



**Construction Notice for
PIR 3368 Lakewood Road East
12-Inch Pipeline Project**

**Ravenna Township,
Portage County, Ohio
For Existing Pipeline Replacement**

**Ohio Power Siting Board
Case No. 19-714-GA-BNR**

Submitted by
The East Ohio Gas Company d/b/a Dominion Energy Ohio
Project No. P400476433

13817709v2



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Devin D. Parram
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April 17, 2019

Via Electronic Filing

Ms. Tanowa Troupe
Administration/Docketing
Ohio Power Siting Board
180 East Broad Street, 11th Floor
Columbus, Ohio 43215-3793

**Re: The East Ohio Gas Company d/b/a/ Dominion Energy Ohio
Case No. 19-714-GA-BNR**

Dear Ms. Troupe:

Enclosed for filing in the above-referenced case is a copy of the Construction Notice Application of The East Ohio Gas Company d/b/a Dominion Energy Ohio ("DEO") to replace approximately 830 feet of existing 8- and 10-inch diameter pipeline, with 845 feet of new 12-inch diameter natural gas pipeline within existing DEO right-of-way ("ROW"). The pipeline will run in a southwest to northeast direction between Hommon Road and Lakewood Road. This section of pipeline joins with approximately 3,688 feet of non-jurisdictional pipeline, PIR 2452. In addition we have provided the Staff of the Ohio Power Siting Board with five (5) hard copies of the Application.

DEO makes the following declarations pursuant to OAC Rule 4906-6-05(A):

Name of Applicant: The East Ohio Gas Company d/b/a
Dominion Energy Ohio
320 Springside Drive
Akron, OH 44333

**Name/Location of
Proposed Facility:** PIR 3368 – Lakewood Road East
Ravenna Township, Portage County, Ohio

**Authorized Representative
Technical:** Brian M. Culek
Engineer I
Pipeline Infrastructure Replacement
The East Ohio Gas Company d/b/a
Dominion Energy Ohio
320 Springside Drive, Suite 320
Akron, OH 44333
Telephone: 330-664-2479
E-Mail: brian.m.culek@dominionenergy.com

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Authorized Representative

Legal:

Sally W. Bloomfield
Devin D. Parram
Bricker & Eckler LLP
100 South Third Street
Columbus, OH 43215
Telephone: 614-227-2300
Facsimile: 614-2390
E-Mail: sbloomfield@bricker.com
dparram@bricker.com

Notarized Statement:

See Attached Affidavit of Jonathon E. Blackwell on behalf of
The East Ohio Gas Company d/b/a Dominion Energy Ohio.

Sincerely on behalf of
THE EAST OHIO GAS COMPANY
D/B/ADOMINION ENERGY OHIO



Devin D. Parram

Enclosure

**BEFORE
THE OHIO POWER SITING BOARD**

In the Matter of The East Ohio Gas Company)
d/b/a Dominion Energy Ohio Construction)
Notice for PIR 3368 Pipeline Replacement)
Project, Ravenna Township, Portage County,)
Ohio)


Case No. 19-714-GA-BNR

**AFFIDAVIT OF JONATHON E. BLACKWELL,
THE EAST OHIO GAS COMPANY D/B/A DOMINION ENERGY OHIO**

STATE OF OHIO :
 : ss
COUNTY OF SUMMIT :

I, Jonathon E. Blackwell, being duly sworn and cautioned, state that I am more than 18 years of age and competent to testify to the matters stated in this affidavit and further state the following based upon my personal knowledge:

1. I am a Project Manager for The East Ohio Gas Company d/b/a Dominion Energy Ohio's Pipeline Infrastructure Replacement division, and am authorized to execute this Affidavit.
2. I have reviewed the Ohio Construction Notice Application in the above referenced case.
3. To the best of my knowledge, information and belief, the information and materials contained in the above-referenced Application are true and accurate.
4. To the best of my knowledge, information and belief, the above-referenced Application is complete.



Jonathon E. Blackwell

Sworn to before and signed in my presence this 11th day of April 2019.



Heather Hays
Notary Public, State of Ohio
My Commission Expires August 19, 2023
Notary Public

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The following information is in accordance with the procedures set forth in Ohio Administrative Code (“OAC”) Chapter 4906-6 Accelerated Certificate Application Requirements of the Rules and Regulation of the Ohio Power Siting Board (“OPSB” or “Board”).

4906-6-05 APPLICATION REQUIREMENTS

4906-6-05(B)(1): Name and Reference Number

The applicant is The East Ohio Gas Company d/b/a Dominion Energy Ohio (“DEO”). The name of the pipeline project is PIR 3368 – Lakewood Road East. The internal project number is P400476433.

4906-6-05(B)(1): Brief Description of Project

DEO is planning to replace approximately 830 feet of existing 8-inch and 10-inch diameter pipeline, with 845 feet of new 12-inch diameter natural gas pipeline within existing DEO right-of-way (“ROW”). The new pipeline will have an MAOP of 275 pounds per square inch gage (“psig”). The pipeline will run in a southwest to northeast direction between Hommon Road and Lakewood Road. This section of pipeline joins with approximately 3,688 feet of non-jurisdictional pipeline, PIR 2452. Many of the supporting documents will reference PIR 2452, which includes both the jurisdictional and non-jurisdictional pipeline sections. The existing pipe will be abandoned in place and be replaced with the new pipe offset from the existing pipe within the existing DEO easement.

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The proposed pipeline is located within Ravenna Township in Portage County, Ohio as described above. Existing public roadways and DEO ROW will provide the required equipment access.

4906-6-05 (B)(1): Why the Project Meets the Requirements for CN

This project qualifies as a Construction Notice because it fits the criteria of OAC Rule 4906-1-01, Appendix B (1) that provides for the replacement of an existing pipeline if it is not more than one (1) mile in length. In this instance, DEO will be replacing 0.16 miles of pipeline.

The replacement pipeline will be located entirely within DEO's service area. DEO owns and operates the existing line that will be replaced and will continue to own and operate the replacement pipeline. The primary purpose of the replacement will be to take out of service the aging and obsolete pipeline to assure a safe and constant natural gas supply to DEO's customers.

4906-6-05(B)(2): Statement of Need for the Proposed Facility

DEO currently transports gas in the existing pipeline to supply various distribution pipeline systems that ultimately supply end use customers. This replacement is being completed to continue to meet the current supply demand. The project design and construction is an effort to maintain pipeline safety and integrity.

The existing pipeline is steel, was placed into service in 1942, and has been in operation for 76 years. The current MAOP for this pipeline is 275 psig, with no restriction. The pipeline to be replaced is made up of the following sections: existing 8-inch steel high pressure line L#12100 and existing 8-inch steel high pressure L#2468.

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Approximately 845 feet of L#2468 is to be abandoned as part of the construction of the new 12-inch steel high pressure line L#12100.

This high pressure (“HP”) system is an important pipeline that supplies many critical regulator stations for intermediate (“IP”), medium (“MP”), and low pressure (“LP”) systems. Also, the majority of this HP system is twelve (12)-inch pipe and the Applicant proposes to replace much of the eight (8)-inch pipe with twelve (12)-inch pipe for consistency.

There are no distribution or end-use customers served by this section of pipeline. However, downstream of this section of the pipeline, both customer base and demand are growing. This growth is expected to continue into the future and will affect the demand on the replacement pipeline.

4906-6-05(B)(3): Location of the Project

Attachment A contains a map that illustrates the location of the proposed project in relation to existing or proposed lines and substations are shown on an area system map. The replaced pipeline will be located entirely within an existing 60-foot wide DEO ROW. The project sections are located in Ravenna Township, Portage County, Ohio.

The DEO ROW exists as a partially maintained mixture of residential maintained lawn, wooded property, and open fields. Lakewood Road and Hommon Road are under the jurisdiction of Portage County.

There are no operating or abandoned railroad facilities within the project area.

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4906-6-05(B)(4): Alternatives Considered

As mentioned earlier, DEO is planning to replace pipeline, totaling approximately 845 feet, of existing 8-inch diameter pipeline with 12-inch diameter pipeline within existing utility ROW. The new pipeline will be offset from the existing pipeline in the existing DEO easement. This is the most direct and cost effective method of replacement.

Removing the old line and installing the new line in its place was an alternative considered.. This option was discarded due to: (1) the need to shut off service along the line as construction proceeds; (2) the need to curtail service to the public on the roadways during construction; (3) the greater disturbance caused by the increased timeline and shallow corridors; and (4) its higher cost of construction. By installing the pipeline offset from the existing line, DEO will protect the residents from excessive disturbance, keep customers in service, as well as decrease the cost of the project.

4906-6-05(B)(5): Description of Public Information Program

DEO has sent a letter to property owners and tenants listed on **Attachment B** informing them of the nature of the project, the proposed timeframe of the project construction, and restoration activities. Another set of letters will be sent prior to construction activities being conducted in the vicinity of the property owners or tenants and after restoration of disturbed areas.

Notification letters were sent the week of April 1, 2019 to all parties identified on **Attachment B**. Model landowner notification letter is included for reference in **Attachment C-1**. A copy of the pre-construction letter to be sent to all the landowners and tenants prior to the start of construction is included as **Attachment C-2**.

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4906-6-05(B)(6): Anticipated construction schedule, in-service date

The construction of the replacement pipeline is anticipated to begin in May 2019. DEO plans to place the line in-service by June 30, 2019.

4906-6-05(B)(7): Project Area Map and Directions

An area map that is at least of a 1:24000 scale that depicts roads, streets, and highways is attached as **Attachment A**.

4906-6-05(B)(8): Property Owner List

A list of the affected properties for which DEO has obtained its easements is given on **Attachment B**, which also contains the addresses of tenants affected by the accelerated application. Easements have been obtained from all affected property owners.

4906-6-05(B)(9)(a): Operating Characteristics, Required Structures, and Right-of-Way and/or Land Requirements

Pipeline MAOP: The new pipeline will operate at an MAOP of 275 psig, and have a diameter of 12 inches.

Pipe Material: The proposed 12-inch steel pipeline will have a wall thickness of 0.375 inch and a yield strength of 42 thousand pounds per square inch (“psi”). The pipeline will be cathodically protected by seventeen (17) pound anodes at each tie-in to the existing line as well as equally placed every 800 feet along the new pipeline. This pipeline will be externally coated with 14-16 Mils of Fusion Bonded Epoxy and/or Powercrete.

Structures: No additional structures will be required for the new pipeline.

Right-of-Way (“ROW”) and/or Land Requirement: Replacement of the pipeline will occur within the existing 60-foot wide easement owned by DEO. The 100 foot by 50 foot

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temporary construction materials laydown areas will be necessary within the existing access road off of Lakewood Road. The construction contractor has acquired land from the Portage County Park District shown on Attachment A for the laydown area.

4906-6-05(B)(9)(b): Electric and Magnetic Fields

There are no sources of high voltage electricity or DC discharge into the ground that would create interference with the cathodic protection or require AC mitigation.

4906-6-05(B)(9)(c): Estimated Capital Costs

The 2019 capital cost of this project is estimated to be approximately \$286,000.00.

4906-6-05(B)(10)(a): Land Use

The proposed project is located within Ravenna Township in Portage County, Ohio. The entire length of the proposed route will be located within DEO ROW. Land use associated with the project consists of residential maintained lawn, wooded property, and open fields.

The PIR 3368 project area contains no (0) wetlands or streams along the proposed replacement route (**Attachment D**). No trees are located within the project area with characteristics which may potentially provide some level of roosting habitat for the Indiana bat (*Myotis sodalis*) and/or northern long-eared bat (*Myotis septentrionalis*). Minimal cutting of trees that are not bat roost trees may be required. The replacement will take place within existing DEO easement.

4906-6-05(B)(10)(b): Agricultural Land

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As mentioned previously, land use associated with the project area consists of residential maintained lawn, wooded property, and open fields.

None of the project area is used for agricultural purposes. The project is not within an agricultural district.

4906-6-05(B)(10)(c): Archeological and Cultural Resources

In February 2018, DEO's consultant, Civil & Environmental Consultants, Inc. ("CEC"), performed a database review of the Ohio Historic Preservation Office ("OHPO") cultural resources GIS (CRGIS) online system, for the study corridor (refer to **Attachment D**). The OHPO CRGIS contains mapped locations and information for Ohio Archaeological Inventory ("OAI") properties, Ohio Historic Inventory ("OHI") properties, Ohio Genealogical Society ("OGS") Cemeteries, Ohio Historic Tax Credit Projects, National Register Listed Properties, National Register Listed Districts, Determinations of Eligibility, and Phase 1, 2, or 3 survey areas.

CEC reviewed the area within a 1,000-foot radius of the project, and determined no mapped OHPO CRGIS resources were within the search area.

4906-6-05(B)(10)(d): List of Governmental Agencies Which Have Requirements to be met by the Project

The following agencies have requirements to be met at various times by this project:

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Name of Agency	Document Submitted	Attachment
United State Fish and Wildlife Service (“USFWS”)	Threatened and Endangered IPaC Consultation	H-1
	September 18, 2018 Technical Assistance Request	H-2
	October 16, 2018 USFWS Response	H-3
Ohio Historic Preservation Office (“OHPO”)	Cultural Resources Literature Review Map	D
Ohio Department of Natural Resources (“ODNR”)	January 30, 2018 Threatened and Endangered Species Consultation	J-1
	February 22, 2018 ODNR Response	J-2
Ohio Environmental Protection Agency Notice of Intent (“NOI”)	NOI for General Construction Stormwater Permit Application	Appendix K of Attachment E-1
	NPDES Permit	F
Portage County Soil and Water Conservation District (“SWCD”)	Stormwater Pollution Prevention Plan (“SWPPP”)	E-1
	December 21, 2018 SWPPP Approval	E-2
Portage County	November 9, 2018 Floodplain Permit Application	G-1
	January 18, 2019 Approval	G-2

A Storm Water Pollution Prevention Plan (“SWPPP”) has been prepared for the project. A copy of the SWPPP is attached as part of the Portage County Soil and Water Conservation (“SWCD”) and was submitted to Portage County SWCD on October 18, 2018 (**Attachment E**). Portage County SWCD approved the SWPPP on December 21, 2018. In addition, notification for the project was provided to the Portage County MS4 on

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October 9, 2018 in accordance with the Ohio EPA NPDES Construction Storm Water General Permit requirements.

Approximately 65 linear feet (“LF”) of the project crosses designated 100-year floodplain in one location that will be open cut; however, the majority of floodplain that is crossed will be bored. DEO submitted a Portage County Floodplain Permit application to Portage County Building Department on November 9, 2018 (**Attachment G-1**) and approval was granted on January 18, 2019 (**Attachment G-2**).

A Notice of Intent (“NOI”) for coverage under the Ohio Environmental Protection Agency (“Ohio EPA”) Construction Storm Water General Permit (OHC000005) is required for this project. The NOI was submitted to Ohio EPA (**Attachment E Appendix I**) and approval was received on November 13, 2018 (**Attachment F**).

Per a December 4, 2018, telephone conversation with Ms. Christine Craycroft, Executive Director, there is no specific environmental permitting required by the District. The project is not located on Lake Hodgeson Park property.

DEO requests that Staff include a condition such as the one that has been included in the following *Dominion Energy Ohio* cases: Case Nos. 19-176-GA-BNR; 19-135-GA-BNR; 18-1110-GA-BNR; 18-560-GA-BNR; 18-515-GA-BNR; 17-2456-GA-BNR; 17-2425-GA-BNR; 17-2375-GA-BNR; 17-1973-GA-BNR; and 17-1944-GA-BNR that prior to the commencement of construction activities in areas that require permits or authorizations by federal or state laws and regulations, DEO shall obtain and comply with such permits or authorizations.

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There are no other known local, state, or, federal requirements that must be met prior to commencement of construction on the proposed pipeline project.

4906-6-05(B)(10)(e): Federal and State Designated Species

According to the U.S. Fish and Wildlife Service (“USFWS”) Information for Planning and Consultation (“IPaC”) system, four (4) federally listed species have ranges which include Portage County, Ohio: the Indiana bat (*Myotis sodalis*), a federally endangered species; the northern long-eared bat (*Myotis septentrionalis*), a federally endangered species, the northern monkshood (*Aconitum noveboracense*), a federally threatened species; and the Mitchell’s Satyr (*Neonympha mitchellii mitchellii*), a federally endangered species. Additionally, the bald eagle (*Haliaeetus leucocephalus*), a species of concern, is protected under the Bald and Golden Eagle Protection Act. See **Attachment H-1**.

A Technical Assistance request for the project was submitted to USFWS on September 18, 2018 (**Attachment H-2**) and a reply was received on October 16, 2018 (**USFWS Attachment H-3**). The USFWS response recommends seasonal tree clearing of trees \geq 3-inches diameter at breast height occur between October 1 and March 31. For non-bat species, the USFWS response states, “we do not anticipate adverse effects to any other federally endangered, threatened, proposed, or candidate species.” See **Attachment H-3**.

In August 2016 and March 2018, DEO’s consultant Civil & Environmental Consultants, Inc. (“CEC”) reviewed the project area for suitable habitat for federally listed

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species known to be located within Portage County, Ohio. The results are included in the Field Survey Summary Report provided in **Attachment I**. The width of the study area of their assessment was approximately sixty (60)-feet, approximately thirty (30)-feet to either side of the centerline of the DEO easement within the project area.

According to CEC, no (0) potential roost trees (“PRT”) for the Indiana bat (*Myotis sodalis*) and/or the northern long-eared bat (*Myotis septentrionalis*) were located within the PIR 3368 study area. No portals, caves, underground mines, or other human structures, including houses, barns, pavilions, sheds and cabins that could provide bat roosting habitat, will be impacted as part of the project. Minimal cutting of trees may be required, but will take place between October 1st and March 31st, to avoid potential impacts to federally listed bat species.

The northern monkshood is found in cool, moist, talus slopes or shaded cliff faces in wooded ravines. According to CEC, no suitable habitat for the northern monkshood exists within the project area (**Attachment I**).

Although the USFWS has no defined critical habitat for the Mitchell’s satyr butterfly, sedge-dominated fen communities are considered suitable habitat. This type of habitat is not present within the project area. In addition, according to the USFWS Mitchell’s satyr butterfly Recovery Plan, this species is considered extirpated in Ohio. Therefore, it is unlikely the Mitchell’s satyr butterfly would be within the project area.

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According to CEC, no bald eagles or probable bald eagle nests were observed during the field review of the study area (**Attachment I**). According to the information that USFWS provided to DEO, Ravenna Township within Portage County has no known occurrence of bald eagle nesting sites.

On January 30, 2018, DEO submitted a letter to the Ohio Department of Natural Resources (“ODNR”) requesting a finding regarding any adverse effect to any state listed species and natural areas that have a geological and/or ecological significance (**Attachment J-1**). A response from ODNR was received on February 22, 2018. A copy of this letter is included in **Attachment J-2**.

ODNR identified many state-listed plants at or within a one mile radius of the project area. All of these plant species are found in higher quality wetlands. Since no wetland are present in the PIR 3368 project area, effects to these species is not anticipated.

ODNR determined the project will not likely adversely affect many of the species identified in the response. No such determination was made with respect to several bird species; however, a similar determination regarding these species is prudent as the required habitat not present in the project area.

Similarly, ODNR did not determine the project would not affect the spotted turtle (*Clemmys guttata*), a state threatened species. Further communications from ODNR’s Division of Wildlife staff provided recommendations to DEO to avoid impacts to the spotted turtle. DEO has committed to adhering to these recommendations or will continue to obtain guidance from ODNR.

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4906-6-05(B)(10)(f): Areas of Ecological Concern

Approximately 65 LF of the project crosses designated 100-year floodplain in one location that will be open cut. There are no known national or state forests or parks, designated or proposed wilderness areas, national or state wild and scenic rivers, wildlife areas, wildlife refuges, wildlife management areas, or wildlife sanctuaries located within or within the immediate vicinity of the project area. The response from ODNR indicates that two city/county parks are at or within one-mile from the project including the Breakneck Creek Preserve (Portage Park District) and Lake Hodgeson (Ravenna Parks & Recreation). As noted previously, the Portage County Park District does not require any specific environmental permitting; however the District was involved with easement/temporary access. Lake Hodgeson Park is not affected by the project.

No wetlands are located within the PIR 3368 project area. A copy of the Delineation Report is included in **Attachment K**.

Separation of the topsoil from the subsoil will generally be performed at residential areas. The backfill material that will be returned to the excavation pits will consist of the same material removed from the pits, to the extent practicable.

All work shall be performed within the designated project area. Construction will be limited to these areas and will require soil disturbance to accommodate areas for excavation, side-cast spoil, temporary storage of the new pipe, and equipment/vehicular traffic.

Following pipeline replacement, all disturbed areas will be returned to their original slope and contour, stabilized, seeded, and revegetated to provide a permanent

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herbaceous cover to stabilize the soils, and temporary erosion controls will be maintained until this permanent cover is established.

4906-6-05(B)(10)(g): Any Known Unusual Conditions Resulting in Significant Environmental, Social, Health, or Safety Impacts

As illustrated by the studies and investigations conducted as a part of this project to date (refer to the Attachments), there are no readily known unusual conditions in the area of the proposed project that will result in significant environmental impacts. Additionally because this project proposes to replace an existing pipeline, there has already been prior ground disturbance and maintenance in the area. Other than potential health and safety issues associated with construction, which will be minimized with the best practices during construction, there are no additional health, social or safety impacts that will exist as a result of this project.

**4906-6-07 SERVICE AND PUBLIC DISTRIBUTION OF ACCELERATED
CERTIFICATE APPLICATIONS**

4906-6-07(A)(1): Service of Accelerated Application Upon Officials

Vicki A. Kline
Kathleen Clyde
Sabrina Christain-Bennett
Portage County Commissioners
449 South Meridian Street, 7th Floor
Ravenna, OH 44266

Todd Peetz, Director
Regional Planning Commission
449 South Meridian Street, 6th Floor
Ravenna, OH 44266

Pat Artz
Vince Coia
Hank T. Gibson
Ravenna Township Trustees
6115 S. Spring Street
Ravenna, OH 44266

Michael A. Marozzi, P.E., P.S.
Portage County Engineer
5000 Newton Falls Road
Ravenna, OH 44266

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Zach Alger, Board Chairman
Portage Soil & Water Conservation District
6970 State Route 88
Ravenna, OH 44266

A copy of this accelerated application and a transmittal letter (**Attachment L**) has been sent to the officials listed above.

4906-6-07(A)(2): Service of Accelerated Application Upon Main Public Libraries of Each Political Subdivision

A copy of this accelerated application is being sent to the Reed Memorial Library, 167 E Main Street, Ravenna, Ohio 44266.

4906-6-07(A)(3): DEO's Website

A copy of the accelerated application is located on DEO's web page at <https://www.dom.com/home-and-small-business/rates-and-regulation/siting-board-filings>. Choose the case number of this case and double click to view the application.

Further interested persons may contact DEO at 320 Springside Dr., Akron, Ohio, 44333 to obtain either an electronic copy or a paper copy of this accelerated application.

