drainage area, off-site areas and areas which remain undisturbed by construction activity shall be included unless runoff from these areas is diverted away from the sediment settling pond and is not co-mingled with sediment-laden runoff. The depth of the dewatering zone shall be less than or equal to five feet. The configuration between inlets and the outlet of the basin shall provide at least two units of length for each one unit of width (≥ 2:1 length:width ratio); however, a length to width ratio of 4:1 is recommended. When designing sediment settling ponds, the permittee shall consider public safety, especially as it relates to children, as a design factor for the sediment basin and alternative sediment controls shall be used where site limitations would preclude a safe design. Combining multiple sediment and erosion control measures in order to maximize pollutant removal is encouraged.

iii. **Sediment Barriers and Diversions.** Sheet flow runoff from denuded areas shall be intercepted by sediment barriers or diversions to protect adjacent properties and water resources from sediment transported via sheet flow. Where intended to provide sediment control, silt fence shall be placed on a level contour downslope of the disturbed area. For most applications, standard silt fence may be substituted with a 12-inch diameter sediment barrier. The relationship between the maximum drainage area to sediment barrier for a particular slope range is shown in the following table:

Table 3 Sediment Barrier Maximum Drainage Area Based on Slope

Maximum drainage area (in acres) to 100 linear feet of sediment barrier	Range of slope for a particular drainage area (in percent)
0.5	< 2%
0.25	≥ 2% but < 20%
0.125	≥ 20% but < 50%

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Placing sediment barriers in a parallel series does not extend the size of the drainage area. Storm water diversion practices shall be used to keep runoff away from disturbed areas and steep slopes where practicable. Diversion practices, which include swales, dikes or berms, may receive storm water runoff from areas up to 10 acres.

- iv. **Inlet Protection.** Other erosion and sediment control practices shall minimize sediment laden water entering active storm drain systems. All inlets receiving runoff from drainage areas of one or more acres will require a sediment settling pond.
- v. Surface Waters of the State Protection. If construction activities disturb areas adjacent to surface waters of the state, structural practices shall be designed and implemented on site to protect all adjacent surface waters of the state from the impacts of sediment runoff. No structural sediment controls (e.g., the installation of silt fence or a sediment settling pond) shall be used in a surface water of the state. For all construction activities immediately adjacent to surface waters of the state, the permittee shall comply with the buffer non-numeric effluent limitation in Part II.A.6, as measured from the ordinary high water mark of the surface water. Where impacts within this buffer area are unavoidable, due to the nature of the construction (e.g., stream crossings for roads or utilities), the project shall be designed such that the number of stream crossings and the width of the disturbance within the buffer area are minimized.
- vi. **Modifying Controls**. If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, the permittee shall replace or modify the control for site conditions.
- e. Post-Construction Storm Water Management Requirements. So that receiving stream's physical, chemical and biological characteristics are protected, and stream functions are maintained, post-construction storm water practices shall provide long-term management of runoff quality and quantity. To meet the post-construction requirements of this permit, the SWP3 shall contain a description of the post-construction BMPs that will be installed during construction for the site and the rationale for their selection. The rationale shall address the anticipated impacts on the channel and floodplain morphology, hydrology, and water quality. Post-construction BMPs cannot be installed within a surface water of the state (e.g., wetland or stream) unless it is authorized by a CWA 401 water quality certification, CWA 404 permit, or Ohio EPA non-jurisdictional wetland/stream program approval. Note: local jurisdictions may have more stringent post-construction requirements.

Detail drawings and maintenance plans shall be provided for all post-construction BMPs in the SWP3. Maintenance plans shall be provided by the permittee to the post-construction operator of the site (including homeowner associations) upon completion of construction activities (prior to termination of permit coverage). Maintenance plans shall ensure that pollutants collected within structural post-construction practices are disposed of in accordance with local, state, and federal regulations. To ensure that storm water management systems function as

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designed and constructed, the post-construction operation and maintenance plan shall be a stand-alone document which contains: (1) a designated entity for storm water inspection and maintenance responsibilities; (2) the routine and nonroutine maintenance tasks to be undertaken; (3) a schedule for inspection and maintenance; (4) any necessary legally binding maintenance easements and agreements; (5) construction drawings or excerpts showing the plan view, profile and details of the outlet(s); (6) a map showing all access and maintenance easements; and (7) for table 4a/4b practices, provide relevant elevations and associated volumes that dictate when removal of accumulated sediments must occur. Permittees are responsible for assuring all post-construction practices meet plan specifications and intended post-construction conditions have been met (e.g., sediment removed from, and sediment storage restored to, permanent pools, sediment control outlets removed and replaced with permanent postconstruction discharge structures, and all slopes and drainageways permanently stabilized), but are not responsible under this permit for operation and maintenance of post-construction practices once coverage under this permit is terminated.

Post-construction storm water BMPs that discharge pollutants from point sources once construction is completed may in themselves need authorization under a separate NPDES permit (one example is storm water discharges from regulated industrial sites).

Construction activities that do not include the installation of any impervious surface (e.g., park lands), abandoned mine land reclamation activities regulated by the Ohio Department of Natural Resources, stream and wetland restoration activities, and wetland mitigation activities are not required to comply with the conditions of Part III.G.2.e of this permit. Linear construction projects (e.g., pipeline or utility line installation) which do not result in the installation of additional impervious surface are not required to comply with the conditions of Part III.G.2.e of this permit. However, linear construction projects shall be designed to minimize the number of stream crossings and the width of disturbance, and to achieve final stabilization of the disturbed area as defined in Part VII.M.1.

For all construction activities that will disturb two or more acres of land or will disturb less than two acres that are part of a larger common plan of development or sale which will disturb two or more acres of land, the post construction BMP(s) chosen shall be able to manage storm water runoff for protection of stream channels, stream stability, and water quality. The BMP(s) chosen must be compatible with site and soil conditions. Structural post-construction storm water treatment practices shall be incorporated into the permanent drainage system for the site. The BMP(s) chosen must be sized to treat the water quality volume (WQ $_{v}$ ) and ensure compliance with Ohio's Water Quality Standards in OAC Chapter 3745-1. The WQ $_{v}$  shall be equivalent to the volume of runoff from a 0.90-inch rainfall and shall be determined using the following equations:

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$$WQ_v = Rv * P * A / 12$$
 (Equation 1)

where:

WQ<sub>v</sub> = water quality volume in acre-feet

Rv = the volumetric runoff coefficient calculated using equation 2

P = 0.90 inch precipitation depth

A = area draining into the BMP in acres

$$Rv = 0.05 + 0.9i$$
 (Equation 2)

where i = fraction of post-construction impervious surface

An additional volume equal to 20 percent of the  $WQ_v$  shall be incorporated into the BMP for sediment storage. Ohio EPA recommends BMPs be designed according to the methodology described in the most current edition of the Rainwater and Land Development manual or in another design manual acceptable for use by Ohio EPA.

The BMPs listed in Tables 4a and 4b below are considered standard BMPs approved for general use. However, communities with a regulated MS4 may limit the use of some of these BMPs. BMPs shall be designed such that the drain time is long enough to provide treatment but short enough to provide storage for successive rainfall events and avoid the creation of nuisance conditions. The outlet structure for the post-construction BMP shall not discharge more than the first half of the WQv in less than one-third of the drain time. The WQv is the volume of storm water runoff that must be detained by a post-construction practice as specified by the most recent edition of the Rainwater and Land Development manual.

Post-construction practices shall be sized to treat 100% of the WQv associated with their contributing drainage area. If there is an existing post-construction BMP that treats runoff from the disturbed area and the BMP meets the post-construction requirements of this permit, no additional post-construction BMP will be required. A regional storm water BMP may be used to meet the post-construction requirement if: (1) the BMP meets the design requirements for treating the WQv; and (2) a legal agreement is established through which the regional BMP owner or operator agrees to provide this service in the long term. Design information for such facilities such as contributing drainage areas, capacities, elevations, outlet details and drain times shall be included in the SWP3.

Table 4a Extended Detention Post-Construction Practices with Minimum Drain Times

Extended Detention Practices	Minimum Drain Time of WQv	
Wet Extended Detention Basin <sup>1,2</sup>	24 hours	
Constructed Extended Detention Wetland <sup>1,2</sup>	24 hours	
Dry Extended Detention Basin <sup>1,3</sup>	48 hours	
Permeable Pavement – Extended Detention <sup>1</sup>	24 hours	
Underground Storage – Extended Detention <sup>1,4</sup>	24 hours	
Sand & Other Media Filtration - Extended Detention <sup>1, 5</sup>	24 hours	

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- 1. The outlet structure shall not discharge more than the first half of the WQv in less than one-third of the drain time.
- 2. Provide a permanent pool with a minimum volume equal to the WQv and an extended detention volume above the permanent pool equal to 1.0 x WQv.
- 3. Dry basins must include a forebay and a micropool each sized at a minimum of 0.1 x WQv and a protected outlet, or include acceptable pretreatment and a protected outlet.
- 4. Underground storage must have pretreatment for removal of suspended sediments included in the design and documented in the SWP3. This pretreatment shall concentrate sediment in a location where it can be readily removed. For non-infiltrating, underground extended detention systems, pretreatment shall be 50% effective at capturing total suspended solids according to the testing protocol established in the Alternative Post-Construction BMP Testing Protocol.
- 5. The WQv ponding area shall completely empty between 24 and 72 hours.

**Table 4b Infiltration Post-Construction Practices with Maximum Drain Times** 

Infiltration Practices	Maximum Drain Time of WQv
Bioretention Area/Cell <sup>1,2</sup>	24 hours
Infiltration Basin <sup>2</sup>	24 hours
Infiltration Trench <sup>3</sup>	48 hours
Permeable Pavement – Infiltration <sup>3</sup>	48 hours
Underground Storage – Infiltration <sup>3,4</sup>	48 hours

#### Notes:

- 1. Bioretention soil media shall have a permeability of approximately 1-4 in/hr. Meeting the soil media specifications in the Rainwater and Land Development manual is considered compliant with this requirement. Bioretention cells must have underdrains unless in-situ conditions allow for the WQv (surface ponding) plus the bioretention soil (to a depth of 24 inches) to drain completely within 48 hours.
- 2. Infiltrating practices with the WQv stored aboveground (bioretention, infiltration basin) shall fully drain the WQv within 24 hours to minimize nuisance effects of standing water and to promote vigorous communities of appropriate vegetation.
- 3. Subsurface practices designed to fully infiltrate the WQv (infiltration trench, permeable pavement with infiltration, underground storage with infiltration) shall empty within 48 hours to recover storage for subsequent storm events.
- 4. Underground storage systems with infiltration must have adequate pretreatment of suspended sediments included in the design and documented in the SWP3 in order to minimize clogging of the infiltrating surface. Pretreatment shall concentrate sediment in a location where it can be readily removed. Examples include media filters situated upstream of the storage or other suitable alternative approved by Ohio EPA. For infiltrating underground systems, pretreatment shall be 80% effective at capturing total suspended solids according to the testing protocol established in the Alternative Post-Construction BMP Testing Protocol.

<u>Small Construction Activities.</u> For all construction activities authorized under this permit which result in a disturbance less than 2 acres, a post-construction practice shall be used to treat storm water runoff for pollutants and to reduce adverse impacts on receiving waters. The applicant must provide a justification in the SWP3 why the use of table 4a and 4b practices are not feasible. The justification must address limiting factors which would prohibit the project going forward should table 4a and 4b practices be required. Please note that additional practices selected will require approval from the regulated MS4. The use of green infrastructure BMPs such as runoff reducing practices is also encouraged.

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<u>Transportation Projects</u>. The construction of new roads and roadway improvement projects by public entities (i.e., the state, counties, townships, cities, or villages) may implement post-construction BMPs in compliance with the current version (as of the effective date of this permit) of the Ohio Department of Transportation's "Location and Design Manual, Volume Two Drainage Design" that has been accepted by Ohio EPA as an alternative to the conditions of this permit.

Offsite Mitigation of Post-Construction. Ohio EPA may authorize the offsite mitigation of the post-construction requirements of Part III.G.2.e of this permit on a case by case basis provided the permittee clearly demonstrates the BMPs listed in Tables 4a and 4b are not feasible and the following criteria are met: (1) a maintenance agreement or policy is established to ensure operations and treatment long-term; (2) the offsite location discharges to the same HUC-12 watershed unit; and (3) the mitigation ratio of the WQv is 1.5 to 1 or the WQv at the point of retrofit, whichever is greater. Requests for offsite mitigation must be received prior to receipt of the NOI application.

<u>Previously Developed Areas</u> - Ohio EPA encourages the redevelopment of previously graded, paved or built upon sites through a reduction of the WQv treatment requirement. For a previously developed area, one or a combination of the following two conditions shall be met:

- A 20 percent net reduction of the site's volumetric runoff coefficient through impervious area reduction with soil restoration or replacing impervious roof area with green roof area (for these purposes green roofs shall be considered pervious surface) or
- Treatment of 20 percent of the WQv for the previously developed area using a practice meeting Table 4a/4b criteria.

Where there is a combination of redeveloped areas and new development, a weighted approached shall be used with the following equation:

$$WQv = P * A * [(Rv_1*0.2) + (Rv_2 - Rv_1)] / 12$$
 (Equation 3)

where

P = 0.90 inches

A = area draining into the BMP in acres

Rv<sub>1</sub> = volumetric runoff coefficient for existing conditions (current site impervious area)

Rv<sub>2</sub> = volumetric runoff coefficient for proposed conditions (postconstruction site impervious area)

Post-construction practices shall be located to treat impervious areas most likely to generate the highest pollutant load, such as parking lots or roadways, rather than areas predicted to be cleaner such as rooftops.

<u>Runoff Reduction Practices</u>. The size of structural post-construction practices used to capture and treat the WQv can be reduced by incorporating runoff

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reducing practices into the design of the site's drainage system. The approach to calculate and document runoff reduction is detailed in the Rainwater and Land Development Manual. BMP-specific runoff reduction volumes are set by specifications in the Rainwater and Land Development Manual for the following practices:

- Impervious surface disconnection
- Rainwater harvesting
- Bioretention
- Infiltration basin
- Infiltration trench
- Permeable pavement with infiltration
- Underground storage with infiltration
- Grass swale
- Sheet flow to filter strip
- Sheet flow to conservation area

A runoff reduction approach may be used to meet the groundwater recharge requirements in the Big Darby Creek Watershed. The runoff reduction practices used for groundwater recharge may be used to reduce the WQv requirement, see appendix A for details on groundwater recharge requirements.

In order to promote the implementation of green infrastructure, the Director may consider the use of runoff reducing practices to demonstrate compliance with Part III.G.2.e of this permit for areas of the site not draining into a common drainage system of the site, e.g., sheet flow from perimeter areas such as the rear yards of residential lots, low density development scenarios, or where the permittee can demonstrate that the intent of pollutant removal and stream protection, as required in Part III.G.2.e of this permit is being addressed through non-structural post-construction BMPs based upon review and approval by Ohio EPA.

<u>Use of Alternative Post-Construction BMPs.</u> This permit does not preclude the use of innovative or experimental post-construction storm water management technologies. Alternative post-construction BMPs shall previously have been tested to confirm storm water treatment efficacy equivalent to those BMPs listed in Tables 4a and 4b using the protocol described in this section. BMP testing may include laboratory testing, field testing, or both.

Permittees shall request approval from Ohio EPA to use alternative post-construction BMPs on a case-by-case basis. To use an alternative post-construction BMP, the permittee must demonstrate that use of a BMP listed in Tables 4a and 4b is not feasible and the proposed alternative post-construction BMP meets the minimum treatment criteria as described in this section. The permittee shall submit an application to Ohio EPA for any proposed alternative post-construction BMP. Where the development project is located within a regulated municipal separate storm sewer system (MS4) community, the use of an alternative practice requires pre-approval by the MS4 before submittal of the

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Ohio EPA permit application. Ohio EPA requires that approvals for alternative post-construction BMPs are finalized before permittees submit an NOI for permit coverage.

In addition to meeting sediment removal criteria, the discharge rate from the proposed alternative practice shall be reduced to prevent stream bed erosion and protect the physical and biological stream integrity unless there will be negligible hydrological impact to the receiving surface water of the state. Discharge rate is considered to have a negligible impact if the permittee can demonstrate that one of the following three conditions exist:

- i. The entire WQv is recharged to groundwater;
- ii. The larger common plan of development or sale will create less than one acre of impervious surface;
- iii. The storm water drainage system of the development discharges directly into a large river with drainage area equal to 100 square miles or larger upstream of the development site or to a lake where the development area is less than 5 percent of the watershed area, unless a TMDL has identified water quality problems into the receiving surface waters of the state.

If the conditions above that minimize the potential for hydrological impact to the receiving surface water of the state do not exist, then the alternative post-construction BMP must prevent stream erosion by reducing the flow rate from the WQ $_{\text{V}}$ . In such cases, discharge of the WQ $_{\text{V}}$  must be controlled. A second storm water BMP that provides extended detention of the WQ $_{\text{V}}$  may be needed to meet the post-construction criteria.

