

Attachment H

Stormwater Pollution Prevention Plan



Storm Water Pollution Prevention Plan

3885-138kV East Provident Loop – New Build
Butler County, Ohio

Cardno Project J156720M58

July 31, 2017

Prepared for: **Duke Energy**
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Document Information

Project Site Owner	Duke Energy
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Project(s) Name	3885 – 138kV East Provident Loop – New Build
Project(s) Number	Cardno #J156702M58 Duke #P7594
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This plan was prepared in accordance with the Rainwater and Land Development: Ohio's Standards for Stormwater Management, Land Development and Urban Stream Protection published December 2006 by the Ohio Department of Natural Resources Division of Soil and Water Conservation and in compliance with ORC Chapter 1511, ORC Chapter 6111, and OAC Chapter 3745-38. In Ohio, responsibility for regulating storm water is held by both local and state authorities. Locally, municipalities, townships, and counties have the authority to regulate storm water. Ohio EPA administers the National Pollutant Discharge Elimination System (NPDES) program which regulates wastewater discharges that are associated with construction and/or land disturbing activities by limiting the quantities of pollutants to be discharged and imposing monitoring requirements and other conditions.

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Acronyms

SWPPP	Storm Water Pollution Prevention Plan
NWP	Nationwide Permit
OEPA	Ohio Environmental Protection Agency
USACE	United States Army Corps of Engineers

SECTION A – Basic Plan Elements

A1 Plan Index showing locations of required items

See Table of Contents

A2 11 X 17 inch plat showing building lot numbers/boundaries and road layout/names

Please refer to Appendix A, Figure 4, Environmental Access and Erosion Control Plan.

A3 Narrative describing project nature and purpose

The project involves work to create a new transmission line that is approximately 0.27 miles long, and contains a 150-foot wide Duke Energy transmission line corridor Right-Of-Way (ROW), and includes 12 structures. The 3885 Transmission Line begins north of Provident Drive (39.31430, -84.45795), and terminates south of Provident Drive (39.31245, -84.45778) as it enters the existing Duke Energy right-of-way (ROW).

The proposed project is necessary to accommodate the construction of East Provident Substation which will be built to ensure dependable, cost effective, and reliable service to meet the growing energy demand in Butler County, Ohio.

Construction will be accomplished largely through the use of bucket trucks with truck-mounted augers for structure installation and other construction vehicles transporting cable spools to install the transmission cable along the route. Excavation will be restricted to the locations where the installation of new structures will occur. Earth moving activities are anticipated to be minimal, if any. The extent of access disturbance can vary widely dependent upon many factors, including density and type of surface, vegetative cover, weather conditions, and the type of vehicles moving over the area. The existing vegetation will be preserved to the maximum extent practicable.

Project construction is expected to begin in Fall, 2017.

A4 Vicinity map showing project location

Please refer to Appendix A, Figure 1, Project Vicinity map, which provides a simplified layout of Project activities and adjacent land features and information.

A5 Legal description of the project site

The Project is located within the below section:

Monroe Quad

Section 2, Township 2N, Range 2E, Civil Township: Union

A6 Location of all lots and proposed site improvements

The proposed project is linear in scope and will take place within new and existing transmission line ROW. Only approved areas beyond the ROW will be used for equipment storage, temporary access routing, and laydown areas. Where feasible, construction activities at structure locations will be performed from roadways to minimize soil disturbance. Maps of the project site including structure locations, parcel boundaries, and water resources can be found in Appendix A, Figure 4, Environmental Access and Erosion Control Plan.

A7 Hydrologic Unit Code (HUC)

The project lies within the boundaries of the following 14-Digit USGS Hydrologic Unit Code watersheds:

Mill Creek Headwaters below East Fork Mill Creek– (05090203010010)

A8 Notation of any State or Federal water quality permits

A total of three potentially regulated waters including one unnamed intermittent stream (Stream 1), one palustrine emergent/scrub-shrub wetland complex (Wetland 1) and one palustrine emergent wetland (Wetland 2) were identified within the Project Study Area. Eight proposed structures and two access roads are located within or immediately adjacent to a potentially jurisdictional wetland. A permit must be obtained from the U.S. Army Corps of Engineers (USACE) and the Ohio Environmental Protection Agency (OEPA) prior to any filling, dredging, or mechanical land clearing that occurs within the boundaries of any 'waters of the U.S.' or 'waters of the State'.

A9 Specific points where storm water discharge will leave the site

All discharges are planned to consist solely of storm water runoff through sheet flow leading to existing water courses. There are no planned non-storm water discharges associated with the proposed project.

A10 Location and names of all wetlands, lakes, and watercourses on and adjacent to the site

Wetlands, watercourses, and other waters have been delineated with respect to pole placement. These locations are shown in Appendix A, Figure 4, Environmental Access and Erosion Control Plan. The National Wetland Inventory (NWI) mapped wetlands are shown in Appendix A, Figure 1, Project Vicinity.

A11 Identification of all receiving waters

The storm water runoff from this project will ultimately discharge into the Ohio River via an unnamed tributary to the Mill Creek in Butler County, Ohio.

A12 Identification of potential discharges to groundwater

The proposed site does not contain any known sinkholes, active or abandoned wells, or any other direct groundwater recharge points. Any recharging of the groundwater supply by water from the proposed site will be by natural means of infiltration through the soil.

A13 100 year floodplains, floodways, and floodway fringes

There are no designated 100-year floodplains, floodways, or floodway fringes identified within the Study Area.

A14 Pre-construction and post-construction estimate of peak discharge

Based on the nature of this project, there will be no impounded storm water. There is no anticipated significant change in peak discharge from this project site between pre-construction and post-construction site conditions or new or impervious surfaces.

A15 Adjacent land use, including upstream watershed

Adjacent land use consists of a mix between commercial development, secondary growth forest, and industrial development.

A16 Locations and approximate boundaries of all disturbed areas

The majority of ground disturbance will occur within off-road sections of construction vehicle access routes and the structure installation locations. The expected disturbance for this project is conservatively estimated at 0.3 acres (20-foot wide access footprint for proposed 100 feet of off-road construction access routes).

A17 Identification of existing vegetative cover

The existing vegetative cover is mixture of secondary growth forest, palustrine emergent wetland, palustrine emergent/scrub-shrub complex, and maintained turf/industrial land.

A18 Soils map including descriptions and limitations

According to the NRCS Soil Survey Geodatabase data collected for Butler County, 4 different soil types are present within the Study Area. A Soil Map of the project area with descriptions and limitations is shown on Figure 3.

Fincastle silt loam (FcA) is the most common soil type in the Study Area and is typically characterized by deep, poorly drained soils with slope ranging from 0 to 6 percent. It is not considered a hydric soil. Patton silty clay loam (Pa) is characterized by deep, poorly drained soils with slopes ranging from 0 to 2 percent and is considered a hydric soil. Russell-Miamian silt loam is characterized by deep, well drained soils with slopes ranging from 2 to 6 percent, is moderately eroded, and is not considered a hydric soil. Dana silt loam consists of deep, moderately well drained, moderately slow permeability with 0 to 6 percent slopes, and is not considered a hydric soil.

A19 Locations, size, and dimensions of proposed storm water systems

There is no proposed construction of any permanent storm water systems.

A20 Plan for any off-site construction activities associated with this project

No off-site construction activities are planned for this project.

Temporary staging and laydown areas for both new and used structures and other equipment are identified near the time of construction. Typically, Duke Energy substations are utilized for storage, and used structures are taken off-site. Storm water protection will be integrated as necessary at laydown areas and amended into the plan and routine inspections by the Construction Supervisor.

A21 Locations of proposed soil stockpiles, borrow and/or disposal areas

It is anticipated that no soil fill will be brought in. However, gravel backfill will be used at structure locations. Where wetland or stream impacts may occur, spoils management protocol will be followed during structure installation. Where appropriate, any excavated soil, gravel backfill, or other construction material will be stored on construction matting within a wetland area and erosion control measures will be implemented. Excess soil from boring or auguring operations will be permanently relocated to an upland location away from surface drainage ways and wetland areas adjacent to structure replacement locations.

A22 Existing site topography at an interval appropriate to show detailed drainage patterns

Given the project corridor runs through variable terrain, the existing drainage patterns are best depicted and evaluated with 2 foot contours shown in Appendix A, Figure 4, Environmental Access and Erosion Control Plan.

A23 Proposed final topography at an interval appropriate to show detailed drainage patterns

Final post-construction contours will match pre-construction condition to the extent practicable. The construction scope is limited to the replacement of utility structures and overhead facilities.

SECTION B – Active Construction Component

B1 Description of potential pollutant sources associated with the construction activities

The anticipated pollutants to be generated by this type of construction include the following:

- Sediment carried off-site by storm water runoff
- Vegetation debris generated during onsite vegetation removal
- Concrete washout and dewatering operations for projects with foundations
- Domestic garbage from construction workers
- Potential for petroleum spills from heavy equipment operation and refueling

Clearing and/or maintenance trimming will involve mowing and limb cutting with standard forestry equipment and hand cutting where required. In instances where tree or large limbs are removed entirely for access or maintenance they will be cut into appropriate lengths for use by the landowner, or otherwise chipped within the ROW. Digging, grubbing, and any other disturbance will be restricted to locations where the installation of new structures will occur. All excavated materials will be distributed in approved upland locations away from surface drainage ways. Wood chippings and other low-height vegetation will be distributed within the ROW to the maximum extent possible to assist in soil stabilization and sediment runoff control.

Any and all domestic garbage generated onsite such as disposable food and drink containers and other items shall be either carried off-site and properly disposed or deposited into a construction dumpster provided onsite. The project site shall be monitored on a daily basis for the proper disposal of such waste.