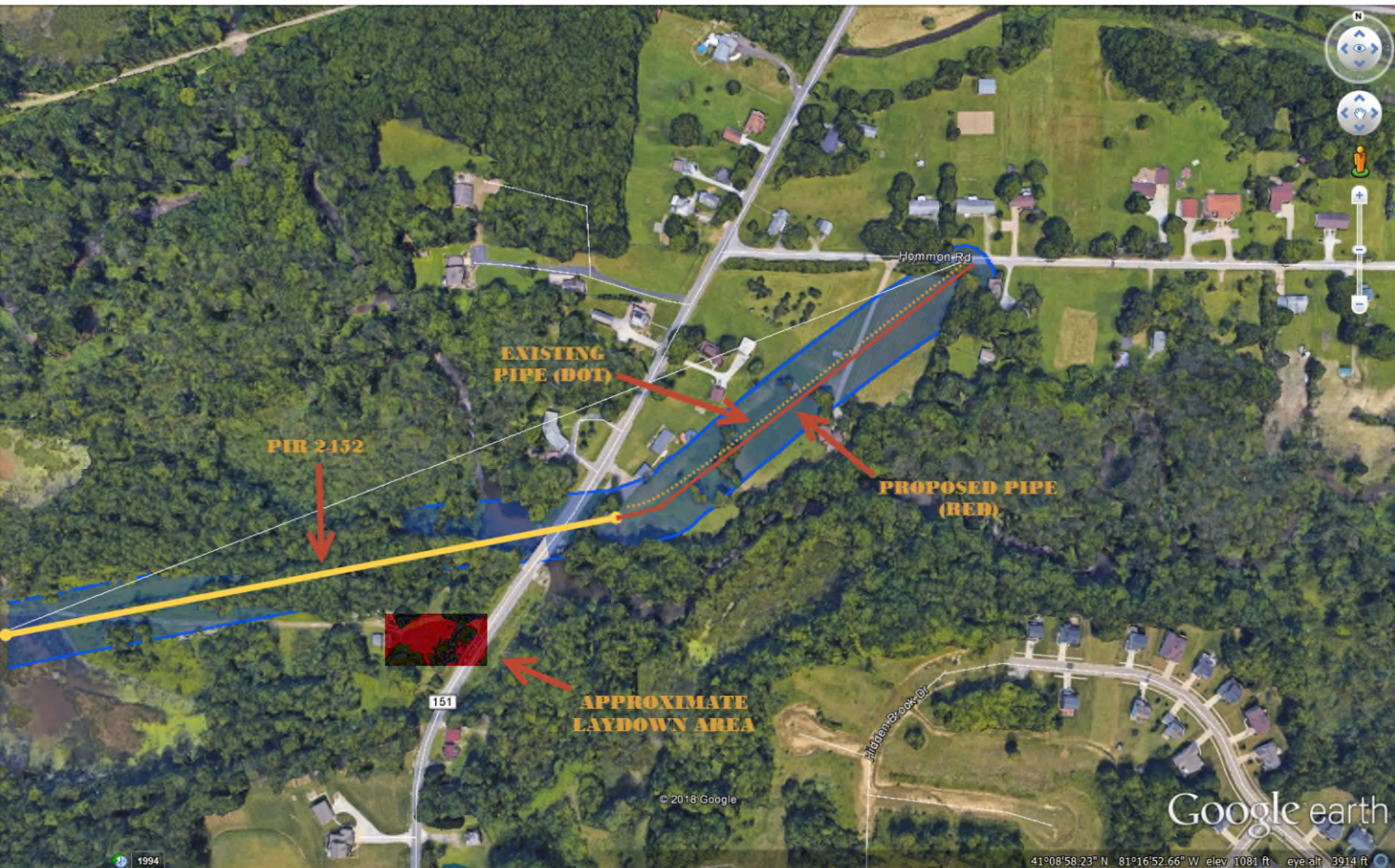
4906-6-07(B): Proof of Compliance

Within seven (7) days of the filing of this accelerated application, DEO will cause proof of compliance with this requirement to be filed with the Board.

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ATTACHMENT A

AERIAL MAP



© 2018 Google

Google earth

41°08'58.23" N 81°16'52.66" W elev 1081 ft eye alt 3914 ft

1994

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ATTACHMENT B

LANDOWNERS OF PERMANENT & TEMPORARY EASEMENTS

PIR PROJECT PIR # 2452
MWO # 63373508
Ref. # 16-0289

Current Property Owner	Property Address	City	State	Zip	Mailing Address	City	State	Zip	Parcel #
Michael Baker	3168 Hommon Rd	Ravenna	OH	44266	3168 Hommon Rd	Ravenna	OH	44266	29342000000700
Ronald & Becky Baker	5856 Lakewood Rd	Ravenna	OH	44266	5856 Lakewood Rd	Ravenna	OH	44266	293420000007001
Mathew & Angela Baker	5820 Lakewood Rd	Ravenna	OH	44266	5856 Lakewood Rd	Ravenna	OH	44266	293420000007003
John & Debra Speis	5825 Lakewood Rd	Ravenna	OH	44266	5825 Lakewood Rd	Ravenna	OH	44266	293420000024000
Portage Park District	Lakewood Rd	Ravenna	OH	44266	449 S Meridian St	Ravenna	OH	44266	293420000024001
Portage Park District	5795 Lakewood Rd	Ravenna	OH	44266	449 S Meridian St	Ravenna	OH	44266	293540000002000
William & Beth Ann Stone	5745 Lakewood Rd	Ravenna	OH	44266	5745 Lakewood Rd	Ravenna	OH	44266	293540000003004
Cynthia Wagner	2767 Summit Rd	Ravenna	OH	44266	4500 Rockside Rd #350	Independence	OH	44131	293580000003000

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ATTACHMENT C

MODEL NOTIFICATION LETTERS TO PROPERTY OWNERS

FIRST LANDOWNER LETTER

DATE

ADDRESS

Dear Property Owner or Tenant:

Dominion East Ohio is preparing to construct a pipeline project that will replace approximately 830 feet of existing 8- and 10-inch diameter pipeline, with 845 feet of new 12-inch diameter natural gas pipeline within existing DEO right-of-way ("ROW"). The new pipeline will have an MAOP of 275 pounds per square inch gage ("psig"). The pipeline will run in a southwest to northeast direction between Hommon Road and Lakewood Road. DEO is the owner of an easement/permit on or near your property, Parcel(s) XX-XXX, pursuant to and within which it operates and maintains a natural gas pipeline. Although the existing pipeline is safe, DEO must replace it to comply with recently enacted U.S. Department of Transportation's 192 Pipeline Integrity Regulations.

Please be assured that during this project, all of DEO's Standard Safety and Operating Procedures and all applicable federal, state and local laws, regulations and ordinances will be fully adhered to.

Right-of-Way Project Timeline

Before pipeline replacement begins, DEO or its contractor must survey the easement. Survey work is anticipated to occur during the months of April May. DEO must also clear the portion of its easement along its pipeline. This right-of-way, granted by the recorded easement or permit, provides the area necessary for the large equipment and materials used in the laying, maintaining and operating of the pipeline. DEO anticipates the right-of-way site preparation, i.e. tree, brush and stump removal, to occur in May and June 2019. DEO personnel or its contractor has begun preliminary work on this project. Access to DEO's pipeline may be required for the following reasons:

1. Surveying and staking the pipeline route
2. Environmental assessment
3. Archeological digging and exploration
4. Right of way site preparation
5. Any other activity as required by the project

Private Access to your Property

Private access to your property will be maintained open at all times where feasible. Due to construction activity, some access may be temporarily closed but will be reopened as quickly as possible. In that case, you will be notified in advance. Any public road closures will be communicated with the local police, fire and emergency agencies.

Timeline for Construction of the Project

May 2019. The construction is expected to last until approximately the end of June 2019.

Restoration Activities:

DEO will restore your property to the state that it was in prior to DEO's construction activities. It expects that the restoration activities will be completed by Aug, 2019.

If you have tenants occupying this parcel, please advise them of this pipeline replacement project.

Should you have any questions concerning this pipeline replacement project, please contact Dominion East Ohio's Land Services Department at 330-664-2626.

Sincerely,

DOMINION EAST OHIO

Land Services Department

SECOND LANDOWNER MODEL LETTER
TO BE SENT 7 DAYS PRIOR TO CONSTRUCTION – OAC Rule 4906-6-11 (C)

ADDRESS

Dear Property Owner or Tenant:

As we indicated to you in a prior letter, Dominion East Ohio (DEO) is preparing to construct a pipeline project that will replace approximately 830 feet of existing 8- and 10-inch diameter pipeline, with 845 feet of new 12-inch diameter natural gas pipeline within existing DEO right-of-way (“ROW”). The new pipeline will have an MAOP of 275 pounds per square inch gage (“psig”). The pipeline will run in a southwest to northeast direction between Hommon Road and Lakewood Road. DEO is the owner of an easement/permit on or near your property, Parcel(s) XX-XXX, pursuant to and within which it operates and maintains a natural gas pipeline. Although the existing pipeline is safe, DEO must replace it to comply with recently enacted U.S. Department of Transportation’s 192 Pipeline Integrity Regulations.

Please be assured that during this project, all of DEO’s Standard Safety and Operating Procedures and all applicable federal, state and local laws, regulations and ordinances will be fully adhered to.

Right-of-Way Project Timeline

Our survey work has been completed. DEO must clear the portion of its easement along its pipeline. This right-of-way, granted by the recorded easement or permit, provides the area necessary for the large equipment and materials used in the laying, maintaining and operating of the pipeline. DEO anticipates the right-of-way site preparation, i.e. tree, brush and stump removal, to occur in the May, 2019. DEO personnel or its contractor has begun preliminary work on this project. Access to DEO’s pipeline may be required for the following reasons:

1. Surveying and staking the pipeline route
2. Environmental assessment
3. Archeological digging and exploration
4. Right of way site preparation
5. Any other activity as required by the project

Private Access to your Property

Private access to your property will be maintained open at all times where feasible. Due to construction activity, some access may be temporarily closed but will be reopened as quickly as possible. In that case, you will be notified in advance. Any public road closures will be communicated with the local police, fire and emergency agencies.

Timeline for Construction of the Project

DEO anticipates that construction of the [new][replacement] pipeline will commence on or about May 2019. The construction is expected to last until approximately end of June 2019.

Restoration Activities:

DEO will restore your property to the state that it was in prior to DEO’s construction activities. It expects that the restoration activities will be completed by Aug, 2019.

If you have tenants occupying this parcel, please advise them of this pipeline replacement project.

Questions/Complaints:

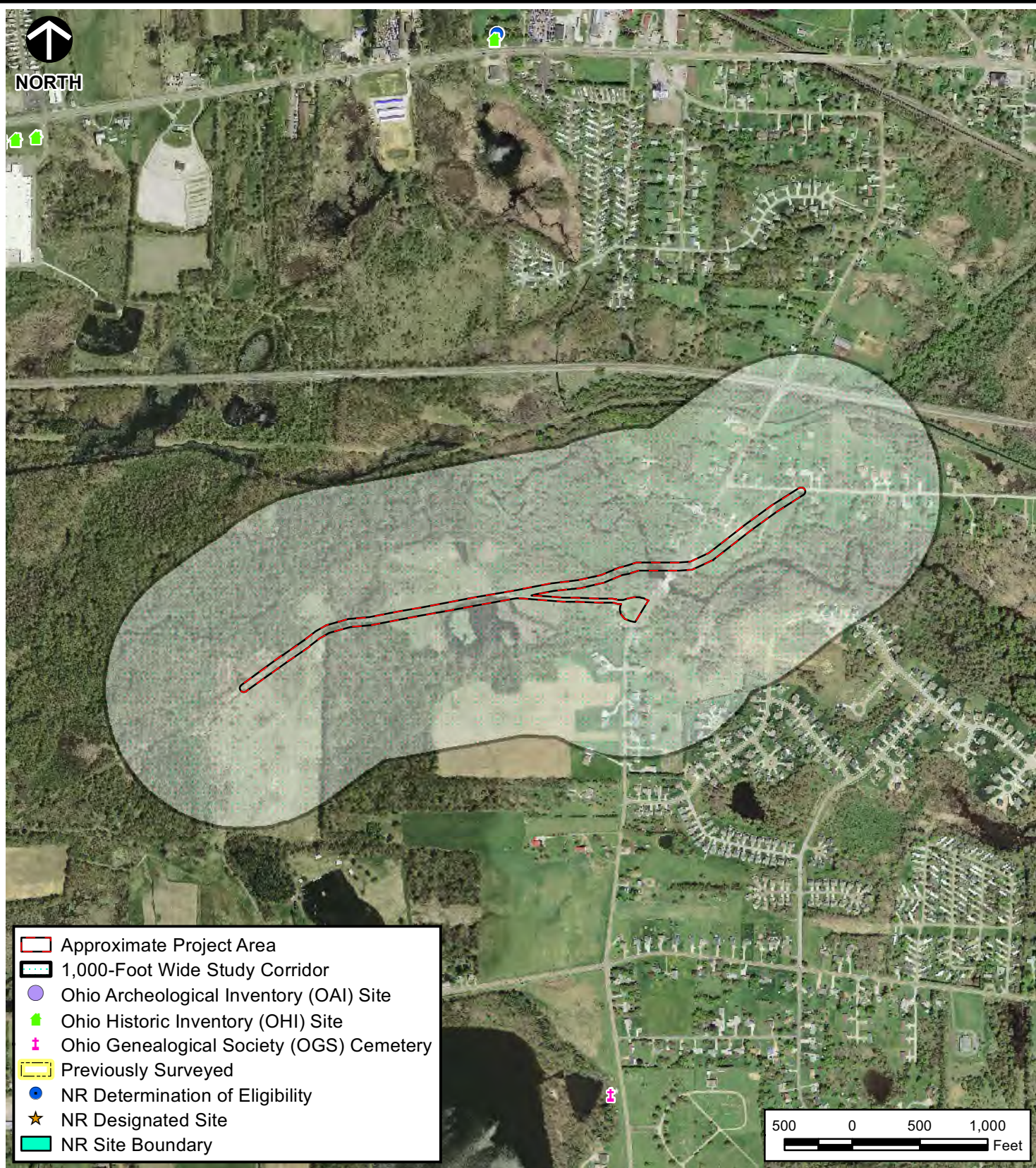
Should you have any questions concerning this pipeline replacement project, please contact Dominion East Ohio’s Land Services Department at 330-664-2626; if you have a concern about the project construction, please contact Brian Culek, Project Manager, (330) 664-2479 or e-mail him at brian.m.culek@dominionenergy.com.

**CASE No. 19-714-GA-BNR
PIR 3368 LAKEWOOD ROAD EAST
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO
PIPELINE REPLACEMENT PROJECT**

ATTACHMENT D

**OHIO HISTORIC PRESERVATION OFFICE
SECTION 106 DESK TOP REVIEW**

P:\2016\163-193\GIS\Maps\OHPO\163193 OHPO Figure 2.mxd - 8/9/2017 - 11:57:26 AM (dgiesler)



SOURCE: OHIO STATEWIDE IMAGERY PROGRAM (OSIP) II 1-FOOT PIXEL RESOLUTION 2011 COLOR AERIAL PHOTOGRAPHY OF PORTAGE COUNTY, OHIO.



Civil & Environmental Consultants, Inc.

5899 Montclair Boulevard - Cincinnati, OH 45150
513-985-0226 - 800-759-5614
www.cecinc.com

THE EAST OHIO GAS COMPANY
PIPELINE INFRASTRUCTURE REPLACEMENT (PIR)
PIR 2452 - LAKEWOOD & HOMMONROJECT
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO

CULTURAL RESOURCES LITERATURE REVIEW MAP

DRAWN BY:	DMG	CHECKED BY:	JAV	APPROVED BY:	JAV	FIGURE NO:
DATE:	AUGUST 09, 2017	DWG SCALE:	1" = 1,000'	PROJECT NO:	163-193	2

Signature on File *

**CASE No. 19-714-GA-BNR
PIR 3368 LAKEWOOD ROAD EAST
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO
PIPELINE REPLACEMENT PROJECT**

ATTACHMENT E

**PORTAGE COUNTY SOIL AND WATER CONSERVATION DISTRICT
STORM WATER POLLUTION PREVENTION PLAN SUBMITTAL**

October 5, 2018

BY FED-EX

Eric Long
Portage County Soil and Water Conservation District
6970 State Route 88
Ravenna, Ohio 44266

RE: The East Ohio Gas Company, Pipeline Infrastructure Replacement Program
Portage County Stormwater Management Project Review Request
PIR 2452 – Lakewood & Hommon Project

Dear Mr. Long:

The East Ohio Gas Company, d/b/a Dominion Energy Ohio (DEO), requests review of the following information regarding the Pipeline Infrastructure Replacement (PIR) project, PIR 2452 – Lakewood & Hommon. DEO is proposing to replace natural gas pipeline under the PIR Program.

One (1) copy of the following documents are included for your review:

- PIR 2452 Storm Water Pollution Prevention Plan (SWPPP) (Attachment 1)
- Ohio EPA General Permit OHC000005 NOI Documentation (Attachment 2)

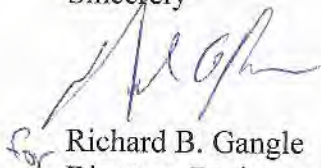
The Ohio EPA construction storm water permit documentation included as Attachment 2 was generated from the online permit submission portal. DEO anticipates submitting the online permit request to the agency in the near future. The issued Ohio EPA construction storm water permit will be forwarded to your attention upon receipt.

Please forward your response at your earliest possible convenience to the attention of:

Greg Eastridge, Environmental Specialist
320 Springside Drive, Suite 320
Akron, Ohio 44333
Gregory.K.Eastridge@dominionenergy.com

If you have any questions or need additional information, please contact Greg Eastridge (330) 664-2576.

Sincerely



for Richard B. Gangle
Director, Environmental Services

Enclosures/cc: Greg Eastridge



**Dominion
Energy®**

**OHIO GENERAL PERMIT AUTHORIZATION FOR STORMWATER
DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER
THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)**

**The East Ohio Gas Company, d/b/a Dominion Energy Ohio
Stormwater Pollution Prevention Plan (SWP3)**

**PIR 2452 – LAKEWOOD & HOMMON
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO**

Planned Construction Start Date: 2019

Planned Construction Completion Date: 2019

Construction Supervisor: _____

Telephone: _____

Project Manager (signature): _____

Construction Contractor (signature): _____

Environmental Inspector (signature): _____

Note:

**THIS PLAN MUST BE KEPT AT THE
CONSTRUCTION SITE DURING WORKING HOURS**

**SWP3 Prepared: October 8, 2018
Prepared by: Civil & Environmental Consultants, Inc.**

CERTIFICATIONS

Owner/Developer Certification (must be signed by president, vice-president or equivalent or ranking elected official)

I certify under penalty of law that this document and 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.

Signature

Date

Printed Name

Title

If authorization is no longer accurate because of a different individual or position has responsibility for the overall operation of the Project, a new authorization must be submitted to the Director prior to, or together with any reports, information, or applications to be signed by an authorized representative.

Contractor(s) Certification (must be signed by president, vice-president or equivalent or ranking elected official)

I certify under penalty of law that I have reviewed this document, attachments, and the SWP3 referenced above. Based on my inquiry of the construction site owner/developer identified above, and/or my inquiry of the person directly responsible for assembling this SWP3, I believe the information submitted is accurate. I am aware that this SWP3, if approved, makes the above-described construction activity subject to the Ohio NPDES General Permit, and that certain activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations and for failure to comply with these permit requirements.

Primary Contractor Name

Primary Contractor Address

Signature

Date

Printed Name

Title

Subcontractor Name

Subcontractor Address

Signature

Date

Printed Name

Title

**OHIO GENERAL PERMIT AUTHORIZATION FOR STORMWATER
DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER
THE NPDES STORMWATER POLLUTION PREVENTION PLAN**

**THE EAST OHIO GAS COMPANY, d/b/a DOMINION ENERGY OHIO
PIR 2452 – LAKEWOOD & HOMMON
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO**

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LIST OF DEFINITIONS

BMP	Best Management Practice
C&DD	Construction and Demolition Debris
CWA	Clean Water Act
Director	the Director of the Ohio Environmental Protection Agency
E&S	Erosion and Sediment
EDv	Extended Detention Volume
EPA	Environmental Protection Agency
General Permit	General Permit for Stormwater Discharges Associated with Construction Activities Under the National Pollutant Discharge Elimination System Permit No. OHC000005, effective April 23,2018, expires April 22, 2023
HUC14	Fourteen-Digit Hydrologic Unit Code
MS4	Municipal Separate Storm Sewer System
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
OAC	Ohio Administrative Code
ORAM	Ohio Rapid Assessment Method
ORC	Ohio Revised Code
PCSM	Post-Construction Stormwater Management
PTI	Permit to Install
SPCC	Spill Prevention Control and Countermeasures
SWP3	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
TSS	Total Suspended Solids
VAP	Voluntary Action Program
WQv	Water Quality Volume

EXECUTIVE SUMMARY

The purpose of this Stormwater Pollution Prevention Plan (SWP3) is to present procedures that will be followed during construction activities to minimize adverse impacts due to sedimentation and potential environmental pollutants resulting from stormwater runoff and to reduce sediment and environmental pollutant runoff after Project completion. This SWP3 sets forth procedures to be followed during construction activities for The East Ohio Gas Company, d/b/a Dominion Energy Ohio (Dominion Energy), Pipeline Infrastructure Replacement (PIR) project, PIR 2452-Lakewood & Hommon (Project), located in Ravenna Township, Portage County, Ohio. The procedures developed in this plan must be implemented throughout the duration of the Project.

Dominion Energy will be responsible for the development, implementation, and enforcement of this plan. Dominion Energy personnel may designate qualified representatives such as environmental inspectors or contractors to ensure the provisions of this permit are properly employed.

This document was prepared in accordance with the following documents: Ohio Department of Natural Resources, Division of Soil and Water Conservation. "Rainwater and Land Development" Manual Third Edition 2006. Updated 11-6-14, Ohio Environmental Protection Agency (EPA), Authorization for Stormwater Discharges Associated with Construction Activity Under the National Pollutant Discharge Elimination System Permit OHC000005, and Ohio EPA Stormwater Program Website. <http://www.epa.state.oh.us/dsw/storm/index.aspx>.

This plan covers new and existing discharges composed entirely of stormwater discharges associated with construction activity that enter surface waters of the State or a storm drain leading to surface waters of the State. Construction activities include clearing, grading, excavating, grubbing and/or filling activities that disturb one (1) or more acres of land.

1.0 PERMIT REQUIREMENTS

The purpose of this SWP3 is to present procedures that will be followed during construction activities to minimize adverse impacts due to sedimentation resulting from stormwater runoff and to reduce sediment runoff after Project completion. Operators who intend to obtain initial coverage for a stormwater discharge associated with construction activity under this General Permit Authorization for Stormwater Discharges Associated with Construction Activity Under the National Pollutant Discharge Elimination System (NPDES), Ohio EPA Permit Number OHC000005 (effective April 23, 2018 and expires April 20, 2023 (General Permit)) must submit a complete and accurate Notice of Intent (NOI) application form and appropriate fee at least 21 days prior to the commencement of construction activity. The completed NOI application is provided in Appendix I.