Alternative Post-Construction BMP Testing Protocol. For laboratory testing, the alternative BMP shall be tested using sediment with a specific gravity of 2.65, a particle size distribution closely matching the distribution shown in Table 5, and total suspended sediment (TSS) concentrations within 10% of 200 mg/L (180 mg/L – 220 mg/L TSS). For an alternative BMP to be acceptable, the test results must demonstrate that the minimum treatment rate is 80% TSS removal at the design flow rate for the tested BMP.

Table 5 Particle Size Distribution for Testing Alternative Post-Construction BMPs

Particle Size (microns)	Percent Finer (%)
1,000	100
500	95
250	90
150	75
100	60
75	50
50	45
20	35
8	20
5	10
2	5

• For field testing, the alternative BMP shall be tested using storm water runoff

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from the field, not altered by adding aggregate or subjecting to unusually high sediment loads such as those from unstabilized construction disturbance. The storm water runoff used for field testing shall be representative of runoff from the proposed installation site for the alternative BMP after all construction activities have ceased and the ground has been stabilized. The influent and effluent TSS concentrations of storm water runoff must be collected in the field. For an alternative BMP to be acceptable, the test results must demonstrate the minimum treatment rate is 80% TSS removal for influent concentrations equal to or greater than 100 mg/L TSS. If the influent concentration to the proposed alternative BMP is less than 100 mg/L TSS in the field, then the BMP must achieve an average effluent concentration less than or equal to 20 mg/L TSS.

- Testing of alternative post-construction BMPs shall be performed or overseen by a qualified independent, third-party testing organization;
- Testing shall demonstrate the maximum flow rate at which the alternative post-construction BMP can achieve the necessary treatment efficacy, including consideration for the potential of sediment resuspension;
- Testing shall demonstrate the maximum volume of sediment and floatables that can be collected in the alternative post-construction BMP before pollutants must be removed to maintain 80% treatment efficacy;
- Testing shall indicate the recommended maintenance frequency and maintenance protocol to ensure ongoing performance of the alternative post-construction BMP.

The alternative post-construction BMP testing protocol described in this section is similar to testing requirements specified by the New Jersey Department of Environmental Protection (NJDEP) for storm water Manufactured Treatment Devices (MTD) and therefore testing results certified by NJDEP shall be accepted by Ohio EPA. For examples of BMPs that have been tested using New Jersey Department of Environmental Protection's procedures, see the website: www.njstormwater.org.

Another nationally recognized storm water product testing procedure is the Technology Assessment Protocol – Ecology (TAPE) administered by the State of Washington, Department of Ecology. The TAPE testing procedure describes testing to achieve 80% TSS removal using a sediment mix with a particle size distribution with approximately 75% of the mass of the aggregate with particle diameters less than 45 microns. Overall, this particle size distribution is finer than the distribution in Table 5. Therefore, if TAPE testing results are available for a proposed alternative post-construction BMP, those results shall be accepted by Ohio EPA. The State of Washington, Department of Ecology website is https://ecology.wa.gov/.

Alternative BMPs that utilize treatment processes such as filtering or centrifugal separation, rather than a detention and settling volume, must be designed to ensure treatment of 90 percent of the average annual runoff

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volume. For the design of these BMPs, the water quality flow rate (WQF) considered equivalent to the Water Quality Volume (WQv) shall be determined utilizing the Rational Method (Equation 4) with an intensity (i) appropriate for the water quality precipitation event. This intensity shall be calculated using the table given in Appendix C.

$$WQF = C * i * A$$
 (Equation 4)

Where

WQF = water quality flow rate in cubic feet per second (cfs)

C = rational method runoff coefficient

i = intensity (in/hr)

A = area draining to the BMP (acres)

Alternative post-construction BMPs may include, but are not limited to: vegetated swales, vegetated filter strips, hydrodynamic separators, high-flow media filters, cartridge filters, membrane filters, subsurface flow wetlands, multi-chamber treatment trains, road shoulder media filter drains, wetland channels, rain barrels, green roofs, and rain gardens. The Director may also consider non-structural post-construction approaches.

- f. Surface Water Protection. If the project site contains any streams, rivers, lakes, wetlands or other surface waters, certain construction activities at the site may be regulated under the CWA and/or state isolated wetland permit requirements. Sections 404 and 401 of the Act regulate the discharge of dredged or fill material into surface waters and the impacts of such activities on water quality, respectively. Construction activities in surface waters which may be subject to CWA regulation and/or state isolated wetland permit requirements include, but are not limited to: sewer line crossings, grading, backfilling or culverting streams, filling wetlands, road and utility line construction, bridge installation and installation of flow control structures. If the project contains streams, rivers, lakes or wetlands or possible wetlands, the permittee shall contact the appropriate U.S. Army Corps of Engineers District Office. (CAUTION: Any area of seasonally wet hydric soil is a potential wetland - please consult the Soil Survey and list of hydric soils for your County, available at your county's Soil and Water Conservation District. If you have any questions about Section 401 water quality certification, please contact the Ohio Environmental Protection Agency, Section 401 Coordinator.)
  - U.S. Army Corps of Engineers (Section 404 regulation):
    - Huntington, WV District (304) 399-5210 (Muskingum River, Hocking River, Scioto River, Little Miami River, and Great Miami River Basins)
    - Buffalo, NY District (716) 879-4330 (Lake Erie Basin)
    - Pittsburgh, PA District (412) 395-7155 (Mahoning River Basin)
    - Louisville, KY District (502) 315-6686 (Ohio River)

Ohio EPA 401/404 and non-jurisdictional stream/wetland coordinator can be contacted at (614) 644-2001 (all of Ohio)

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Concentrated storm water runoff from BMPs to natural wetlands shall be converted to diffuse flow before the runoff enters the wetlands. The flow should be released such that no erosion occurs downslope. Level spreaders may need to be placed in series, particularly on steep sloped sites, to ensure non-erosive velocities. Other structural BMPs may be used between storm water features and natural wetlands, in order to protect the natural hydrology, hydroperiod, and wetland flora. If the applicant proposes to discharge to natural wetlands, a hydrologic analysis shall be performed. The applicant shall attempt to match the pre-development hydroperiods and hydrodynamics that support the wetland. The applicant shall assess whether their construction activity will adversely impact the hydrologic flora and fauna of the wetland. Practices such as vegetative buffers, infiltration basins, conservation of forest cover, and the preservation of intermittent streams, depressions, and drainage corridors may be used to maintain wetland hydrology.

# g. Other controls.

- i. Non-Sediment Pollutant Controls. In accordance with Part II.E. no solid (other than sediment) or liquid waste, including building materials, shall be discharged in storm water runoff. The permittee must implement all necessary BMPs to prevent the discharge of non-sediment pollutants to the drainage system of the site or surface waters of the state or an MS4. Under no circumstance shall wastewater from the washout of concrete trucks, stucco, paint, form release oils, curing compounds, and other construction materials be discharged directly into a drainage channel, storm sewer or surface waters of the state. Also, no pollutants from vehicle fuel, oils, or other vehicle fluids can be discharged to surface waters of the state. No exposure of storm water to waste materials is recommended. The SWP3 must include methods to minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, and sanitary waste to precipitation, storm water runoff, and snow melt. In accordance with Part II.D.3, the SWP3 shall include measures to prevent and respond to chemical spills and leaks. You may also reference the existence of other plans (i.e., Spill Prevention Control and Countermeasure (SPCC) plans, spill control programs, Safety Response Plans, etc.) provided that such plan addresses conditions of this permit condition and a copy of such plan is maintained on site.
- ii. **Off-site traffic.** Off-site vehicle tracking of sediments and dust generation shall be minimized. In accordance with Part II.D.1, the SWP3 shall include methods to minimize the discharge of pollutants from equipment and vehicle washing, wheel washwater, and other washwaters. No detergents may be used to wash vehicles. Washwaters shall be treated in a sediment basin or alternative control that provides equivalent treatment prior to discharge.
- iii. **Compliance with other requirements.** The SWP3 shall be consistent with applicable State and/or local waste disposal, sanitary sewer or septic system regulations, including provisions prohibiting waste disposal by

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open burning and shall provide for the proper disposal of contaminated soils to the extent these are located within the permitted area.

- iv. **Trench and ground water control**. In accordance with Part II.C, there shall be no turbid discharges to surface waters of the state resulting from dewatering activities. If trench or ground water contains sediment, it shall pass through a sediment settling pond or other equally effective sediment control device, prior to being discharged from the construction site. Alternatively, sediment may be removed by settling in place or by dewatering into a sump pit, filter bag or comparable practice. Ground water which does not contain sediment or other pollutants is not required to be treated prior to discharge. However, care must be taken when discharging ground water to ensure that it does not become pollutant-laden by traversing over disturbed soils or other pollutant sources.
- v. **Contaminated Sediment.** Where construction activities are to occur on sites with contamination from previous activities, operators shall be aware that concentrations of materials that meet other criteria (is not considered a Hazardous Waste, meeting VAP standards, etc.) may still result in storm water discharges in excess of Ohio Water Quality Standards. Such discharges are not authorized by this permit. Appropriate BMPs include, but are not limited to:
  - The use of berms, trenches, and pits to collect contaminated runoff and prevent discharges;
  - Pumping runoff into a sanitary sewer (with prior approval of the sanitary sewer operator) or into a container for transport to an appropriate treatment/disposal facility; and
  - Covering areas of contamination with tarps or other methods that prevent storm water from coming into contact with the material.

Operators should consult with Ohio EPA Division of Surface Water prior to seeking permit coverage.

- h. <u>Maintenance.</u> All temporary and permanent control practices shall be maintained and repaired as needed to ensure continued performance of their intended function. All sediment control practices must be maintained in a functional condition until all up-slope areas they control are permanently stabilized. The SWP3 shall be designed to minimize maintenance requirements. The applicant shall provide a description of maintenance procedures needed to ensure the continued performance of control practices.
- i. <u>Inspections.</u> The permittee shall assign "qualified inspection personnel" to conduct inspections to ensure that the control practices are functional and to evaluate whether the SWP3 is adequate and properly implemented in accordance with the schedule proposed in Part III.G.1.h of this permit or whether additional control measures are required. At a minimum, procedures in a SWP3 shall provide that all controls on the site are inspected:

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 after any storm event greater than one-half inch of rain per 24-hour period by the end of the next calendar day, excluding weekends and holidays unless work is scheduled; and

once every seven calendar days.

The inspection frequency may be reduced to at least once every month for dormant sites if:

- the entire site is temporarily stabilized or
- runoff is unlikely due to weather conditions for extended periods of time (e.g., site is covered with snow, ice, or the ground is frozen).

The beginning and ending dates of any reduced inspection frequency shall be documented in the SWP3.

Once a definable area has achieved final stabilization, the area may be marked on the SWP3 and no further inspection requirements shall apply to that portion of the site.

Following each inspection, a checklist must be completed and signed by the qualified inspection personnel representative. At a minimum, the inspection report shall include:

- i. the inspection date;
- ii. names, titles, and qualifications of personnel making the inspection;
- iii. weather information for the period since the last inspection (or since commencement of construction activity if the first inspection) including a best estimate of the beginning of each storm event, duration of each storm event, approximate amount of rainfall for each storm event (in inches), and whether any discharges occurred;
- iv. weather information and a description of any discharges occurring at the time of the inspection;
- v. location(s) of discharges of sediment or other pollutants from the site;
- vi. location(s) of BMPs that need to be maintained;
- vii. location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location;
- viii. location(s) where additional BMPs are needed that did not exist at the time of inspection; and
- ix. corrective action required including any changes to the SWP3 necessary and implementation dates.

Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of or the potential for pollutants entering the drainage system. Erosion and sediment control measures identified in the SWP3 shall be observed to ensure that those are operating correctly. Discharge locations shall be inspected to ascertain whether erosion and sediment control measures are effective in preventing significant impacts to the receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of off-site vehicle tracking.

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The permittee shall maintain for three years following the submittal of a notice of termination form, a record summarizing the results of the inspection, names(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWP3 and a certification as to whether the facility is in compliance with the SWP3 and the permit and identify any incidents of non-compliance. The record and certification shall be signed in accordance with Part V.G. of this permit.

- i. When practices require repair or maintenance. If the inspection reveals that a control practice is in need of repair or maintenance, with the exception of a sediment settling pond, it shall be repaired or maintained within 3 days of the inspection. Sediment settling ponds shall be repaired or maintained within 10 days of the inspection.
- ii. When practices fail to provide their intended function. If the inspection reveals that a control practice fails to perform its intended function and that another, more appropriate control practice is required, the SWP3 shall be amended and the new control practice shall be installed within 10 days of the inspection.
- iii. When practices depicted on the SWP3 are not installed. If the inspection reveals that a control practice has not been implemented in accordance with the schedule contained in Part III.G.1.h of this permit, the control practice shall be implemented within 10 days from the date of the inspection. If the inspection reveals that the planned control practice is not needed, the record shall contain a statement of explanation as to why the control practice is not needed.
- 3. Approved State or local plans. All dischargers regulated under this general permit must comply, except those exempted under state law, with the lawful requirements of municipalities, counties and other local agencies regarding discharges of storm water from construction activities. All erosion and sediment control plans and storm water management plans approved by local officials shall be retained with the SWP3 prepared in accordance with this permit. Applicable requirements for erosion and sediment control and storm water management approved by local officials are, upon submittal of a NOI form, incorporated by reference and enforceable under this permit even if they are not specifically included in an SWP3 required under this permit. When the project is located within the jurisdiction of a regulated municipal separate storm sewer system (MS4), the permittee shall certify that the SWP3 complies with the requirements of the storm water management program of the MS4 operator.
- 4. Exceptions. If specific site conditions prohibit the implementation of any of the erosion and sediment control practices contained in this permit or site-specific conditions are such that implementation of any erosion and sediment control practices contained in this permit will result in no environmental benefit, then the permittee shall provide justification for rejecting each practice based on site conditions. Exceptions from implementing the erosion and sediment control standards contained in this permit will be approved or denied on a case-by-case basis.

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The permittee may request approval from Ohio EPA to use alternative methods to satisfy conditions in this permit if the permittee can demonstrate that the alternative methods are sufficient to protect the overall integrity of receiving streams and the watershed. Alternative methods will be approved or denied on a case-by-case basis.

## PART IV. NOTICE OF TERMINATION REQUIREMENTS

# A. Failure to notify.

The terms and conditions of this permit shall remain in effect until a signed Notice of Termination (NOT) form is submitted. Failure to submit an NOT constitutes a violation of this permit and may affect the ability of the permittee to obtain general permit coverage in the future.

## B. When to submit an NOT.

- 1. Permittees wishing to terminate coverage under this permit shall submit an NOT form in accordance with Part V.G. of this permit. Compliance with this permit is required until an NOT form is submitted. The permittee's authorization to discharge under this permit terminates at midnight of the day the NOT form is submitted. Prior to submitting the NOT form, the permittee shall conduct a site inspection in accordance with Part III.G.2.i of this permit and have a maintenance plan in place to ensure all post-construction BMPs will be maintained in perpetuity.
- 2. All permittees shall submit an NOT form within 45 days of completing all permit requirements. Enforcement actions may be taken if a permittee submits an NOT form without meeting one or more of the following conditions:
  - a. Final stabilization (see definition in Part VII) has been achieved on all portions of the site for which the permittee is responsible (including, if applicable, returning agricultural land to its pre-construction agricultural use);
  - b. Another operator(s) has assumed control over all areas of the site that have not been finally stabilized;
  - c. A maintenance plan is in place to ensure all post construction BMPs are adequately maintained in the long-term;
  - d. For non-residential developments, all elements of the storm water pollution prevention plan have been completed, the disturbed soil at the identified facility have been stabilized and temporary erosion and sediment control measures have been removed at the appropriate time, or all storm water discharges associated with construction activity from the identified facility that are authorized by the above referenced NPDES general permit have otherwise been eliminated. (i)For residential developments only, temporary stabilization has been completed and the lot, which includes a home, has been transferred to the homeowner; (ii) final stabilization has been completed and the lot, which does not include a home, has been transferred to the property owner; (iii) no stabilization has been implemented on a lot, which includes a home, and the lot has been transferred to the homeowner; or

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e. An exception has been granted under Part III.G.4.

#### C. How to submit an NOT.

To terminate permit coverage, the permitee shall submit a complete and accurate Notice of Termination (NOT) form using Ohio EPA's electronic application form which is available through the Ohio EPA eBusiness Center at: https://ebiz.epa.ohio.gov/. Submission through the Ohio EPA eBusiness Center will require establishing an Ohio EPA eBusiness Center account and obtaining a unique Personal Identification Number (PIN) for final submission of the NOT. Existing eBusiness Center account holders can access the NOT form through their existing account and submit using their existing PIN. Please see the following link for guidance: http://epa.ohio.gov/dsw/ebs.aspx#170669803-streams-guidance. Alternatively, if you are unable to access the NOT form through the agency eBusiness Center due to a demonstrated hardship, the NOT may be submitted on paper NOT forms provided by Ohio EPA. NOT information shall be typed on the form. Please contact Ohio EPA, Division of Surface Water at (614) 644-2001 if you wish to receive a paper NOT form.

#### PART V. STANDARD PERMIT CONDITIONS.

# A. Duty to comply.

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of ORC Chapter 6111 and is grounds for enforcement action.

Ohio law imposes penalties and fines for persons who knowingly make false statements or knowingly swear or affirm the truth of a false statement previously made.