The erosion of exposed soils by storm water runoff shall be controlled through the installation of best management practices (BMPs) such as silt fence, fiber rolls, or similar barriers, followed by seeding and mulching. All such practices shall be installed and maintained in accordance with Appendix B, Storm Water Pollution Prevention Plan Typical Details.

Equipment cleaning will be limited to water washing in sediment and erosion controlled areas as required to insure reliable equipment operations while preventing the tracking of excessive dirt and mud from the project site. Soil materials that may need to be removed from the Project ROW will be taken to an upland area or other designated disposal area.

Concrete washout will be completed on projects with foundations at designated concrete washout stations for containment of this waste in accordance with Appendix B, Storm Water Pollution Prevention Plan Typical Details. Any dewatering associated with the excavation for the placement foundations will be conducted through an approved dewatering bag or other upland means of filtering dewatering point discharges.

B2 Sequence describing storm water quality measure implementation relative to land disturbing activities

Due to the nature of the Project, multiple construction stages may take place simultaneously within the Project area. Below is the general sequence of construction activities and storm water quality measures implementation:

The general sequence of construction activities includes the following:

- 1) Installation of temporary construction entrances
- 2) Installation of temporary erosion and sediment control measures
- 3) Construction equipment access
- 4) Removal of existing pole and conductors
- 5) Installation of new poles and conductors

- 6) Final restoration (final grading, seeding, and stabilization)
- 7) Removal of temporary erosion and sediment control measures
- 8) Removal of temporary construction entrances

The storm water pollution prevention measures described within this SWPPP will be installed and inspected before soil disturbing activities commence. Structural erosion controls may also need to be installed along equipment access routes dependent upon site condition. These needs will be assessed as the project progresses. Any erosion controls that need to be moved for equipment transfers will be restored, to the extent practical, before significant rainfalls occur. All storm water quality control measures shall be inspected regularly. At the completion of the project all disturbed areas will be stabilized with vegetation and straw mulch. All measures will be in accordance with guidelines provided in the *Rainwater and Land Development* and this Plan.

As conditions may vary from pre-project condition during construction, sediment control measures may be altered and additional locations for such measures may be needed depending upon changing field conditions. Additional measures may be required and implemented as they become warranted and should be documented in Appendix D, SWPPP Amendment Log. Recognizing the increased potential for erosion, special care will be taken to seed and mulch construction travel ways in highly erodible or steep slope areas. Additional measures such as water bars, erosion matting, or other appropriate measures may be employed as necessary to protect the land surface from erosion.

Stabilized construction entrances or other means of limiting the tracking of sediment and debris off-site will be used at roadway intersections whenever possible. All debris or sediment tracked onto road ways will be removed at the end of the day to the maximum extent possible. Large equipment movement to each structure associated with, but not limited to, disassembly, framing, and clipping-in of line will be limited to the maximum extent possible to further reduce ground disturbance.

Temporary or permanent seeding stabilization will adhere to specifications in Subsections B11 and B12. Vegetated areas with a density of less than seventy percent (70%) shall be re-stabilized using appropriate methods to minimize the erosion potential. No structural erosion controls will be removed until construction has permanently stopped and reseeding and mulching has occurred. After the entire project is complete and vegetated coverage is at least 70%; any accumulated sediment, fiber rolls, silt fence, or other specified erosion and sediment control measures will be removed.

Wherever equipment crossing drainage ways in steeply, sloping areas will result in soil disturbances, a combination of temporary timber matting bridges and water bars to divert runoff to sediment controls or vegetative filter areas can help reduce impacts from concentrated flows to receiving streams.

B3 Stable construction entrance locations and specifications

Stabilized construction entrances will be installed when warranted based on project duration or varying site conditions impacted by wet weather patterns. Special consideration shall be given for installation of a stable construction entrance in the event of wet weather or high ingress and egress traffic. Stable construction entrances and other means of limiting the tracking of sediment and debris off-site will be used. Additional construction entrances, other than the ones indicated in the Plans, may be required and implemented as they become warranted based on variable site conditions. All debris or sediment tracked onto road ways will be removed at the end of the day to the maximum extent possible. The existing construction entrances will be evaluated and modified to be in accordance with *Rainwater and Land Development* and this Plan as deemed necessary.

B4 Sediment control measures for sheet flow areas

Runoff and sediment control practices will include a combination of fiber roll (or other plant fiber-based barrier) and/or silt fencing. These sedimentation and erosion control measures will be located at specific locations along the construction route to prevent sediment runoff into streams, wetlands, and other open waters. The placement and use of erosion control structures indicated in Appendix A, Figure 4,

Environmental Access and Erosion Control Plan will be installed in accordance with Appendix B, Storm Water Pollution Prevention Plan Typical Details and be in compliance with the *Rainwater and Land Development* manual. If required, additional appropriate structural controls will be implemented as the Project progresses. Plan changes require approval of Duke Energy.

B5 Sediment control measures for concentrated flow areas

No areas of concentrated flow are expected for this project. If conditions necessitate fiber roll or rock check dams will be used, as appropriate, within the ephemeral drainages along the route to limit sedimentation within the drainage and off-site. At locations where equipment crosses drainage ways in steeply-sloping areas, which could result in soil disturbance, a combination of temporary timber matting bridges and water bars to divert runoff to sediment controls or vegetative filter areas can help reduce impacts from concentrated flows to receiving streams.

B6 Storm sewer inlet protection measure locations and specifications

Where applicable, BMPs (fiber rolls, temporary matting, or other catch basin protection) will be installed to prevent erosion from storm water runoff from areas of construction to enter directly into the storm sewer.

B7 Runoff control measures

Water bars can be used to prevent runoff flows from occurring in wheel rutting on steep slopes which will impact receiving streams.

B8 Storm water outlet protection specifications

Not applicable for this project.

B9 Grade stabilization structure locations and specifications

Not applicable for this project.

B10 Location, dimensions, specifications and construction details of each storm water quality measure

The locations of the sediment control structures are indicated in Appendix A, Figure 4, Environmental Access and Erosion Control Plan. The general specifications for each practice are located in Appendix B, SWPPP Typical Details. As construction progresses Duke Energy will consider modification to or addition of erosion control structures depending on changing site conditions with respect to slope and proximity to adjacent water bodies.

B11 Temporary surface stabilization methods appropriate for each season

In the event temporary stabilization is required (when construction activity has ceased but will resume in twenty-one (21) days or more), either seeding or mulch application or other stabilization measure will be implemented within seven (7) days of the most recent disturbance. Mulch alone is acceptable temporary cover and may be use in lieu of temporary seeding, provided that it is appropriately anchored. A high potential for fertilizer, seed, and mulch to wash exists on steep banks, cuts, and in channels and areas of concentrated flow.

Table 1. Temporary Seed Mixture

Species	Application Rate
Annual Ryegrass	40 lbs./acre
Oats	128 lbs./acre
Tall Fescue	40 lbs./acre

Straw mulch should be used at a rate of 2 tons/acre or 90 lbs./1,000 sq. ft. for seed protection and additional erosion control. It should be spread by hand or machine and be crimped or anchored, as appropriate. If slopes necessitate the use of a mulch cover, then erosion control blanketing shall be

substituted. No hay should be used as it may introduce invasive non-native species to adjacent undisturbed habitats (such as hardwood forests or wetland areas).

B12 Permanent surface stabilization specifications

Areas within fifty (50) feet of a stream will require permanent surface stabilization within two (2) days of the last disturbance. Stream bank and riparian floodplain areas shall be mulched and seeded with the Stream Bank and Riparian Areas Restoration Seed Mix as recommended by Ohio DNR staff as follows.

Table 2. Stream Bank and Riparian Areas Restoration Seed Mix

Grass and Sedge Species	Application Rate
<i>Andropogon gerardii</i> (Big Bluestem)	24 oz./acre
<i>Bouteloua curtipendula</i> (Sideoats Grama)	1 oz./acre
<i>Carex bicknellii</i> (Prairie Oval Sedge)	2 oz./acre
<i>Elymus canadensis</i> (Canada Wild Rye)	2 oz./acre
<i>Dactylis glomerata</i> (Orchard grass)	24 oz./acre
<i>Panicum virgatum</i> , (Switchgrass)	4 oz./acre
<i>Schizachyrium scoparium</i> (Little Bluestem)	3 oz./acre
<i>Sorghastrum nutans</i> (Indian Grass)	0.5 oz./acre
Cover Crop Species	Application Rate
<i>Avena sativa</i> (Seed Oats)	800 oz./acre
<i>Lolium multiflorum</i> (Annual Ryegrass)	160 oz./acre

All other areas of soil disturbance will be seeded and mulched for permanent surface stabilization within seven (7) days in areas where construction has ceased and the site is at final grade or will lay dormant for more than one (1) year. Any permanent seeding should consist of a seed mixture appropriate for the area that has been disturbed and conducted during the season appropriate for its installation.

Non-agricultural areas including access and other vegetated ROW areas shall be permanently mulched and seeded with a general use permanent seed mix consisting of the following:

Table 3. General Use Permanent Seed Mixture

Species	Application Rate
Kentucky Bluegrass	20-40 lb/acre
Perennial Ryegrass	10-20 lb/acre
Creeping Red Fescue	20-40 lb/acre

Permanent seeding should consist of a seed mixture outlined in Table 7.10.2 from the *Rainwater and Land Development* manual. The seed mixture selected should be appropriate for the area that has been disturbed and conducted during the season appropriate for its installation. This will include non-agricultural areas including access and other vegetated Right-of-Way areas. Site Preparations for installing both seed mixes are as follows:

Site Preparation: Use appropriate equipment to level disturbed areas and return to original grades focusing on reinforcing positive drainage. Avoid compaction during construction by placing equipment on mats to access wet or saturated areas. Soil amendments are acceptable in non-native seeding areas.

