



COLUMBUS | CLEVELAND
CINCINNATI-DAYTON
MARIETTA

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FAX: 614.227.2390

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info@bricker.com

Sally W. Bloomfield
614.227.2368
sbloomfield@bricker.com

May 8, 2014

Via Electronic Filing

Ms. Barcy McNeal
Administration/Docketing
Public Utilities Commission of Ohio
180 East Broad Street, 11th Floor
Columbus, OH 43215-3793

**Re: Vectren Energy Delivery of Ohio, Inc.
OPSB Case No. 13-1651-GA-BTX**

Dear Ms. McNeal:

On March 17, 2014, the Ohio Power Siting Board ("Board") issued a Certificate of Environmental Compatibility and Public Need subject to a number of conditions.

Condition No. 10 of the Board's Order requires the following:

Prior to the commencement of construction activities that require permits, licenses, or authorizations by federal or state laws and regulations, the Applicant shall obtain and comply with such permits, licenses, or authorizations. The Applicant shall provide copies of permits and authorizations, including all supporting documentation, to Staff within seven days of issuance or receipt by the Applicant. The Applicant shall provide a schedule of construction activities and acquisition of corresponding permits for each activity at the preconstruction conference.

In compliance with Condition No. 10 of the Order attached for filing is a copy of the Montgomery County right-of-way permit (Attachment A) and the Ohio Department of Transportation permit (Attachment B)

If you have any questions please call at the number listed above.

Sincerely,

Sally W. Bloomfield

Attachments

Cc: Ed Steele (w/Attachments)
Parties of Record (w/Attachments)

APPLICATION FOR PERMIT TO WORK ALONG OR ACROSS COUNTY ROADS

TO: Paul Gruner, P.E., P.S.
 Montgomery County Engineer
 451 West Third Street, 8th Floor, P.O. Box 972
 Dayton, OH 45422-1260

#14-12

BORE ONLY, ROAD CUTS ARE PERMITTED WITH SPECIAL PERMISSION ONLY

DATE March 17, 2014APPLICATION IS HEREBY MADE BY Vectren Energy Delivery of OhioADDRESS 4285 N James McGee Blvd CITY Dayton STATE Ohio ZIP CODE 45417PHONE # (937) 440-1880 FAX # (937) 440-1960

TO Vectren is requesting permission to install a 12" natural gas pipeline under five sections of County roads located near the Dayton International Airport. The pipe being installed is steel, coated with fusion bonded epoxy. The portions of pipe installed under the roadways would have an additional coating of Powercrete applied. The pipe would be installed using conventional boring methods. The bore pits would be located outside of the road ROW and the pipe would be installed a minimum of 48-inches below the lowest surface (bottom of ditch). Additionally, Vectren is requesting for permission to install construction ingress/egress access points on both sides of the road at these crossings for the construction equipment to access the pipeline route. Disturbed areas will be covered and inspected with the project's Storm Water Pollution Prevention Plan. After the installation of the pipeline has been completed the ingress/egress access points would be removed and the area restored to its pre-existing condition.

AT THE FOLLOWING LOCATIONS:

Dog Leg Road: Latitude 39.894307N Longitude -84.254967WDog Leg Road: Latitude 39.895266N, Longitude -84.253013WDog Leg Road: Latitude 39.898758N, Longitude -84.246244WOld Springfield Road: Latitude 39.912385N, Longitude -84.228321WPeters Pike: Latitude 39.912754, Longitude -84.227028WALONG/ACROSS The Dayton International Airport in TOWNSHIP ButlerWORK WILL COMMENCE ON OR ABOUT April 1, 2014 and WILL REQUIRE approximately 5 months to complete

IF THIS PERMIT IS GRANTED, I (WE) AGREE TO THE FOLLOWING CONDITIONS:

1. That traffic will be maintained at all times, unless permission is granted by the County Engineer to close the road.
2. That the disturbance to the road surface and shoulders will be kept at a minimum and that trenches will be backfilled with gravel and tamped, so that settlement of the material will be minimized. If settlement does occur, additional suitable material will be put into place and compacted.
3. That the road surface at the trench will be replaced with material of the type that was removed and that the new surface will conform with the grade of the undisturbed surface. The pavement replacement detail on the back of this permit represents a minimum requirement.
4. That lights, signs, barricades and, if necessary, flagman and watchman, will be placed on the job for the protection of traffic at all times, day and night, during the time this work is being done and the instructions given by the County Engineer's Department as to handling the traffic, will be fully complied with.
5. That I (we) assume the responsibility for and will save the County harmless from any and all claims for personal injuries and property damages arising from this work, to the extent of \$300,000/\$500,000 for personal injuries and \$200,000 for property damages. To cover this responsibility I (we) have the following insurance which is now in force and will remain in force during the prosecution of this work.
INSURANCE INFORMATION _____
6. SEE REVERSE SIDE FOR ROADWAY SIGNING AND BACKFILL INFORMATION.
7. That responsibility under this permit will remain in force until a release has been granted by the County Engineer.