# B. Continuation of an expired general permit.

An expired general permit continues in force and effect until a new general permit is issued.

# C. Need to halt or reduce activity not a defense.

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

## D. Duty to mitigate.

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

# E. Duty to provide information.

The permittee shall furnish to the director, within 10 days of written request, any information which the director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee

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# shall also furnish to the director upon request copies of records required to be kept by this permit.

## F. Other information.

When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the NOI, SWP3, NOT or in any other report to the director, he or she shall promptly submit such facts or information.

# G. Signatory requirements.

All NOIs, NOTs, SWP3s, reports, certifications or information either submitted to the director or that this permit requires to be maintained by the permittee, shall be signed.

- 1. These items shall be signed as follows:
  - a. For a corporation: By a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
    - i. A president, secretary, treasurer or vice-president of the corporation in charge of a principal business function or any other person who performs similar policy or decision-making functions for the corporation; or
    - ii. The manager of one or more manufacturing, production or operating facilities, provided, the manager is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
  - b. For a partnership or sole proprietorship: By a general partner or the proprietor, respectively; or
  - c. For a municipality, State, Federal or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (1) the chief executive officer of the agency or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of U.S. EPA).
- 2. All reports required by the permits and other information requested by the director shall be signed by a person described in Part V.G.1 of this permit or by a duly authorized representative of that person. A person is a duly authorized representative only if:

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a. The authorization is made in writing by a person described in Part V.G.1 of this permit and submitted to the director;

- b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator of a well or well field, superintendent, position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
- c. The written authorization is submitted to the director.
- 3. Changes to authorization. If an authorization under Part V.G.2 of this permit is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part V.G.2 of this permit must be submitted to the director prior to or together with any reports, information or applications to be signed by an authorized representative.

#### H. Certification.

Any person signing documents under this section shall make the following 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 knowing violations."

# I. Oil and hazardous substance liability.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under section 311 of the CWA or 40 CFR Part 112. 40 CFR Part 112 establishes procedures, methods and equipment and other requirements for equipment to prevent the discharge of oil from non-transportation-related onshore and offshore facilities into or upon the navigable surface waters of the state or adjoining shorelines.

# J. Property rights.

The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

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#### K. Severability.

The provisions of this permit are severable and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

#### L. Transfers.

Ohio NPDES general permit coverage is transferable. Ohio EPA must be notified in writing sixty days prior to any proposed transfer of coverage under an Ohio NPDES general permit. The transferee must inform Ohio EPA it will assume the responsibilities of the original permittee transferor.

#### Μ. **Environmental laws.**

No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

#### N. Proper operation and maintenance.

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of SWP3s. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

#### Ο. Inspection and entry.

The permittee shall allow the director or an authorized representative of Ohio EPA, upon the presentation of credentials and other documents as may be required by law, to:

- Enter upon the permittee's premises where a regulated facility or activity is located or 1. conducted or where records must be kept under the conditions of this permit;
- 2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;
- 3. Inspect at reasonable times any facilities or equipment (including monitoring and control equipment); and
- 4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

#### Ρ. Duty to Reapply.

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.

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## Q. Permit Actions.

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

## R. Bypass.

The provisions of 40 CFR Section 122.41(m), relating to "Bypass," are specifically incorporated herein by reference in their entirety. For definition of "Bypass," see Part VII.C.

# S. Upset.

The provisions of 40 CFR Section 122.41(n), relating to "Upset," are specifically incorporated herein by reference in their entirety. For definition of "Upset," see Part VII.GG.

# T. Monitoring and Records.

The provisions of 40 CFR Section 122.41(j), relating to "Monitoring and Records," are specifically incorporated herein by reference in their entirety.

## U. Reporting Requirements.

The provisions of 40 CFR Section 122.41(I), relating to "Reporting Requirements," are specifically incorporated herein by reference in their entirety.

#### PART VI. REOPENER CLAUSE

If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with construction activity covered by this permit, the permittee of such discharge may be required to obtain coverage under an individual permit or an alternative general permit in accordance with Part I.C of this permit or the permit may be modified to include different limitations and/or requirements.

Permit modification or revocation will be conducted according to ORC Chapter 6111.

#### **PART VII. DEFINITIONS**

- A. <u>"Act"</u> means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub. L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. 96-483, Pub. L. 97-117 and Pub. L. 100-4, 33 U.S.C. 1251 et. seq.
- B. <u>"Bankfull channel"</u> means a channel flowing at channel capacity and conveying the bankfull discharge. Delineated by the highest water level that has been maintained for a sufficient period of time to leave evidence on the landscape, such as the point where the natural vegetation changes from predominantly aquatic to predominantly terrestrial or

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the point at which the clearly scoured substrate of the stream ends and terrestrial vegetation begins.

- C. <u>"Bankfull discharge"</u> means the streamflow that fills the main channel and just begins to spill onto the floodplain; it is the discharge most effective at moving sediment and forming the channel.
- D. <u>"Best management practices (BMPs)"</u> means schedules of activities, prohibitions of practices, maintenance procedures and other management practices (both structural and non-structural) to prevent or reduce the pollution of surface waters of the state. BMP's also include treatment requirements, operating procedures and practices to control plant and/or construction site runoff, spillage or leaks, sludge or waste disposal or drainage from raw material storage.
- E. <u>"Bypass"</u> means the intentional diversion of waste streams from any portion of a treatment facility.
- F. "Channelized stream" means the definition set forth in Section 6111.01 (M) of the ORC.
- G. <u>"Commencement of construction"</u> means the initial disturbance of soils associated with clearing, grubbing, grading, placement of fill, or excavating activities or other construction activities.
- H. <u>"Concentrated storm water runoff"</u> means any storm water runoff which flows through a drainage pipe, ditch, diversion or other discrete conveyance channel.
- I. "Director" means the director of the Ohio Environmental Protection Agency.
- J. <u>"Discharge"</u> means the addition of any pollutant to the surface waters of the state from a point source.
- K. <u>"Disturbance"</u> means any clearing, grading, excavating, filling, or other alteration of land surface where natural or man-made cover is destroyed in a manner that exposes the underlying soils.
- L. <u>"Drainage watershed"</u> means for purposes of this permit the total contributing drainage area to a BMP, i.e., the "watershed" directed to the practice. This would also include any off-site drainage.
- M. "Final stabilization" means that either:
  - 1. All soil disturbing activities at the site are complete and a uniform perennial vegetative cover (e.g., evenly distributed, without large bare areas) with a density of at least 70 percent cover for the area has been established on all unpaved areas and areas not covered by permanent structures or equivalent stabilization measures (such as the use of mulches, rip-rap, gabions or geotextiles) have been employed. In addition, all temporary erosion and sediment control practices are removed and disposed of and all trapped sediment is permanently stabilized to prevent further erosion; or

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2. For individual lots in residential construction by either:

- a. The homebuilder completing final stabilization as specified above or
- b. The homebuilder establishing temporary stabilization including perimeter controls for an individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need for and benefits of, final stabilization. (Homeowners typically have an incentive to put in the landscaping functionally equivalent to final stabilization as quick as possible to keep mud out of their homes and off sidewalks and driveways.); or
- 3. For construction projects on land used for agricultural purposes (e.g., pipelines across crop or range land), final stabilization may be accomplished by returning the disturbed land to its pre-construction agricultural use. Areas disturbed that were previously used for agricultural activities, such as buffer strips immediately adjacent to surface waters of the state and which are not being returned to their pre-construction agricultural use, must meet the final stabilization criteria in (1) or (2) above.
- N. <u>"General contractor"</u> for the purposes of this permit, the primary individual or company solely accountable to perform a contract. The general contractor typically supervises activities, coordinates the use of subcontractors, and is authorized to direct workers at a site to carry out activities required by the permit.
- O. <u>"Individual lot NOI"</u> means a Notice of Intent for an individual lot to be covered by this permit (see Part I of this permit).
- P. <u>"Larger common plan of development or sale"</u>- means a contiguous area where multiple separate and distinct construction activities may be taking place at different times on different schedules under one plan.
- Q. <u>"MS4"</u> means municipal separate storm sewer system which means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) that are:
  - Owned or operated by the federal government, state, municipality, township, county, district(s) or other public body (created by or pursuant to state or federal law) including special district under state law such as a sewer district, flood control district or drainage districts or similar entity or a designated and approved management agency under section 208 of the act that discharges into surface waters of the state; and
  - 2. Designed or used for collecting or conveying solely storm water,
  - 3. Which is not a combined sewer and
  - 4. Which is not a part of a publicly owned treatment works.
- R. <u>"National Pollutant Discharge Elimination System (NPDES)"</u> means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits and enforcing pretreatment requirements, under sections 307, 402, 318 and 405 of the CWA. The term includes an "approved program."

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S. <u>"Natural channel design"</u> means an engineering technique that uses knowledge of the natural process of a stream to create a stable stream that will maintain its form and function over time.

- T. "NOI" means notice of intent to be covered by this permit.
- U. "NOT" means notice of termination.
- V. <u>"Operator"</u> means any party associated with a construction project that meets either of the following two criteria:
  - The party has day-to-day operational control of all activities at a project which are necessary to ensure compliance with a SWP3 for the site and all permit conditions including the ability to authorize modifications to the SWP3, construction plans and site specification to ensure compliance with the General Permit, or
  - 2. Property owner meets the definition of operator should the party which has day to day operational control require additional authorization from the owner for modifications to the SWP3, construction plans, and/or site specification to ensure compliance with the permit or refuses to accept all responsibilities as listed above (Part VII.V.1).

Subcontractors generally are not considered operators for the purposes of this permit. As set forth in Part I.F.1, there can be more than one operator at a site and under these circumstances, the operators shall be co-permittees.

- W. <u>"Ordinary high water mark"</u> means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.
- X. <u>"Owner or operator"</u> means the owner or operator of any "facility or activity" subject to regulation under the NPDES program.
- Y. <u>"Permanent stabilization"</u> means the establishment of permanent vegetation, decorative landscape mulching, matting, sod, rip rap and landscaping techniques to provide permanent erosion control on areas where construction operations are complete or where no further disturbance is expected for at least one year.
- Z. <u>"Percent imperviousness"</u> means the impervious area created divided by the total area of the project site.
- AA. <u>"Point source"</u> means any discernible, confined and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or the floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

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BB. <u>"Qualified inspection personnel"</u> means a person knowledgeable in the principles and practice of erosion and sediment controls, who possesses the skills to assess all conditions at the construction site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the construction activity.

- CC. <u>"Rainwater and Land Development"</u> is a manual describing construction and post-construction best management practices and associated specifications. A copy of the manual may be obtained by contacting the Ohio Department of Natural Resources, Division of Soil & Water Conservation.
- DD. <u>"Riparian area"</u> means the transition area between flowing water and terrestrial (land) ecosystems composed of trees, shrubs and surrounding vegetation which serve to stabilize erodible soil, improve both surface and ground water quality, increase stream shading and enhance wildlife habitat.
- EE. <u>"Runoff coefficient"</u> means the fraction of total rainfall that will appear at the conveyance as runoff.
- FF. <u>"Sediment settling pond"</u> means a sediment trap, sediment basin or permanent basin that has been temporarily modified for sediment control, as described in the latest edition of the Rainwater and Land Development manual.
- GG. <u>"State isolated wetland permit requirements"</u> means the requirements set forth in Sections 6111.02 through 6111.029 of the ORC.
- HH. "Storm water" means storm water runoff, snow melt and surface runoff and drainage.
- II. <u>"Steep slopes"</u> means slopes that are 15 percent or greater in grade. Where a local government or industry technical manual has defined what is to be considered a "steep slope," this permit's definition automatically adopts that definition.
- JJ. <u>"Stream edge"</u> means the ordinary high water mark.
- KK. <u>"Subcontractor"</u> for the purposes of this permit, an individual or company that takes a portion of a contract from the general contractor or from another subcontractor.
- LL. <u>"Surface waters of the state" or "water bodies"</u> means all streams, lakes, reservoirs, ponds, marshes, wetlands or other waterways which are situated wholly or partially within the boundaries of the state, except those private waters which do not combine or effect a junction with natural surface or underground waters. Waters defined as sewerage systems, treatment works or disposal systems in Section 6111.01 of the ORC are not included.
- MM. "SWP3" means storm water pollution prevention plan.
- NN. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment

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facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

- OO. <u>"Temporary stabilization"</u> means the establishment of temporary vegetation, mulching, geotextiles, sod, preservation of existing vegetation and other techniques capable of quickly establishing cover over disturbed areas to provide erosion control between construction operations.
- PP. <u>"Water Quality Volume (WQ<sub>v</sub>)"</u> means the volume of storm water runoff which must be captured and treated prior to discharge from the developed site after construction is complete.

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## Appendix A Big Darby Creek Watershed

#### CONTENTS OF THIS APPENDIX

- A.1 Permit Area
- A.2 TMDL Conditions
- A.3 Sediment Settling Ponds and Sampling
- A.4 Riparian Setback Requirements
- A.5 Riparian Setback Mitigation
- A.6 Groundwater Recharge Requirements
- A.7 Groundwater Recharge mitigation

Attachment A-A: Big Darby Creek Watershed Map

Attachment A-B: Stream Assessment and Restoration

#### A.1 Permit Area.

This appendix to Permit OHC00005 applies to the entire Big Darby Creek Watershed located within the State of Ohio. Please see Attachment A for permit area boundaries.

#### A.2 TMDL Conditions.

This general permit requires control measures/BMPs for construction sites that reflect recommendations set forth in the U.S. EPA approved Big Darby Creek TMDL.

#### A.3 Sediment Settling Ponds and Sampling

Sediment settling ponds additional conditions. The sediment settling pond shall be sized to provide a minimum sediment storage volume of 134 cubic yards of effective sediment storage per acre of drainage and maintain a target discharge performance standard of 45 mg/l Total Suspended Solids (TSS) up to a 0.75-inch rainfall event within a 24-hour period. Unless infeasible, sediment settling ponds must be dewatered at the pond surface using a skimmer or equivalent device. The depth of the sediment settling pond must be less than or equal to five feet. Sediment must be removed from the sediment settling pond when the design capacity has been reduced by 40 percent (This is typically reached when sediment occupies one-half of the basin depth).

<u>Silt Fence and Diversions</u>. For sites five or more acres in size, the use of sediment barriers as a primary sediment control is prohibited. Centralized sediment basins shall be used for sites 5 or more acres in size. Diversions shall direct all storm water runoff from the disturbed areas to the impoundment intended for sediment control. The sediment basins and associated diversions shall be implemented prior to the major earth disturbing activity.

The permittee shall sample in accordance with sampling procedures outlined in 40 CFR 136. Sampling shall occur as follows:

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i. Occur at the outfall of each sediment settling pond associated with the site. Each associated outfall shall be identified by a three-digit number (001, 002, etc.);

ii. The applicable rainfall event for sampling to occur shall be a rainfall event of 0.25-inch to a 0.75-inch rainfall event to occur within a 24-hour period. Grab sampling shall be initiated at a site within 14 days, or the first applicable rainfall event thereafter, once upslope disturbance of each sampling location is initiated and shall continue on a quarterly basis. Quarterly periods shall be represented as January - March, April - June, July - September and October - December. Sampling results shall be retained on site and available for inspection.

If any sample is greater than the performance standard of 45 mg/l TSS, the permittee shall modify the SWP3 and install/implement new control practice(s) within 10 days to ensure the TSS performance standard is maintained. Within 3 days of improvement(s), or the first applicable rainfall event thereafter, the permittee shall resample to ensure SWP3 modifications maintain the TSS performance standard target.

For each sample taken, the permittee shall record the following information:

- the outfall and date of sampling;
- the person(s) who performed the sampling;
- the date the analyses were performed on those samples;
- the person(s) who performed the analyses;
- the analytical techniques or methods used; and
- the results of all analyses.

Both quarterly and sampling results following a discharge target exceedance shall be retained on site and available for inspection.

#### A.4 Riparian Setback Requirements.

The SWP3 shall clearly delineate the boundary of required stream setback distances. No construction activity shall occur, without appropriate mitigation, within the delineated setback boundary except activities associated with restoration or recovery of natural floodplain and channel form characteristics as described in Attachment B, storm water conveyances from permanent treatment practices and approvable utility crossings. Such conveyances must be designed to minimize the width of disturbance. If intrusion within the delineated setback boundary is necessary to accomplish the purposes of a project, then mitigation shall be required in accordance with Appendix A.5 of this permit. Streams requiring protection under this section are defined as perennial, intermittent or ephemeral streams with a defined bed, bank or channel. National Resources Conservation Service (NRCS) soil survey maps should be used as one reference and the presence of a stream requiring protection should also be confirmed in the field. Any required setback distances shall be clearly displayed in the field prior to any construction related activity.

Riparian setbacks distance shall be delineated based upon one of the following two methods:

i. The setback distance shall be sized as the greater of the following:

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- 1. The regulatory 100-year floodplain based on FEMA mapping;
- 2. A minimum of 100 feet from the top of the streambank on each side; or
- 3. A distance calculated using the following equation:

 $W = 133DA^{0.43}$ (Equation 1, Appendix A)

where:

DA = drainage area (mi<sup>2</sup>)

W = total width of riparian setback (ft)

W shall be centered over the meander pattern of the stream such that a line representing the setback width would evenly intersect equal elevation lines on either side of the stream.