Seed Preparation: Thoroughly mix the seed prior to planting as many of the heavier seeds may have settled during shipping. The seed mix will contain a temporary cover of Common Spring Oat and Annual Ryegrass to accelerate re-vegetation.

Planting: Seed will be worked into the soil no greater than a ¼ inch in depth. For smaller areas a hand broadcaster and rake can be used. For larger areas the seed can be installed mechanically with a seed box

no-till drill (Truax™ Trillion Broadcast Seeder or equivalent). Areas that are too wet for mechanical seeding will be installed via the hand broadcasting method.

Mulching: Straw mulch should be used at a rate of 2 tons/acre for all natural areas, non-maintained areas, for seed protection and additional erosion control. Swales and other areas of concentrated flow should be stabilized with erosion control blanketing.

B13 Material handling and spill prevention plan

Unlikely incidents involving spills or releases of other non-sediment pollutants are expected to be limited to small quantities of petroleum products from construction vehicles, including but not limited to motor oil, transmission fluids, and hydraulic oils. Spill clean-up kits and personnel trained in their use will be at each construction location. No vehicle maintenance activities that could result in storm water contamination (oil changes or engine repairs) will be permitted outside of stabilized construction areas. Appropriate spill control measures (oil absorbent pads or booms) must be in place before maintenance activities occur.

Spills of any amount of petroleum product or polluting materials are to be prevented. The following list details general requirements necessary to avoid spills and minimize the impact of spills which occur accidentally:

- No bulk quantities of diesel fuel and gasoline will be stored on the site. No bulk quantities of hazardous materials including solvents and lubricants will be stored on the site.
- Vehicles and equipment are expected to be re-fueled off-site. Fuel carriers (if applicable) and transported equipment will be inspected on a daily basis for leaks prior to entering the site and will not be allowed on site until leaks are repaired.
- The equipment staging area will be located away from surface waters and any private and municipal water wells.
- All construction equipment will be inspected daily for leaks prior to start of work. Any leaking equipment will be repaired, as necessary.
- If any soil is contaminated with hydrocarbons or other objectionable material, it will be segregated and properly disposed of off-site.
- If concrete materials are used on-site, concrete washouts should be used. No washout of concrete materials should occur within wetland areas or other drainage ways.

Project related solid wastes will be collected regularly and transferred to a licensed solid waste disposal site. No construction waste materials will be buried onsite. Portable sanitary waste units will be utilized and available for the project. A licensed sanitary waste management contractor will collect sanitary waste from the portable units as necessary. It will be the responsibility of the Construction Supervisor to ensure that all construction personnel are instructed regarding the correct procedure for waste disposal and that these practices are followed.

Contractors shall provide all necessary labor, materials, equipment, and response capabilities to prevent oil releases. Contractors causing an oil release must take appropriate actions to minimize the environmental impacts of the release.

If a hazardous substance release or oil spill requiring attention shall occur during construction, the responsible party shall immediately contact the Duke Energy Construction Supervisor, who will then contact Duke Energy Health and Safety or Environmental Services to report the spill as necessary and ensure that the spill is cleaned up properly by the responsible party or an approved remediation contractor.

In an emergency, immediately report all spills to the appropriate Duke Energy Distribution Control Center (DCC). All spill notifications shall follow Duke Energy procedures.

Ohio DCC 1-513-621-2028

B14 Monitoring and maintenance guidelines for each proposed pollution prevention measure

To maintain the storm water management system in effective operating condition, erosion and sedimentation control structures will be inspected daily if construction personnel are actively working in the area. In addition, each installed erosion and sedimentation control structure, and areas contributing to storm water discharges at the locations of these structures, will also be regularly inspected at least weekly and again after each rainfall/precipitation event exceeding ½ inch in 24 hours by qualified personnel under the direction of Duke Energy.

Any damage or deficiency noted during routine or regular inspections will be recorded on a Storm Water Evaluation Form for Construction (Appendix C) and corrected as directed by the Construction Supervisor. The written inspection records will be kept on file and will include notes on any corrective actions taken. If requested, these records will be made available for review by the 'inspecting authority within 48 hours' per OAC Chapter 3745-38 (NPDES). Inspection records will be kept onsite with the SWPPP to the greatest extent possible.

Any deficiencies will be corrected by repair of damaged or deteriorated controls or by modifying structural or operational practices to achieve the desired results. If needed, the SWPPP shall be revised following such modifications.

Maintenance of stabilization and erosion control measures will include the following:

- "Qualified Inspection Personnel" under the direction and designation of the Construction Supervisor will be responsible for inspections of the erosion controls and completion of the Storm Water Evaluation Form for Construction.
- It is the responsibility of the Construction Supervisor that all personnel selected for maintenance responsibilities are trained in repairs as necessary to keep the erosion and sedimentation controls in good working order.
- Fiber rolls, silt fence, or other specified erosion control measure will be inspected for proper installation and function to include the following; proper anchoring of all controls, depth of sediment, separation from adjacent structures, and to see that stakes are firmly in the ground. Built up sediment will be removed when it has reached one-half (1/2) the height of the control and placed in previously stabilized and upland area.
- Seeded areas shall be checked regularly for bare spots, washouts, and healthy growth to assure that a good stand of grass is being maintained. Areas that fail to establish vegetation cover will be re-seeded as soon as such areas are identified.
- Sediment tracking from temporary construction entrances onto roadways should be minimized and will be the responsibility of the Construction Supervisor. When sediment is observed on roadways it shall be removed at the end of each workday.

B15 Erosion & sediment control specifications for individual building lots

Not applicable for this project.

SECTION C – Post Construction Component

C1 Description of pollutants and their sources associated with the proposed land use

The proposed project is a new transmission line installation project consisting of improvements made solely to Duke Energy transmission ROW. No post construction pollutants are expected.

C2 Sequence describing storm water quality measure implementation

Seeding and vegetation establishment are the only long-term storm water quality measures proposed for the Project. See Subsection B11 and B12 for a description of seeding implementation.

C3 Description of proposed post construction storm water quality measures

The site will be returned to its previous use and condition. Post-construction pollutant controls are addressed by establishment of permanent vegetative cover in all areas.

C4 Location, dimensions, specifications and construction details of each storm water quality measure

See Subsection C3.

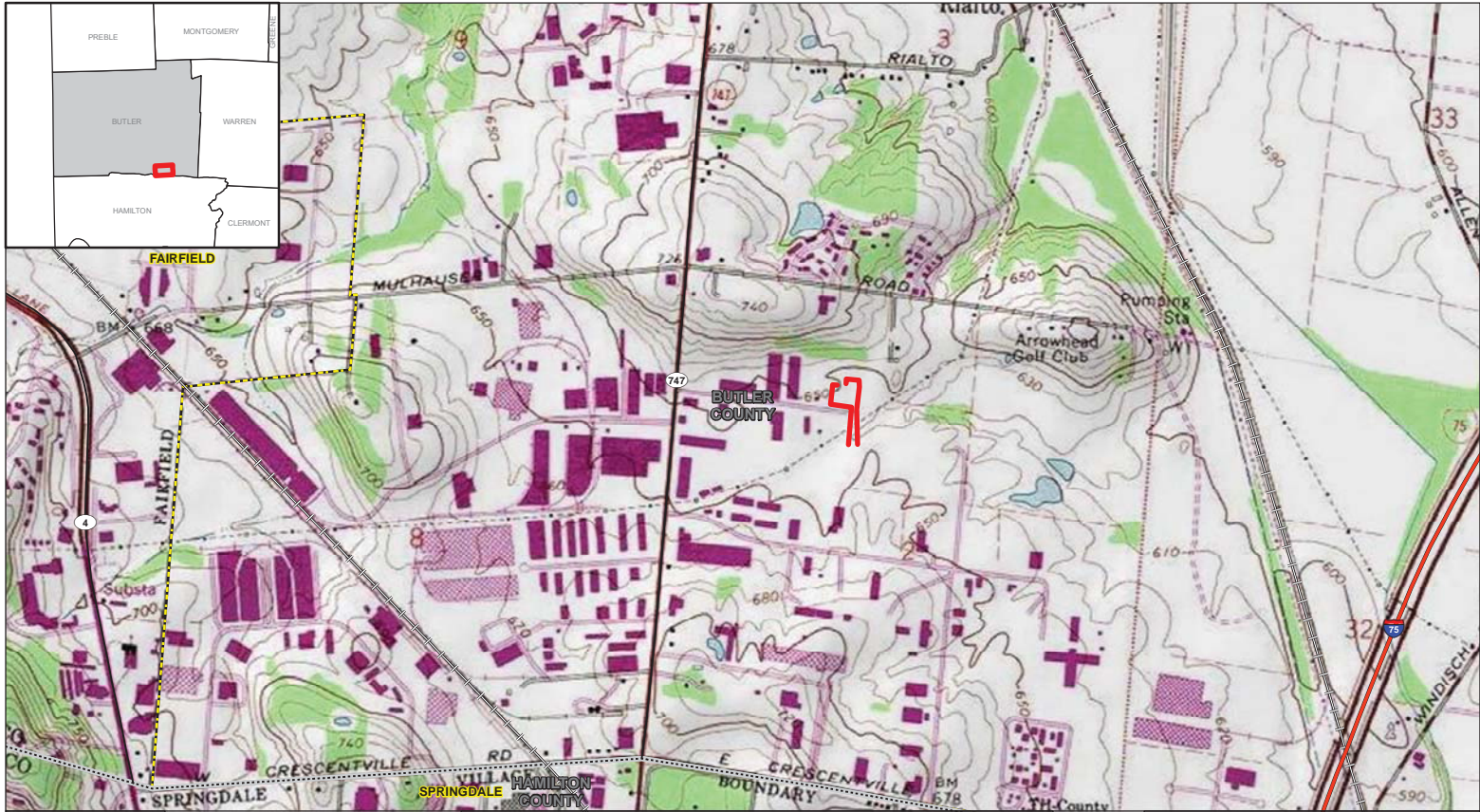
C5 Description of maintenance guidelines for proposed post construction water quality measures

Seeded areas will be inspected to ensure adequate vegetative establishment and coverage. Adequate coverage shall be defined as greater than or equal to 70% areal coverage by visual estimation. Reseeding, watering or fertilization shall be utilized to meet this goal. Fertilizer should not be used in areas requiring native seeding. The ROW will be maintained in accordance with easement guidelines and consist of vegetative mowing and/or woody removal.