Dominion Energy must make NOIs and SWP3s available upon request of the Director of Ohio EPA; local agencies approving sediment and erosion control plans, grading plans or stormwater management plans; local governmental officials, or operators of municipal separate storm sewer systems (MS4s) receiving drainage from the permitted site.

2.0 STORMWATER POLLUTION PREVENTION PLAN

This SWP3 was 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 stormwater management practices addressing the phases of construction. This SWP3 was prepared by Dominion Energy and Civil & Environmental Consultants, Inc. (CEC).

This SWP3 has identified potential sources of pollution which may reasonably be expected to affect the quality of stormwater discharges associated with construction activities. This SWP3 describes and ensures the implementation of Best Management Practices (BMPs) that reduce the pollutants in stormwater discharges during construction and pollutants associated with post-construction activities to ensure compliance with Ohio Revised Code (ORC) Section 6111.04, Ohio Administrative Code (OAC) Chapter 3745-1 and the terms and conditions of the General Permit. In addition, the SWP3 must conform to the specifications of the Ohio Rainwater and Land Development Manual.

Plan Availability

Dominion Energy must provide a copy of this SWP3 within seven (7) days upon written request by the following: The Director or the Director's authorized representative; a local agency approving sediment and erosion plans, grading plans or stormwater management plans; or; in the case of a stormwater discharge associated with construction activity which discharges through a MS4 with an NPDES permit, to the operator of the system. A copy of the NOI and letter granting permit coverage under this General Permit must also be made available at the site.

NOIs, General Permit approval for coverage letters, and SWP3s are considered reports that must be available to the public in accordance with the Ohio Public Records law. Dominion Energy must make documents available to the public upon request or provide a copy at public expense, at cost, in a timely manner. However, Dominion Energy may claim to Ohio EPA any portion of a SWP3 as confidential in accordance with Ohio law.

Plan Revisions and Amendments.

The Director or authorized representative, and/or regulatory authority associated with approval of this plan, may notify Dominion Energy at any time that the SWP3 does not meet one (1) or more of the minimum requirements. Within ten (10) days after such notification from the Director (or as otherwise provided in the notification) or authorized representative, and/or regulatory authority associated with approval of this plan, Dominion Energy must make the required changes to the SWP3 and, if requested, must submit to Ohio EPA, and/or other regulatory authority, the revised SWP3 or a written certification that the requested changes have been made. Dominion Energy must also amend the SWP3 whenever there is a change in site design, construction, operation, or maintenance that requires the installation of BMPs or modifications to existing BMPs.

Duty to Inform Contractors and Subcontractors.

Dominion Energy must inform contractors and subcontractors who will be involved in the implementation of the SWP3, of the terms and conditions of the General Permit and/or other approval from a regulatory authority. Dominion Energy must maintain a written document containing the signatures of 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 must be created and signatures of each individual contractor must be obtained prior to their commencement of work on the construction site. Certification statements for contractors and subcontractors can be found at the beginning of this document.

2.1 SITE/PROJECT DESCRIPTION AND LOCATION/SETTING

Dominion Energy is proposing to replace 0.90 miles (approximately 4,518 linear feet) of existing high-pressure pipeline with 12-inch diameter high-pressure steel pipeline under the PIR Program. The purpose of this program is to replace existing bare steel pipe to ensure safety and reliability of pipeline operations. The site overview and site location maps included in Appendix A depict the location of the Project in relation to nearby roads, surface waters, and other notable geographic features.

The PIR 2452 project is located within Ravenna Township, Portage County, Ohio. The project area is located mostly along an off-road easement which crosses Lakewood Road, and Hommon Road. At intersections of streets with no proposed mainline replacement, small portions of pipeline may be installed to “tie in” the new pipeline to existing pipelines. The need for additional laydown and/or material storage areas will be determined by the selected construction contractor. Access to the project area will be accomplished using existing roadways.

The Project is expected to disturb approximately 6.2 acres due to clearing and grubbing (where necessary), excavation, filling, grading, and installation of erosion control measures. This disturbance will be conducted in phases. The pipeline replacement is to be confined to a sixty (60)-foot wide construction corridor for the entire project length. This pipeline replacement project involves “lift and lay” construction (replacement in place) or offsetting the pipeline mostly within existing Dominion Energy easements and/or road right-of-way (ROW). The scope of work is to install natural gas pipeline only; no other utilities will be constructed. Along any portions of abandoned pipeline, small areas of excavation will occur to allow the line to be purged and cut and capped. The construction of new buildings, roads, or parking facilities, is not included in the scope of work.

The project area is characterized by a residential, recreational property in a rural/suburban setting. One (1) stream and six (6) wetlands were identified within or near the project area. Breakneck Creek is proposed to be crossed by the pipeline via horizontal directional drilling (HDD), no impacts are anticipated. Wetlands 1, 2A and 3 will be crossed by the pipeline via HDD, no impacts are anticipated by pipeline installation. Wetlands 6, 2B and 4 are positioned beyond the expected area of disturbance and will be avoided. Wetland 5 will be crossed by the pipeline via open-cut trench.

2.2 PRE-CONSTRUCTION AND POST-CONSTRUCTION SITE CONDITIONS

New impervious surfaces will not be created. The Project will essentially result in no permanent change in land use or land cover and; therefore, is not expected to result in an increase in runoff. Areas disturbed by the Project will be restored to their pre-construction material, condition, and contours; therefore, the calculation of runoff coefficients for pre-construction vs. post-construction conditions is not warranted or applicable to this linear Project.

2.3 EXISTING SOIL DATA

The United States Department of Agriculture, Natural Resources Conservation Service (NRCS) Soil Survey was utilized to identify soil map units within the Project site. The primary soils types located within the Project include(s): CnB - Chili loam, 2 to 6 percent slopes; CoC2 - Chili gravelly loam, 6 to 12 percent slopes, moderately eroded; CtD - Chili-Oshtemo complex, 12 to 18 percent slopes; FcB - Fitchville silt loam, 2 to 6 percent slopes; HaB - Haskins loam, 2 to 6 percent slopes; RmA - Remsen silt loam, 0 to 2 percent slopes; RmB - Remsen silt loam, 2 to 6 percent slopes; RsB - Rittman silt loam, 2 to 6 percent slopes; RsC - Rittman silt loam, 6 to 12 percent slopes; Sb - Sebring silt loam; WaB - Wadsworth silt loam, 2 to 6 percent slopes. A copy of the Soil Survey for the Project and a table identifying the soil types and characteristics (drainage capacity, depth to water table, K factor rating, etc.) are provided in **Appendix B**.

2.4 STEEP SLOPES

The project area does exhibit steep/critical slopes. At those areas exhibiting steep/critical slopes, erosion and sediment controls appropriate for use, were selected.

2.5 PRIOR LAND USES

Prior land uses for the Project site includes rural/suburban areas with land covers that include residential, recreational, and undeveloped properties with manicured lawns, paved roads, early successional habitat, mixed first and second growth forest, and open waterbodies.

2.6 RECEIVING STREAMS OR SURFACE WATERS

The Project is located within the Feeder Canal-Breakneck Creek watershed [hydrologic unit code (HUC-12) 041100020202] and is expected to cross one (1) perennial stream (Breakneck Creek). A map depicting where the project is located within a watershed setting is included in **Appendix A**. Rivers, streams, wetlands, and significant ponds or ditches crossed by the Project have been included on the maps in **Appendix C**.

The Project is located in an area served by an MS4 managed by Portage County. Breakneck Creek is the closest named stream to the Project, and is within the Project area. This waterway is impaired for human health and aquatic life uses. Causes of this impairment include habitat alterations, flow alterations, sedimentation and siltation, organic enrichment, low dissolved oxygen, and unknown toxicity, as well as other unknown causes.

Dedicated asphalt and/or concrete batch plant discharges covered by the NPDES construction stormwater General Permit is not applicable to this Project.

2.7 IMPLEMENTATION SCHEDULE

A general implementation schedule providing the sequence of major construction operations is provided below. Construction activities are expected to be initiated and completed in the first half of 2019. The specific start date will be determined by the receipt of applicable permits and the selected construction contractors' schedule. The completion date may be affected by weather conditions. Once land disturbing activities have been completed, the site must be permanently stabilized. Throughout the life of the Project, construction logs must be kept to record major dates of grading, excavating, and stabilizing.

1 - SITE PREPARATION FOR ENTIRE PROJECT (TBD)

- Mobilization.
- Survey and stake existing pipeline and limits of construction.
- Flag/field mark wetland areas, as necessary.
- Installation/improvement to construction entrances, and installation of silt fence or other BMPs designated to control stormwater at the project boundary.
- Install gravel on dirt roads, and fill-in rutted areas on existing gravel roads.

2 - SITE PREPARATION FOR EACH JOB (TBD)

- Install BMPs (see Section 3.0) for access roads/equipment crossings at stream crossings and wetland crossings.
- Begin clearing and grubbing of the site.
- Install temporary runoff controls and erosion control devices where needed.
- Conduct grading activities, as needed.
- Monitor erosion and sediment controls.

3 - MAJOR CONSTRUCTION ACTIVITIES (TBD)

- Excavation.
- Implement BMPs (See Section 3.0) for dewatering (if required).

- Monitor erosion and sediment controls.

4 - RESTORATION (TBD)

- Restore grade to preconstruction contours and install permanent runoff controls, where needed.
- Apply seed and mulch to disturbed upland areas.
- Install erosion control blankets or turf matting on steep slopes.
- Monitor erosion and sediment controls.

5 - POST-CONSTRUCTION MONITORING (On-going until 70 percent cover reached)

- Monitor adequacy of erosion control practices.
- After permanent stabilization is achieved, remove temporary erosion and sediment controls and runoff controls once 70 percent uniform vegetative growth is achieved.
- Submit Notice of Termination.

2.8 SITE MAPPING

Project site location maps are provided in **Appendix A**. The Soil Survey map for the Project is provided in **Appendix B**. The project specific erosion and sediment control location drawings (in **Appendix C**) depict the limits of earth-disturbing activity, existing and proposed contours, surface water locations and locations of in-stream activities, relation to existing buildings, roads, and utilities, the location of erosion and sediment control measures including basins, the location of permanent stormwater management controls including basins, areas designated for disposal and storage, as well as, location of construction entrances. The site drawing checklist and logs are included in **Appendix D**. Typical drawings for sediment and erosion controls and post-construction stormwater management practices are also included in **Appendices F through H**.

3.0 CONTROLS

To the extent practicable, the locations of temporary and permanent stormwater BMPs to be implemented for the Project site are shown on the drawings provided in **Appendix C**. The BMPs will be implemented in accordance with the Typical Drawings provided in **Appendices F, G, and H**. The erosion, sediment, and stormwater management practices to be implemented are in accordance with the standards and specification in the current edition of Ohio's Standards for Stormwater Management, Land Development and Urban Stream Protection, Rainwater and Land Development Manual, Third Edition 2006 updated November 6, 2014.

3.1 PRESERVATION METHODS

To preserve the existing natural condition as feasible, the Project will avoid clearing and grubbing where feasible, minimize the amount of soil and vegetation disturbances by phasing construction operations, and minimize disturbances to surface waters. The recommended buffer along surface water of the state to be undisturbed is fifty (50) feet measured from the ordinary high water mark of the surface water.

Separation of the topsoil from the subsoil will generally be performed at wetlands, streams, residential properties, and agricultural lands. The backfill material returned to the excavation will consist of the same material removed from the excavation, to the extent practicable.

The total area of the project area is 7.8 acres; and of this 6.2 acres will be temporarily disturbed. The 6.2 acres will be disturbed in phases.

3.2 EROSION CONTROL PRACTICES

Erosion control measures provide cover over disturbed soils in order to minimize erosion. Disturbed areas must be stabilized after construction activities. Separation of the topsoil from the subsoil will generally be performed at wetlands, streams, residential properties, and agricultural lands. The backfill material returned to the excavation will consist of the same material removed from the excavation, to the extent practicable. Erosion control measures likely employed for the Project include: clearing and grubbing, construction entrances, dust control, topsoiling, temporary seeding, mulching, permanent seeding, and sodding. Erosion Control Measures will be in accordance with the Rainwater and Land Development Manual. Typical drawings for these erosion control measures are provided in **Appendix F**.

Permanent stabilization is defined as 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 (1) year.

Temporary stabilization is defined as 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.

Final stabilization is defined and achieved when soil disturbing activities at the site are complete and disturbed surfaces are covered with new structures, pavement, a uniform perennial vegetative cover (e.g., evenly distributed, without large bare areas) with a density of at least seventy (70) percent cover, or other equivalent stabilization measures (such as the use of landscape mulches, rip-rap, gabions or geotextiles) have been employed. In addition, temporary erosion and sediment control practices are removed and disposed of and trapped sediment is permanently stabilized to prevent further erosion.

Disturbed areas will be stabilized following completion of construction activities as specified in **Tables 1 and 2** below and in accordance with the site layout maps and detail sheets provided in **Appendix C**.

Table 1: Permanent Stabilization

Area Requiring Permanent Stabilization	Time Frame to Apply Erosion Controls
Areas that will lie dormant for one (1) year or more.	Within seven (7) days of the most recent disturbance.
Areas within 50 feet of a surface water of the State and at final grade.	Within two (2) days of reaching final grade.
Other areas at final grade.	Within seven (7) days of reaching final grade within that area.

Table 2: Temporary Stabilization

Area Requiring Temporary Stabilization	Time Frame to Apply Erosion Controls
Disturbed areas within 50 feet of a surface water of the State and not at final grade.	Within two (2) days of the most recent disturbance if the area will remain idle for more than fourteen (14) days.
For construction activities, disturbed areas that will be dormant for more than fourteen (14) days but less than one (1) year, and not within 50 feet of a surface water of the State.	Within seven (7) days of the most recent disturbance within the area. For residential subdivisions, disturbed areas must be stabilized at least seven (7) 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.

Clearing and Grubbing: Clearing and grubbing is the removal of trees, brush, and other unwanted material in order to develop land for other uses or provide access for site work. Clearing generally describes the cutting and removal of above ground material, while grubbing is the removal of roots, stumps, and other unwanted material below existing grade. Clearing and grubbing includes the proper disposal of materials and the implementation of BMPs in order to minimize exposure of soil to erosion and causing downstream sedimentation.

Construction Entrance: A construction entrance is a method of erosion control that is used to reduce the amount of mud tracked off-site with construction traffic. A construction entrance is a stabilized pad of stone underlain with a geotextile. These entrances are located at points of ingress/egress of construction traffic.

Dust Control: Dust control is a method of erosion control that involves preventing or reducing dust from exposed soils or other sources during land disturbing, demolition, and construction activities to reduce the presence of airborne substances which may present health hazards, traffic safety problems, or harm animal or plant life.

Mulching: Mulching is a temporary or permanent method of erosion control used to protect exposed soil or freshly seeded areas from the direct impact of precipitation by providing a temporary surface cover. Mulch also helps establish vegetation by conserving moisture and creating favorable conditions for seeds to germinate. Mulch must be used liberally throughout construction to limit the areas that are bare and susceptible to erosion. Mulch can be used in conjunction with seeding to establish vegetation or by itself to provide erosion control when the season does not allow grass to grow. Mulch and other vegetative practices must be applied on disturbed portions of construction-sites that will not be re-disturbed for more than fourteen (14) days.

Permanent Seeding: Permanent seeding is a method of erosion control used to permanently stabilize soil on construction sites where land-disturbing activities, exposed soil, and work has been completed or is not scheduled for more than twelve (12) months. Permanent seeding must be applied to disturbed areas or portions of construction sites at final grade. Permanent seeding must not be delayed on one portion of the site at final grade while construction on another portion of the site is being completed. Permanent seeding must be completed in phases, if necessary. Permanent vegetation is used to stabilize soil, reduce erosion, prevent sediment pollution, reduce runoff by promoting infiltration, and provide stormwater quality benefits offered by dense grass cover.

Sodding: Sodding is a method of erosion control that utilizes rolls or mats of turf grass to provide immediate stabilization to bare soils. It is especially useful in highly erosive areas such as drainage ways and on slopes that will be mowed. Sod may be used where immediate cover is required or preferred and where vegetation will be adequate stabilization such as minor swales, around drop inlets, and lawns.

Temporary Seeding: Temporary seeding is a method of erosion control used to temporarily and quickly stabilize soil on construction sites where land-disturbing activities have been initiated but not completed. Appropriate rapidly growing annual grasses or small grains must be planted on the disturbed areas. Temporary seeding effectively minimizes the area of a construction site prone to erosion and must be used everywhere the sequence of construction operations allows vegetation to be established. Temporary seeding must be applied on exposed soil where additional work (grading, etc.) is not scheduled for more than fourteen (14) days. Mixes to be applied are specific to the time of year the seeding will take place and the location of the Project within the state.

Topsoiling: During grading operations, topsoil and the upper most organic layer of soil will be stripped and stockpiled and then subsequently replaced on the newly graded areas. Topsoil provides a more suitable growing medium than subsoil or on areas with poor moisture, low nutrient levels, undesirable pH, or in the presence of other materials that would inhibit

establishment of vegetation. Replacing topsoil helps plant growth by improving the water holding capacity, nutrient content, and consistency of the soils.

3.3 RUNOFF CONTROL PRACTICES

Temporary and permanent runoff control is important on development sites to minimize on-site erosion and to prevent off-site sediment discharge. Runoff control methods likely implemented for this Project include dewatering measures and water bars. Runoff control measures will be in accordance with Chapter 4 and 5 of the Rainwater and Land Development Manual.

Dewatering Measures. Dewatering consists of providing an area for receiving and treating water pumped from excavation or work areas prior to being released off the site, such as desilting basins or sediment traps. For project areas without these detention features, dewatering typically consists of the use of filter devices (e.g. filter bags) to treat and release water removed from excavation. Filter bags should discharge to an upland location if possible. These practices reduce sediment impacts to downstream water resources.

Waterbar. A waterbar is a diversion constructed across the slope of an access road or utility right-of-way. Waterbars are used to reduce concentrated runoff on unpaved road surfaces, thus reducing water accumulation and erosion gullies from occurring. Waterbars divert runoff to road side swales, vegetated areas, or settling ponds.

3.4 SURFACE WATER PROTECTION

The Project area contains streams and wetlands. These waters must be protected by avoiding crossing of streams and wetlands where feasible and using sediment and erosion control practices to prevent sediment-laden runoff from reaching the surface waters.

Surface Waters of the State Protection. If construction activities disturb areas adjacent to surface waters of the State, structural practices must be designed and implemented onsite to protect 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) must be used in a surface water of the State. For construction activities immediately adjacent to surface waters of the State, it is recommended that a setback of at least fifty (50) feet, as measured from the ordinary high water mark of the surface water, be maintained in its natural state as a permanent buffer.

Where impacts within this setback area are unavoidable due to the nature of the construction activity (e.g., stream crossings for roads or utilities), the Project must be designed such that the number of stream crossings and the width of the disturbance within the setback area are minimized.

In order to minimize the amount of disturbance and sedimentation caused by work at stream and wetland crossings, every effort will be made to minimize impacts. Movement across waters will be limited to necessary equipment only. BMPs for vehicle crossing of streams and wetlands will be utilized when practical. Dominion Energy will employ a typical temporary equipment crossing at each crossing location. These crossing methods are found on the typical drawings in

Appendix G and H. Any stream crossings will be restored to pre-construction grades, contours, and substrate material, and banks will be revegetated and stabilized. Similarly, any wetland crossings will be restored to pre-construction grades, contours, and, when feasible, vegetation type. Dominion Energy will obtain necessary stream and wetland crossing permits from federal and state regulatory agencies. Summaries of the onsite surface waters and impacts are provided in **Table 3 and 4.**

Surface Water Utility Crossing. Surface water utility crossings include pipeline, power line, or road construction projects that cross streams rivers, or wetlands. Measures used to minimize damage from the construction of utilities across streams and wetlands start in the planning stages of a project and continue through site restoration.

Temporary Surface Water Crossing. A temporary surface water crossing provides construction traffic temporary access across a surface water while reducing the amount of disturbance and sediment pollution. It is a temporary practice which includes restoring the crossing area after construction. The typical kinds of surface water crossings are: bridges, timber mats, culverts and fords. Each has specific applications and each is designed to minimize surface water damage by leaving wetland areas and stream banks stable and vegetated.

Breakneck Creek is a perennial stream located within the project area, south of the pipeline replacement's crossing at Lakewood Drive. The substrate of this stream includes cobble, gravel and artificial materials. The OHWM measurements of Breakneck Creek were approximately eighty (80) feet wide and approximately four (4) feet in depth. The Ohio EPA does not list Breakneck Creek as a Section 401/Antidegradation stream.

Table 3: Summary of Onsite Streams/Rivers

Stream ID	Stream Length (lf) within Project Area/60-Foot Easement	Bankfull Width (feet)	Flow Regime	Substrate Type(s)	Designation/ Classification	Crossing Method ¹	Impacts - Upstream to Downstream Length ² (lf)	Impacts- Trench Crossing Length (lf)
Breakneck Creek	Left Descending Bank - 65	80	Perennial	Cobble, gravel and sand	Class II	HDD	0	N/A

Note:

- 1 Project Managers must approve changes to crossing methods.
- 2 Impact area based on 60-foot construction corridor within streams.

Table 4: Summary of Onsite Wetlands

Wetland ID	Vegetation Cover Type within Project Area/60-Foot Easement	Acreage within Project Area/ Easement	ORAM ¹ Category	Crossing Method ²	Impact Area ³ (acres)	Trench Crossing Length (LF)
1	PEM	0.004	1	HDD	0	0
2A	PSS	0	3	HDD	0	0
2B	PFO	0	3	N/A	0	0
3	PEM	0	2	HDD	0	0
	PEM					
	PFO					
4	PUB	0	1	N/A	0	0
5	PEM	0.03	1	Open-Cut Trench	0.03	0.03
7	PEM	0	1	N/A	0	0

Notes:

- 1 Ohio Rapid Assessment Method
- 2 Project Managers must approve changes to crossing methods.
- 3 Impact area based on 60-foot construction corridor within wetlands.

3.5 WETLAND PRACTICES

Concentrated stormwater runoff from proposed BMPs to natural wetlands must be converted to diffuse flow before the runoff enters the wetlands. The flow must 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 stormwater features and natural wetlands, in order to protect the natural hydrology, hydroperiod, and wetland flora. If Dominion Energy proposes to discharge to natural wetlands, a hydrologic analysis must be performed. Dominion Energy must attempt to match the pre-development hydroperiods and hydrodynamics that support the wetland. Dominion Energy must 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.

3.6 SEDIMENT CONTROL PRACTICES

Project activities will occur within the areas indicated on site drawings in **Appendix C**. Sediment Control Devices will match those indicated on the mapping in **Appendix C**. Minor adjustments to control devices (type, location, etc.) deemed necessary to maintain compliance can be made on the project mapping. The location of laydown and/or material storage areas will be determined in the field upon discussion with the selected construction contractor and will be noted on the project site drawings at that time. The “Site Drawing Checklist” (**Appendix D**) will be completed, verifying the inclusion of these features or minor adjustments. Necessary

mainline to mainline tie-ins (at intersections with streets with no proposed mainline replacement) will also be noted on the drawings. Construction activities for this Project will be limited to an area of disturbance of 6.2 acres. Sediment Control Practices must treat runoff allowing sediments to settle and/or divert flows away from exposed soils or otherwise limit runoff from exposed areas. Structural practices must be used to control erosion and trap sediment from a disturbed site. Methods of control that may be used include, among others: silt fence, storm drain inlet protection, filter socks, and trench plugs. 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. Sediment Controls must be designed, installed, and maintained in accordance with the requirements set forth in Chapter 6 of the Ohio Rainwater and Land Development Manual, and/or Ohio General Permit OHC000005. Dominion Energy discourages the use of haybales unless utilized as a secondary treatment element in conjunction with another erosion and sediment control(s) and only if approved by Dominion Energy.