If the DA remains relatively constant throughout the stretch of interest, then the DA of the downstream edge of the stretch should be used. Where there is a significant increase in the DA from the upstream edge to The downstream edge of the area of interest, the setback width shall increase accordingly.

ii. Stream Restoration with 100 feet (each side) Riparian Setback. Each stream segment within the proposed site boundaries can be assessed in accordance with Attachment B, Part 1. In the event the stream segment is classified as a "Previously Modified Low Gradient Headwater Stream", the permittee has the option to restore the stream segment in accordance with Attachment B and include a 100-foot water quality setback distance from the top of the streambank on each side. In the event the stream segment exceeds the minimum criteria in Attachment B to be classified as a "Previously Modified Low Gradient Headwater Stream," this Appendix A, Attachment B may be considered on a case-by-case basis.

No structural sediment controls (e.g., the installation of sediment barriers or a sediment settling pond) or structural post-construction controls shall be used in a surface water of the State or the delineated setback corridor.

Previously developed projects (as defined in Part III.G.2.e.) located within the delineated setback boundary are exempt from Riparian Setback Mitigation (A.5) provided the proposed project does not further intrude into the delineated setback boundary.

Linear transportation projects which are caused solely by correcting safety related issues, mandates of modern design requirements and/or resulting from other mitigation activities are exempt from Riparian Setback Mitigation (Appendix A, A.5) if less than one acre of total new right-of-way is associated with the project.

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#### A.5 Riparian Setback Mitigation.

The mitigation required for intrusion into the riparian setback shall be determined by the horizontal distance the intrusion is from the stream. Up to three zones will be used in determining the required mitigation. Zone 1 extends from 0 to 25 feet from the stream edge. Zone 2 extends from 25 to 100 feet from the stream edge, and Zone 3 extends from 100 feet to the outer edge of the setback corridor. Intrusion into these zones will require the following mitigation within the same Watershed Assessment Unit (12-digit HUC scale):

- i. Four times the total area disturbed in the stream and within Zone 1 of the site being developed shall be mitigated within Zone 1 of the mitigation location.
- ii. Three times the area disturbed within Zone 2 of the site being developed shall be mitigated within Zones 1 and/or 2 of the mitigation location.
- iii. Two times the area disturbed within Zone 3 of the site being developed shall be mitigated within any zone of the mitigation location.

In lieu of mitigation ratios found within in this section, linear transportation projects which result in total new right-of-way greater than one acre and less than two acres, which are caused solely by correcting safety related issues, mandates of modern design requirements and/or resulting from other mitigation activities, shall provide Riparian Setback Mitigation at a ratio of 1.5 to 1.

All mitigation shall, at a minimum, include conserved or restored setback zone and should be designed to maximize the ecological function of the mitigation. Including mitigation at the stream edge along with associated setback areas is one way to maximize ecological function. Mitigation shall be protected in perpetuity by binding conservation easements or environmental covenants which must be recorded within 6 months of receiving permit authorization. Granting of binding conservation easements or environmental covenants protected in perpetuity for land outside of disturbed area but within a required riparian setback counts towards required mitigation.

Mitigation may also be satisfied by approved pooled mitigation areas and in-lieu fee sponsored mitigation areas. Mitigation resulting from State or Federal environmental regulations may be adjusted in recognition of these requirements.

#### A.6 Groundwater Recharge Requirements.

The SWP3 shall ensure that the overall site post-development groundwater recharge equals or exceeds the pre-development groundwater recharge. The SWP3 shall describe the conservation development strategies, BMPs and other practices deemed necessary by the permittee to maintain or improve pre-development rates of groundwater recharge. Pre-development and post-development groundwater recharge shall be calculated using the following equation:

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i.  $Vre_x = A_x * Dre_x / 12$  (Equation 2, Appendix A)

where:

X = represents a land use and hydrologic soil group pair

Vre<sub>x</sub> = volume of total annual recharge from land use-soil group X

(in acre-ft)

Dre<sub>x</sub> = depth of total annual recharge associated with land use-soil

group X from Tables 1 or 2 (in inches)

 $A_x$  = area of land use-soil group X (in acres)

Table A-1 values should be used for land where the underlying geology indicates a potential for downward migration of groundwater. Table A-1 values represent the combined total groundwater recharge potential including groundwater contribution to stream baseflow and to the underlying bedrock aquifer. The potential for downward migration can be determined from a comparison of the potentiometric maps for the glacial and bedrock aquifers. Use Table A-2 when this potential is unlikely to exist. Detailed potentiometric maps for the Franklin county portion of the Darby watershed, and coarse potentiometric maps for the Darby watershed outside of Franklin County and hydrologic soil group data are available at:

http://www.epa.state.oh.us/dsw/permits/GP ConstructionSiteStormWater Darby.aspx.

Table A-1 (Appendix A) Annual Average Expected Total Groundwater Recharge<sup>3</sup>

	Density	% Impervious	Recharge (inches) by Hydrologic Soil Group2			
Land Use	(DU¹/acre)	// impervious	Α	В	С	D
Woods / Forest	-	-	17.0	16.6	15.6	14.6
Brush	-	-	17.0	16.6	15.6	14.6
Meadow	-	-	17.0	16.5	15.4	14.4
Managed Wood	-	-	16.9	16.0	14.7	13.4
Pasture	-	-	16.5	15.9	14.4	13.0
Row Crop	-	-	15.8	14.2	11.9	8.1
Urban Grasses	-	-	15.7	15.7	14.2	12.7
Low Density Residential	0.5	12%	15.7	15.7	14.2	12.7
Low Density Residential	1	20%	14.8	14.8	13.7	12.2
Medium Density Residential	2	25%	11.5	11.5	11.5	11.5
Medium Density Residential	3	30%	11.2	11.2	11.2	11.2
Medium Density Residential	4	38%	9.6	9.6	9.6	9.6
High Density Residential	≥5	65%	7.3	7.3	7.3	7.3
Commercial & Road Right-of-Way <sup>4</sup>	-	90%	4.3	4.3	4.3	4.3

<sup>&</sup>lt;sup>1</sup> DU = Dwelling Units

<sup>&</sup>lt;sup>2</sup> Hydrologic soil group designations of A/D, B/D, and C/D should be considered as D soils for this application.

<sup>&</sup>lt;sup>3</sup> These values apply when recharge of the aquifer is expected; recharge to the bedrock aquifer can be expected when the potentiometric head of the glacial aquifer is greater than the bedrock aquifer.

<sup>&</sup>lt;sup>4</sup> The 4.3 infiltration value may only be used for an area as a whole (includes impervious and pervious areas) which includes a minimum of 10 percent pervious area. If all land uses (pervious and impervious) are tabulated separately, then impervious areas have 0 inches of recharge.

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Table A-2 (Appendix A) Annual Average Expected Baseflow Recharge<sup>3</sup>

Landilla	Density	% Impervious	Recharge (inches) by Hydrologic Soil Group2			
Land Use	(DU¹/acre)	70 IIIIpoi viodo	Α	В	С	D
Woods / Forest	-	-	11.8	11.4	10.7	9.9
Brush	-	-	11.7	11.4	10.7	99
Meadow	-	-	11.8	11.3	10.6	9.8
Managed Wood	-	-	11.7	11.0	10.0	9.1
Pasture	-	-	11.3	11.0	9.9	8.9
Row Crop	-	-	11.1	10.1	9.0	6.2
Urban Grasses	-	-	11.2	11.2	10.3	9.3
Low Density Residential	0.5	12%	11.2	11.2	10.3	9.3
Low Density Residential	1	20%	9.5	9.5	9.0	8.6
Medium Density Residential	2	25%	7.8	7.8	7.8	7.8
Medium Density Residential	3	30%	7.6	7.6	7.6	7.6
Medium Density Residential	4	38%	6.5	6.5	6.5	6.5
High Density Residential	≥5	65%	5.0	5.0	5.0	5.0
Commercial & Road Right-of-Way <sup>4</sup>	-	90%	2.9	2.9	2.9	2.9

<sup>&</sup>lt;sup>1</sup> DU = Dwelling Units

Table A-3 (Appendix A) Land Use Definitions

Land Use	Definition
Woods / Forest	Areas dominated by trees. Woods are protected from grazing and litter and brush adequately cover the soil.
Brush	Brush, weeds, grass mixture where brush is the major element and more than 75% of the ground is covered.
Meadow	Continuous grass, protected from grazing, generally mowed for hay.
Managed Wood	Orchards, tree farms, and other areas planted or maintained for the production of fruits, nuts, berries, or ornamentals.
Pasture	Pasture, grassland, or range where at least 50% of the ground is covered and the area is not heavily grazed.
Row Crop	Areas used to produce crops, such as corn, soybeans, vegetables, tobacco, and cotton.
Urban Grasses	Vegetation (primarily grasses) planted in developed settings for recreation, erosion control, or aesthetic purposes. Examples include parks, lawns, golf courses, airport grasses, and industrial site grasses.
Residential	Areas with a mixture of constructed materials and vegetation; the average % imperviousness and number of dwelling units per acre to determine the appropriate density is specified.
Commercial	Includes infrastructure (e.g. roads, railroads, etc.) and all highly developed areas not classified as High Intensity Residential.

ii. The pre-development ground water recharge volume shall be calculated by determining the area of each land use-soil type pairing on the site of interest. The recharge associated with each such pairing multiplied by the area will give the pre-development volume of total groundwater

<sup>&</sup>lt;sup>2</sup> Hydrologic soil group designations of A/D, B/D, and C/D should be considered as D soils for this application.

<sup>&</sup>lt;sup>3</sup> These values apply when no recharge of the aquifer is expected.

<sup>&</sup>lt;sup>4</sup> The 2.9 infiltration value may only be used for an area as a whole (includes impervious and pervious areas) which includes a minimum of 10 percent pervious area. If all land uses (pervious and impervious) are tabulated separately, then impervious areas have 0 inches of recharge.

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recharge. The same shall be done for the post-development land use-soil type pairings.

Any activity that is expected to produce storm water runoff with elevated concentrations of carcinogens, hydrocarbons, metals, or toxics is prohibited from infiltrating untreated storm water from the area affected by the activity. The groundwater recharge mitigation requirement for areas affected by such activities must be met by methods which do not present a risk of groundwater contamination. The following land uses and activities are typically deemed storm water hotspots:

Vehicle salvage yards and recycling facilities

- vehicle service and maintenance facilities (i.e. truck stops, gas stations)
- fleet storage areas (i.e. bus, truck)
- industrial sites subject to industrial storm water permitting requirements
- bulk terminals
- marinas
- facilities that generate or store hazardous materials
- other land uses and activities as designated by individual review

The following land uses and activities are not normally considered hotspots:

- residential streets and rural highways
- residential development
- institutional development
- commercial and office developments
- non-industrial rooftops
- pervious areas, except golf courses and nurseries

The applicant may use structural BMPs within drinking water source protection areas for community public water systems only to the extent that the structural BMP(s) does not cause contaminants in the recharge waters to impact the ground water quality at levels that would cause an exceedance of the drinking water Maximum Contaminant Levels (OAC Section 3745-81 and 3745-82). To obtain a map of drinking water source protection areas for community public water systems contact Ohio EPA's Division of Drinking and Ground Waters at (614) 644-2752.

Linear transportation projects which are caused solely by correcting safety related issues, mandates of modern design requirements and/or resulting from other mitigation activities are exempt from Groundwater Recharge Mitigation (Appendix B, A.7) if less than one acre of total new right-of-way is associated with the project.

Protection of open space (infiltration areas) shall be by binding conservation easements that identify a third-party management agency, such as a homeowners' association/condominium association, political jurisdiction or third-party land trust.

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#### A.7 Groundwater Recharge Mitigation.

If the post-development recharge volume is less than the pre-development recharge volume, then mitigation will be required. Two options are available for most applications:

i. The preferred method is to convert additional land to land use with higher recharge potential. The difference in groundwater recharge between the existing and converted land use recharge is the amount which can be used as recharge credit. Off-site Groundwater Recharge Mitigation shall occur within the same Watershed Assessment Unit (12-digit HUC scale) as the permitted site and preferably up-gradient and within a 2-mile radius.

Mitigation shall be protected in perpetuity by binding conservation easements or environmental covenants which must be recorded within 6 months of receiving permit authorization. Granting of binding conservation easements or environmental covenants protected in perpetuity for land outside of the disturbed area, but within a required riparian setback counts towards required mitigation.

Mitigation may also be satisfied by approved pooled mitigation areas and in-lieu fee sponsored mitigation areas.

ii. On-site structural and non-structural practices may also be used to achieve groundwater mitigation requirements by retaining and infiltrating on-site a minimum volume of storm water runoff based on the area and hydrologic soil groups of disturbed soils. If these infiltrating practices are incorporated upstream of the water quality volume treatment practice, the volume of groundwater being infiltrated may be subtracted from the water quality volume for the purpose of meeting post-construction requirements. The on-site retention requirement is determined by the following formula:

$$V_{\text{retention}} = A_{\text{HSG-A}} * 0.90 \text{ in} + A_{\text{HSG-B}} * 0.75 \text{ in} + A_{\text{HSG-C}} * 0.50 \text{ in} + A_{\text{HSG-D}} * 0.25 \text{ in}$$
 (Equation 3, Appendix A)

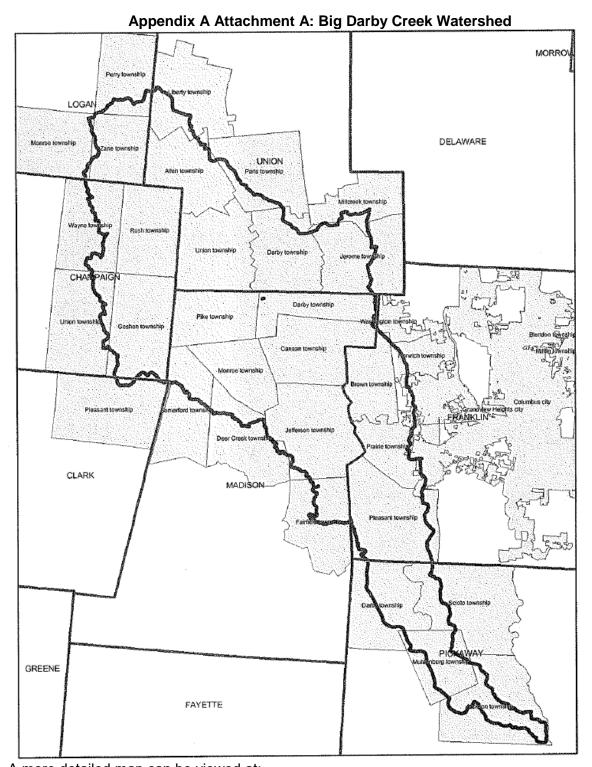
#### Where.

 $V_{\text{retention}}$  = volume of runoff retained onsite using an approved infiltration practice  $A_{\text{HSG-x}}$  = area of each hydrologic soil group within the disturbed area

Table A-4: Hydrologic Soil Groups and On-site Retention Depth per Acre

Hydrologic Soil Group	HSG A	HSG B	HSG C	HSG D
Retention Depth (inches)	0.90	0.75	0.50	0.25

Retention volume (V<sub>retention</sub>) provided by selected practices shall be determined using the runoff reduction method criteria as outlined in Part III.G.2.e, Ohio EPA's Runoff Reduction spreadsheet and supporting documentation in the Rainwater and Land Development manual. Hydrologic soil group (HSG) areas are to be determined by using the current version of SURRGO or Web Soil Survey soils information.



A more detailed map can be viewed at: <a href="http://www.epa.state.oh.us/dsw/permits/GP">http://www.epa.state.oh.us/dsw/permits/GP</a> ConstructionSiteStormWater Darby.aspx

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#### **Appendix A Attachment B**

#### Part 1 Stream Assessment

This assessment will determine if a stream is considered a previously channelized, low-gradient headwater stream (a drainage ditch) which would be applicable for stream restoration in lieu of protecting a setback as per Appendix A. A.4.i and ii.

In the event the assessment of the stream, meets all the criteria listed below, restoration (provided 401/404 permits are authorized) as depicted in Part 2 of this attachment, may be a means of reducing the setback distance required by A.4.i. (Appendix A).

Previously Channelized Low-Gradient Headwater Streams (drainage ditches) shall for the purposes of this permit be defined as having all of the following characteristics:

- Less than 10 square miles of drainage area
- Low gradient and low stream power such that despite their straightened and entrenched condition incision (down-cutting) is not evident
- Entrenched, entrenchment ratio < 2.2
- Straight, sinuosity of the bankfull channel < 1.02

#### Part 2 Restoration

Restoration shall be accomplished by any natural channel design approach that will lead to a self-maintaining reach able to provide both local habitat and watershed services (e.g. self-purification and valley floodwater storage).

- a. Construction of a floodplain, channel and habitat via natural channel design;
- b. Floodplain excavation necessary to promote interaction between stream and floodplain;
- c. Include a water quality setback of 100 feet from top of the streambank on each side.

The primary target regardless of design approach shall be the frequently flooded width, which shall be maximized, at 10 times the channel's self-forming width. Five times the self-forming channel width may still be acceptable particularly on portions of the site if greater widths are achieved elsewhere.