Routine inspections and monitoring of erosion control structures will end and structures removed, once the disturbed soil areas are permanently re-established with a vegetative cover of at least 70% or greater density (final stabilization). Final stabilization in agricultural areas is defined as returning the disturbed land to its pre-construction agricultural use.

Appendix A

Figures



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE: GLENDALE, OHIO, OBTAINED VIA ESRI USA TOPO, NATIONAL GEOGRAPHIC TOPO, AND USGS, ACCESSED 01/2017.

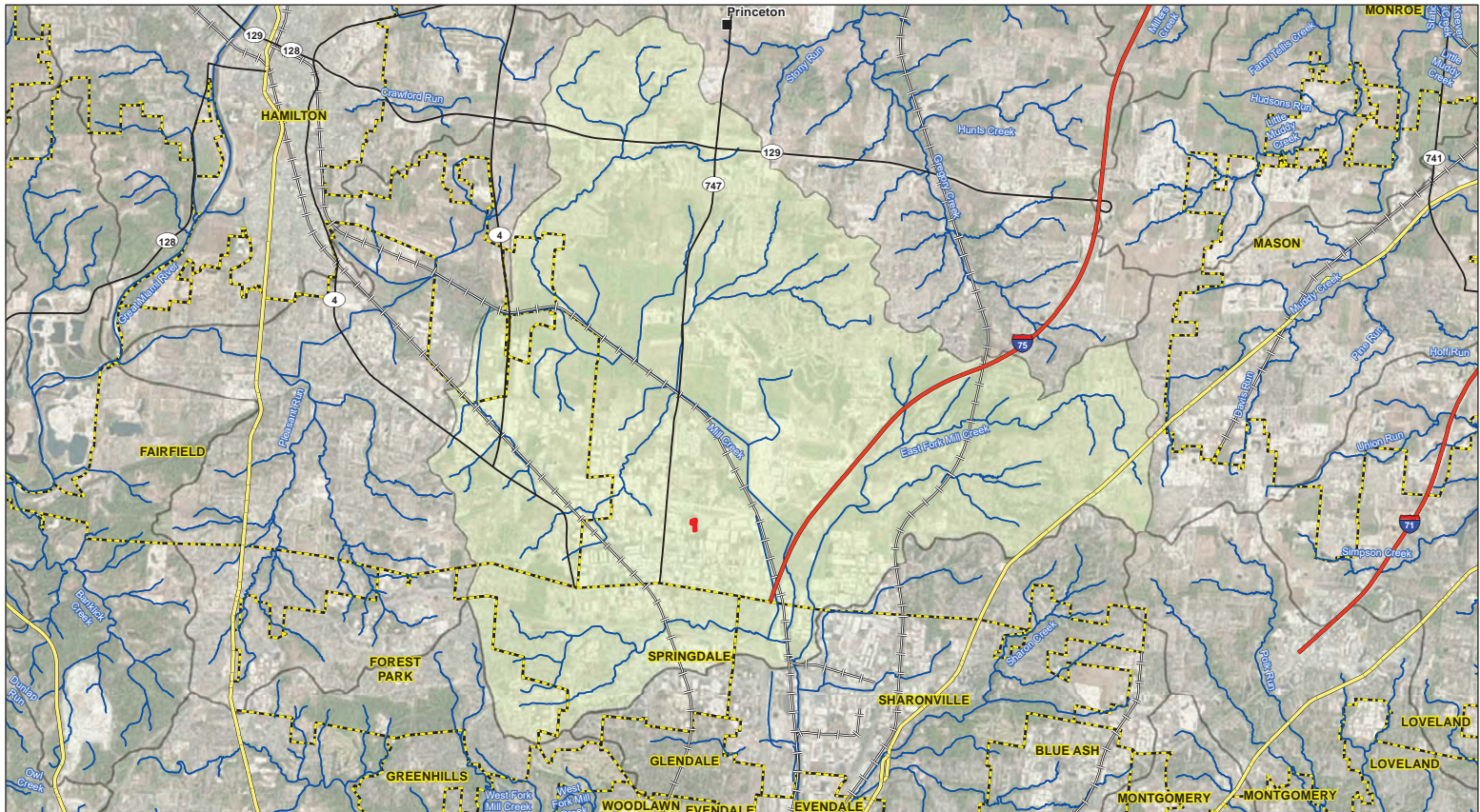


- Project Centerline
- Interstate
- State Highway
- US Highway
- Railroad
- County Boundary
- Municipal Boundary



FIGURE 1
STORMWATER POLLUTION PREVENTION PLAN
 3885 - 138KV EAST PROVIDENT LOOP
 DUKE ENERGY
 PROJECT VICINITY MAP

DRAWN BY: COD DATE: 7/28/2017
 CHECKED: CJ APPROVED: JT



REFERENCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE: GLENDALE, OHIO, OBTAINED VIA ESRI USA TOPO, NATIONAL GEOGRAPHIC TOPO, AND USGS, ACCESSED 01/2017.

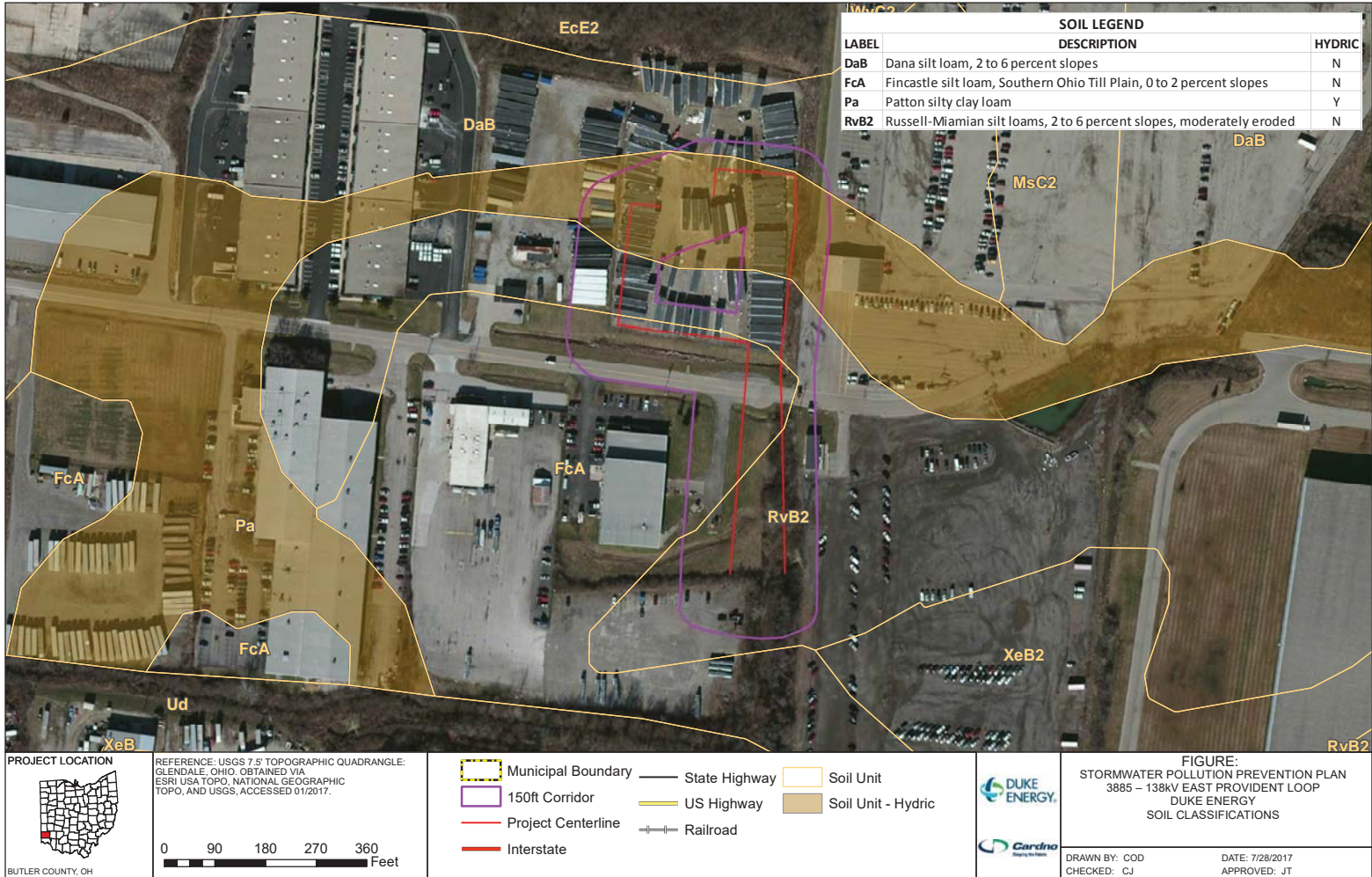
0 2,000 4,000 6,000 8,000 10,000 12,000 14,000 16,000 Feet

- Project Centerline
- Interstate
- State Highway
- US Highway
- Railroad
- Existing Facility
- NHD Flowline
- Municipal Boundary
- Adjacent Watersheds
- Mill Creek headwaters to below E. Fk. Mill Cr.