Timing. Sediment control structures must be functional throughout the course of earth disturbing activity. Sediment basins and perimeter sediment barriers must be implemented prior to grading and within seven (7) days from the start of grubbing. Sediment control structures must continue to function until the up-slope development area is restabilized. As construction progresses and the topography is altered, appropriate controls must be constructed or existing controls altered to address the changing drainage patterns.

Silt Fence. Silt fence is a temporary method of sediment control that is used in sheet-flow areas to encourage the ponding of runoff and settling of sediments. It consists of a geotextile fabric secured to wood or steel posts that have been trenched into the ground. It is installed downslope of the disturbed area, installed along slopes, at bases of slopes on a level contour, and around the perimeter of a site as a final barrier to sediment being carried off site. Maximum drainage area and slopes must be considered when determining the appropriateness of silt fence. Silt fence is removed after permanent vegetation is established.

Silt fence must be installed where indicated on the site drawings and as needed throughout the Project site where construction activity is likely to cause sediment-laden runoff to be carried offsite and into downstream surface waters. After construction is completed and the Project site has been permanently stabilized, silt fence must be removed and disposed of at an appropriate offsite disposal facility.

Placing silt fence in a parallel series does not extend the size of the drainage area. Stormwater diversion practices must be used to keep runoff away from disturbed areas and steep slopes where practicable. Such devices, which include swales, dikes or berms, may receive stormwater runoff from areas up to ten (10) acres.

See the silt fence detail located in **Appendix F** (for additional information on proper installation procedures).

Inlet Protection. Storm drain inlet protection devices remove sediment from stormwater before it enters storm sewers and downstream areas. Inlet protection devices may consist of washed

gravel or crushed stone, geotextile fabrics, and other materials that are supported around or across storm drain inlets. Inlet protection is installed to capture some sediment and reduce the maintenance of storm sewers and other underground piping systems prior to the site being stabilized. Due to their poor effectiveness, inlet protection is considered a secondary sediment control to be used in conjunction with other more effective controls. Other erosion and sediment control practices must minimize sediment laden water entering active storm drain systems, unless the storm drain system drains to a sediment settling pond. Generally inlet protection is limited to areas draining less than one (1) acre; areas of one or more acres will require a sediment settling pond.

Filter Sock. Filter socks are sediment-trapping devices using compost inserted into a flexible, permeable tube. Filter socks trap sediment by filtering water passing through the berm and allowing water to pond, creating a settling of solids. Filter socks may be a preferred alternative where equipment may drive near or over sediment barriers, as they are not as prone to complete failure as silt fence if this occurs during construction. Driving over filter socks is not recommended; however, if it should occur, the filter sock must be inspected immediately, repaired, and moved back into place as soon as possible. Typically, filter socks can handle the same water flow or slightly more than silt fence. For most applications, standard silt fence is replaced with twelve (12)-inch diameter filter socks.

Trench Plugs. Trench Plugs are required at each side of streams and wetlands crossings completed by trenching, regardless of trench slope. These requirements supplement EOG's general construction practice for the placement of plugs in trenches on steep slopes. Trench plugs will also be installed if it is determined that flooding at the low point elevation of a pipeline will adversely affect the adjacent property. Installation will be in accordance with the details depicted in **Detail F-5** and **Table 5** below.

Table 5: Required Spacing and Materials for Trench Plugs

Trench Slope (%)	Spacing (ft)	Plug Material
< 5	*	*
5 – 15	500	Sand or Earth** Filled Sacks
15 – 25	300	Sand or Earth** Filled Sacks
25 – 35	200	Sand or Earth** Filled Sacks
35 – 100	100	Sand or Earth** Filled Sacks
> 100	50	Cement Filled Bags (Wetted) or Mortared Stone

* Trench Plugs are required at each side of the stream, river or water-body crossings completed by trenching, regardless of trench slope; otherwise not required.

** Topsoil may not be used to fill sacks.

Modifying Controls. If periodic inspections or other information indicates a control has been used inappropriately or incorrectly, Dominion Energy must replace or modify the control for site conditions

3.7 POST-CONSTRUCTION STORMWATER MANAGEMENT (PCSM)

The proposed disturbance associated with this linear Project is temporary; therefore, no permanent stormwater structures will be required. The Project area will be restored to original contours and re-vegetated. No impervious areas will be created for this Project.

3.8 OTHER CONTROLS

In some instances a non-sediment pollutant source may become present on the Project site and pollution controls may be required.

Non-Sediment Pollutant Controls

Handling of Toxic or Hazardous Materials. Construction personnel, including subcontractors who may use or handle hazardous or toxic materials, must be made aware of the general guidelines regarding management and disposal of toxic or hazardous construction wastes. This can be accomplished by training for construction personnel by the Contractor or by Dominion Energy.

Waste Disposal. Containers (e.g., dumpsters, drums) must be available for the proper collection of waste material including construction debris, sanitary garbage, petroleum products, and hazardous materials to be used on-site. Containers must be covered, as required, and not leaking. Waste material must be disposed of at facilities approved by the Ohio EPA for that material. Ensure storage time frames are not exceeded.

Clean Hard Fill. No Construction related waste materials are to be buried on-site. By exception, clean fill (clean bricks, hardened concrete, and soil) may be utilized in a way which does not encroach upon natural wetlands, streams, or floodplains or result in the contamination of waters.

Construction and Demolition Debris (C&DD). C&DD waste will be disposed of in an Ohio EPA permitted C&DD landfill as required by ORC 3714 and approved by Dominion Energy.

Construction Chemical Compounds. Storing, mixing, pumping, transferring or other handling of construction chemicals such as fertilizer, lime, asphalt, concrete drying compounds, and other potentially hazardous materials must be done in an area away from waterbody, ditch, or storm drain.

Equipment Fueling and Maintenance. Oil changing, equipment refueling, maintenance on hydraulic systems, etc., must be performed away from waterbodies, ditches, or storm drains, and in an area designated for that purpose. The designated area must be equipped for recycling oil and catching spills. Secondary containment must be provided for fuel and oil storage tanks. These areas must be inspected every seven (7) days and within 24 hours of a one-half (0.5)-inch or greater rain event to ensure there are no exposed materials which would contaminate stormwater. Site operators must be aware that Spill Prevention Control and Countermeasures (SPCC) requirements may apply. An SPCC plan is required for sites with accumulative aboveground storage of 1,320 gallons or more, or 42,000 gallons of underground storage.

No detergent may be used to wash vehicles. Wash waters will be treated in a sediment basin or alternative control which provides equivalent treatment prior to discharge.

Concrete Wash Water and Wash Outs. Concrete wash water must not be allowed to flow to streams, ditches, storm drains, or other water conveyance. A lined sump or pit with no potential for discharge must be constructed if needed to contain concrete wash water. Field tile (agricultural drain tiles) or other subsurface drainage structures within ten (10) feet of the concrete sump or wash pit must be cut and plugged. Concrete wash water is wastewater and thus is not permitted to be discharged under the provisions of Ohio EPA's Construction General Permit which only allows the discharge of stormwater. Concrete washout details are located in **Appendix J**. The location for concrete washout will be determined in the field as necessary.

Spill Reporting Requirements. In the event of a spill of a regulated or hazardous material, immediately contact the Dominion Energy ECC assigned to the site or Project. The Dominion Energy ECC (if Dominion Energy ECC not available, other Dominion Energy Environmental staff) will coordinate spill reporting to the appropriate agencies. Spills on pavement must be absorbed with sawdust, kitty litter or other absorbent material. Spills to land require excavation of the contaminated material. Wastes generated from spill cleanup must be disposed of in accordance with applicable Federal, State, and Local waste regulations. Hazardous or industrial wastes including, but not limited to, most solvents, gasoline, oil-based paints, oil, grease, battery acid, muriatic acid, and cement curing compounds require special handling¹. Spills must be reported to Ohio EPA (1-800-282-9378). Spills of 25 gallons or more of petroleum products must be reported to Ohio EPA (1-800-282-9378), the local fire department, and the Local Emergency Planning Committee within thirty (30) minutes of the discovery of the release. Spills (no matter how small), which result in contact with waters of the state, must be reported to Ohio EPA's Hotline. Spills of hazardous substances, extremely hazardous substances, petroleum, and objectionable substances that are of a quantity, type, duration, and in a location as to damage the waters of the state must be immediately reported to the Ohio EPA's Regional Environmental Coordinator.

Contaminated Soils. If substances such as oil, diesel fuel, hydraulic fluid, antifreeze, etc. are spilled, leaked, or released onto the soil, the soil must be dug up and disposed of at a licensed sanitary landfill or other approved petroleum contaminated soil remediation facility (not a construction/demolition debris landfill) which has been approved by Dominion Energy.

Open Burning. Waste disposal by open burning is prohibited by Dominion Energy.

¹ The Federal Resource Conservation and Recovery Act (RCRA) requires that wastes generated by industrial activity, including construction activities, be evaluated to determine if the waste is hazardous, non-hazardous or special wastes. Hazardous waste and special wastes have specific handling and disposal requirements which must be met to comply with RCRA. Additional information regarding the waste evaluation process and the proper handling and disposal requirements for wastes can be found in the following Dominion Guidance Documents: "Hazardous Waste Guidance", "Hazardous Waste Guidance Labeling", "Hazardous Waste Guidance Labeling-Appendix A", "Nonhazardous Waste Management", "Universal Waste Management", "Universal Waste Guidance - Appendix A - Labeling Matrix", and "Used Oil and Oil Filter Management". Consult with the DES ECC assigned to the site or project for advice.

Dust Controls/Suppressants. Dust control is required to prevent nuisance conditions. Dust controls must be used in accordance with the manufacturer's specifications and not be applied in a manner, which would result in a discharge to waters of the state. Isolation distances from bridges, catch basins, and other drainage ways must be observed. Application (excluding water) may not occur when precipitation is imminent as noted in the short term forecast. Used oil may not be applied for dust control. Watering must be done at a rate that prevents dust but does not cause soil erosion. Chemical stabilizers and adhesives must not be used, unless written permission is received from Ohio EPA.

Air Permitting Requirements. Contractors and subcontractors must be made aware that certain activities associated with construction will require air permits. Activities including, but not limited to, mobile concrete batch plants, mobile asphalt plants, concrete crushers, generators, etc., will require specific Ohio EPA Air Permits for installation and operation. Dominion Energy must seek authorization from the corresponding district of Ohio EPA for these activities. Notification for Restoration and Demolition must be submitted to Ohio EPA for commercial sites to determine if asbestos abatement actions are required.

Process Wastewater/Leachate Management. Contractors must be made aware that Ohio EPA's Construction General Permit only allows the discharge of stormwater. Other waste discharges including, but not limited to, vehicle and/or equipment washing, leachate associated with on-site waste disposal, concrete wash outs, etc. are a process wastewater. These types of wastewaters are not authorized for discharge under the General Stormwater Permit associated with Construction Activities. Process wastewaters must be collected and properly disposed at an Dominion Energy approved disposal facility. In the event there are leachate outbreaks (water that has passed through contaminated material and has acquired elevated concentrations of the contaminated material) associated with onsite disposal, measures must be taken to isolate this discharge for collection and proper disposal at an Dominion Energy approved disposal facility. Investigative measures and corrective actions must be implemented to identify and eliminate the source of leachate outbreaks.

Permit to Install (PTI) Requirements. Contractors and subcontractors must be made aware that a PTI must be submitted and approved by Ohio EPA prior to the construction of centralized sanitary systems, including sewer extensions, and sewerage systems (except those serving one (1), two (2), and three (3) family dwellings) and potable water lines. The issuance of an Ohio EPA Construction General Stormwater Permit does not authorize the installation of sewerage system where Ohio EPA has not approved a PTI. If necessary, Dominion Energy will acquire the PTI or Dominion Energy will require the contractor to acquire the PTI.

Compliance with Other Requirements. This plan is consistent with State and/or local waste disposal, sanitary sewer or septic system regulations including provisions prohibiting waste disposal by open burning. Contaminated soils are not expected to be encountered on this Project. If they are encountered within the limits of construction, they will be managed and disposed of properly by trained personnel.

Trench and Groundwater Control. There must be no turbid discharges to surface waters of the State resulting from dewatering activities. If trench or groundwater contains sediment, it must 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. Groundwater dewatering which does not contain sediment or other pollutants is not required to be treated prior to discharge. However, care must be taken when discharging groundwater to ensure that it does not become pollutant laden by traversing over disturbed soils or other pollutant sources. Discharge of contaminated groundwater is not authorized.

Contaminated Sediment. Where construction activities are to occur on sites with historical contamination, operators must be aware that concentrations of materials that meet other criteria (is not considered a Hazardous Waste, meeting VAP standards, etc.) may still result in stormwater discharges in excess of Ohio Water Quality Standards. Such discharges are not authorized and may require coverage under a separate individual or general remediation permit. Contaminated soil stockpiles shall be protected from discharges by covering the contaminated soil with a tarp or other such material which will prohibit water from coming in contact with the soils. Contaminated soils can also be removed from the site and disposed of at a Dominion Energy approved facility.

3.9 MAINTENANCE

Temporary and permanent control measures must be maintained and repaired as needed to ensure continued performance of their intended function. Sediment control measures must be maintained in a functional condition until up slope areas are permanently stabilized. The following maintenance procedures will be conducted to ensure the continued performance of control practices.

- Qualified personnel must inspect all BMPs at least once every seven (7) days and 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 determine if the SWP3 has been properly implemented. Rainfall amounts will be determined by Dominion Energy personnel or a designated representative using National Weather Service or other acceptable resources such as an on-site rain gauge.
- Maintenance or repair of BMPs must be completed by the designated contractor within three (3) days of the date of the inspection that revealed a deficiency. For sediment ponds, repair or maintenance is required within ten (10) days of the date of the inspection.
- Off-site vehicle tracking of sediments and dust generation must be minimized. Temporary construction entrances must be provided where applicable to help reduce vehicle tracking of sediment. Paved roads adjacent to the site entrance must be swept daily to remove excess mud, dirt, or rock tracked from the site, as necessary.

3.10 INSPECTIONS

The following inspection practices must be followed once site activities have commenced and erosion and sediment control measures have been installed.

- All onsite controls must be inspected by Dominion Energy personnel or a designated representative at least once every seven (7) calendar days and 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. Rainfall amounts will be determined by Dominion Energy personnel or a designated representative using National Weather Service or other acceptable resources such as an on-site rain gauge.
- Inspection frequency may be reduced to at least once every month if the entire site is temporarily stabilized or runoff is unlikely due to weather conditions (e.g., site is covered with snow, ice, or the ground is frozen). A waiver of inspection requirements is available from Ohio EPA until one (1) month before thawing conditions are expected to result in a discharge if all of the following conditions are met: the Project is located in an area where frozen conditions are anticipated to continue for extended periods of time (i.e., more than one (1) month); land disturbance activities have been suspended; and the beginning and ending dates of the waiver period are documented in the SWP3. Dominion Energy will obtain the waiver at the request of the contractor.
- Once a definable area has reached final stabilization as defined in Section 3.2 Erosion Control Areas, the area must be marked on the SWP3 and no further inspection requirements apply to that portion of the site.
- A Dominion Energy or a designated representative “qualified inspection personnel” must 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 or whether additional control measures are required.
- Following inspection, a checklist must be completed and signed by the qualified inspection personnel representative. The inspection form and checklist is provided in **Appendix K**. The record and certification must be signed in accordance with Ohio Permit OHC000005.
- Inspection reports must be maintained for three (3) years following the submittal of a Notice of Termination.
- For BMPS that require repair or maintenance, BMPs must be repaired or maintained within three (3) days of the inspection; sediment settling ponds must be repaired or maintained within ten (10) days of the inspection.
- For BMPs that are not effective and that another, more appropriate BMP is required, the SWP3 must be amended and the more appropriate BMP must be installed within ten (10) days of the inspection.

- For BMPs depicted on the SWP3 that have not been actually installed onsite, the control practice must be implemented within ten (10) days from the inspection.

4.0 APPROVED STATE OR LOCAL PLANS

This SWP3 must comply, unless exempt, with the lawful requirements of municipalities, counties, and other local agencies regarding discharges of stormwater from construction activities. Erosion and sediment control plans and stormwater management plans approved by local officials must be retained.

5.0 EXCEPTIONS

If specific site conditions prohibit the implementation of the erosion and sediment control practices contained in this plan or site specific conditions are such that implementation of erosion and sediment control practices contained in this plan will result in no environmental benefit, then Dominion Energy must provide justification for rejecting each practice based on site conditions. Dominion Energy may request approval from Ohio EPA and other applicable regulatory authority to use alternative methods if Dominion Energy can demonstrate that the alternative methods are sufficient to protect the overall integrity of receiving streams and the watershed.

6.0 NOTICE OF TERMINATION REQUIREMENTS

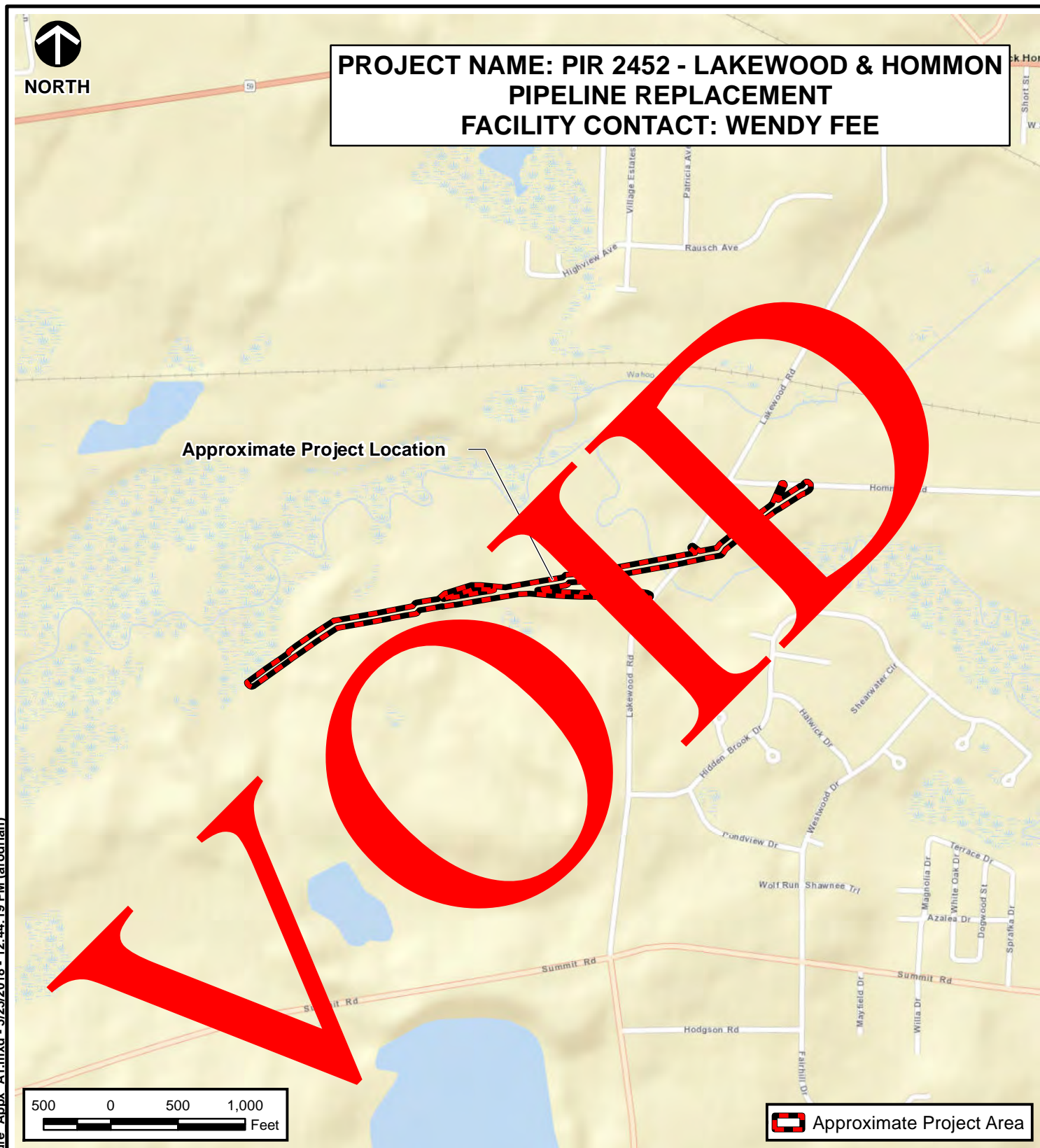
Once a site reaches final stabilization and construction activities have ceased, NPDES permit coverage is terminated by filing a notice of termination (NOT). The NOT must be filed within 45 days of reaching final stabilization. The terms and conditions of this permit must remain in effect until a signed NOT form is submitted. NOT forms must be submitted in accordance with Ohio Permit OHC000005.

Similarly, a notice of completion must be provided to municipalities, counties, and other local agencies that require such notice.

APPENDIX A

Site Location Maps

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SOURCE: ESRI WORLD STREET MAP SERVICE:
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/WORLD_STREET_MAP](http://gto.arcgisonline.com/maps/world_street_map), ACCESSED 5/25/2018.