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Appendix B
Olentangy River Watershed

#### **CONTENTS OF THIS APPENDIX**

- B.1 Permit Area
- B.2 TMDL Conditions
- B.3 Riparian Setback Requirements
- B.4 Riparian Setback Mitigation

Attachment B-A: Area of Applicability for the Olentangy Watershed (Map)

Attachment B-B: Stream Assessment and Restoration

#### B.1 Permit Area.

This appendix to Permit OHC00005 applies to specific portions of the Olentangy River Watershed located within the State of Ohio. The permit area includes the following 12-digit Hydrologic Unit Codes (HUC-12) within the Olentangy River Watershed:

#### 12-Digit Hydrologic Unit Codes

12-Digit Hydrologic Unit Codes (HUC)	Narrative Description of Sub-Watershed
05060001 09 01	Shaw Creek
05060001 09 02	Headwaters Whetstone Creek
05060001 09 03	Claypool Run-Whetstone Creek
05060001 10 07	Delaware Run-Olentangy River
05060001 11 01	Deep Run-Olentangy River
05060001 11 02 (Only portion as depicted in	Rush Run-Olentangy River
Attachment A)	

Please see Attachment A (Appendix B) for permit area boundaries. An electronic version of Attachment A can be viewed at

http://epa.ohio.gov/dsw/permits/GP\_ConstructionSiteStormWater\_Olentangy.aspx

#### **B.2** TMDL Conditions.

This general permit requires control measures/BMPs for construction sites that reflect recommendations set forth in the U.S. EPA approved Olentangy TMDL.

#### **B.3** Riparian Setback Requirements.

The permittee shall comply with the riparian setback requirements of this permit or alternative riparian setback requirements established by a regulated MS4 and approved by Ohio EPA. The SWP3 shall clearly delineate the boundary of required stream setback distances. The stream setback shall consist of a streamside buffer and an outer buffer. No construction activity shall occur, without appropriate mitigation, within the streamside buffer except activities associated with storm water conveyances from permanent treatment practices, approvable utility crossings and restoration or recovery of floodplain and channel form characteristics as described in Attachment B. Storm water conveyances must be designed to minimize the width of disturbance.

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Construction activities requiring mitigation for intrusions within the outer buffer for the Olentangy River mainstem and perennial streams are described in Appendix B.4.

If intrusion within the delineated setback boundary is necessary to accomplish the purposes of a project, then mitigation shall be required in accordance with Appendix B.3. of this permit. Streams requiring protection under this section have a defined bed and bank or channel and are defined as follows:

- The Olentangy River mainstem;
- Perennial streams have continuous flow on either the surface of the stream bed or under the surface of the stream bed:
- Intermittent streams flow for extended periods of time seasonally of a typical climate year; and
- Ephemeral streams are normally dry and only flow during and after precipitation runoff (episodic flow).

National Resources Conservation Service (NRCS) soil survey maps should be used as one reference and the presence of a stream requiring protection should also be confirmed in the field. Any required setback distances shall be clearly displayed in the field prior to any construction related activity.

Riparian setbacks shall be delineated based upon one of the following two methods:

- i. The required setback distances shall vary with stream type as follows:
  - a. The setback distances associated with the mainstem of the Olentangy River shall consist of:
  - (1) A streamside buffer width of 100 feet as measured horizontally from the ordinary high water mark per side; and
  - (2) An outer buffer width sized to the regulatory 100-year floodplain based on FEMA mapping. No impervious surfaces shall be constructed without appropriate mitigation and moderate to substantial fill activities with no impervious surface may require appropriate mitigation pending an individual approval by Ohio EPA.
  - b. The setback distance associated with perennial streams, other than the Olentangy mainstem, shall consist of:
  - (1) A streamside buffer width of 80 feet per side measured horizontally from the ordinary high water mark; and
  - (2) An outer buffer width sized to the regulatory 100-year floodplain based on FEMA mapping. In the event the regulatory 100-year floodplain is not established, the outer buffer width shall be calculated using the following equation and measured horizontally from the ordinary high water mark. No impervious surfaces, structure, fill, or activity that would impair the floodplain or stream stabilizing ability of the outer buffer shall occur without appropriate mitigation:

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 $W = 143DA^{0.41}$ 

(Equation 1 Appendix B)

where:

DA = drainage area (mi<sup>2</sup>)
W = total width of riparian setback (ft)

W shall be centered over the meander pattern of the stream such that a line representing the setback width would evenly intersect equal elevation lines on either side of the stream.

If the DA remains relatively constant throughout the stretch of interest, then the DA of the downstream edge of the stretch should be used. Where there is a significant increase in the DA from the upstream edge to the downstream edge of the area of interest, the setback width shall increase accordingly.

- c. The setback distance associated with intermittent streams and ephemeral streams shall be a streamside buffer width of 30 feet per side measured horizontally from the centerline of the stream. No outer buffer is required for intermittent and ephemeral streams.
- ii. Stream Restoration with 100 feet (each side) Riparian Setback. Each stream segment within the proposed site boundaries can be assessed in accordance with Attachment B. In the event the stream segment is classified as a "Previously Modified Low Gradient Headwater Stream", the permittee has the option to restore the stream segment in accordance with Attachment B and include a 100 feet water quality setback distance from the top of the streambank on each side. In the event the stream segment exceeds the minimum criteria in Attachment B to be classified as a "Previously Modified Low Gradient Headwater Stream", this may be considered on a case-by-case basis.

No structural sediment controls (e.g., the installation of sediment barriers or a sediment settling pond) or structural post-construction controls shall be used in a stream or the streamside buffer. Activities and controls that would not impair the floodplain or stream stabilizing ability of the outer buffer can be considered.

Redevelopment projects (i.e., developments on previously developed property) located within the delineated setback boundary is exempt from Riparian Setback Mitigation (B.3) provided the proposed project does not further intrude the delineated setback boundary.

#### B.4 Riparian Setback Mitigation.

The mitigation required for intrusion into the riparian setback of the **Olentangy River mainstem or perennial streams** shall be determined by the horizontal distance the intrusion is from the stream. Up to three zones will be used in determining the required mitigation. Zone 1 extends from 0 to 30 feet from the stream edge. Zone 2 extends

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from 30 feet to the outer edge of the streamside buffer. Zone 3 extends from the outer edge of the streamside buffer to the outer edge of the outer buffer. Intrusion into these zones will require the following mitigation within the same Watershed Assessment Unit (12-digit HUC scale). Alternative mitigation, within the permit area, may be considered on a case-by-case basis:

- Four (4) times the total area disturbed in the stream within Zone 1 of the site being developed shall be mitigated; or, two (2) times the total area disturbed in the stream within Zone 1 shall be mitigated within the watershed of the immediate receiving stream, and the entire required setback of the site shall be protected by binding conservation easements or environmental covenants.
- 2. Three (3) times the area disturbed within Zone 2 of the site being developed shall be mitigated within Zones 1 and/or 2 of the mitigation location; or, one and one-half (1.5) times the total area disturbed within Zone 2 shall be mitigated within the watershed of the immediate receiving stream, and the entire required setback of the site shall be protected in perpetuity by binding conservation easements or environmental covenants.
- 3. Two (2) times the area to be mitigated within Zone 3 of the site being developed shall be mitigated within any Zone of the mitigation location; or, one (1) times the total area to be mitigated within any zone shall be mitigated within the watershed of the immediate receiving stream, and the entire required setback of the site shall be protected in perpetuity by binding conservation easements or environmental covenants.

The mitigation required for intrusion into the riparian setback of an **intermittent stream** shall be four (4) times the total area disturbed within the riparian setback of the site being developed shall be mitigated; or two (2) times the total area disturbed within the riparian setback shall be mitigated within the watershed of the immediate receiving stream, and the entire required setback of the site shall be protected in perpetuity by binding conservation easements or environmental covenants.

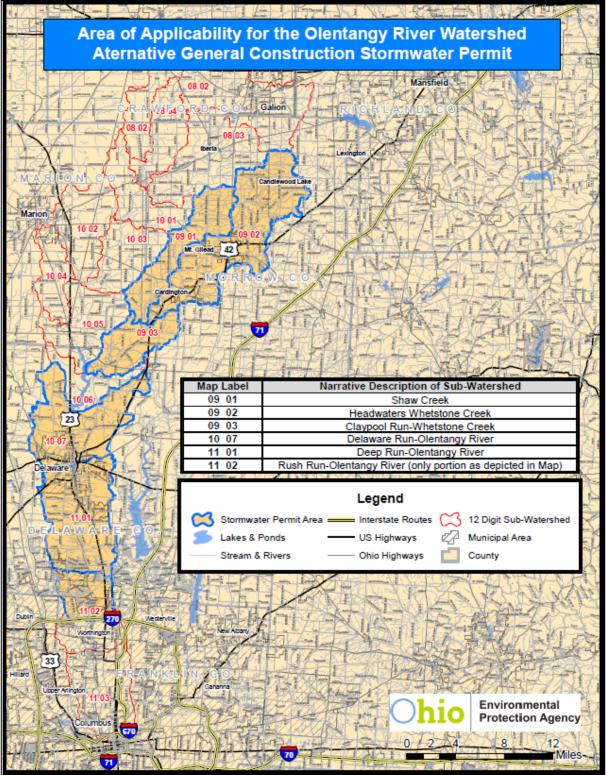
The mitigation required for intrusion into the streamside buffer of an **ephemeral stream** shall be two (2) times the total area disturbed within the riparian setback of the site being developed shall be mitigated; or one (1) times the total area disturbed within the riparian setback shall be mitigated within the watershed of the immediate receiving stream, and the entire required setback of the site shall be protected in perpetuity by binding conservation easements or environmental covenants.

All mitigation shall, at a minimum, include conserved or restored setback zone, and should be designed to maximize the ecological function of the mitigation. Including mitigation at the stream edge along with associated setback areas is one way to maximize ecological function. Mitigation shall be protected in perpetuity by binding conservation easements or environmental covenants which must be recorded within 6 months of permit authorization. Granting of binding conservation easements or environmental covenants protected for land outside of disturbed area, but within a required riparian setback counts towards required mitigation.

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Mitigation may also be satisfied by approved pooled mitigation areas and in-lieu fee sponsored mitigation areas. Mitigation resulting from State or Federal environmental regulations may be adjusted in recognition of these requirements.

Appendix B Attachment A Applicable Portions of the Olentangy Watershed



A more detailed map can be viewed at:

http://epa.ohio.gov/dsw/permits/GP\_ConstructionSiteStormWater\_Olentangy.aspx

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#### **Appendix B Attachment B**

#### Part 1 Stream Assessment

This assessment will determine if a stream is considered a previously channelized, low-gradient headwater stream (a drainage ditch) which would be applicable for stream restoration in lieu of protecting an outer 'no build' setback as per Appendix B B.2i. and ii.

In the event the assessment of the stream meets all the criteria listed below, restoration as depicted in Part 2 of this attachment or natural channel design could be performed, provided 401/404 permits are authorized, and may be a means of reducing the setback distance required by B.2.i. (Appendix B).

Previously Modified, Low-Gradient Headwater Streams shall, for the purposes of this permit, be defined as having all of the following characteristics:

- Less than 10 square miles of drainage area;
- Low gradient and low stream power such that incision (down-cutting) is not evident;
- Entrenched such that the ratio of the frequently flooded width to the bankfull width is less than 2.2; and
- Straight with little or no sinuosity present such that the ratio of the bankfull channel length to the straight-line distance between two points is less than 1.02.

#### **Part 2 Restoration**

Restoration shall be accomplished by any natural channel design approach that will lead to a self-maintaining reach able to provide both local habitat and watershed services (e.g. self-purification and valley floodwater storage).

- a. Construction of a floodplain, channel and habitat via natural channel design;
- b. Floodplain excavation necessary to promote interaction between stream and floodplain;
- c. Include a water quality setback of 100 feet from top of the streambank on each side.

The primary target shall be a frequently flooded width of 10 times the channel's self-forming width. Five times the self-forming channel width may be acceptable if sufficient elements of natural channel design are included in the restoration project.

### Appendix C Rainfall Intensity for Calculation of Water Quality Flow (WQF)

DURATION t <sub>c</sub> (minutes)	WATER QUALITY INTENSITY [iwq] (inches/hour)	DURATION t <sub>c</sub> (minutes)	WATER QUALITY INTENSITY [iwq] (inches/hour)
5	2.37	33	0.95
6	2.26	34	0.93
7	2.15	35	0.92
8	2.04	36	0.90
9	1.94	37	0.88
10	1.85	38	0.86
11	1.76	39	0.85
12	1.68	40	0.83
13	1.62	41	0.82
14	1.56	42	0.80
15	1.51	43	0.78
16	1.46	44	0.77
17	1.41	45	0.76
18	1.37	46	0.75
19	1.33	47	0.74
20	1.29	48	0.73
21	1.26	49	0.72
22	1.22	50	0.71
23	1.19	51	0.69
24	1.16	52	0.68
25	1.13	53	0.67
26	1.10	54	0.66
27	1.07	55	0.66
28	1.05	56	0.65
29	1.03	57	0.64
30	1.01	58	0.64
31	0.99	59	0.63
32	0.97	60	0.62

Note: For  $t_c$  < 5 minutes, use i = 2.37 in/hr; for  $t_c$  > 60 minutes, use i = 0.62 in/hr. For all other  $t_c$ , use the appropriate value from this table.

# Appendix B Construction Notice of Intent



Mike DeWine, Governor Jon Husted, Lt. Governor Laurie A. Stevenson, Director

Oct 25, 2019

American Transmission Systems, Inc. (FirstEnergy) Amanda Habershaw 76 South Main Street Akron, OH 44308

Re: Approval Under Ohio EPA National Pollutant Discharge Elimination System (NPDES) - Construction Site Stormwater General Permit - OHC000005

Dear Applicant,

**Permit Effective Date:** 

Your NPDES Notice of Intent (NOI) application is approved for the following facility/site. Please use your Ohio EPA Facility Permit Number in all future correspondence.

Facility Name: Woodville Substation

Facility Location: 6801 OH-582
City: Woodville
County: Sandusky
Township: Woodville
Ohio EPA Facility Permit Number: 2GC05844\*AG

potentially subjects you to enforcement and civil penalties.

Oct 25, 2019

this permit will remain in effect until a renewal of the permit is issued by the Ohio EPA.

If more than one operator (defined in the permit) will be engaged at the site, each operator shall seek coverage under the general permit. Additional operator(s) shall submit a Co-Permittee NOI to be covered under this permit. There is no fee associated with the Co-Permittee NOI

Please read and review the permit carefully. The permit contains requirements and prohibitions with which you must comply. Coverage under

Please be aware that this letter only authorizes discharges in accordance with the above referenced NPDES CGP. The placement to fill into regulated waters of the state may require a 401 Water Quality Certification and/or Isolated Wetlands Permit from Ohio EPA. Also, a Permit-To-Install (PTI) is required for the construction of sanitary or industrial wastewater collection, conveyance, storage, treatment, or disposal facility; unless a specific exemption by rule exists. Failure to obtain the required permits in advance is a violation of Ohio Revised Code 6111 and

To view your electronic submissions and permits please Logon in to the Ohio EPA's eBusiness Center at http://ebiz.epa.ohio.gov.

If you need assistance or have questions please call (614) 644-2001 and ask for Construction Site Stormwater General Permit support or visit our website at http://www.epa.ohio.gov.

Sincerely, Laurie a Sevenson

form.

Laurie A. Stevenson

Director



### Division of Surface Water - Notice of Intent (NOI) For Coverage Under Ohio Environmental Protection Agency General NPDES Permit

(Read accompanying instructions carefully before completing this form.)