FIGURE 2
STORMWATER POLLUTION PREVENTION PLAN
3885 - 138KV EAST PROVIDENT LOOP
DUKE ENERGY
PROJECT AREA WATERSHEDS

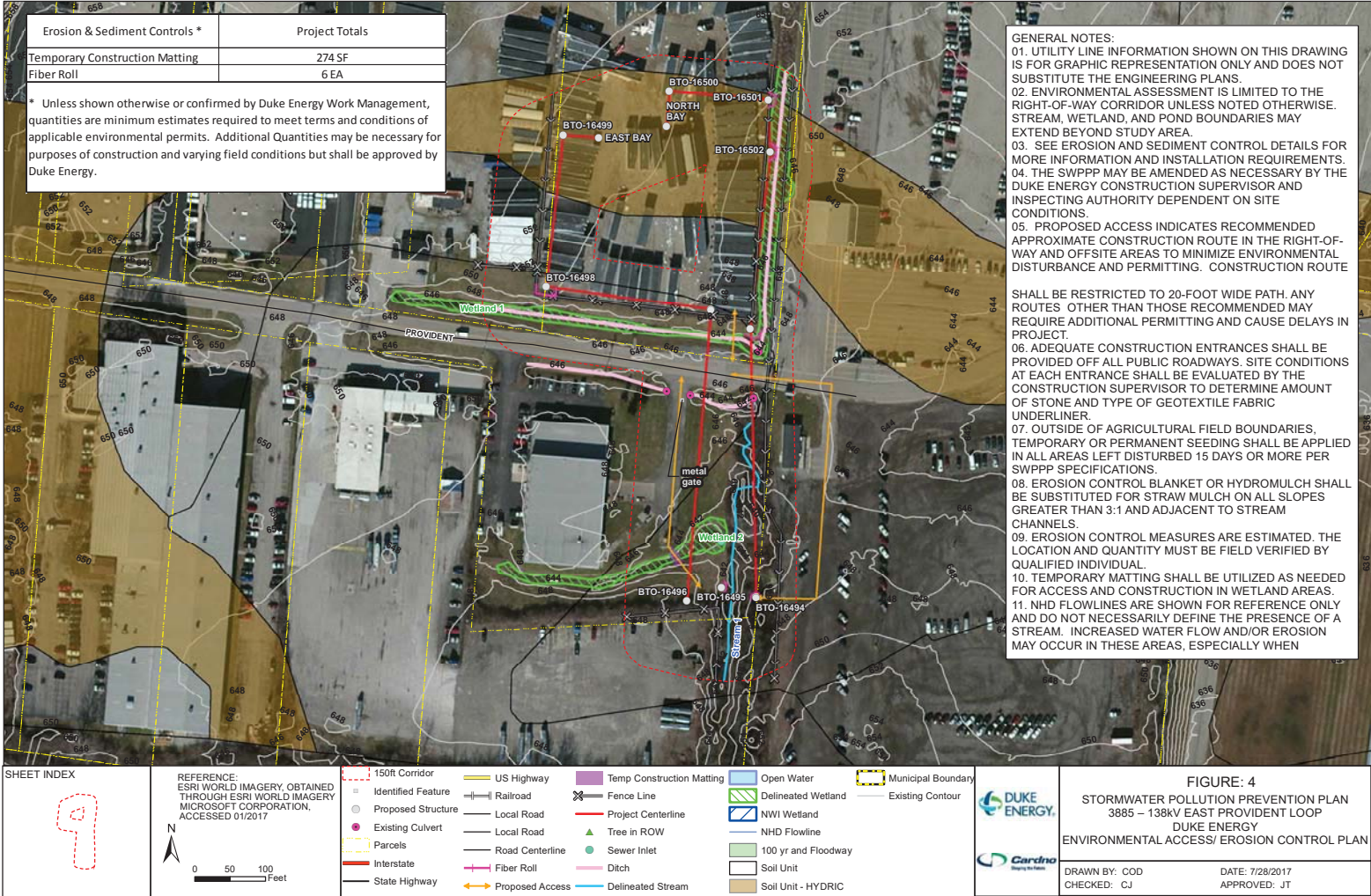
DRAWN BY: COD DATE: 7/28/2017
 CHECKED: CJ APPROVED: JT



Erosion & Sediment Controls *	Project Totals
Temporary Construction Matting	274 SF
Fiber Roll	6 EA

* Unless shown otherwise or confirmed by Duke Energy Work Management, quantities are minimum estimates required to meet terms and conditions of applicable environmental permits. Additional Quantities may be necessary for purposes of construction and varying field conditions but shall be approved by Duke Energy.

- GENERAL NOTES:**
- UTILITY LINE INFORMATION SHOWN ON THIS DRAWING IS FOR GRAPHIC REPRESENTATION ONLY AND DOES NOT SUBSTITUTE THE ENGINEERING PLANS.
 - ENVIRONMENTAL ASSESSMENT IS LIMITED TO THE RIGHT-OF-WAY CORRIDOR UNLESS NOTED OTHERWISE. STREAM, WETLAND, AND POND BOUNDARIES MAY EXTEND BEYOND STUDY AREA.
 - SEE EROSION AND SEDIMENT CONTROL DETAILS FOR MORE INFORMATION AND INSTALLATION REQUIREMENTS.
 - THE SWPPP MAY BE AMENDED AS NECESSARY BY THE DUKE ENERGY CONSTRUCTION SUPERVISOR AND INSPECTING AUTHORITY DEPENDENT ON SITE CONDITIONS.
 - PROPOSED ACCESS INDICATES RECOMMENDED APPROXIMATE CONSTRUCTION ROUTE IN THE RIGHT-OF-WAY AND OFFSITE AREAS TO MINIMIZE ENVIRONMENTAL DISTURBANCE AND PERMITTING. CONSTRUCTION ROUTE SHALL BE RESTRICTED TO 20-FOOT WIDE PATH. ANY ROUTES OTHER THAN THOSE RECOMMENDED MAY REQUIRE ADDITIONAL PERMITTING AND CAUSE DELAYS IN PROJECT.
 - ADEQUATE CONSTRUCTION ENTRANCES SHALL BE PROVIDED OFF ALL PUBLIC ROADWAYS. SITE CONDITIONS AT EACH ENTRANCE SHALL BE EVALUATED BY THE CONSTRUCTION SUPERVISOR TO DETERMINE AMOUNT OF STONE AND TYPE OF GEOTEXTILE FABRIC UNDERLINER.
 - OUTSIDE OF AGRICULTURAL FIELD BOUNDARIES, TEMPORARY OR PERMANENT SEEDING SHALL BE APPLIED IN ALL AREAS LEFT DISTURBED 15 DAYS OR MORE PER SWPPP SPECIFICATIONS.
 - EROSION CONTROL BLANKET OR HYDROMULCH SHALL BE SUBSTITUTED FOR STRAW MULCH ON ALL SLOPES GREATER THAN 3:1 AND ADJACENT TO STREAM CHANNELS.
 - EROSION CONTROL MEASURES ARE ESTIMATED. THE LOCATION AND QUANTITY MUST BE FIELD VERIFIED BY QUALIFIED INDIVIDUAL.
 - TEMPORARY MATTING SHALL BE UTILIZED AS NEEDED FOR ACCESS AND CONSTRUCTION IN WETLAND AREAS.
 - NHD FLOWLINES ARE SHOWN FOR REFERENCE ONLY AND DO NOT NECESSARILY DEFINE THE PRESENCE OF A STREAM. INCREASED WATER FLOW AND/OR EROSION MAY OCCUR IN THESE AREAS, ESPECIALLY WHEN



SHEET INDEX

9

REFERENCE:
ESRI WORLD IMAGERY, OBTAINED THROUGH ESRI WORLD IMAGERY MICROSOFT CORPORATION, ACCESSED 01/2017

N

0 50 100 Feet

150ft Corridor	US Highway	Temp Construction Matting	Open Water	Municipal Boundary
Identified Feature	Railroad	Fence Line	Delineated Wetland	Existing Contour
Proposed Structure	Local Road	Project Centerline	NWI Wetland	
Existing Culvert	Road Centerline	Tree in ROW	NHD Flowline	
Parcels	Road Centerline	Sewer Inlet	100 yr and Floodway	
Interstate	Fiber Roll	Ditch	Soil Unit	
State Highway	Proposed Access	Delineated Stream	Soil Unit - HYDRIC	

FIGURE: 4

STORMWATER POLLUTION PREVENTION PLAN
3885 - 138KV EAST PROVIDENT LOOP
DUKE ENERGY
ENVIRONMENTAL ACCESS/ EROSION CONTROL PLAN

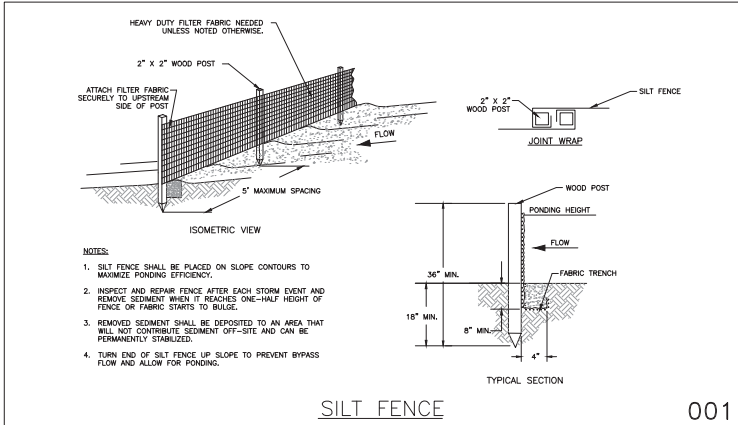
DRAWN BY: COD DATE: 7/28/2017
CHECKED: CJ APPROVED: JT