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THE EAST OHIO GAS COMPANY
PIPELINE INFRASTRUCTURE REPLACEMENT (PIR)
PIR 2452 - LAKEWOOD & HOMMON PROJECT
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO

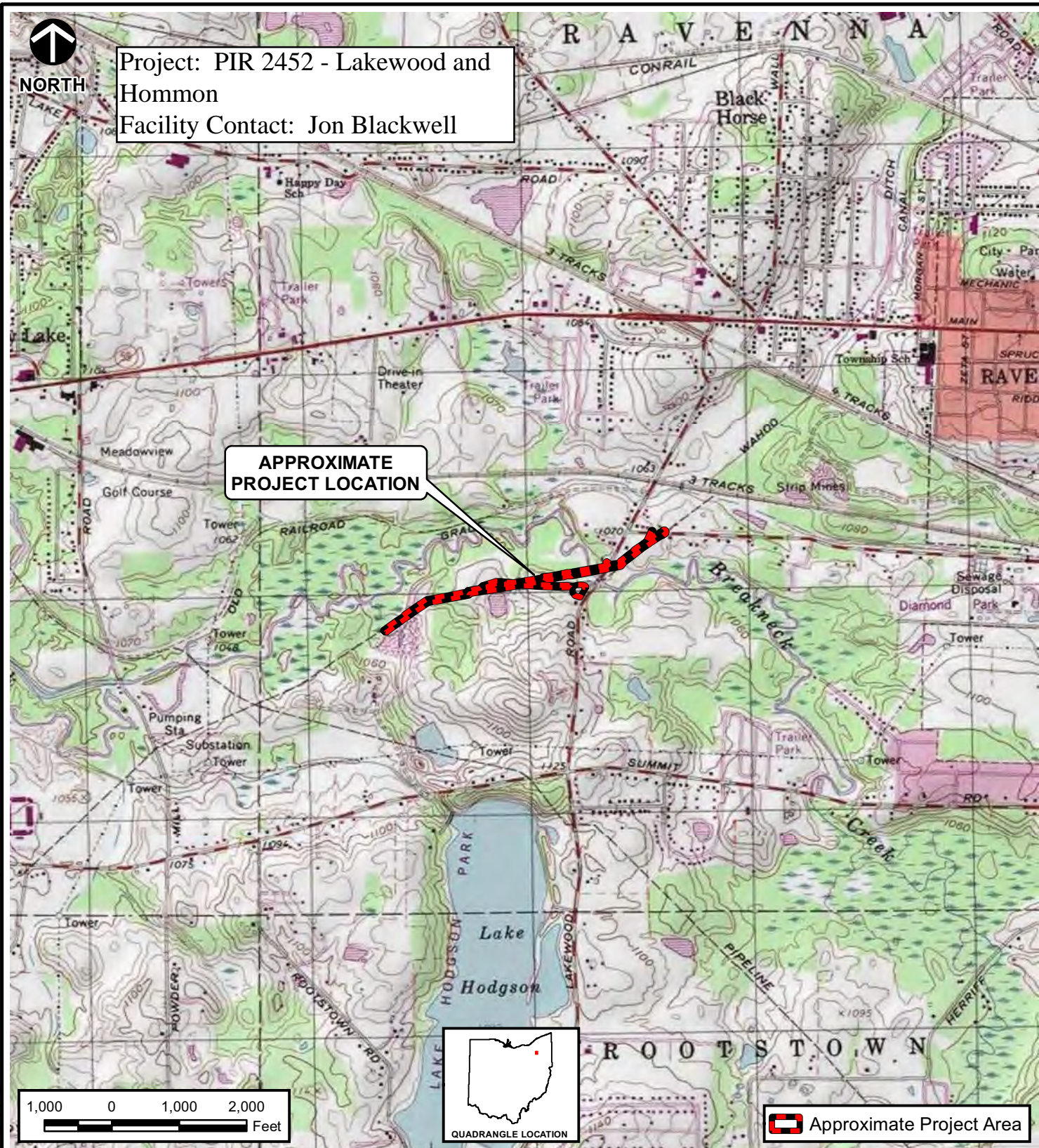
SITE OVERVIEW MAP

DRAWN BY:	MHS	CHECKED BY:	AJR	APPROVED BY:	JBF*
DATE:	MAY 25, 2018	DWG SCALE:	1" = 1,000	PROJECT NO:	163-193

FIGURE NO:

Appendix A-1

Signature on File *



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THE EAST OHIO GAS COMPANY
 PIPELINE INFRASTRUCTURE REPLACEMENT (PIR)
 PIR 2452 - LAKEWOOD & HOMMON PROJECT
 RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO

SITE LOCATION MAP

DRAWN BY:	MHS	CHECKED BY:	AJR	APPROVED BY:	JB*
DATE:	MAY 25, 2018	DWG SCALE:	1" = 2,000'	PROJECT NO:	163-193

FIGURE NO:

Appendix A-2

Signature on File *

P:\2016\163-193-GIS\163193 SWPPP Figure A2.mxd - 5/25/2018 - 11:41:24 AM (arodrian)



SOURCE: PORTION OF THE USGS 7.5-MINUTE SERIES TOPOGRAPHIC QUADRANGLE MAPS - KENT, OHIO (1985).



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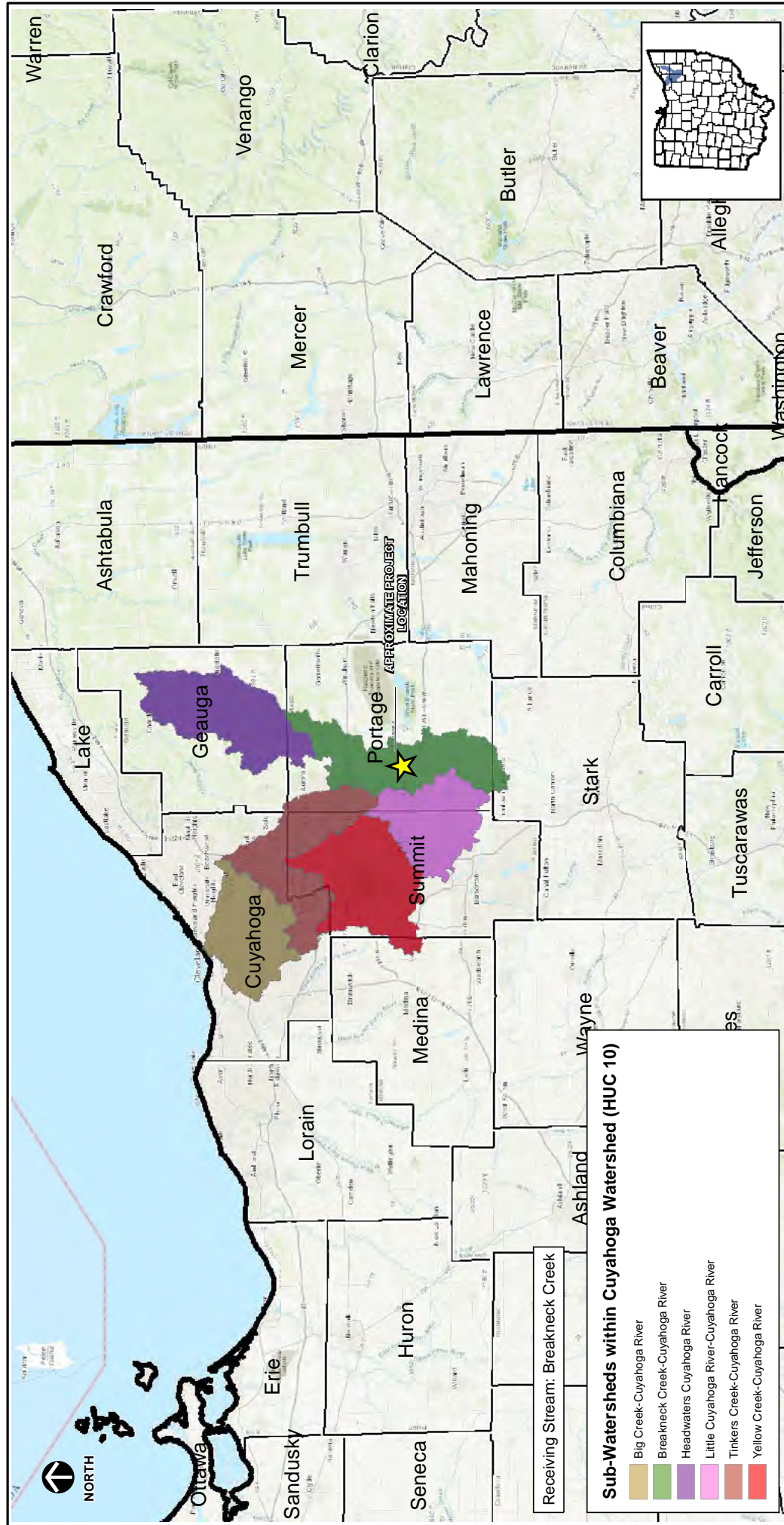
SITE LOCATION MAP

DRAWN BY:	MHS	CHECKED BY:	AJR	APPROVED BY:	JB*
DATE:	MAY 25, 2018	DWG SCALE:	1" = 2,000'	PROJECT NO:	163-193

FIGURE NO:

Appendix A-2

Signature on File *



REFERENCES

- ESRI WORLD IMAGERY & WORLD MAP SERVICE:
[HTTP://GO.TO/ARCIS/ONLINE.COM/MA/PS/WORLD](http://go.to/arcgisonline.com/maps/world)
 IMAGERY, LAST ACCESSED: 5/8/2018
- U.S. DEPARTMENT OF THE INTERIOR
 U.S. GEOLOGICAL SURVEY
 HUC 8-DIGIT WATERSHED GEODATABASE
 (HTTP://WATER.USGS.GOV/GIS/HUC.HTML)



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SITE LOCATION WATERSHED MAP

DRAWN BY: MHS CHECKED BY: AJR APPROVED BY: JBF
 DATE: MAY 08, 2018 DWG SCALE: 1" = 60,000' PROJECT NO: 163-193

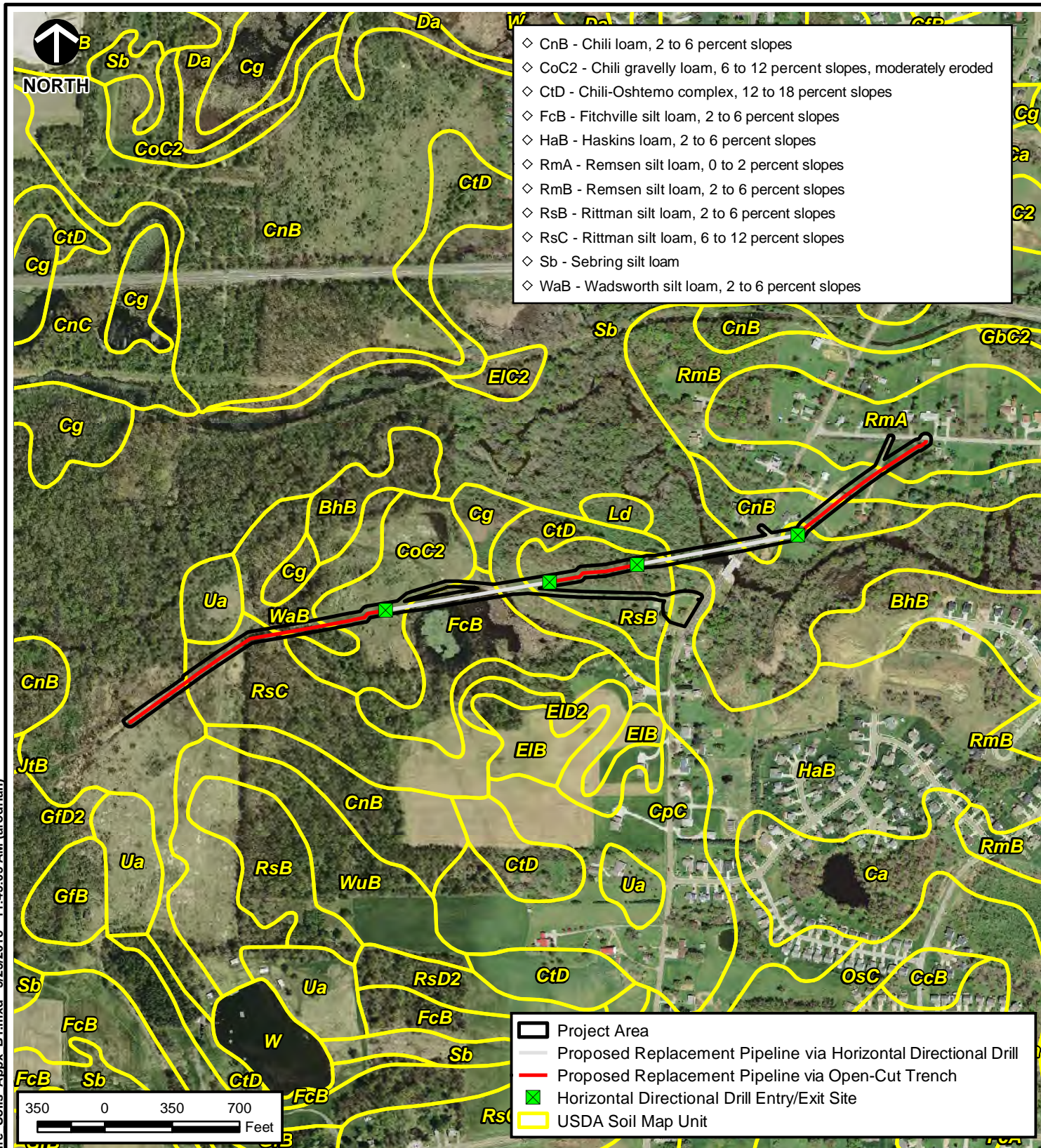
Appendix A-3

Signature on File

APPENDIX B

Soil Map and Table

P:\2016\163-193\GIS\163193 SWPPP Figure Soils Appx B1.mxd - 5/25/2018 - 11:45:05 AM (arodrian)



SOURCE: 1) OHIO STATEWIDE IMAGERY PROGRAM (OSIP) II 1-FOOT PIXEL RESOLUTION 2011 COLOR AERIAL PHOTOGRAPHY OF PORTAGE COUNTY, OHIO.
2) USDA SOIL MAP - NATURAL RESOURCES CONSERVATION SERVICE GEOSPATIAL DATA GATEWAY [HTTPS://GDG.SC.EGOV.USDA.GOV/](https://gdg.sc.egov.usda.gov/)



Civil & Environmental Consultants, Inc.

600 Marketplace Avenue, Suite 200 - Bridgeport, WV 26330-9121

Ph: 304-933-3119 Toll: 855-488-9539 Fax: 304-933-3327

www.cecinc.com

THE EAST OHIO GAS COMPANY
PIR-2452 LAKEWOOD & HOMMON
PIPELINE REPLACEMENT PROJECT
PORTAGE COUNTY, OHIO

SOILS MAP AND TABLE IDENTIFYING
SOIL TYPES AND CHARACTERISTICS

DRAWN BY:

MHS

CHECKED BY:

AJR

APPROVED BY:

JBF*

FIGURE NO:

DATE:

MAY 25, 2018

DWG SCALE:

1" = 700'

PROJECT NO:

163-193

Appendix B-1

Signature on File *

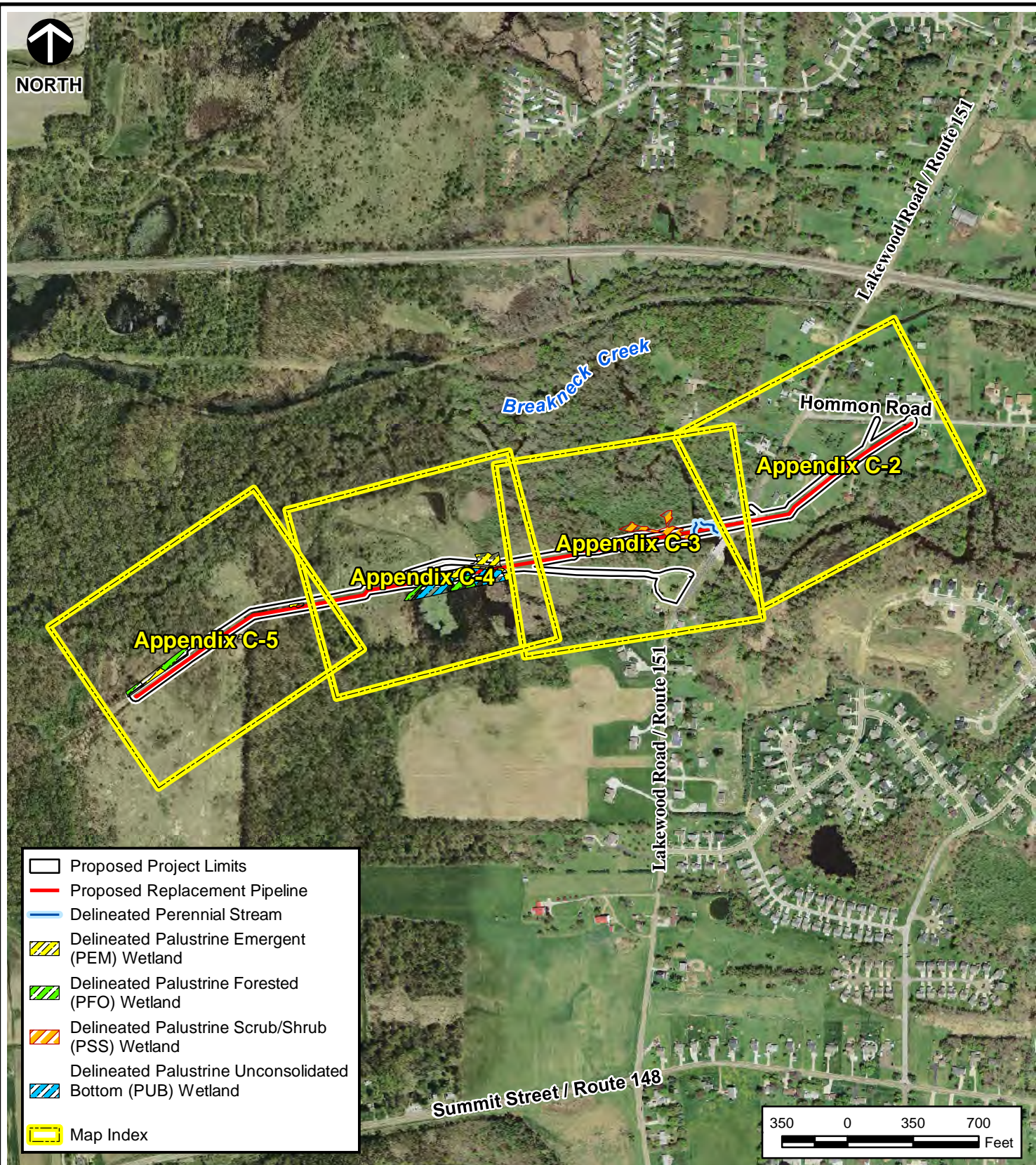
APPENDIX B - SOILS INFORMATION							
Soil Mapping Unit Symbol	Soil Mapping Unit Name	Representative Soil Texture Classification	Drainage Class	NRCS Hydric Designation	Approximate Average Depth to Seasonal High Water Table (Inches)	Approximate Depth to Restrictive Layer (Inches)	K factor Rating
CnB	Chili loam, 2 to 6 percent slopes	Loam / Gravelly sandy loam	Well Drained	Not Hydric	> 80	> 80	0.37
CoC2	Chili gravelly loam, 6 to 12 percent slopes, moderately eroded	Gravelly loam / Gravelly sandy loam	Well Drained	Not hydric	> 80	> 80	0.2
CtD	Chili-Osherno complex, 12 to 18 percent slopes	Loam / Gravelly sandy loam	Well Drained	Not hydric	> 80	> 80	0.37
FcB	Fitchville silt loam, 2 to 6 percent slopes	Silt Loam	Somewhat Poorly Drained	Hydric inclusions	6 to 14	> 80	0.37
HaB	Haskins loam, 2 to 6 percent slopes	Loam / Clay Loam / Silty Clay	Somewhat poorly drained	Not Hydric	6 to 18	> 80	0.37
RmA	Remsen silt loam, 0 to 2 percent slopes	Silt Loam / Silty Clay	Somewhat poorly drained	Hydric inclusions	6 to 18	> 80	0.43
RmB	Remsen silt loam, 2 to 6 percent slopes	Silt Loam / Silty Clay	Somewhat poorly drained	Not Hydric	6 to 18	> 80	0.43
RsB	Rittman silt loam, 2 to 6 percent slopes	Silt Loam / Clay Loam	Moderately Well drained	Not Hydric	10 to 27	18 to 36	0.37
RsC	Rittman silt loam, 6 to 12 percent slopes	Silt Loam / Clay Loam	Moderately Well drained	Not Hydric	10 to 27	18 to 36	0.37
Sb	Sevring silt loam, 0 to 2 percent slopes	Silt Loam / Silty Clay Loam	Poorly drained	Hydric	0 to 9	>80	0.37
WaB	Wadsworth silt loam, 2 to 6 percent slopes	Silt Loam / Silty Clay Loam / Clay Loam	Somewhat poorly Drained	Hydric inclusions	7 to 11	18 to 30	0.37

References:

¹ Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at <http://websoilsurvey.nrcs.usda.gov/>. Accessed March 2018.

APPENDIX C

Detailed Erosion and Sediment Control Location Drawings



SOURCE: OHIO STATEWIDE IMAGERY PROGRAM (OSIP) II 1-FOOT PIXEL RESOLUTION 2011 COLOR AERIAL PHOTOGRAPHY OF PORTAGE COUNTY, OHIO.



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PIR 2452 - LAKEWOOD & HOMMON PROJECT
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO

DETAILED EROSION & SEDIMENT CONTROL LOCATION INDEX DRAWING

DRAWN BY:

MHS

CHECKED BY:

AJR

APPROVED BY:

JBF*

FIGURE NO:

DATE:

MAY 25, 2018

DWG SCALE:

1" = 718'

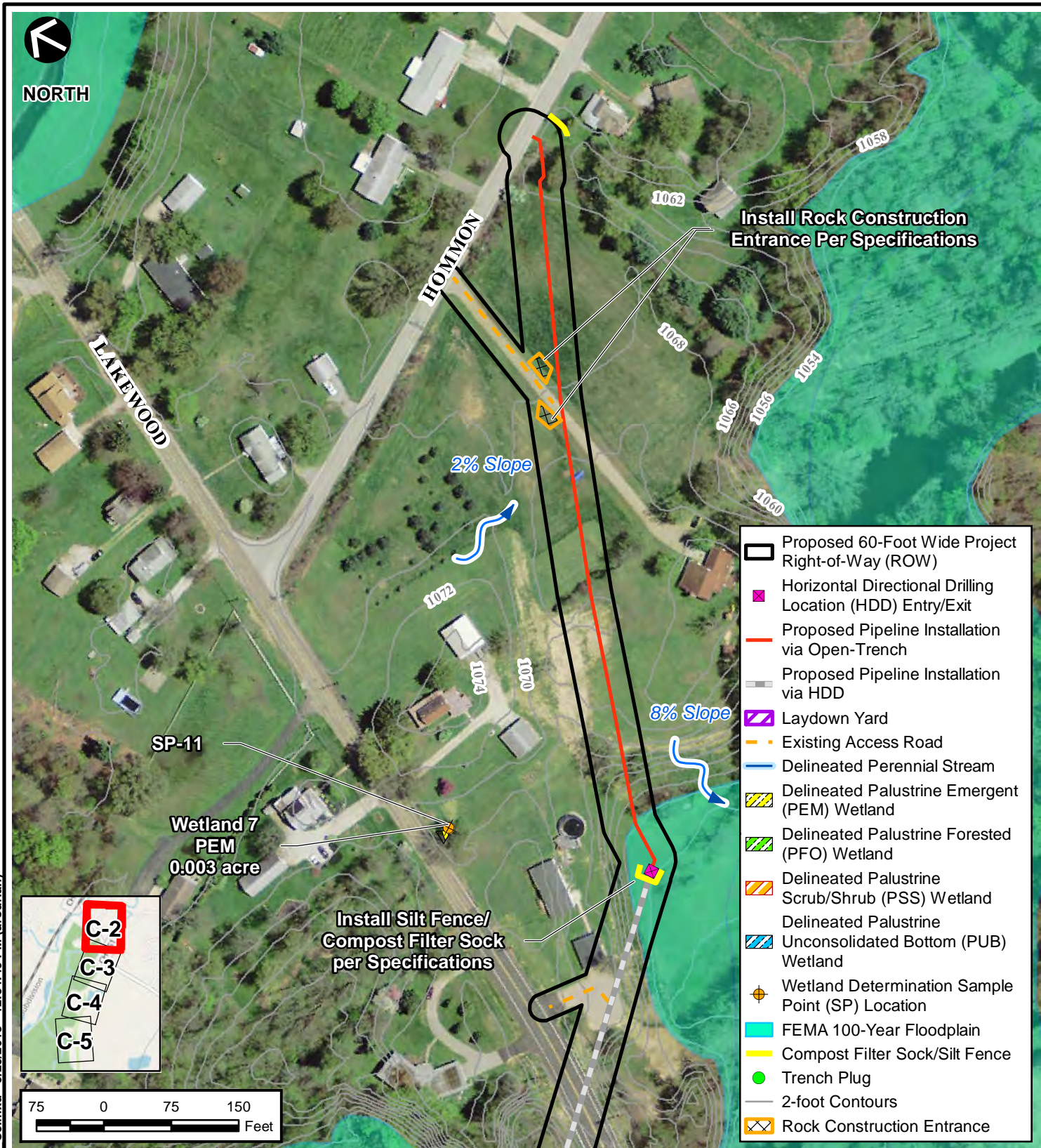
PROJECT NO:

163-193

Appendix C-1

Signature on File *

P:\2016\163-193\GIS\163193 SWPPP C2 C5.mxd - 5/25/2018 - 12:34:49 PM (arodrian)



SOURCES: OHIO STATEWIDE IMAGERY PROGRAM (OSIP) II 1-FOOT PIXEL RESOLUTION 2011 COLOR AERIAL PHOTOGRAPHY OF PORTAGE COUNTY, OHIO. ELEVATION CONTOURS FROM OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM OF PORTAGE, COUNTY 2011 LIDAR.