Submission of this NOI constitutes notice that the party identified in Section I of this form intends to be authorized to discharge into state surface waters under Ohio EPA's NPDES general permit program. Becoming a permittee obligates a discharger to comply with the terms and conditions of the permit. Complete all required information as indicated by the instructions. Do not use correction fluid on this form. Forms transmitted by fax will not be accepted. A check for the proper amount must accompany this form and be made payable to "Treasurer. State of Ohio." (See the fee table in Attachment C of the NOI instructions for the appropriate processing fee.)

torm and be made pa	ayable to "Treasurer, S	State of Ohio."	(See the fee table	ın Attachm	ent C of the NOI i	instructions i	or the appropi	rate processing fee.)	
I. Applicant Info	ormation/Mailing	g Address							
Company (App	licant) Name: An	merican Trans	smission Syster	ns, Inc. (F	irstEnergy)				
Mailing (Applic	ant) Address: 76	South Main	Street	ı					
City: Akron	City: Akron State:		State : 0	)H		Zip	Code: 44308		
Country: USA									
Contact Person	ı: Amanda Habersl	haw		Phone:	(724) 830-5971		Fax	:	
Contact E-mail	Address: ahaber	rs@firstenerg	jycorp.com						
II. Facility/Site I	Location Inform	ation							
Facility/Site Na	me: Woodville Sub	ostation							
Facility Addres	<b>s:</b> 6801 OH-582								
City: Woodville			State: OH				Zip Code:	43469	
County: Sandus	sky					Townsh	i <b>p:</b> Woodvi	le	
Facility Contact Habershaw	t Person: Amand	a	Phone: (724)	830-5971			Fax:		
Facility Contact	t E-mail Addres	s: ahabers@	firstenergycorp	.com					
<b>Latitude:</b> 41.4490	15		Longitude: -83.384558				Facility/Map Attachment Woodville_LettPortrait_SWPPP_aerial.pdf		P_aerial.pdf
Receiving Stream	or MS4: Portage	River							
III. General Peri									
General Permit I	Number: OHC0000	005			Initial Covera	age: Y R	enewal Cov	erage: N	
Type of Activity:	Construction Site	Stormwater	General Permit		SIC Code(s):	!			
Existing NPDES	Facility Permit No	umber:			ODNR Coal I	Mining Ap	plication Nu	mber:	
If Household Se	wage Treatment S	System, is sy	stem for:		New Home Construction:		on:	Replacement of failed existing system:	
Outfall	Design Flow (MGD):	Associated	l Permit Effluer	nt Table:	Receiving Wa	iter :		Latitude	Longitude
Are These Perm	its Required?	PTI: NO			Individual 40	01 Water Q	uality Certif	ication: NO	
Individual NPDE		Isolated V	Vetland: NO		U.S. Army Corp Nationwide Permit: NO				
Proposed Project	ct Start Date(if app	plicable): De	cember 09, 201	9	Estimated Completion Date(if applicable): March 31, 2021				2021
Total Land Distu	ırbance (Acres): 5	5.4			MS4 Drainage Area (Sq. Miles):				
SWP3 Attachme	ent(s): <none></none>								
IV. Payment Inf	ormation								
Check #:						For	Ohio EPA Us	e Only	
Check Amount:		Check ID(OFA):			ORG #:				
Date of Check:				Rev ID:			DOC #	=	
qualified personnel p	y of law that this docu properly gather and evering the information, the solution of the information of the submitting false information.	raluate the infoi the information	rmation submitted submitted is, to th	. Based on i ne best of m	my inquiry of the p y knowledge and	person or pe belief, true,	rsons who ma accurate and o	nage the system, or th	hose persons directly

Applicant Name: Benjamin Becker

Title: Environmental Compliance Specialist

Signature:	Date:
Electronically submitted by BeckerB	Electronically submitted on 10/16/2019

# Appendix C Notice of Termination

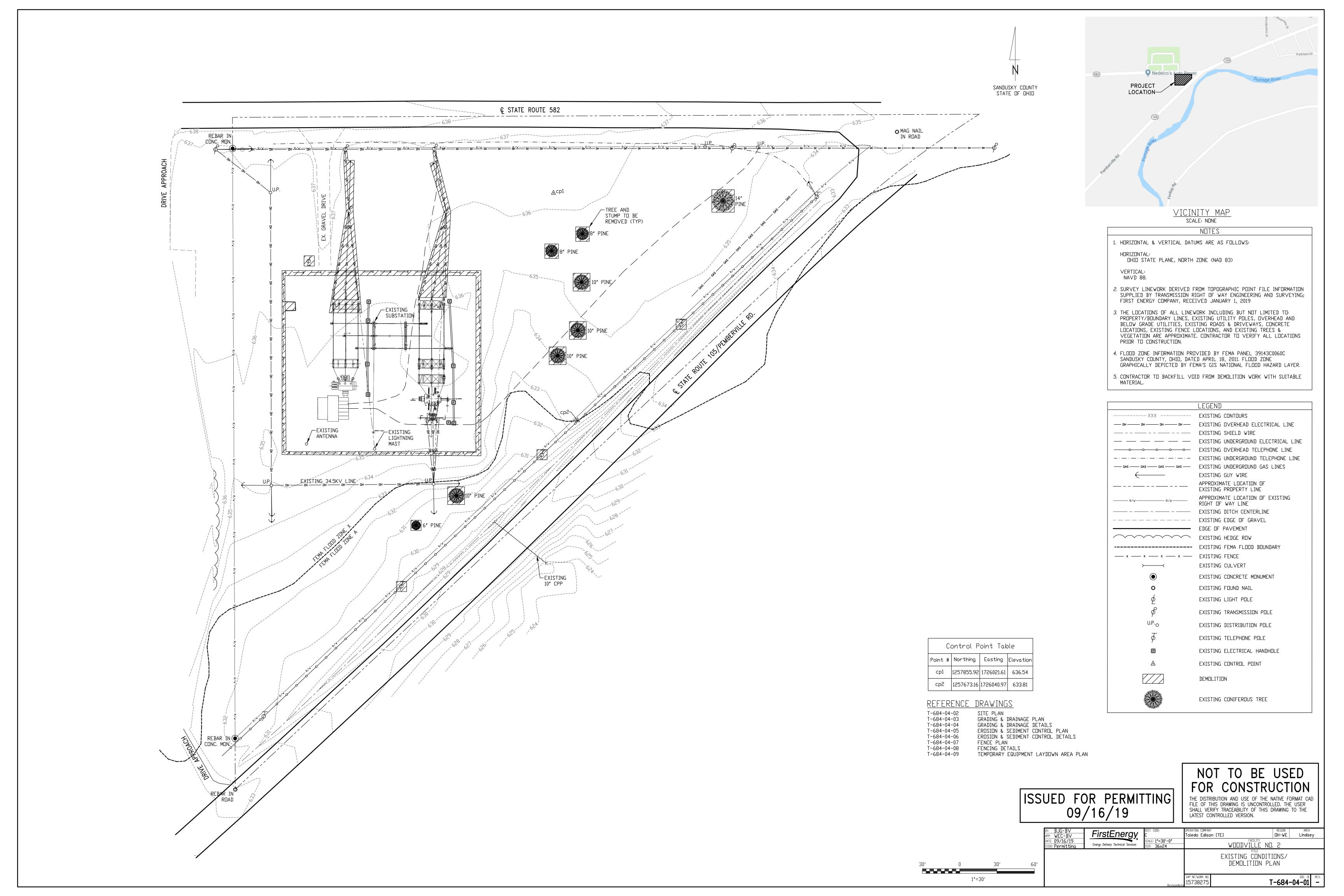
# Appendix D Record of Plan Amendment

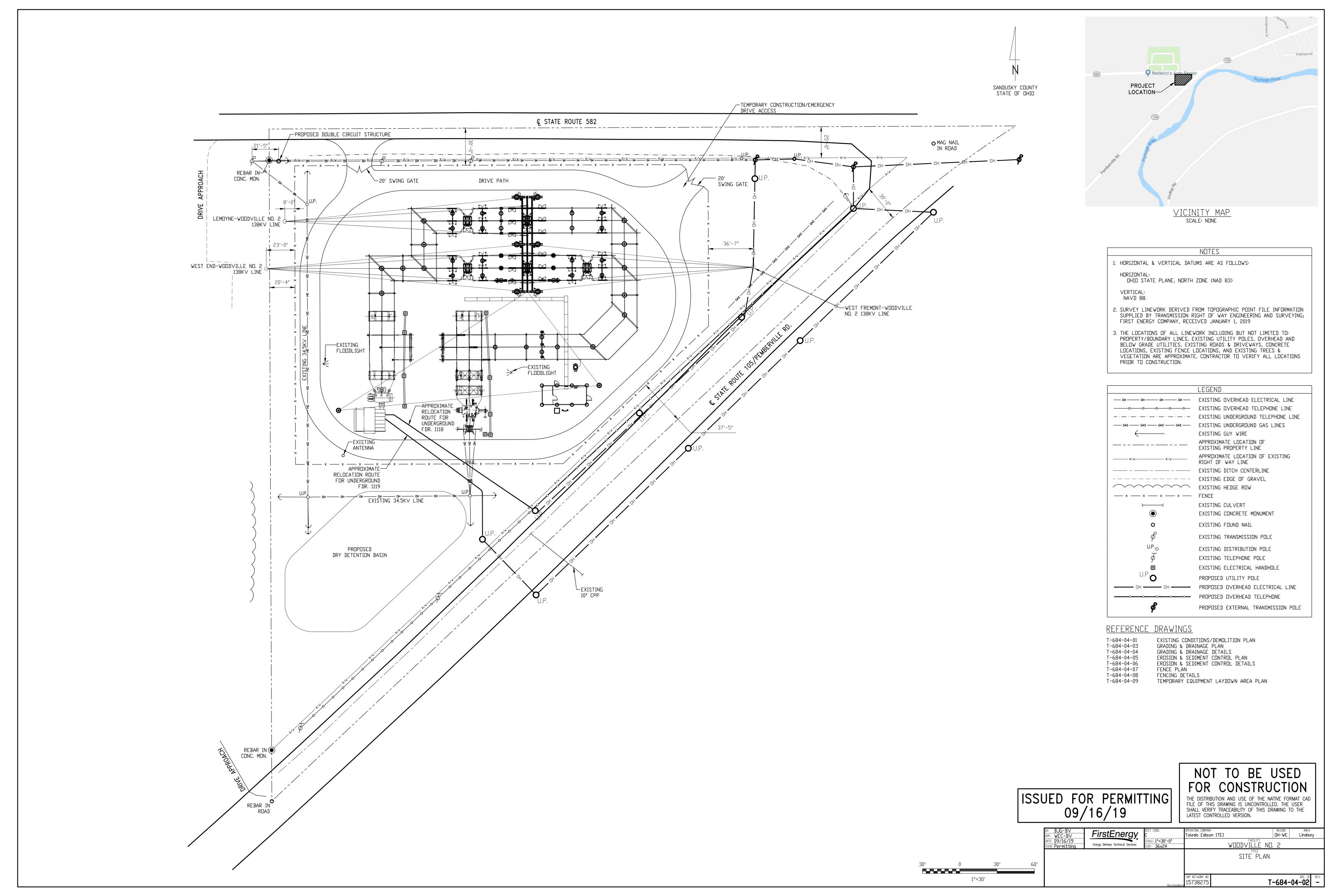
#### **Record of Plan Amendment**

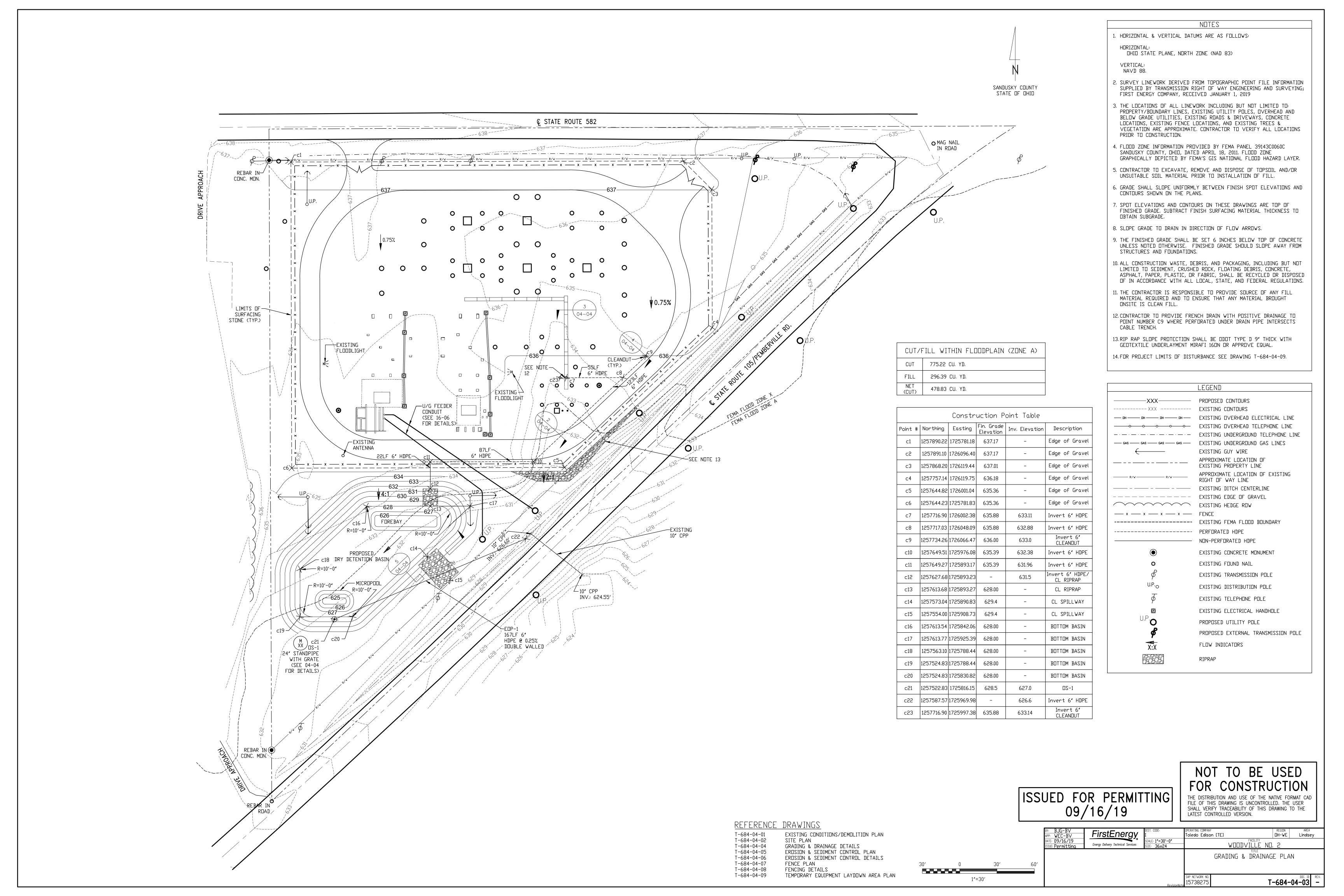
The Storm Water Pollution Prevention Plan (Plan) shall be revised whenever there is a change in design, construction, operation, or maintenance of Best Management Practices (BMPs); there is a change in the design of the construction project which could significantly affect the quality of the storm water discharges; inspections indicate deficiencies in the Plan or any BMP; Ohio Department of Environmental Quality (OEPA) notifies the construction Contractor of deficiencies in the Plan; the Plan is determined to be ineffective in significantly minimizing or controlling erosion and sedimentation (e.g., there is evidence such as excessive site erosion or excessive sediment deposits in steams or lakes); or the OEPA determines violations of Surface Water Quality Standards may occur or have occurred.

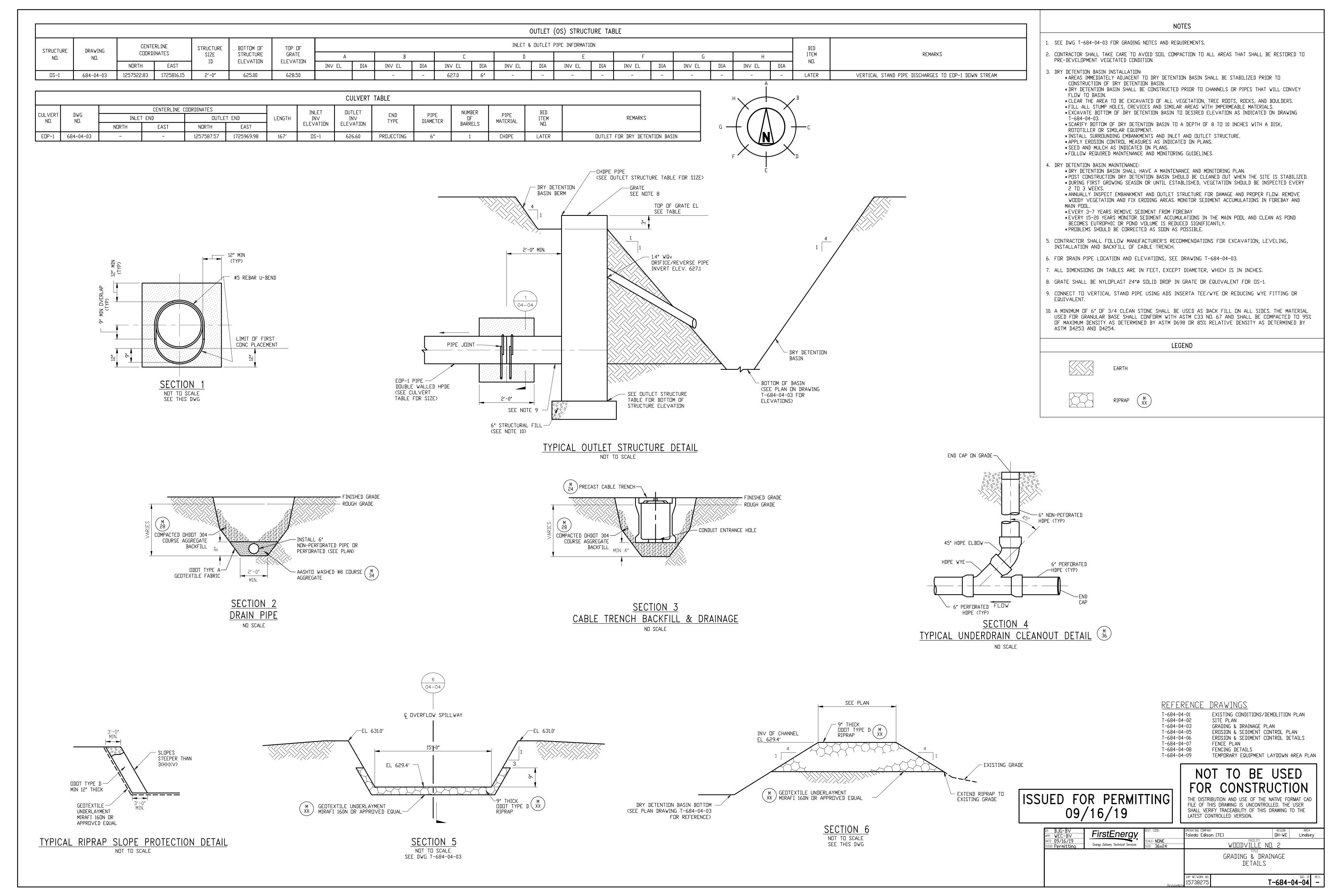
Plan Revision Date
Reason for Revision
Certifying Statement:  I hereby certify that I have examined the above Plan Amendment and that the design exhibits Best Management Practices (BMPs) in order to reduce the amount of sediment and other pollutants in storm water discharges associated with the construction activities.
Printed Name of Project Owner or Authorized Representative
Signature of Project Owner or Authorized Representative