DUKE ENERGY

Cardno
Engineering & Construction

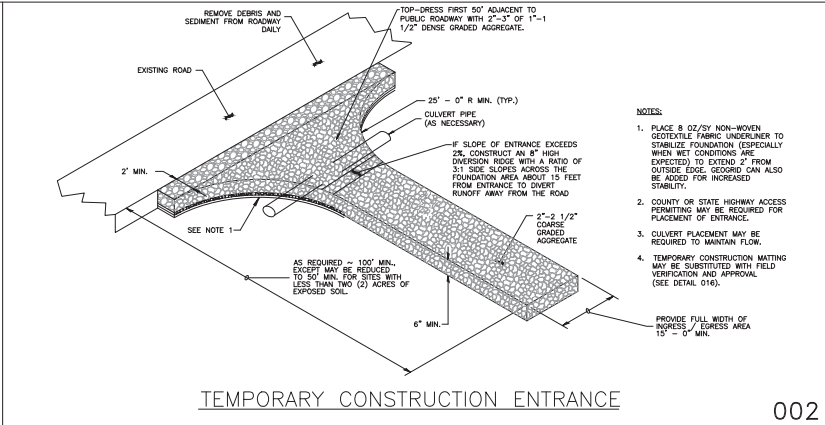
Appendix B

Storm Water Pollution Prevention Plan Typical Details



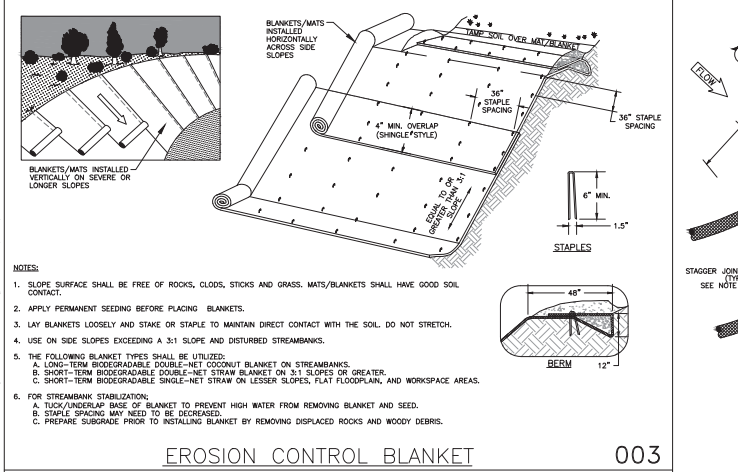
SILT FENCE

001



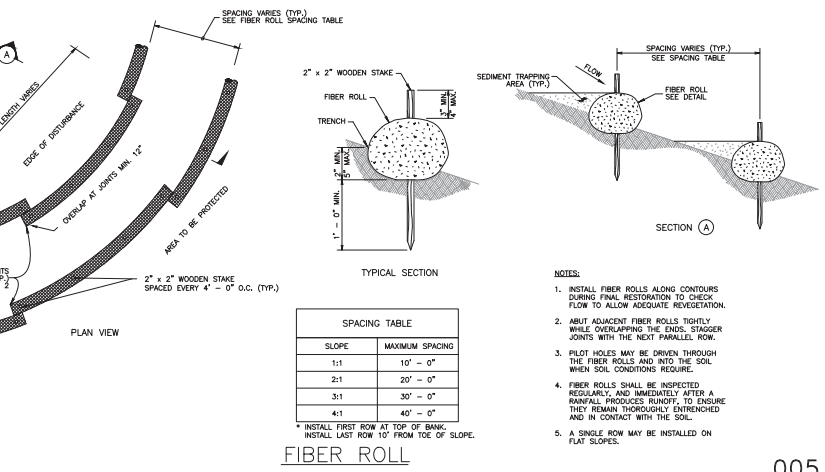
TEMPORARY CONSTRUCTION ENTRANCE

002



EROSION CONTROL BLANKET

003



FIBER ROLL

005

INTENTIONALLY LEFT BLANK

004

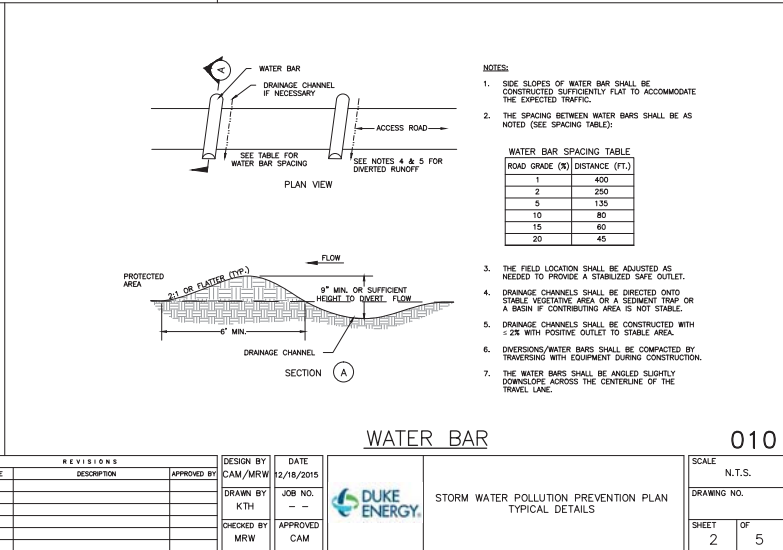
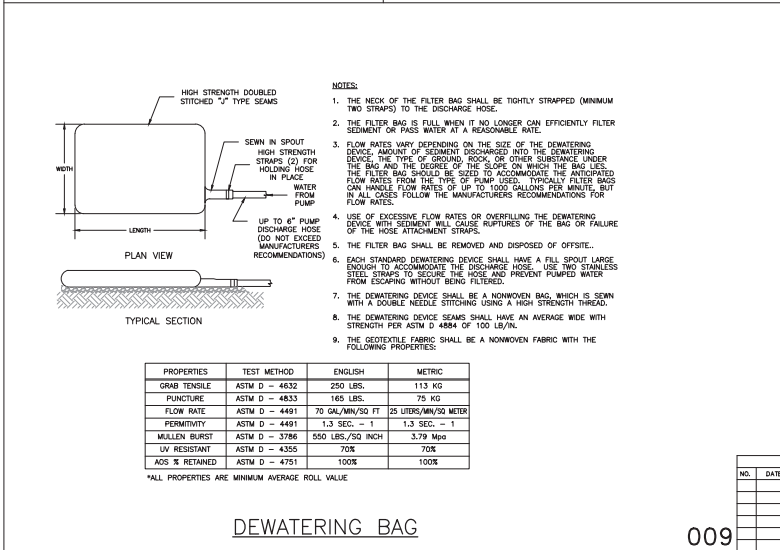
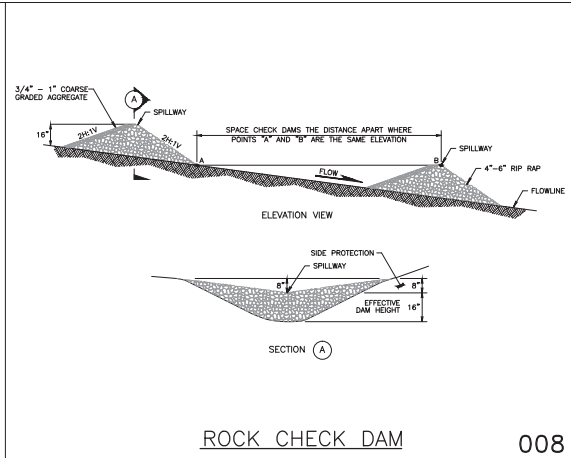
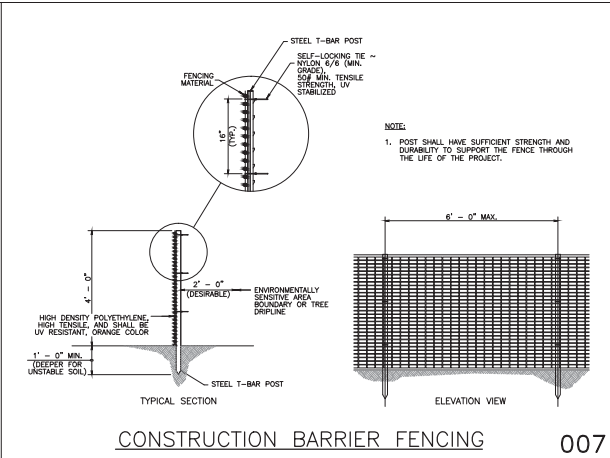
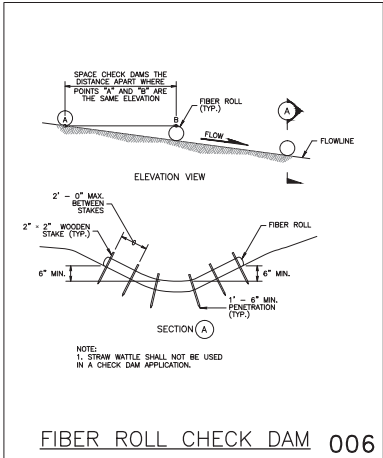
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NO.	DATE	DESCRIPTION	APPROVED BY	CAM/MRW	2/18/2015	
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						SHEET

DRAWN BY: KTH
 CHECKED BY: MRW
 APPROVED BY: CAM

DESIGN BY: CAM/MRW
 DATE: 2/18/2015
 JOB NO.: --
 APPROVED BY: CAM

STORM WATER POLLUTION PREVENTION PLAN
TYPICAL DETAILS

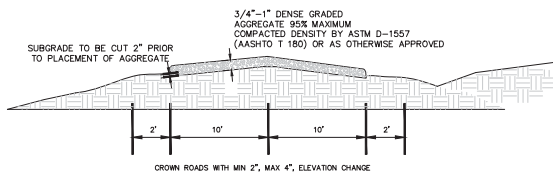
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 SHEET 1 OF 5



REVISIONS				DESIGN BY	DATE	SCALE
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				CAM		OF
						5

STORM WATER POLLUTION PREVENTION PLAN
TYPICAL DETAILS

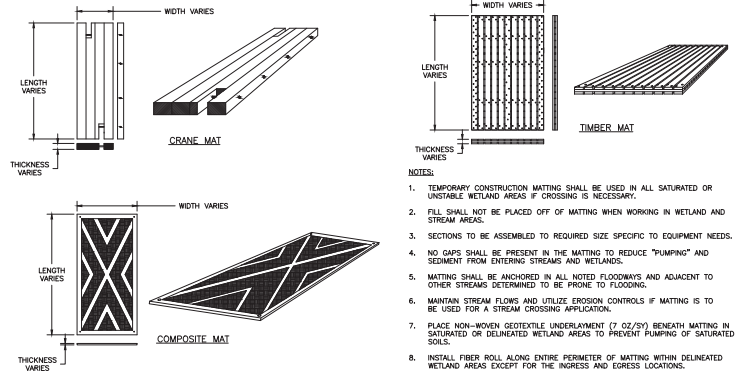
DUKE ENERGY



NOTE:
1. VARYING FIELD CONDITIONS MAY WARRANT ALTERNATE AGGREGATE GRADATIONS.