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PIR 2452 - LAKEWOOD & HOMMON PROJECT
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO

DETAILED EROSION & SEDIMENT
CONTROL LOCATION DRAWINGS

DRAWN BY:	DMG	CHECKED BY:	AJR	APPROVED BY:	JBF*
DATE:	MAY 25, 2018	DWG SCALE:	1" = 150'	PROJECT NO:	163-193

FIGURE NO:

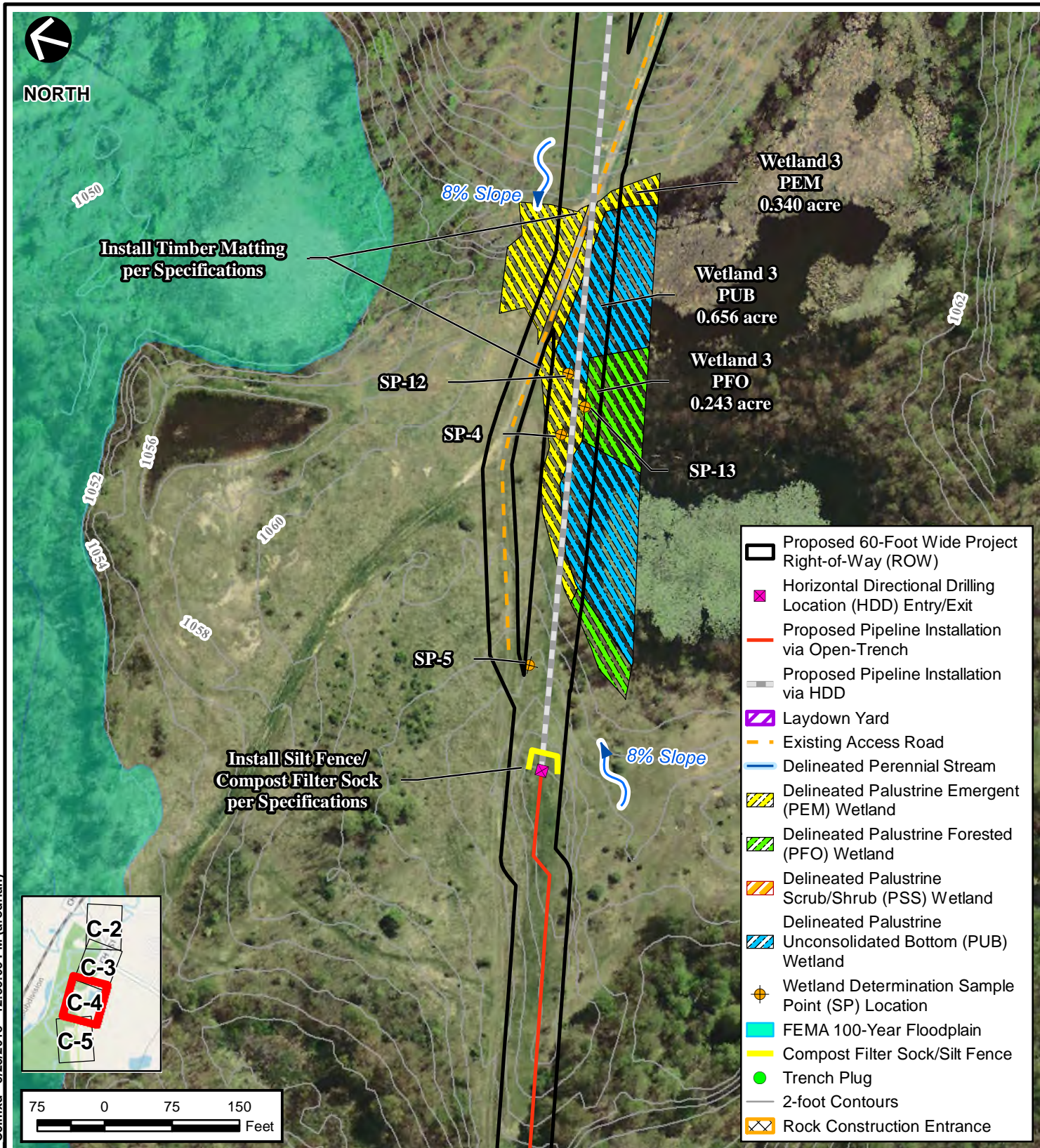
Appendix C-2

Signature on File *



Signature on File *

P:\2016\163-193\GIS\163193 SWPPP C2 C5.mxd - 5/25/2018 - 12:35:03 PM (arodrian)



SOURCES: OHIO STATEWIDE IMAGERY PROGRAM (OSIP) II 1-FOOT PIXEL RESOLUTION 2011 COLOR AERIAL PHOTOGRAPHY OF PORTAGE COUNTY, OHIO. ELEVATION CONTOURS FROM OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM OF PORTAGE, COUNTY 2011 LIDAR.



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PIR 2452 - LAKEWOOD & HOMMON PROJECT
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO

DETAILED EROSION & SEDIMENT
CONTROL LOCATION DRAWINGS

DRAWN BY:

DMG

CHECKED BY:

AJR

APPROVED BY:

JBF*

FIGURE NO:

DATE:

MAY 25, 2018

DWG SCALE:

1" = 150'

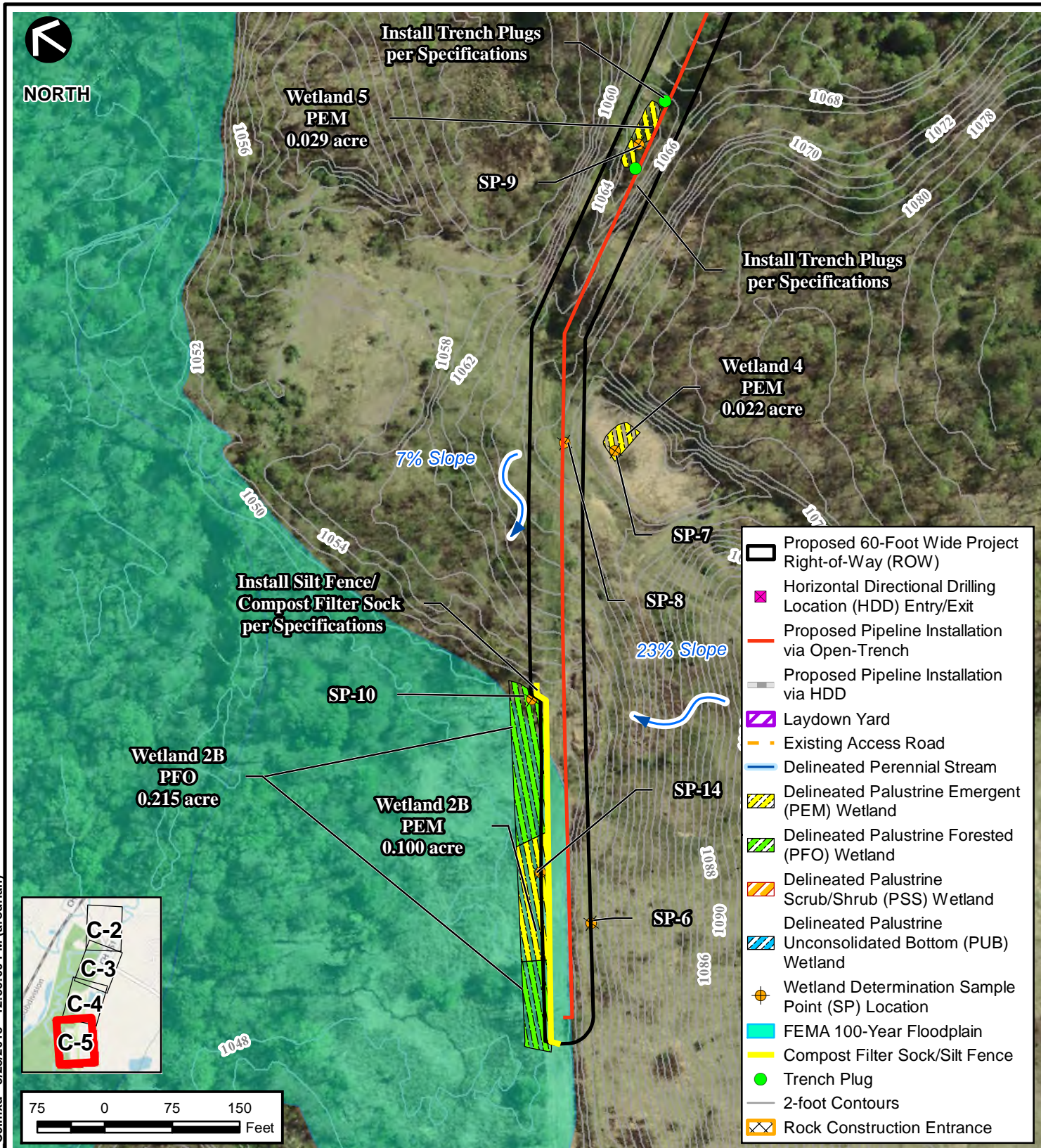
PROJECT NO:

163-193

Appendix C-4

Signature on File *

P:\2016\163-193\GIS\163193 SWPPP C2 C5.mxd - 5/25/2018 - 12:35:09 PM (arodrian)



SOURCES: OHIO STATEWIDE IMAGERY PROGRAM (OSIP) II 1-FOOT PIXEL RESOLUTION 2011 COLOR AERIAL PHOTOGRAPHY OF PORTAGE COUNTY, OHIO. ELEVATION CONTOURS FROM OHIO GEOGRAPHICALLY REFERENCED INFORMATION PROGRAM OF PORTAGE, COUNTY 2011 LIDAR.



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DETAILED EROSION & SEDIMENT CONTROL LOCATION DRAWINGS

DRAWN BY:

DMG

CHECKED BY:

AJR

APPROVED BY:

JB*

FIGURE NO:

DATE:

MAY 25, 2018

DWG SCALE:

1" = 150'

PROJECT NO:

163-193

Appendix C-5

Signature on File *

APPENDIX D

Site Drawing Checklist and Logs

D-1 SITE DRAWING CHECKLIST **

- **Location of solid waste dumpsters**
- **Location designated for waste drums of oil soaked absorbent pads/rags; solids, sludge, or oil collected from pipeline**
- **Locations of sanitary facilities such as Port-o-lets (update these locations on drawings as project progresses)**
- **Locations of diesel and gasoline storage tanks (secondary containment provided)**
- **Locations of pipe and equipment storage yards**
- **Locations of cement truck washout**

**** *These locations can be hand drawn on the site drawings.***

D-2

PIR 2452 – Lakewood & Hommon

[illegible]

D-3

PIR 2452 – Lakewood & Hommon

Construction Inspector:

[illegible]

APPENDIX E

Corrective Action Log



Dominion Construction Stormwater General Permit: Corrective Action Log

Project Name: PIR – 2452 Lakewood & Hommon

State-Specific Corrective Action Requirement*:

Positions Authorized to Document Corrective Action Completion:

Corrective Action #	Inspection Date	Inspector Name(s)	Description of Deficiency	Corrective Action Required	Date Corrective Action is Due*	Agency Notification Required? (Y/N)	Date Corrective Action Performed / Responsible Person

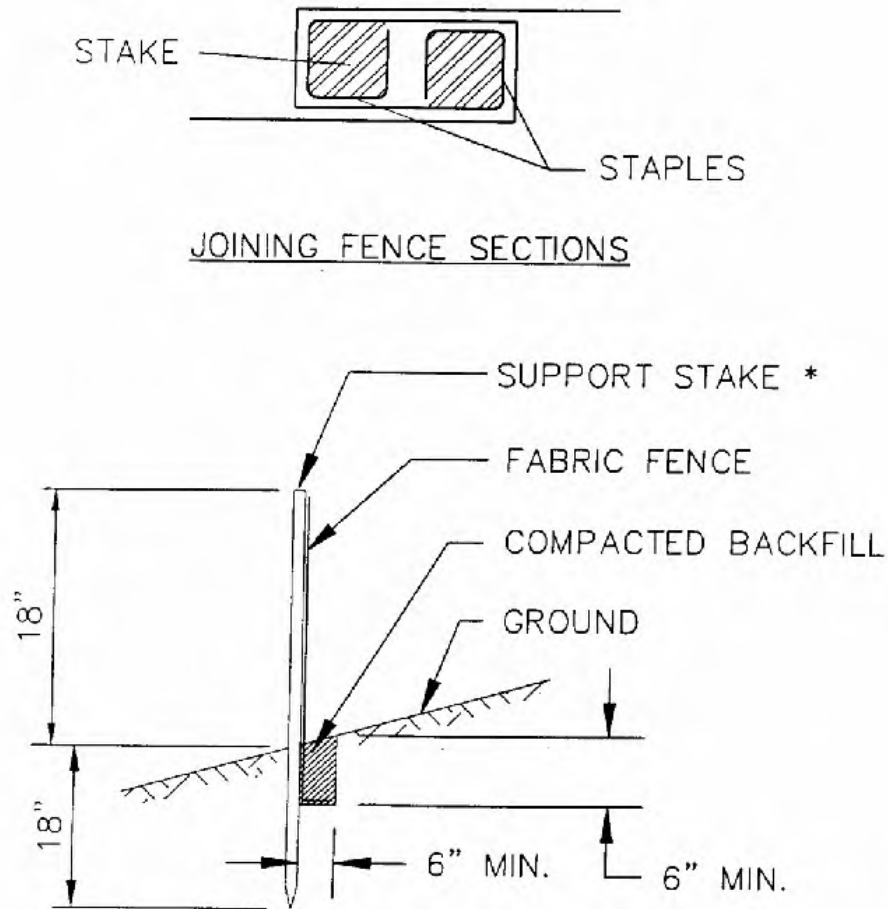
*Corrective action requirements/deadlines are state specific. Thus, refer to your construction stormwater permit. Should the project team not be able to meet the permit deadlines then the stormwater management program authority (e.g. state agency) must be notified.

APPENDIX F

Typical Upland Erosion and Sediment Control Plan Drawings

DETAIL F-1

FILTER FABRIC FENCE DETAIL



*Stakes spaced @ 8' maximum. Use 2"x 2" wood or equivalent steel stakes.

Filter Fabric Fence must be placed at level existing grade. Both ends of the barrier must be extended at least 8 feet up slope at 45 degrees to the main barrier alignment.

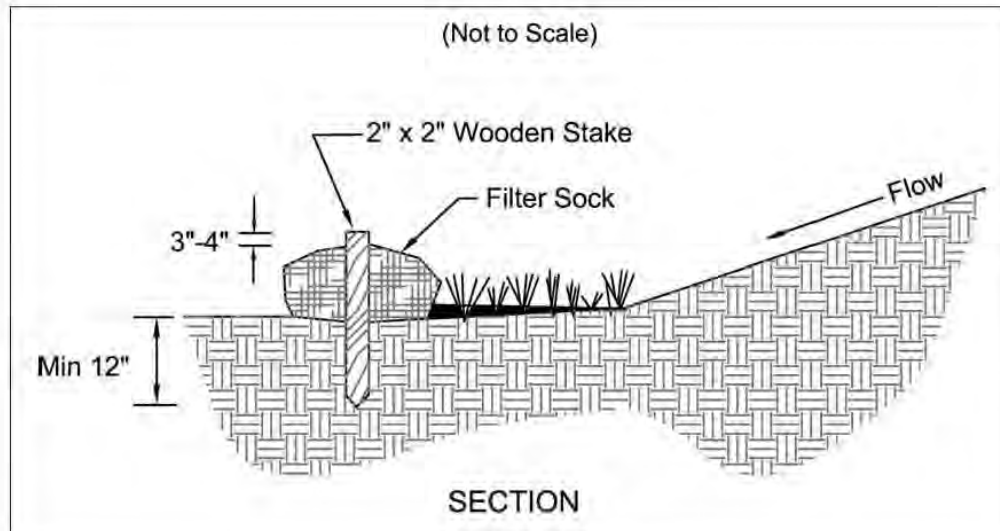
Trench shall be backfilled and compacted to prevent runoff from cutting underneath the fence.

Sediment must be removed when accumulations reach 1/2 the above ground height of the fence.

Any section of Filter fabric fence that has been undermined or topped should be immediately replaced.

DETAIL F-2

FILTER SOCK DETAIL



1. Materials – Compost used for filter socks shall be weed, pathogen and insect free and free of any refuse, contaminants or other materials toxic to plant growth. They shall be derived from a well-decomposed source of organic matter and consist of a particles ranging from 3/8" to 2".
2. Filter Socks shall be 3 or 5 mil continuous, tubular, HDPE 3/8" knitted mesh netting material, filled with compost passing the above specifications for compost products.
5. Filter Socks are not to be used in concentrated flow situations or in runoff channels.

MAINTENANCE:

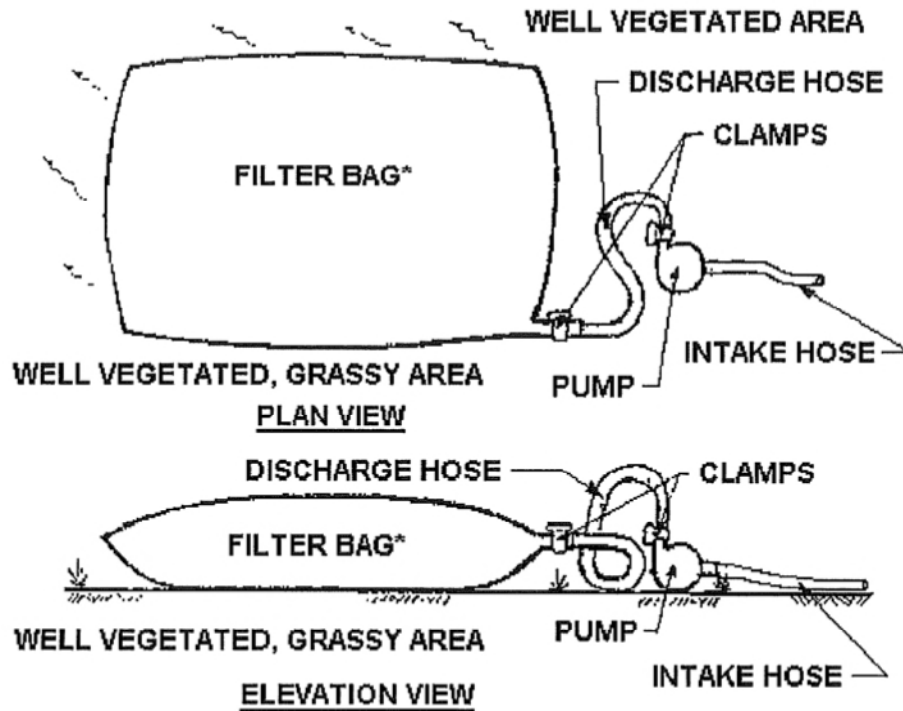
INSTALLATION:

3. Filter socks will be placed on a level line across slopes, generally parallel to the base of the slope or other affected area. On slopes approaching 2:1, additional socks shall be provided at the top and as needed mid-slope.
4. Filter socks intended to be left as a permanent filter or part of the natural landscape, shall be seeded at the time of installation for establishment of permanent vegetation.
7. Remove sediments collected at the base of the filter socks when they reach 1/3 of the exposed height of the practice.
8. Where the filter sock deteriorates or fails, it will be repaired or replaced with a more effective alternative.
9. Removal – Filter socks will be dispersed on site when no longer required in such as way as to facilitate and not obstruct seedings.

Note: Filter socks may not require stakes if used in areas of little to no slope, for short duration, and/or for relatively small disturbances such as sidecast piles from service line tie-ins.

DETAIL F-3

PUMPED WATER FILTER BAG DETAIL



Filter bags shall be made from non-woven geotextile material sewn with high strength, double stitched "J" type seams. They shall be capable of trapping particles larger than 150 microns.

A suitable means of accessing the bag with machinery required for disposal purposes must be provided. Filter bags shall be replaced when they become 1/2 full. Spare bags shall be kept available for replacement of those that have failed or are filled.