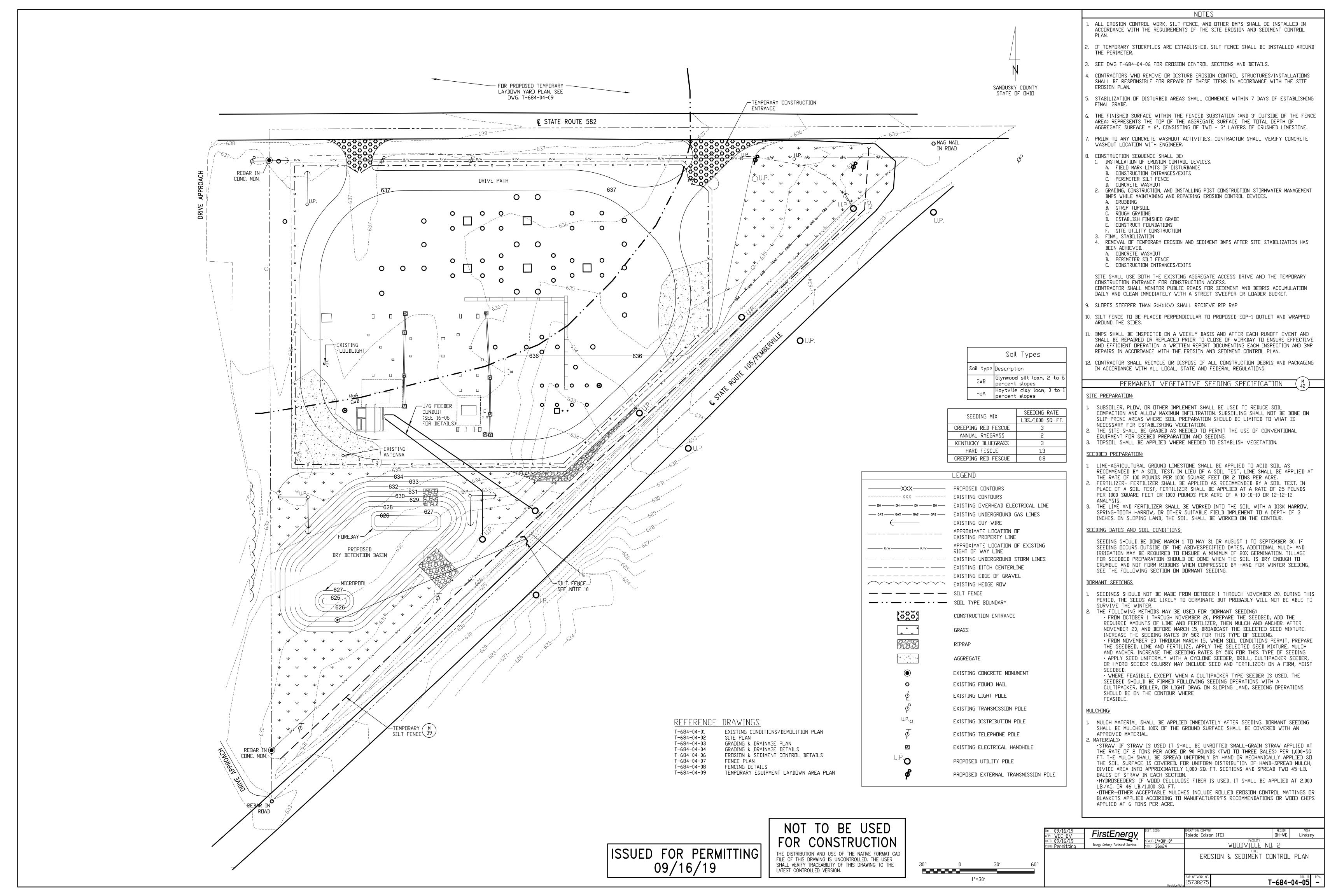
### Appendix E Drawings

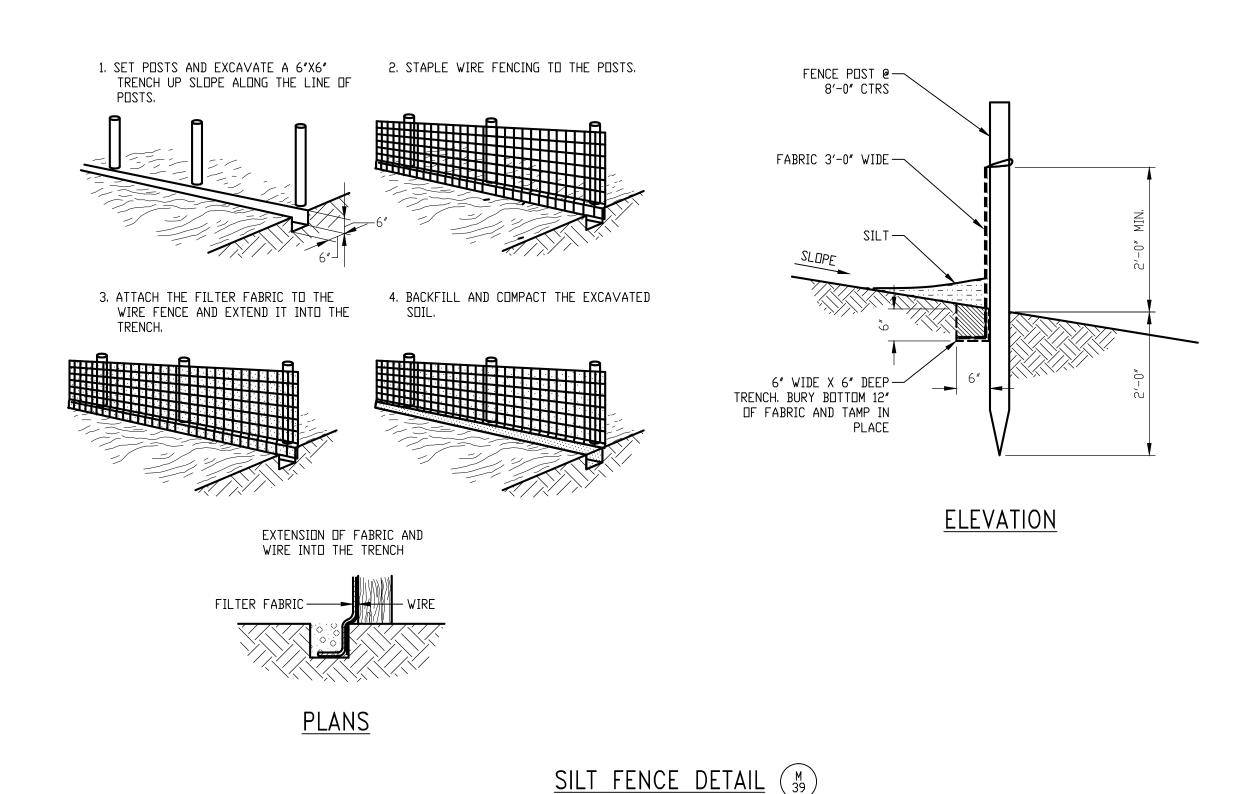




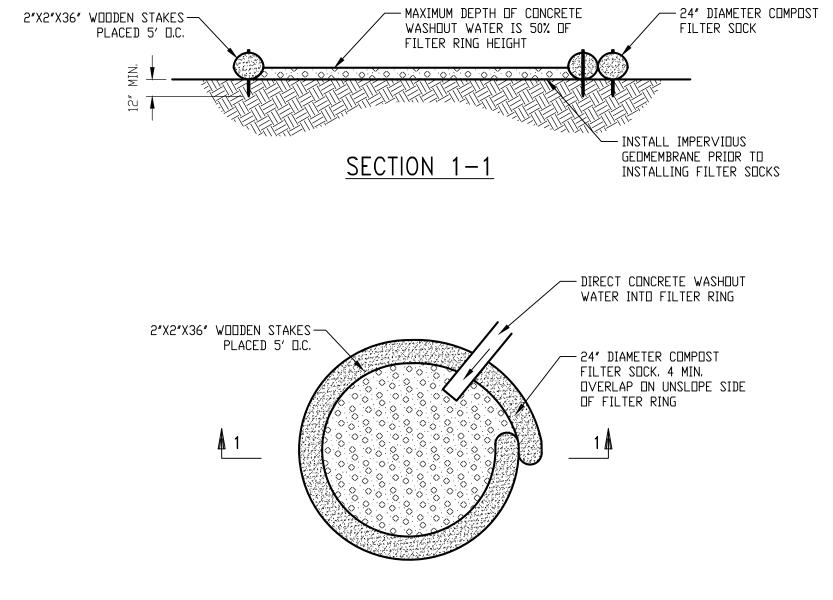




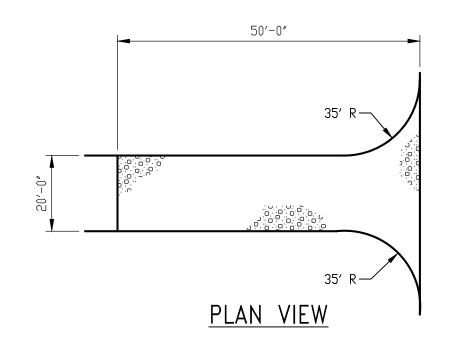


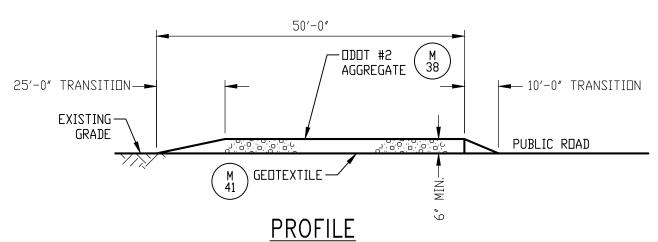


ND SCALE SEE NOTE 1



PLAN VIEW
TYPICAL COMPOST SOCK WASHOUT INSTALLATION (40) ND SCALE SEE NDTES 2 THRU 6





TYPICAL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE ND SCALE SEE NDTES 7 & 8

### NOTES

- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN REACHES 1/2 ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED OF.
- 2. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.
- 3. INSTALL CONCRETE WASHOUT ON FLAT GRADE FOR OPTIMAL PERFORMANCE.
- 4. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.
- 5. CONCRETE WASHOUT FACILITY SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED
- IMMEDIATELY. 6. REMOVE SEDIMENT FROM WASHOUT FACILITY WHEN ACCUMULATED MATERIALS REACH 75% OF THE
- 7. PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC RIGHT OF WAY.
- 8. DESIGN CRITERIA FOR STABILIZED CONSTRUCTION ENTRANCE.

FACILITY'S CAPACITY.

- A. STONE SIZE USE AASHTO #1 B. THICKNESS - NOT LESS THAN 8 INCHES. C. WIDTH - NOT LESS THAN FULL WIDTH OF
- POINTS OF INGRESS OR EGRESS. D. LENGTH - 50 FEET MINIMUM WHERE THE SOILS ARE SANDS OR GRAVEL OR 100 FEET MINIMUM WHERE SOILS ARE CLAYS OR SILTS, EXCEPT WHERE THE TRAVELED LENGTH IS LESS THAN 50 OR 100 FEET RESPECTIVELY. THESE LENGTHS
- DICTATE. E. FILTER CLOTH - WILL BE PLACED OVER ENTIRE AREA PRIOR TO PLACING OF STONE.

MAY BE INCREASED WHERE FIELD CONDITIONS

F. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC RIGHT-OF-WAY, THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

# REFERENCE DRAWINGS

T-684-04-01 EXISTING CONDITIONS/DEMOLITION PLAN T-684-04-02 SITE PLAN GRADING & DRAINAGE PLAN
GRADING & DRAINAGE DETAILS
EROSION & SEDIMENT CONTROL PLAN T-684-04-03 T-684-04-04

T-684-04-05 T-684-04-07 FENCE PLAN

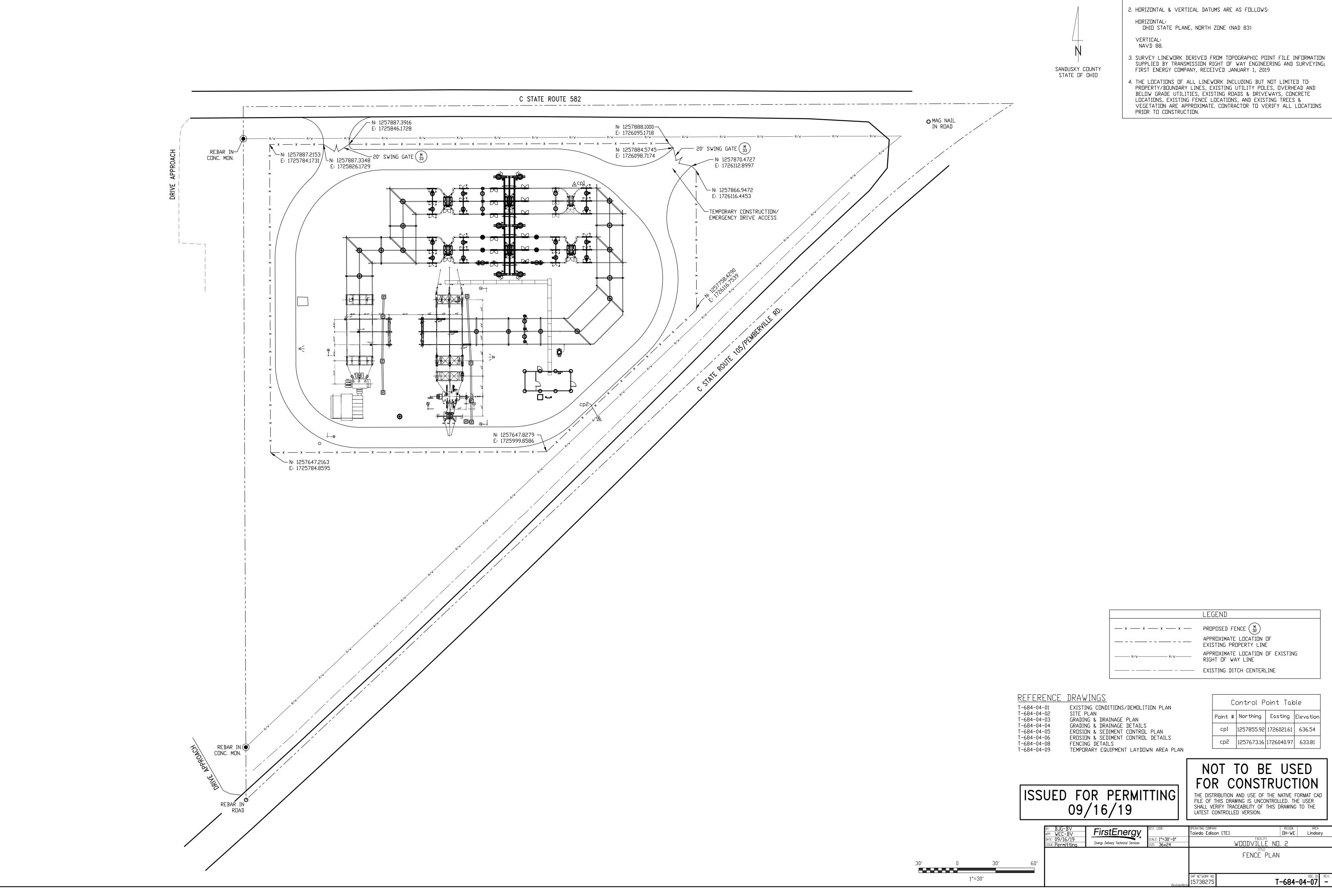
LATEST CONTROLLED VERSION.