TEMPORARY ACCESS DRIVE

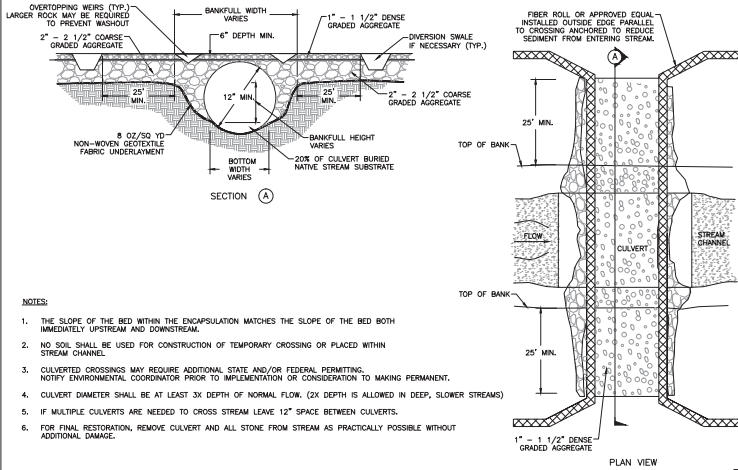
015



- NOTES:
1. TEMPORARY CONSTRUCTION MATTING SHALL BE USED IN ALL SATURATED OR UNSTABLE WETLAND AREAS IF CROSSING IS NECESSARY.
 2. FILL SHALL NOT BE PLACED OFF OF MATTING WHEN WORKING IN WETLAND AND STREAM AREAS.
 3. SECTIONS TO BE ASSEMBLED TO REQUIRED SIZE SPECIFIC TO EQUIPMENT NEEDS.
 4. NO GAPS SHALL BE PRESENT IN THE MATTING TO REDUCE "PUMPING" AND SEDIMENT FROM ENTERING STREAMS AND WETLANDS.
 5. MATTING SHALL BE ANCHORED IN ALL NOTED FLOODWAYS AND ADJACENT TO OTHER STREAMS DETERMINED TO BE PRONE TO FLOODING.
 6. MAINTAIN STREAM FLOWS AND UTILIZE EROSION CONTROLS IF MATTING IS TO BE USED FOR A STREAM CROSSING APPLICATION.
 7. PLACE NON-WOVEN GEOTEXTILE UNDERLAYMENT (7 OZ/SY) BENEATH MATTING IN SATURATED OR DELUGATED WETLAND AREAS TO PREVENT FIRMING OF SATURATED SOILS.
 8. INSTALL FIBER ROLL ALONG ENTIRE PERIMETER OF MATTING WITHIN DELINEATED WETLAND AREAS EXCEPT FOR THE INGRESS AND EGRESS LOCATIONS.

TEMPORARY CONSTRUCTION MATTING

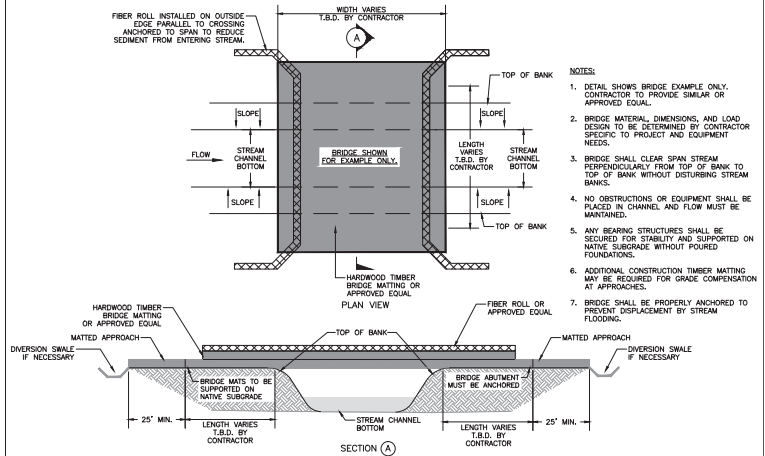
016



- NOTES:
1. THE SLOPE OF THE BED WITHIN THE ENCLOSURE MATCHES THE SLOPE OF THE BED BOTH IMMEDIATELY UPSTREAM AND DOWNSTREAM.
 2. NO SOIL SHALL BE USED FOR CONSTRUCTION OF TEMPORARY CROSSING OR PLACED WITHIN STREAM CHANNEL.
 3. CULVERTED CROSSINGS MAY REQUIRE ADDITIONAL STATE AND/OR FEDERAL PERMITTING. NOTIFY ENVIRONMENTAL COORDINATOR PRIOR TO IMPLEMENTATION OR CONSIDERATION TO MAKING PERMANENT.
 4. CULVERT DIAMETER SHALL BE AT LEAST 3X DEPTH OF NORMAL FLOW. (2X DEPTH IS ALLOWED IN DEEP, SLOWER STREAMS)
 5. IF MULTIPLE CULVERTS ARE NEEDED TO CROSS STREAM LEAVE 12" SPACE BETWEEN CULVERTS.
 6. FOR FINAL RESTORATION, REMOVE CULVERT AND ALL STONE FROM STREAM AS PRACTICALLY POSSIBLE WITHOUT ADDITIONAL DAMAGE.

TEMPORARY CULVERT STREAM CROSSING

017



- NOTES:
1. DETAIL SHOWS BRIDGE EXAMPLE ONLY. CONTRACTOR TO PROVIDE SIMILAR OR APPROVED EQUAL.
 2. BRIDGE MATERIAL, DIMENSIONS, AND LOAD DESIGN TO BE DETERMINED BY CONTRACTOR SPECIFIC TO PROJECT AND EQUIPMENT NEEDS.
 3. BRIDGE SHALL CLEAR SPAN STREAM PERPENDICULARLY FROM TOP OF BANK TO TOP OF BANK WITHOUT DISTURBING STREAM BANKS.
 4. NO OBSTRUCTIONS OR EQUIPMENT SHALL BE PLACED IN CHANNEL AND FLOW MUST BE MAINTAINED.
 5. ANY BEARING STRUCTURES SHALL BE SECURED FOR STABILITY AND SUPPORTED ON NATIVE SUBGRADE WITHOUT POURED FOUNDATIONS.
 6. ADDITIONAL CONSTRUCTION TIMBER MATTING MAY BE REQUIRED FOR GRADE COMPENSATION AT APPROACHES.
 7. BRIDGE SHALL BE PROPERLY ANCHORED TO PREVENT DISPLACEMENT BY STREAM FLOODING.

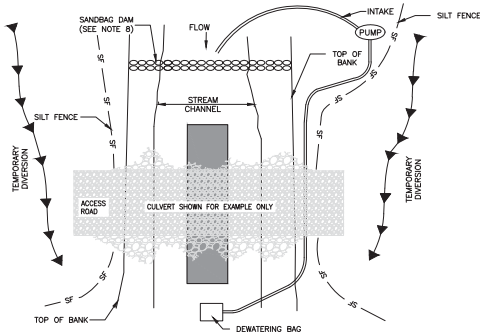
TEMPORARY CLEAR SPAN BRIDGE CROSSING

018

REVISIONS				DESIGN BY	DATE	SCALE
NO.	DATE	DESCRIPTION	APPROVED BY	CAM/MRW	12/18/2015	N.T.S.
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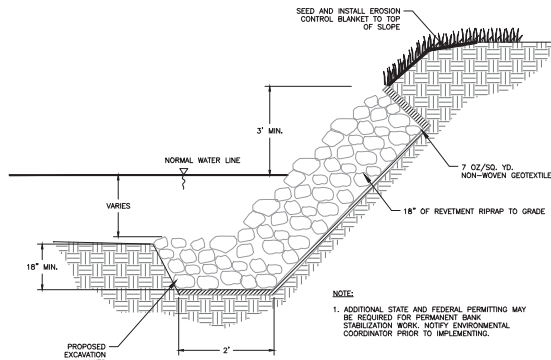
STORM WATER POLLUTION PREVENTION PLAN
TYPICAL DETAILS



- NOTES:**
1. INSTALL SILT FENCE, PUMP, DEWATERING BAG, AND SANDBAG DAM BEFORE TRENCHING STREAM.
 2. PUMP MUST BE OF SUFFICIENT CAPACITY TO CONVEY NORMAL AND/OR EXISTING STREAM FLOW OVER SANDBAG DAM. A BACK-UP PUMP OF EQUAL CAPACITY MUST BE AVAILABLE ON-SITE DURING CONSTRUCTION OF THE CROSSING.
 3. ANY SOIL PILES TO BE PLACED A MINIMUM OF 10 FEET FROM TOP OF BANK.
 4. INSTALL DIVERSIONS AT APPROACHES TO STREAM CROSSING AND SILT FENCE (AS INDICATED ON PLAN SHEETS).
 5. MAINTAIN SURFACE OF TEMPORARY EQUIPMENT CROSSING TO PREVENT SOIL DISCHARGES TO STREAM.
 6. APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE ORIGINAL GRADE.
 7. RESTORE AREA TO APPROXIMATE ORIGINAL CONTOURS.
 8. ADJUST HEIGHT AS NEEDED BASED ON FLOW CONDITIONS AND PUMP INTAKE.