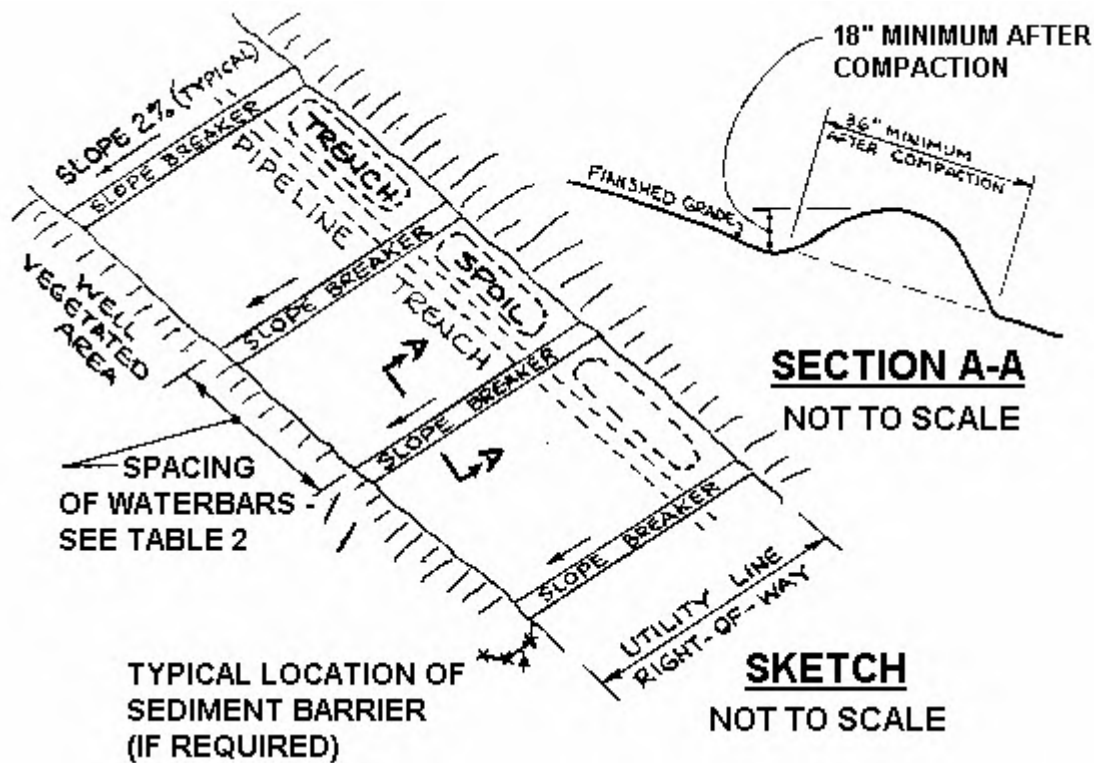
Bags shall be located in a well-vegetated (grassy) area, and discharge onto stable, erosion resistant areas. Where this is not possible, a geotextile flow path shall be provided. Bags should not be placed on slopes greater than 5%.

For hydrostatic discharge, the pumping rate is 350-500 gallons per minute (gpm). For trench dewatering, the pumping rate shall be no more than 750 gpm. Floating pump intakes should be considered to allow sediment-free water to be discharged during dewatering.

Filter bags shall be inspected daily. If any problem is detected, pumping shall cease immediately and not resume until the problem is corrected.

DETAIL F-4

WATERBAR INSTALLATION



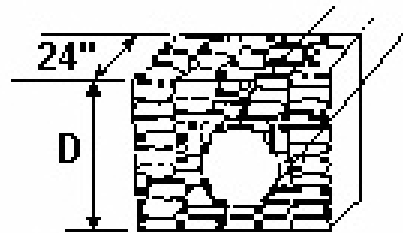
Required Spacing for Temporary and Permanent Waterbars	
Percent Slope	Spacing (FT)
1	400
2	250
5	135
10	80
15	60
20	45

Waterbars should be constructed at a slope of 1% and discharge to a well-vegetated area. Waterbars should not discharge into an open trench. Waterbars should be oriented so that the discharge does not flow back onto the ROW. Obstructions, (e.g. silt fence, rock filters, etc.) should not be placed in any waterbars. Where needed, they should be located below the discharge end of the waterbar.

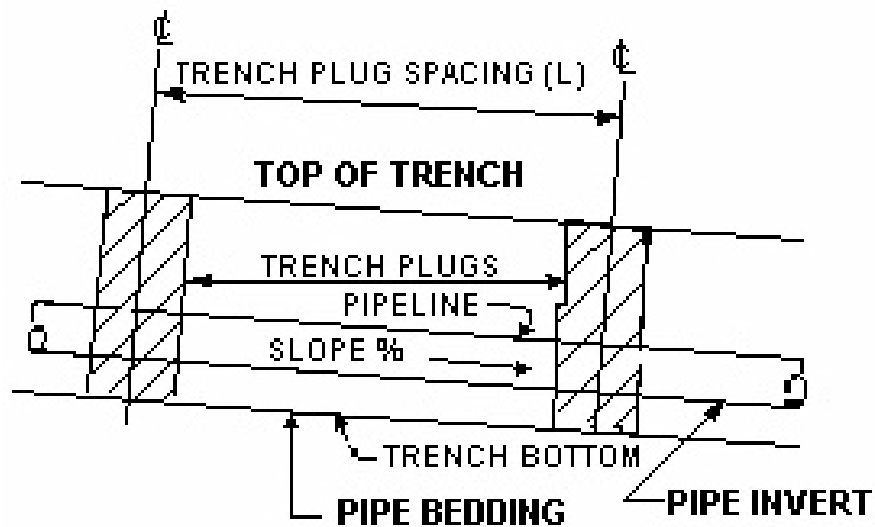
DETAIL F-5

TRENCH PLUG INSTALLATION DETAIL

D - DEPTH TO BOTTOM OF TRENCH



SECTION VIEW NOT TO SCALE

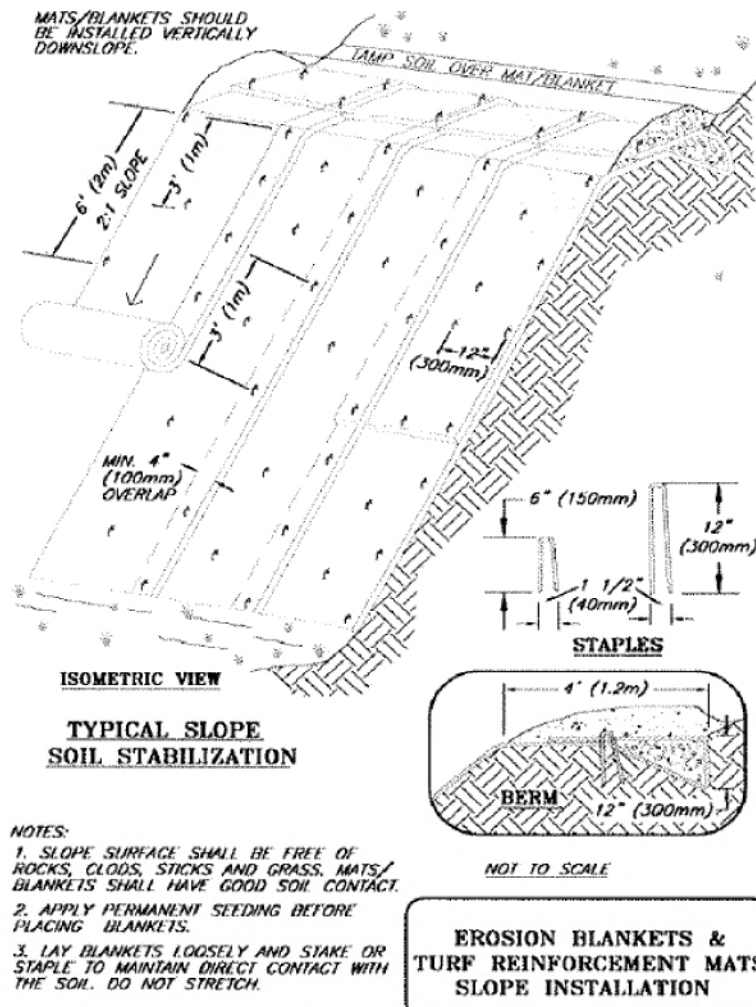


ELEVATION NOT TO SCALE

DETAIL F-6

EROSION CONTROL MATTING DETAIL

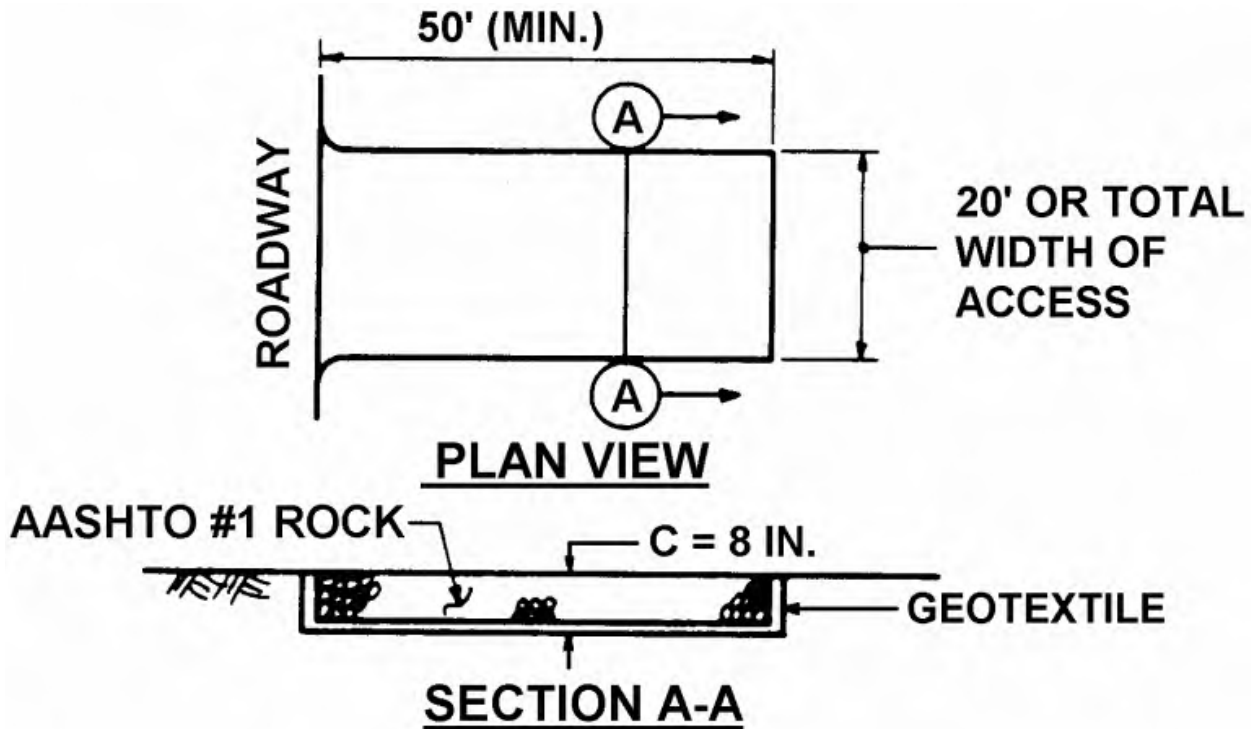
EROSION CONTROL BLANKET DETAIL



Refer to manufacturer's lining installation detail for overlap, embedment, staple patterns, and vegetative stabilization specifications

DETAIL F-7

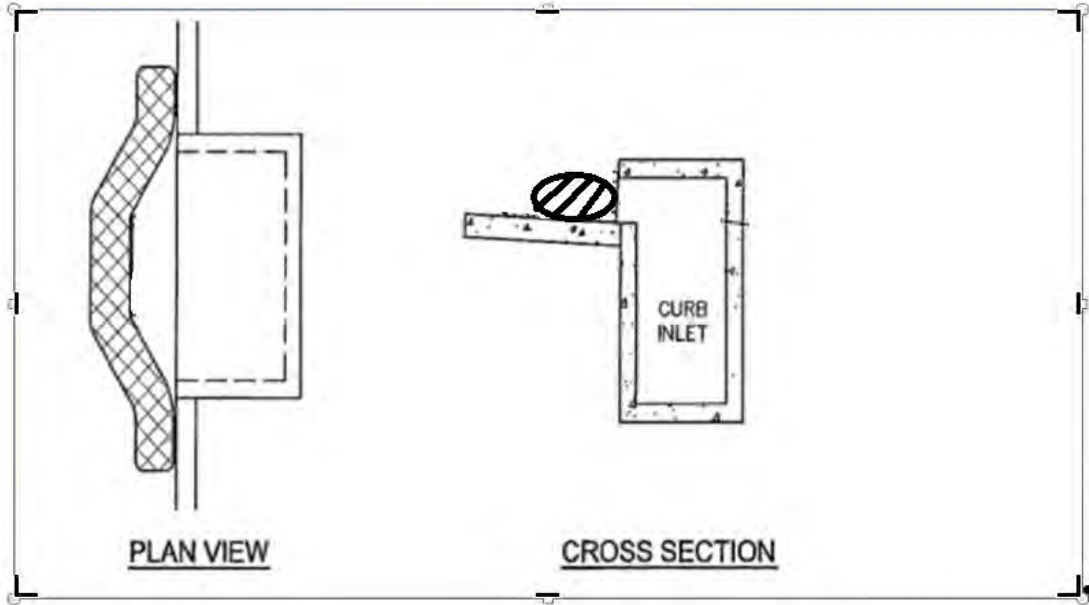
ROCK CONSTRUCTION ENTRANCE DETAIL



MAINTENANCE: Rock Construction Entrance thickness shall be constantly maintained to the specified dimensions by adding rock. A stockpile shall be maintained onsite for this purpose. At the end of each construction day, all sediment deposited on paved roadways shall be removed and returned to the construction site. Steel plates, timber mats, and tires are also acceptable materials for short-term construction entrances.

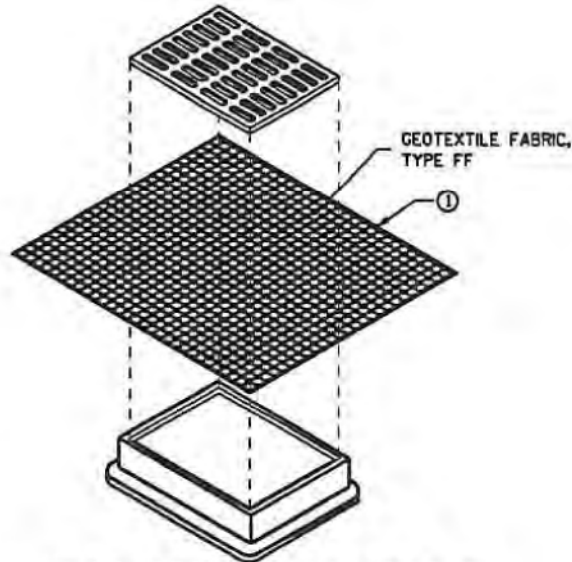
DETAIL F-8A

CURB INLET PROTECTION



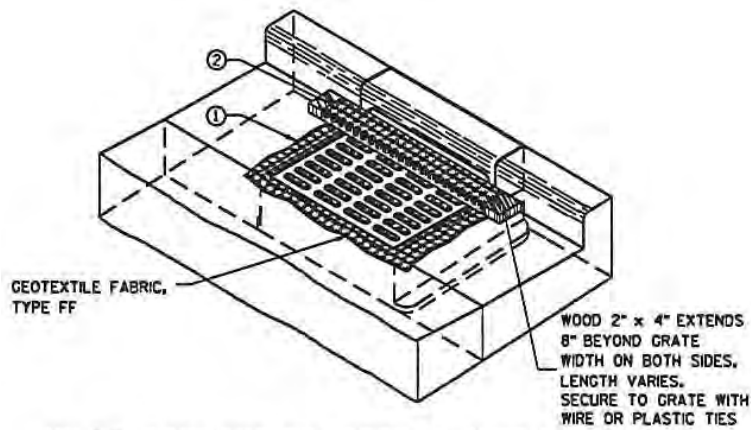
DETAIL F-8B

CURB INLET PROTECTION



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

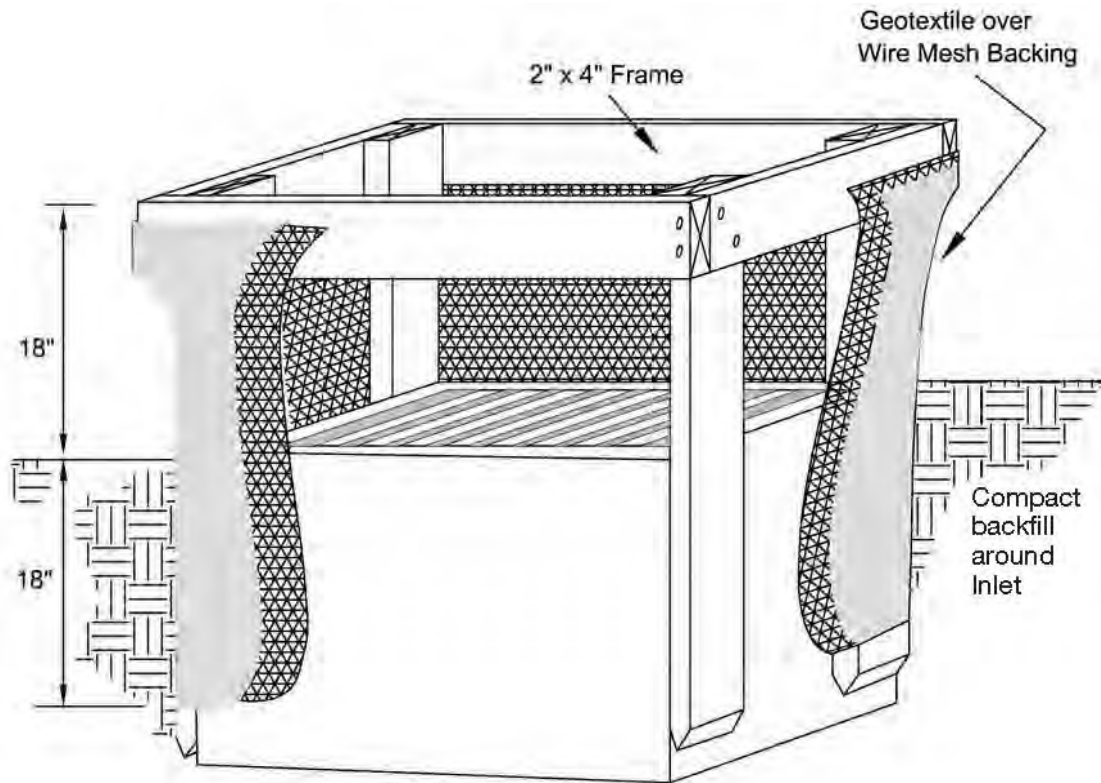
TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

DETAIL F-8C

GEOTEXTILE INLET PROTECTION DETAIL



SECTION

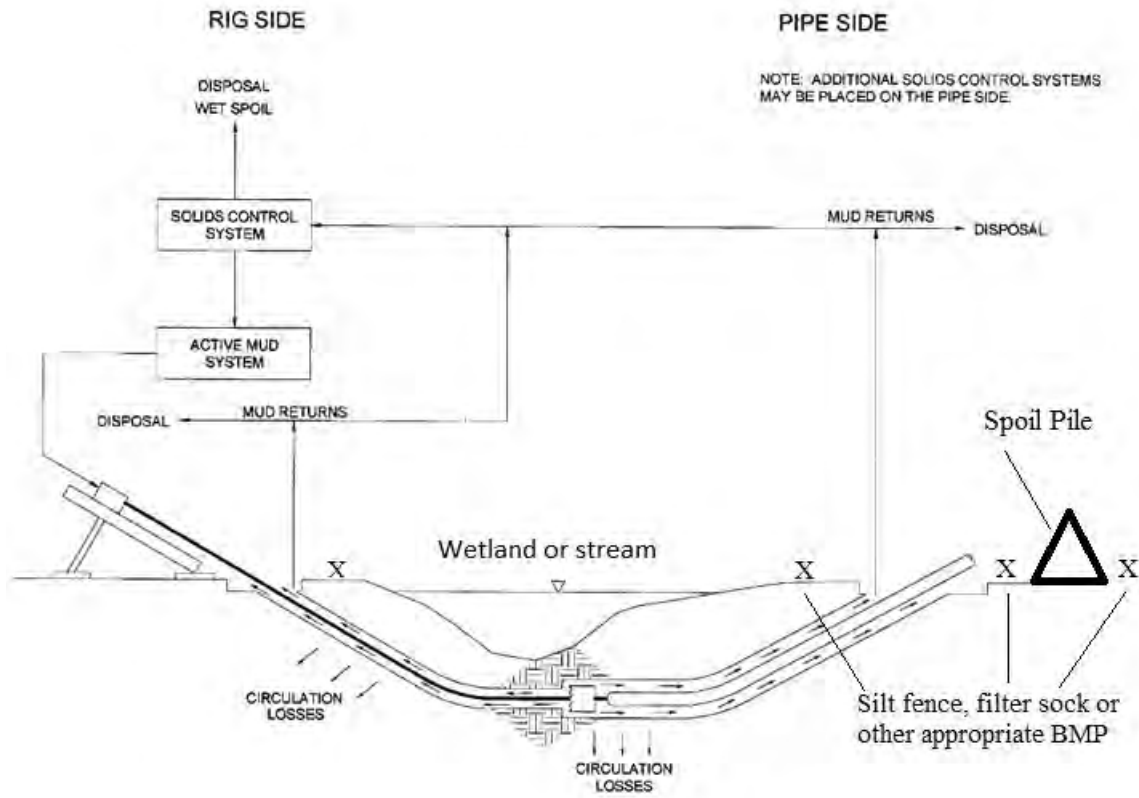
1. Inlet protection shall be constructed either before upslope land disturbance begins or before the inlet becomes functional.
2. The earth around the inlet shall be excavated completely to a depth at least 18 inches.
3. The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inch by 4-inch frame assembled using the overlap joint shown. The top of the frame shall be at least 6 inches below adjacent roads if ponded water will pose a safety hazard to traffic.
4. Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
5. Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet so the ends of the cloth are not fastened to the same post.
6. Backfill shall be placed around the inlet in compacted 6 inch layers until the earth is even with notch elevation on ends and top elevation on sides.
7. A compacted earth dike or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.
8. Filter fabric and filter socks can also be used as inlet protection.

APPENDIX G

Typical Horizontal Directional Drill Drawing

DETAIL G-1

HORIZONTAL DIRECTIONAL DRILL (BORE) OF SURFACE WATER

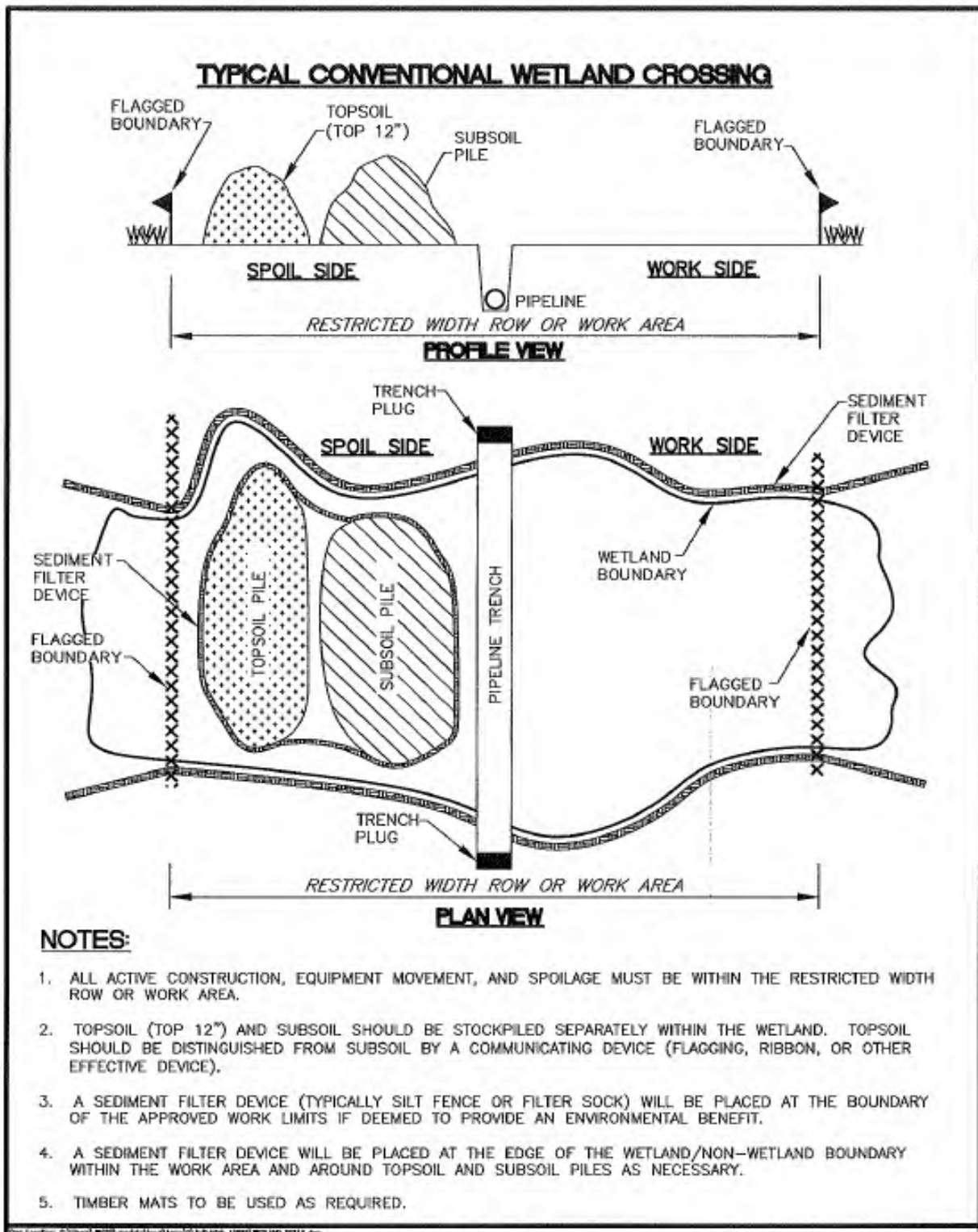


APPENDIX H

Typical Wetland Crossing Drawing

DETAIL H-1

TYPICAL WETLAND CROSSING



DETAIL H-2

WETLAND TIMBER MAT CROSSING



APPENDIX I

NOI Application Documentation



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.)