T-684-04-08 FENCING DETAILS TEMPORARY EQUIPMENT LAYDOWN AREA PLAN

ISSUED FOR PERMITTING 09/16/19

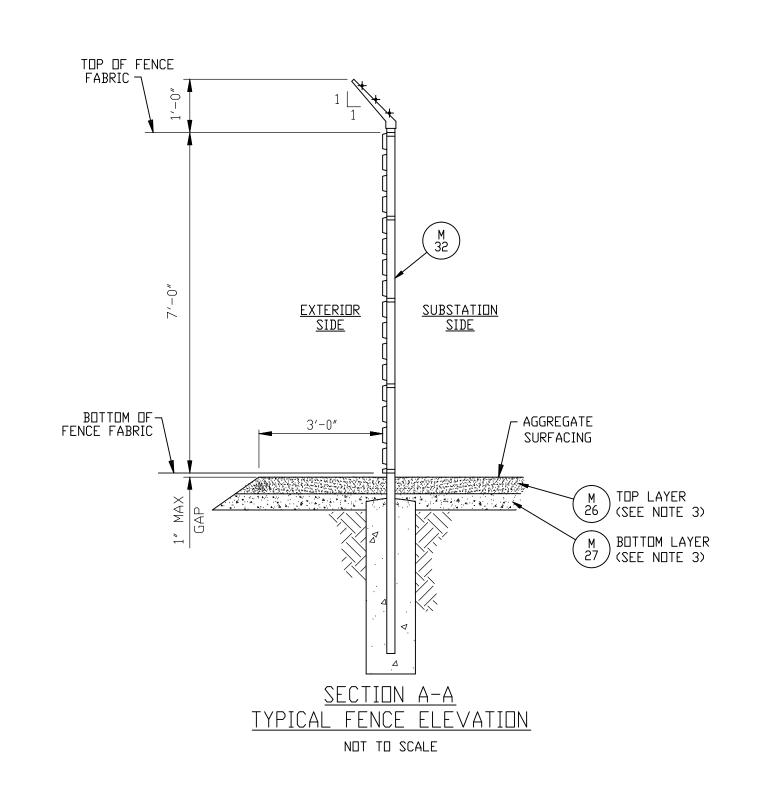
FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE

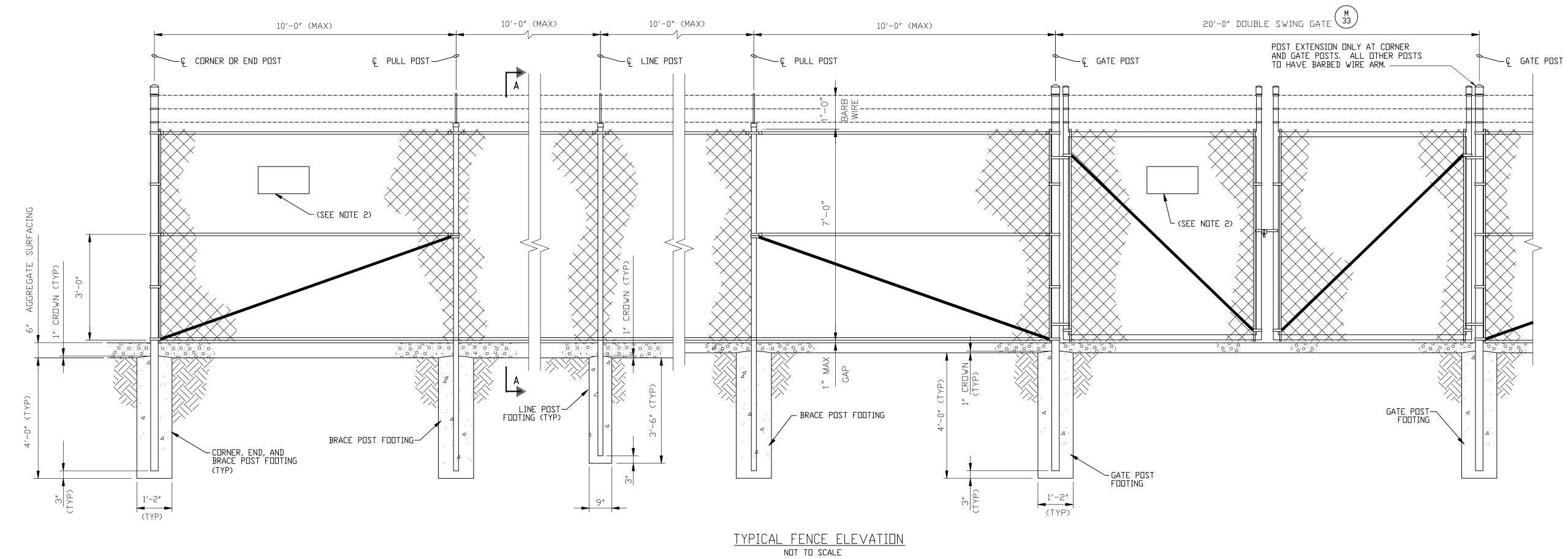
	<u>.                                      </u>					
BY: BJG-BV APP: WEC-BV	<u>FirstEnergy</u>	DIST. CODE:	DPERATING COMPANY  Toledo Edison	[TE]	REGION OH-WE	AREA Lindsey
DATE: 09/16/19 ISSUE: Permitting	Energy Delivery Technical Services	SCALE: NONE SIZE: 36×24		WOODVILLE N	II. 2	
				EROSION & SED	IMFNT	
				CONTROL DET		
			CAD META/PDI/ MP			DEC ID DE
		RevisionNote	SAP NETWORK NO. 15738275		T-684-0	4-06 REV



NOTES

1. SEE DWG T-684-04-08 FOR FENCE DETAILS.





# ISSUED FOR PERMITTING 09/16/19

# FENCE MATERIAL DESCRIPTION (M) 32

- 1, SEE FIRSTENERGY GENERAL SPECIFICATION FOR SUBSTATION CHAIN LINK SECURITY FENCE (SEPTEMBER 2007), SPECIFICATION FE-FENCE-1, FOR FENCING MATERIALS AND INSTALLATION.
- 2. "DANGER NO TRESSPASSING" SIGNS TO BE USED ON THE GATE AND FENCE EVERY 100 FEET.
- 3. PLACE 6" LAYER OF CRUSHED STONE IN ACCORDANCE WITH FIRST ENERGY SPECIFICATION INSIDE FENCED AREA AND EXTEND 3 FT DUTSIDE OF THE FENCE.

REFERENCE DRAWINGS

T-684-04-01 EXISTING CONDITIONS/DEMOLITION PLAN T-684-04-02

SITE PLAN
GRADING & DRAINAGE PLAN
GRADING & DRAINAGE DETAILS
EROSION & SEDIMENT CONTROL PLAN T-684-04-03 T-684-04-04 T-684-04-05

T-684-04-06 EROSION & SEDIMENT CONTROL DETAILS T-684-04-07 FENCE PLAN TEMPORARY EQUIPMENT LAYDOWN AREA PLAN T-684-04-09

> NOT TO BE USED THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE LATEST CONTROLLED VERSION.

REGION AREA

OH-WE Lindsey OPERATING COMPANY
Toledo Edison [TE] WOODVILLE NO. 2 FENCING DETAILS T-684-04-08



ΝΠΤ

- 1. ALL EROSION CONTROL WORK, SILT FENCE, AND OTHER BMPS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SITE EROSION AND SEDIMENT CONTROL PLAN.
- 2. IF TEMPORARY STOCKPILES ARE ESTABLISHED, SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER.
- 3. SEE DWG T-684-04-06 FOR EROSION CONTROL SECTIONS AND DETAILS.
- CONTRACTORS WHO REMOVE OR DISTURB EROSION CONTROL STRUCTURES/INSTALLATIONS SHALL BE RESPONSIBLE FOR REPAIR OF THESE
- ITEMS IN ACCORDANCE WITH THE SITE EROSION PLAN.

  5. STABILIZATION OF DISTURBED AREAS SHALL COMMENCE WITHIN 7 DAYS OF
- ESTABLISHING FINAL GRADE.
- PRIOR TO ANY CONCRETE WASHOUT ACTIVITIES, CONTRACTOR SHALL VERIFY CONCRETE WASHOUT LOCATION WITH ENGINEER.
- CONSTRUCTION SEQUENCE SHALL BE:
- 1. INSTALLATION OF EROSION CONTROL DEVICES.
  A. FIELD MARK LIMITS OF DISTURBANCE
- B. CONSTRUCTION ENTRANCES/EXITS
- PERIMETER SILT FENCE
- D. CONCRETE WASHOUT

  2. GRADING, CONSTRUCTION, AND INSTALLING POST CONSTRUCTION
- STORMWATER MANAGEMENT BMPS WHILE MAINTAINING AND REPAIRING EROSION CONTROL DEVICES.
- A. GRUBBING
  B. STRIP TOPSOIL
- ROUGH GRADING
- D. ESTABLISH FINISHED GRADE
- E. CONSTRUCT FOUNDATIONS
  F. SITE UTILITY CONSTRUCTION
- 3. FINAL STABILIZATION

  A PEMOVAL OF TEMPORARY EPOSION AND
- 4. REMOVAL OF TEMPORARY EROSION AND SEDIMENT BMPS AFTER SITE STABILIZATION HAS BEEN ACHIEVED.
  A. CONCRETE WASHOUT
- B. PERIMETER SILT FENCE
  C. CONSTRUCTION ENTRANCES/EXITS
- SITE SHALL USE THE TEMPORARY CONSTRUCTION ENTRANCE FOR CONSTRUCTION ACCESS, CONTRACTOR SHALL MONITOR PUBLIC ROADS FOR SEDIMENT AND DEBRIS ACCUMULATION DAILY AND CLEAN IMMEDIATELY WITH A STREET SWEEPER OR LOADER BUCKET.
- TEMPORARY LAYDOWN AREA TO BE SURFACED WITH CRUSHED AGGREGATE.
  AGGREGATE SURFACING, TEMPORARY CONSTRUCTION ENTRANCE, AND
  TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AT THE END
  OF CONSTRUCTION. AREA IS TO BE RESTORED TO EXISTING CONDITIONS AND
  STABILIZED WITH SEED AND MULCH. AGGREGATE IS TO BE STOCKPILED AT
  A LOCATION TO BE DETERMINED BY LANDOWNER.
- 10. LIMITS OF DISTURBANCE IS APPROXIMATELY 5.4 ACRES.

#### PERMANENT VEGETATIVE SEEDING SPECIFICATION

#### <u>SITE PREPARATION:</u>

- . SUBSOILER, PLOW, OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION, SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
- THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEBED PREPARATION AND SEEDING.
- 3. TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION.

#### SEEDBED PREPARATION:

- . LIME-AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 POUNDS PER 1000 SQUARE FEET OR 2 TONS PER
- ACRE.

  PERTILIZER- FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST.

  IN PLACE OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 25

  POUNDS PER 1000 SQUARE FEET OR 1000 POUNDS PER ACRE OF A 10-10-10 OR

  12-12-12 ANALYSIS.
- THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON SLOPING LAND, THE SOIL SHALL BE WORKED ON THE

#### SEEDING DATES AND SOIL CONDITIONS:

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUGUST 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVESPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80%.

GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN THE SOIL IS DRY ENDUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON DORMANT

# DORMANT SEEDINGS

SEEDING RATE

LBS./1000 SQ. F1

1.3

0.8

SEEDING MIX

CREEPING RED FESCUE

ANNUAL RYEGRASS
KENTUCKY BLUEGRASS

HARD FESCUE

CREEPING RED FESCUE

APPROXIMATE LOCATION OF

EXISTING CONCRETE MONUMENT

EXISTING FOUND NAIL

CONSTRUCTION ENTRANCE

APPROXIMATE LOCATION OF EXISTING RIGHT

EXISTING PROPERTY LINE

LEGEND

OF WAY LINE

EXISTING CONDITIONS/DEMOLITION PLAN

EROSION & SEDIMENT CONTROL PLAN

EROSION & SEDIMENT CONTROL DETAILS

GRADING & DRAINAGE PLAN

GRADING & DRAINAGE DETAILS

ISSUED FOR PERMITTING

09/16/19

— · — · — · — LIMITS OF DISTURBANCE

----- EXISTING DITCH CENTERLINE

— — — — SILT FENCE

SITE PLAN

FENCE PLAN

FENCING DETAILS

REFERENCE DRAWINGS

T-684-04-01

T-684-04-02

T-684-04-03

T-684-04-04

T-684-04-05

T-684-04-06

T-684-04-07

T-684-04-08

- SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.
- THE FOLLOWING METHODS MAY BE USED FOR "DORMANT SEEDING":

   FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, BROADCAST THE SELECTED SEED MIXTURE. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.

   FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZE, APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING.
- APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) ON A FIRM, MOIST SEEDBED.
  WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG, ON SLOPING LAND, SEEDING

### MULCHING:

FEASIBLE.

MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY AFTER SEEDING, DORMANT SEEDING SHALL BE MULCHED, 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIAL.

•STRAW—IF STRAW IS USED IT SHALL BE UNRUTTED SMALL-GRAIN STRAW

OPERATIONS SHOULD BE ON THE CONTOUR WHERE

#### 2. MATERIALS:

APPLIED AT THE RATE OF 2 TONS PER ACRE OR 90 POUNDS (TWO TO THREE BALES) PER 1,000-SQ. FT. THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY APPLIED SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000-SQ.-FT. SECTIONS AND SPREAD TWO 45-LB. BALES OF STRAW IN EACH SECTION.

•HYDROSEEDERS—IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE APPLIED AT 2,000 LB./AC. OR 46 LB./1,000 SQ. FT.

• OTHER—OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL

MATTINGS OR BLANKETS APPLIED ACCORDING TO MANUFACTURER'FS

NOT TO BE USED FOR CONSTRUCTION

THE DISTRIBUTION AND USE OF THE NATIVE FORMAT CAD FILE OF THIS DRAWING IS UNCONTROLLED. THE USER

SHALL VERIFY TRACEABILITY OF THIS DRAWING TO THE

LATEST CONTROLLED VERSION.

RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6 TONS PER ACRE.

| BJG-BV | WEC-BV | WEC-BV | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 109/16/19 | 10

# Appendix F Construction Site Inspection Checklist

#### WOODVILLE SUBSTATION PROJECT

#### STORM WATER POLLUTION PREVENTION PLAN INSPECTION FORM

Date:	Inspector's Name/Title:			
Inspector's Company:				
•	rdance with Part VII.BB of Permit: 🗆 `			
Inspection Type: ☐ We	eekly (once every seven calendar days)	)		
□ Sto	orm Event (0.5 inch or greater) Date:	Amo	ount:	Duration:
Rain Event(s) Since Last Ir	nspection:			
Date: Amou	unt: Duration:	Date:	Amount:	Duration:
Date: Amou	unt: Duration:	Date:	Amount:	Duration:
Did any discharges occur o	during these events?   No  Yes, Lo	ocation:		
Current Weather: □ Clea	r □ Cloudy □ Fog □ Rain □ Snow	/ □ Sleet □ Hig	h Winds □ Otl	her: Temp:
Current Discharges: □ N	o ☐ Yes, Location:			
Evidence of Sediment/Pollu	utants Leaving the Site? ☐ No ☐ Ye	s, Location:		
Has Seeding Taken Place?	? ☐ No ☐ Yes, Location/Seed tag ph	noto included:		
<b>Erosion and Sediment Co</b>	ontrol Features Inspected:			
Location(s) (Structure # (Signature) Properly anchored/installed Sediment Removal Require	t (Mark which one applies)  TR#)):  d: □ Yes □ No Repair  ed (Sediment one-half height for fence of the cation(s):	rs Needed: □ Y & one-third height	t for sock):	Yes □ No
☐ Construction Entrance	ersection of road and nearest STR#):			
	es Do Evidence of mud tracked of			
	cation(s):	-	100 🗆 110	
☐ Material Storage Areas				
•		ials properly conta	ained and label	ed: □ Yes □ No
Evidence of spills or releas				
	eation(s):			
	ontrol Measures Recommended:			
Onments / Additional o	ontrol incubates resolutionaca.			
amendment log.	made, you must update the SWPPP	<del>-</del>	ocument chang	<del>-</del>

#### WOODVILLE SUBSTATION PROJECT

# STORM WATER POLLUTION PREVENTION PLAN AMENDMENTS, GRADING, AND STABILIZATION LOG

Date:	Inspector's Name/Title:	
Location and Description	of Grading and Stabilization Activities	
Amendments to SWPPP	:	
Date:	Inspector's Name/Title:	
Location and Description	of Grading and Stabilization Activities	
Amendments to SWPPP	:	
Date:	Inspector's Name/Title:	
	of Grading and Stabilization Activities	
Amendments to SWPPP	:	

### Appendix G Training Log

#### **Storm Water Pollution Prevention Training Log**

Project	Name:			
Project	Location:			
Instruct	tor's Name(s):			
Instruct	tor's Title(s):			
Course L	_ocation:			Date:
Time of	Training	_ AM PM		Course Length (hours):
Storm V	Water Training Topic: (c	heck as app	ropriate)	
	rosion Control BMPs		Response Procedure	s
□ s	Sediment Control BMPs		Good Housekeeping	BMPs
	Material Management BMPs Training Objective:			
Attendee	e Roster: (attach additional p	pages as neces	ssary)	·
No.	Name	of Attendee		Company
1				
2				
3				
4				
5				
6				
7				
8				
9				
9				

This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

2/12/2020 2:49:37 PM

in

Case No(s). 19-1337-EL-BLN

Summary: Notice of Docketing of NPDES and Floodplain Permits electronically filed by Mr. Robert J Schmidt on behalf of American Transmission Systems Inc.