8. Comments attached
 COMPANY NAME Vectren Energy Delivery of Ohio

SIGNED BY Thomas Jones PRINT NAME Thomas Jones

PERMIT TO DO THIS WORK UNDER THE CONDITIONS STATED IN THE ABOVE APPLICATION IS HEREBY GRANTED.
 PLEASE CONTACT _____ AT _____ APPROVED BEFORE STARTING WORK.

DATE PERMIT GRANTED 5-8-14SIGNED BY Paul W. Gruner

Paul W. Gruner
 PAUL W. GRUNER
 (ENGINEER'S STAMP)
 Engineer, Montgomery County, Ohio

Permit No. 14-12 Vectren Gas Main Relocation, various roads in Butler Twp.

4-14-14

Comments and Questions,

1. The alignment for the new pipeline is what the Montgomery TID, the Airport, and County had requested.

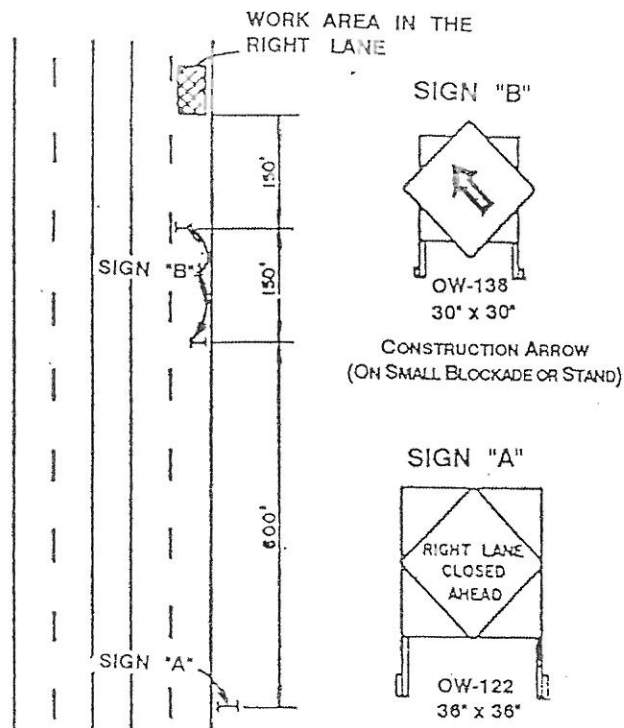
~~2.~~ Question: There are areas along existing Dog Leg Road and along Old Springfield (both sides of Peters Pike) where Vectren is obtaining a 50' easement that will parallel the existing road RW. If at some point in the future it is necessary to widen Old Springfield Road such that the new roadway encroaches into Vectren's easement, will Vectren determine that they must move their pipeline? Will they have to keep a 25' clearance from the RW line to their pipeline? I think it is very unlikely that a widening of Old Springfield Road would create any physical conflict with the new pipeline, but it is possible that curbing and storm sewer could encroach into the easement. **Please ask UTI/Vectren to comment on their policy in this situation.** *This Question is Resolved.*

Note: There are no current plans for the widening of Old Springfield. The recent industrial developments nearby do prompt this question.