I. Applicant Information/Mailing Address

Company (Applicant) Name: The East Ohio Gas Co d/b/a Dominion Energy Ohio

Mailing (Applicant) Address: 320 Springside Drive, Suite 320

City: Akron

State : OH

Zip Code: 44333

Country: USA

Contact Person: Greg Eastridge

Phone: (330) 664-2576

Fax: (330) 664-2669

Contact E-mail Address: Gregory.K.Eastridge@dominionenergy.com

II. Facility/Site Location Information

Facility/Site Name: PIR 2452 Lakewood & Hommon Pipeline Replacement

Facility Address: Lakewood Road and Hommon Road

City: Ravenna

State: OH

Zip Code: 44240

County: Portage

Township: Ravenna

Facility Contact Person: Jon Blackwell

Phone: (330) 664-4666

Fax: (330) 664-2691

Facility Contact E-mail Address: Jonathon.E.Blackwell@dominionenergy.com

Latitude: 41.147903

Longitude: -81.283118

Facility/Map Attachment PIR 2452 NOI
TOPO.pdf

Receiving Stream or MS4: Breakneck Creek, Portage County MS4

III. General Permit Information

General Permit Number: OHC000005

Initial Coverage: Y **Renewal Coverage:** N

Type of Activity: Construction Site Stormwater General Permit

SIC Code(s):

Existing NPDES Facility Permit Number:

ODNR Coal Mining Application Number:

If Household Sewage Treatment System, is system for:

New Home Construction:

Replacement of failed existing system:

Outfall

Design Flow (MGD):

Associated Permit Effluent Table:

Receiving Water :

Latitude

Longitude

Are These Permits Required?

PTI: NO

Individual 401 Water Quality Certification: NO

Individual NPDES: NO

Isolated Wetland: NO

U.S. Army Corp Nationwide Permit: APPROVED

Proposed Project Start Date(if applicable): January 02, 2019

Estimated Completion Date(if applicable): August 23, 2019

Total Land Disturbance (Acres): 6.2

MS4 Drainage Area (Sq. Miles):

SWP3 Attachment(s): <None>

IV. Payment Information

Check #:

Check Amount:

Date of Check:

For Ohio EPA Use Only

Check ID(OFA):

ORG #:

Rev ID:

DOC #:

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant Name (printed or typed):

Title:

Signature:	Date:
-------------------	--------------

APPENDIX J

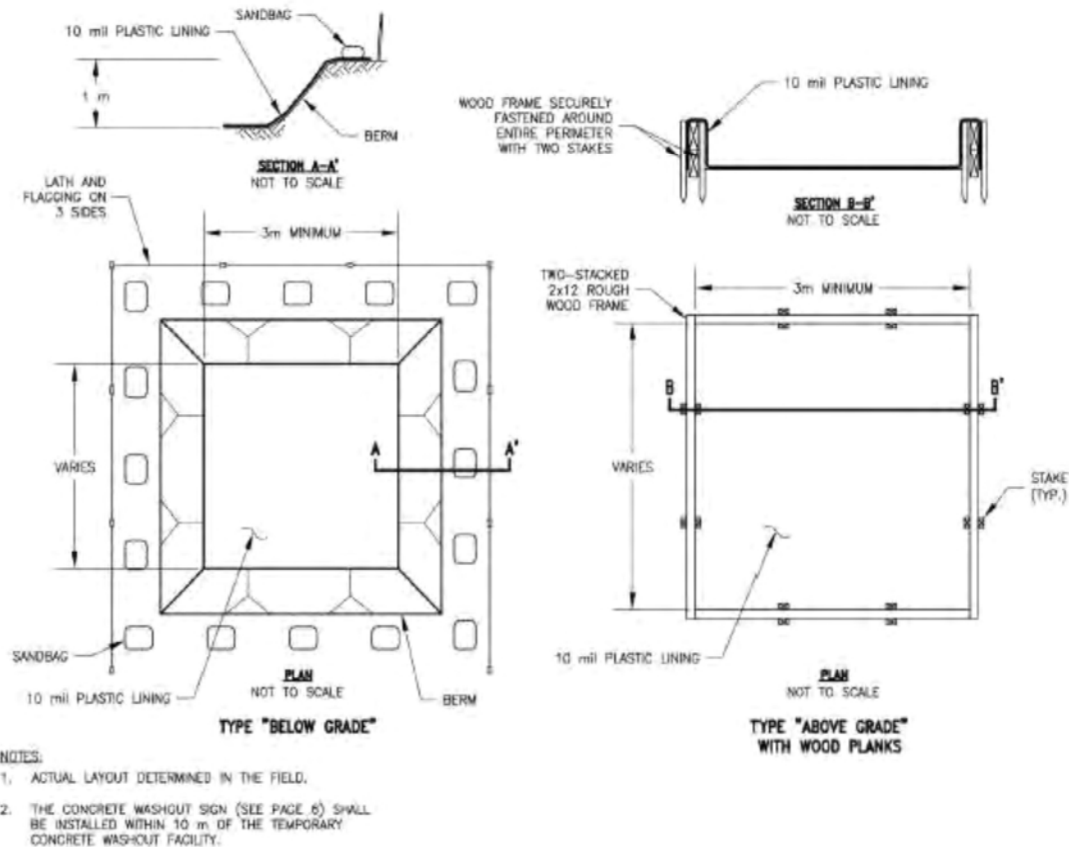
Concrete Washout Typical Drawing

DETAIL J-1

Concrete Washout Detail

Note: This detail to be used in the absence of the following concrete washout BMPs:

1. Washout into a depressional area where new sidewalks will be poured
2. Washout into a lined pit in the ground with filter socks as perimeter control



Sign Examples



Photograph of the "ABOVE GRADE" concrete washout structure

APPENDIX K

SWP3 Inspection Forms

ECTS Checklist Guidance

Checklist Title: SWP3 Inspection Form

(For Dominion Energy Construction Projects with a SWP3)

THIS CHECKLIST IS TO BE COMPLETED BY AN ENVIRONMENTAL INSPECTOR (EI) CONTRACTED BY DOMINION ENERGY OR A DOMINION ENERGY INSPECTOR DURING SCHEDULED OR UNSCHEDULED SITE INSPECTIONS OF ACTIVE CONSTRUCTION SITES WITH A SWP3.

- **Information at the top of the form.**

- **Site Name:** Note the Project name and/or location of the construction activity.
- **Inspector:** Note the inspector's name and circle the appropriate title.
- **Qualifications:** Note applicable qualifications (Y/N).
 - Eight-Hour Stormwater Management During Construction Course - A course administered by numerous third-party trainers.
 - CESSWI - Certified Erosion, Sediment and Stormwater Inspector. A federal certification program administered by EnviroCert International. If "Yes" include certification number.
 - Dominion SWP3 Training - A training module prepared by Dominion Environmental Services for Dominion construction Sites
- **Signature:** Include the signature of the inspector on paper copy maintained at the site.

- **Inspection Documentation Area:**

- **Circle the applicable inspection type:**
 - "Weekly" - Inspection required during active construction and restoration.
 - "Monthly" - Inspection required after construction and restoration activity has ceased.
 - "Routine" - Minimum weekly inspection interval
 - "Precipitation Event" - Must be completed within 24 hours of a more than 0.5-inch precipitation event, as determined by Dominion personnel or a designated representative using National Weather Service or other acceptable resources such as an on-site rain gauge.
 - "Other" - Random inspection, Compliance Inspection, Follow-up, etc.
- **Has it rained since last inspection?** (Y/N) Circle as appropriate and note the time started and duration of the previous storm event. If the precipitation amount is known, insert this information here.
- **Current Conditions:** Describe the weather conditions during this inspection. Circle the most appropriate soil condition. "Saturated" = standing water is visible on the ground surface.
- **Features Inspected:** List each feature inspected at the site. The Feature ID must correspond to the site plan submitted with the SWP3 or E&S Control Plan. Record repairs or maintenance necessary for each device; include an accurate description of the location of repair and a date when the repair must be completed.

- **Information on second page.**

- **Construction Inspector(s):** Note the inspection date, site name, and inspector'(s) name.
- **Previous Inspections:** Review the previous site inspection form, including action items and dates of completion. Comment on ongoing activities and its progress. The site has three days from discovery to complete applicable repairs and 10 days from discovery to install new controls if warranted.
- **Necessary Documents:** Confirm the presence of environmental permit, plans, and notices. These must include: a Stormwater Pollution Prevention Plan (SWP3) or Erosion and Sediment (E&S) Control Plan; Construction Permit/Land Disturbance Permit; Notice of Intent (NOI) to begin disturbance; and Notices of Termination.
- **Disturbed Areas:** Disturbed areas that are anticipated to lie dormant for more than 14 days must be stabilized to prevent potential erosion. Stabilization may include: permanent cover (e.g., building, parking lot, etc.); vegetation (seed and straw), mulch or tack; gravel, stone or rip rap.
- **E/SCDs:** Are Erosion/Sediment Control Devices (E/SCDs) of appropriate design for the areas they are controlling, properly installed and being maintained? The E/SCDs installed must be described in the SWP3 or E&S Control Plan. Furthermore, design details must meet the minimum design details described in the state stormwater control manual. If alternate control methods were installed: notify the site manager and engineer to confirm the controls installed are sufficiently designed; revise the plans accordingly; or remove and replace insufficient controls. The site has three days from discovery to complete applicable repairs and 10 days from discovery to install new controls if warranted.
- **Final Grade:** List areas at final grade since last inspection. Areas at final grade are not likely to be disturbed again and must be stabilized. See Question # 9 above.
- **Untreated Discharges:** Observations of untreated discharge may include:
 - A sheen indicating petroleum products;
 - Foam or froth indicating a chemical or other discharge;
 - Suspended particles or sludge beneath the surface;
 - Discolored water, including dirty/muddy characteristics of sedimentation;
 - A change in water temperature; and,
 - Damaged or stressed vegetation or wildlife.
- **Notification:** Review the inspection findings with a site manager or other responsible person and note this individual.

Checklist Owner: Tara Buzzelli

Local: 8-657-2579

Work: 330-664-2579

Cell: 330-604-8871

Email: Tara.E.Buzzelli@DominionEnergy.com

Email: Gregory.K.Eastridge@DominionEnergy.com

Subject Matter Expert: Greg Eastridge

Local: 8-657-2576

Work: 330-664-2576

Cell: 330-571-7855

Date of Last Revision: December 2012

OHIO SWP3 INSPECTION FORM

Site Name:

Date:

Environmental Inspection Company:

Environmental Inspector:

Qualifications: Completed 8-HR Stormwater Management During Construction Course

Y

N

CESSWI

Y

N

Dominion SWP3 Training

Y

N

Inspector Signature:

Weekly

Monthly

Routine Inspection

Precipitation Event >0.5-inch

Other

(circle all applicable)

Has it rained since last inspection? *(circle one)*

Yes: Date(s) & Approx. Amount _____

No

Current Conditions: _____

Soil Conditions:

Dry

Wet

Saturated

Frozen

(circle applicable conditions)

Feature ID

BMP, ECD, SCD Applied

Recommendations

BMP: Best Management Practice E/SCD: Erosion/Sediment Control Device SF: Silt Fence SW: Straw Wattle W: Wetland S: Stream
TM: Timber Mat IP: Inlet Protection WB: Waterbar RCE: Rock Construction Entrance ECM: Erosion Control Matting FS: Filter
Sock

Date:

Site:

Stormwater Pollution Prevention Plan Inspection Form

Construction Inspector(s) On Site:

Unresolved issues from previous inspections:

Are the SWP3, NOI and General Permit Letter on-site? Yes No
If no, explain.

List newly disturbed areas likely to lie dormant for more than 14 days:

Have soil stockpiles been placed at least 50 feet from drainageways?

List construction entrances and SCDs used to prevent tracking into roadway:

Are E/SCDs of appropriate design for area they are controlling, properly installed and being maintained?

List new areas at final grade since last inspection:

Is the inlet protection of appropriate design?

Were untreated discharges into streams, wetlands or inlets observed? If yes, document location(s):

Note person(s) notified of inspection finding(s) and expected date of correction:

Note



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.)

I. Applicant Information/Mailing Address

Company (Applicant) Name: The East Ohio Gas Co d/b/a Dominion Energy Ohio

Mailing (Applicant) Address: 320 Springside Drive, Suite 320

City: Akron

State : OH

Zip Code: 44333

Country: USA

Contact Person: Greg Eastridge

Phone: (330) 664-2576

Fax: (330) 664-2669

Contact E-mail Address: Gregory.K.Eastridge@dominionenergy.com

II. Facility/Site Location Information

Facility/Site Name: PIR 2452 Lakewood & Hommon Pipeline Replacement

Facility Address: Lakewood Road and Hommon Road

City: Ravenna

State: OH

Zip Code: 44240

County: Portage

Township: Ravenna

Facility Contact Person: Jon Blackwell

Phone: (330) 664-4666

Fax: (330) 664-2691

Facility Contact E-mail Address: Jonathon.E.Blackwell@dominionenergy.com

Latitude: 41.147903

Longitude: -81.283118

Facility/Map Attachment PIR 2452 NOI
TOPO.pdf

Receiving Stream or MS4: Breakneck Creek, Portage County MS4

III. General Permit Information

General Permit Number: OHC000005

Initial Coverage: Y **Renewal Coverage:** N

Type of Activity: Construction Site Stormwater General Permit

SIC Code(s):

Existing NPDES Facility Permit Number:

ODNR Coal Mining Application Number:

If Household Sewage Treatment System, is system for:

New Home Construction:

Replacement of failed existing system:

Outfall

Design Flow (MGD):

Associated Permit Effluent Table:

Receiving Water :

Latitude

Longitude

Are These Permits Required?

PTI: NO

Individual 401 Water Quality Certification: NO

Individual NPDES: NO

Isolated Wetland: NO

U.S. Army Corp Nationwide Permit: APPROVED

Proposed Project Start Date(if applicable): January 02, 2019

Estimated Completion Date(if applicable): August 23, 2019

Total Land Disturbance (Acres): 6.2

MS4 Drainage Area (Sq. Miles):

SWP3 Attachment(s): <None>

IV. Payment Information

Check #:

Check Amount:

Date of Check:

For Ohio EPA Use Only

Check ID(OFA):

ORG #:

Rev ID:

DOC #:

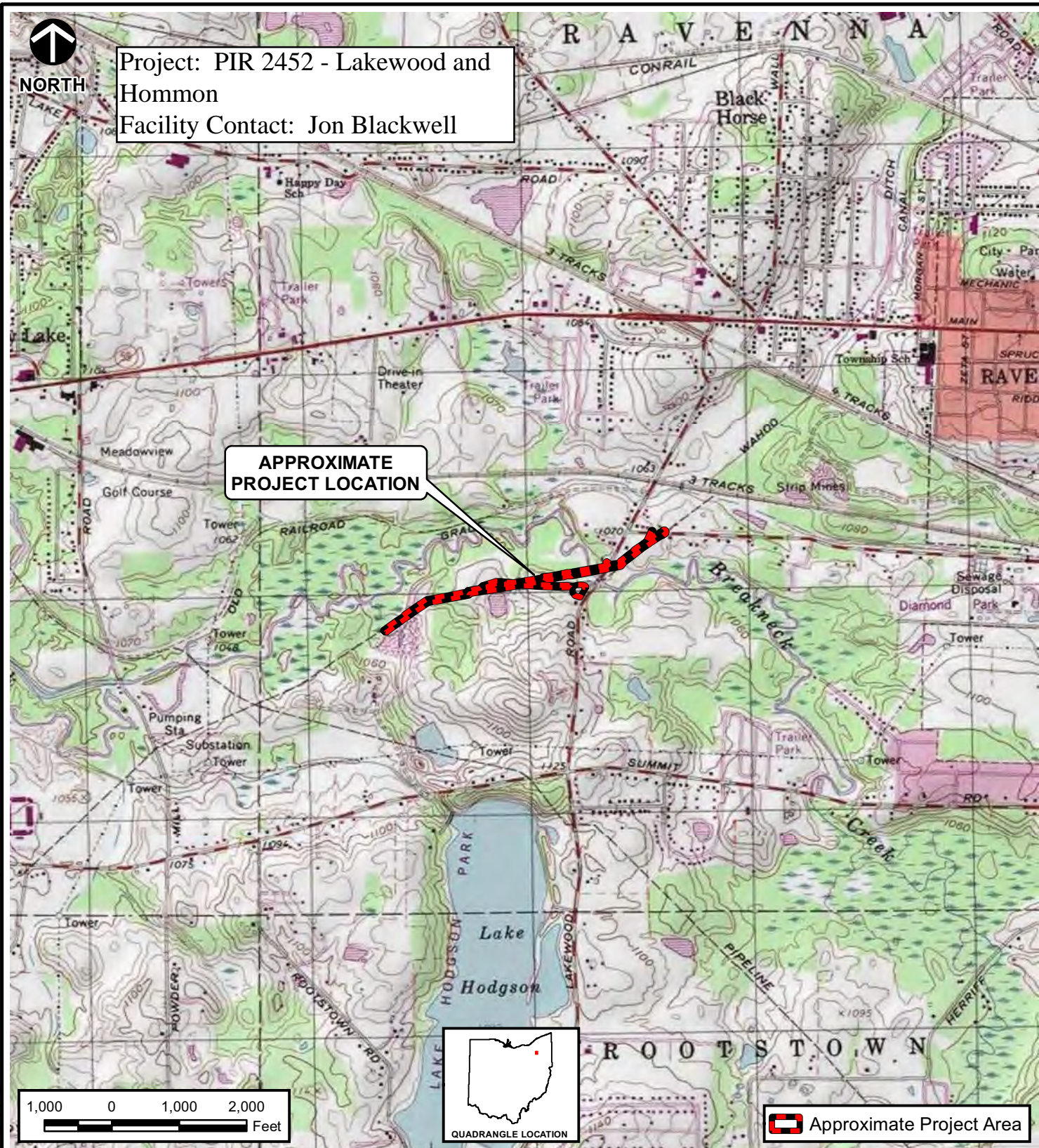
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

Applicant Name (printed or typed):

Title:

Signature:	Date:
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P:\2016\163-193-GIS\163193 SWPPP Figure A2.mxd - 5/25/2018 - 11:41:24 AM (arodrian)



Civil & Environmental Consultants, Inc.

5899 Montclair Boulevard - Cincinnati, OH 45150
513-985-0226 - 800-759-5614
www.cecinc.com

THE EAST OHIO GAS COMPANY
PIPELINE INFRASTRUCTURE REPLACEMENT (PIR)
PIR 2452 - LAKEWOOD & HOMMON PROJECT
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO

SITE LOCATION MAP

DRAWN BY:	MHS	CHECKED BY:	AJR	APPROVED BY:	JB*
DATE:	MAY 25, 2018	DWG SCALE:	1" = 2,000'	PROJECT NO:	163-193

FIGURE NO:

Appendix A-2

Signature on File *



Portage
Soil & Water
Conservation District

6970 State Route 88
Ravenna, Ohio 44266
Phone: (330) 297-7633
Fax: (330) 296-5917
www.portageswcd.org

December 21st, 2018

Dominion Resources Services, Inc.
320 Springside Dr., Suite 320
Akron, Ohio 44333

Attn: Greg Eastridge

Ref: SWP3 Approval
Proj: Pipeline Replacement (PIR 2452 Lakewood & Hommon)

The storm water pollution prevention plan (SWP3) and accompanying report for the proposed pipeline replacement project in Portage County, Ohio were reviewed for compliance with the Ohio EPA NPDES Phase II General Construction Permit and for compliance with the Portage County Construction Site Sediment, Erosion and Storm Water Management Rules. This plan has been approved as submitted as of 12/21/2018. Please notify this office prior to any earth moving activities.

Sincerely,

A handwritten signature in blue ink, appearing to read "Eric Long", with a long horizontal stroke extending to the right.

Eric Long
Storm Water Engineer
Portage County Soil & Water Conservation District
(330) 235-6812
elong@portageswcd.org

**CASE No. 19-714-GA-BNR
PIR 3368 LAKEWOOD ROAD EAST
RAVENNA TOWNSHIP, PORTAGE COUNTY, OHIO
PIPELINE REPLACEMENT PROJECT**

ATTACHMENT F

**OHIO ENVIRONMENTAL PROTECTION AGENCY
NOI GENERAL CONSTRUCTION STORMWATER PERMIT**



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

Nov 13, 2018

The East Ohio Gas Co d/b/a Dominion Energy Ohio
Greg Eastridge
320 Springside Drive, Suite 320
Akron, OH 44333

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

Dear Applicant,

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:	PIR 2452 Lakewood & Hommon Pipeline Replacement
Facility Location:	Lakewood Road and Hommon Road
City:	Ravenna
County:	Portage
Township:	Ravenna
Ohio EPA Facility Permit Number:	3GC10485*AG
Permit Effective Date:	Nov 13, 2018

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>.

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,

Craig W. Butler
Director

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

4/17/2019 11:55:04 AM

in

Case No(s). 19-0714-GA-BNR

Summary: Text The East Ohio Gas Company d/b/a Dominion Energy Ohio Construction Notice - Part 1 of 3 electronically filed by Teresa Orahod on behalf of Devin D. Parram