TEMPORARY STREAM CROSSING PUMP DIVERSION

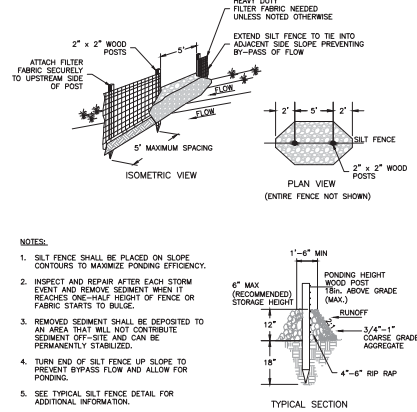
019



- NOTE:**
1. ADDITIONAL STATE AND FEDERAL PERMITTING MAY BE REQUIRED FOR PERMANENT BANK STABILIZATION WORK. NOTIFY ENVIRONMENTAL COORDINATOR PRIOR TO IMPLEMENTING.

HARD ARMAMENT BANK STABILIZATION

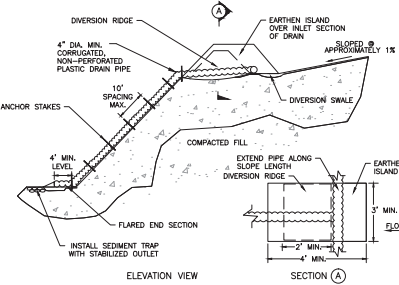
020



- NOTES:**
1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 2. INSPECT AND REPAIR AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN IT REACHES ONE-HALF HEIGHT OF FENCE OR FABRIC STARTS TO BULGE.
 3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 4. TURN END OF SILT FENCE UP SLOPE TO PREVENT BYPASS FLOW AND ALLOW FOR PONDING.
 5. SEE TYPICAL SILT FENCE DETAIL FOR ADDITIONAL INFORMATION.

SILT FENCE ROCK OUTLET

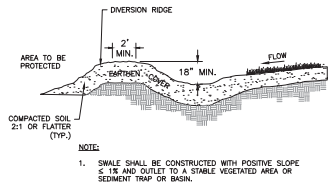
021



- NOTES:**
1. THE SLOPE DRAIN SHALL BE CONSTRUCTED/LENGTHENED WITH THE CONSTRUCTION OF THE FILL SLOPE. AS A RESULT, INLET ELEVATIONS WILL VARY ACCORDING TO GRADE ELEVATIONS AT THE TIME OF CONSTRUCTION.
 2. INSPECT SLOPE DRAIN AND SUPPORTING DIVERSIONS AFTER EVERY RAINFALL EVENT AND MAKE NECESSARY REPAIRS FOR PROPER OPERATION OF THE SYSTEM.
 3. UPON PROJECT COMPLETION, REMOVE THE SLOPE DRAIN AND PROPERLY STABILIZE ALL DISTURBED AREAS.

TEMPORARY SLOPE DRAIN

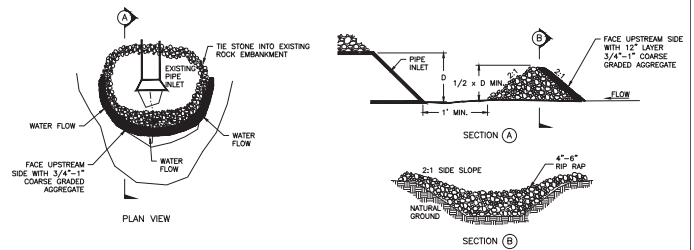
022



- NOTE:**
1. SWALE SHALL BE CONSTRUCTED WITH POSITIVE SLOPE $\leq 1\%$ AND OUTLET TO A STABLE VEGETATED AREA OR SEDIMENT TRAP OR BASK.

DIVERSION SWALE

023



ROCK PIPE INLET PROTECTION

024

REVISIONS				DESIGN BY	DATE		STORM WATER POLLUTION PREVENTION PLAN TYPICAL DETAILS	SCALE
NO.	DATE	DESCRIPTION	APPROVED BY	CAM/MRW	12/18/2015			N.T.S.
				DRAWN BY	JOB NO.	DRAWING NO.		
				KTH				
				CHECKED BY	APPROVED	SHEET		
				MRW	CAM	5 OF 5		

Appendix C

Storm Water Evaluation Form for Construction

Storm Water Evaluation Form for Construction
 (Complete at least once per week and
 after each storm event of 0.5 inches or more.)



Project Name: 3885 – 138kV East Provident Loop		Evaluation Date:	
Construction Supervisor:		Evaluated By:	
Reason for Evaluation: <input type="checkbox"/> Routine <input type="checkbox"/> Post Rain Event <input type="checkbox"/> Non-Routine			
Location and Phase of Construction:		Conditions at time of evaluation? <input type="checkbox"/> Dry <input type="checkbox"/> Wet <input type="checkbox"/> Frozen	
OBSERVATIONS	INSTALLED	CORRECTIVE ACTION NEEDED	
Silt Fence	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comment/Action:			
Fiber Rolls/Filter Socks	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comment/Action:			
Check Dams	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comment/Action:			
Seeding/Mulching	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comment/Action:			
Erosion Control Blanket	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comment/Action:			
Construction Entrances	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comment/Action:			
Stream Crossings	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comment/Action:			
Wetland Crossings	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comment/Action:			
Concrete Washout Areas	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Comment/Action:			
Is sediment or other pollutants leaving the site?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, corrective action is needed.		
Is sediment being tracked onto public roadways?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, corrective action is needed.		
Have any areas been left disturbed for 21 days or more?	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, corrective action is needed.		

See Reverse Side for More Information and Additional Space for Comments

Appendix D

SWPPP Amendment Log

Attachment I

Letters to Officials



DATE

MidPointe Library West Chester
9363 Centre Pointe Dr.
West Chester Township, Ohio 45069

Via Electronic Mail

Letter of Notification
Duke Energy Ohio 3885 – 138kV East Provident Loop

Dear Sir or Madam:

Please find below a link to an electronic copy of a Letter of Notification that Duke Energy Ohio, Inc., has submitted to the Ohio Power Siting Board regarding the planned construction of approximately 0.27 miles of 138 kV transmission line between the planned East Provident Substation and the existing Duke 138kV transmission line located in West Chester Township, Butler County, Ohio. The Letter of Notification submittal is required in accordance with Chapter 4906 of the Ohio Administrative Code (O.A.C.). The proposed project area consists of approximately 0.27 miles of new and existing 100-foot wide Duke Energy transmission line corridor Right-Of-Way (ROW), and includes the placement of ten structures. The Project begins at the proposed East Provident Substation located north of Provident Drive, and terminates south of Provident Drive as it enters the existing Duke Energy ROW.

In accordance with O.A.C. 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and, in compliance with O.A.C. 4906-11-01(D)(4), we are hereby providing you with a link to an electronic copy.

A copy of the application is available for public inspection at the main office of Duke Energy Ohio at 139 E. Fourth Street, Cincinnati, Ohio, and at the offices of the Ohio Power Siting Board, 180 East Broad Street, Columbus, Ohio 43215. The Application is also available on the Duke Energy Ohio website, at: <https://www.duke-energy.com/our-company/about-us/electric-transmission-projects>, and on the Ohio Power Siting Board's website, at: <http://dis.puc.state.oh.us/CaseRecord.aspx?CaseNo=17-2057-EL-BLN>.

Cordially,
Duke Energy Ohio, Inc.

Moses Muci
Project Manager I, Trans Proj Mgmt - OH



DATE

ADDRESS

Via Electronic Mail

**Letter of Notification
Duke Energy Ohio 3885 – 138kV East Provident Loop**

Dear Public Official:

Please find attached a link to an electronic copy of a Letter of Notification that Duke Energy Ohio, Inc. has submitted to the Ohio Power Siting Board regarding the planned construction of an approximately 0.27 miles of 138 kV transmission line between the planned East Provident Substation and the existing Duke 138kV transmission line located in West Chester Township, Butler County, Ohio. The Letter of Notification submittal is required in accordance with Chapter 4906 of the Ohio Administrative Code (O.A.C.). The proposed project area consists of approximately 0.27 miles of new and existing 100-foot wide Duke Energy transmission line corridor Right-Of-Way (ROW), and includes the replacement of ten (10) structures. The Project begins at the proposed East Provident Substation located north of Provident Drive, and terminates south of Provident Drive as it enters the existing Duke Energy ROW.

In accordance with O.A.C. 4906-1-01 Appendix A, we are required to prepare this Letter of Notification for the Ohio Power Siting Board and in compliance with O.A.C. 4906-11-01(D)(4), we are hereby providing you with an electronic copy.

A copy of the application is available for public inspection at the main office of Duke Energy Ohio at 139 E. Fourth Street, Cincinnati, Ohio, and at the offices of the Ohio Power Siting Board, 180 East Broad Street, Columbus, Ohio 43215. The Application is also available on the Duke Energy Ohio website, at: <https://www.duke-energy.com/our-company/about-us/electric-transmission-projects>, and on the Ohio Power Siting Board's website, at: <http://dis.puc.state.oh.us/CaseRecord.aspx?CaseNo=17-2057-EL-BLN>.

Cordially,
Duke Energy Ohio, Inc.

Moses Muci
Project Manager I, Trans Proj Mgmt - OH