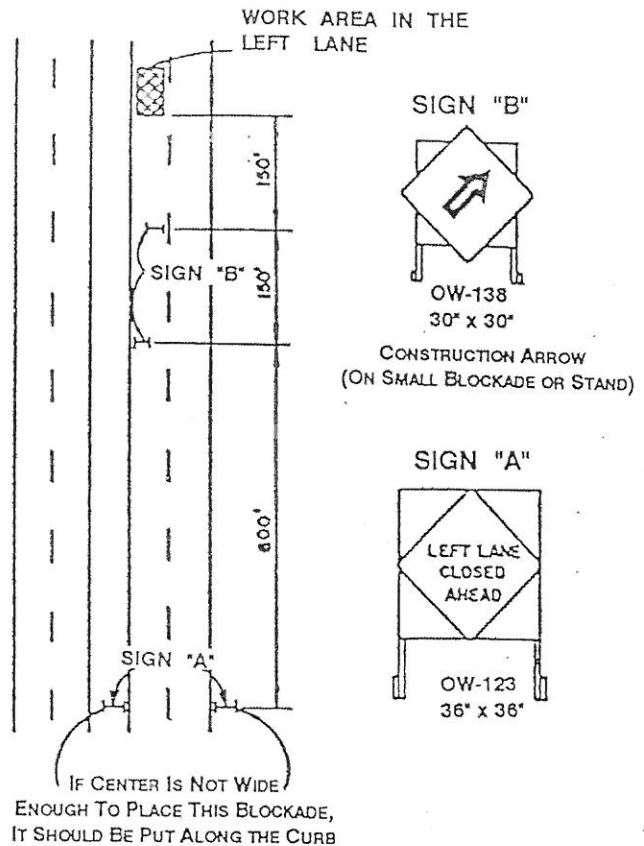
3. AT&T relocated their underground cable along Road A and Road B. I don't see it on UTI's plans. I have attached relocation plans from AT&T. These are not as-built plans, however, **and UTI should get exact locations from AT&T.** As-built plans were a condition of AT&T's permit, but I have not received them yet. *Plans sent to UTI*
4. UTI will need to check for other underground utilities.
5. The pipeline will cross under our storm sewers. Request that any minimum of two feet of clearance be specified, and additional depth if possible. The depth of pipeline under the existing roadway should also be as deep as possible for future storm sewer designs. *OK*
- ~~6.~~ Please send a plan view with offsets of the proposed pipeline where it crosses under Mill Creek. The County has a bridge there that will need replaced in the future. *Done*
7. If the proposed bore pits extend within existing RW, request is made to keep the excavated cuts a minimum of six feet from the edge of pavements. *OK*

MD

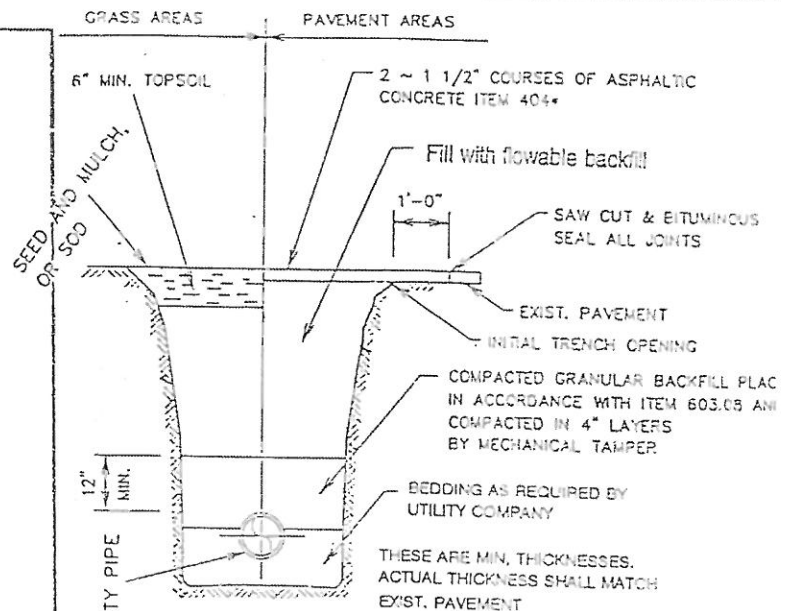
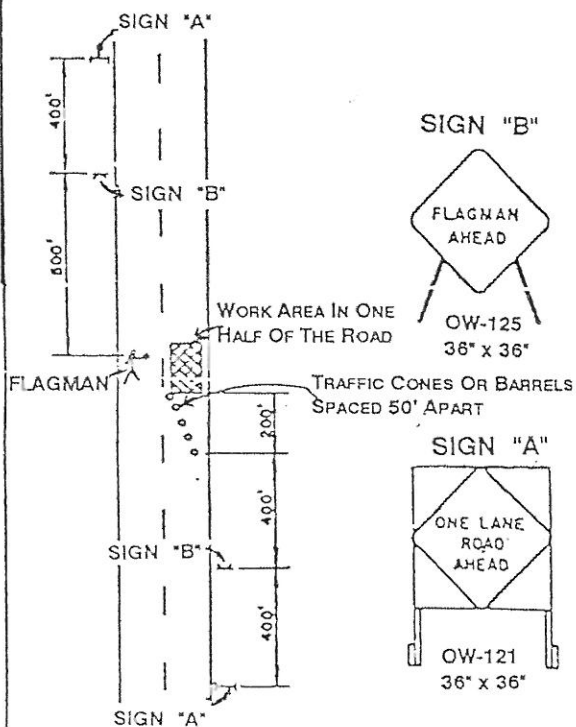
CLOSING THE RIGHT LANE OF A FOUR LANE ROAD



CLOSING THE LEFT LANE OF A FOUR LANE ROAD



CLOSING ONE HALF OF A TWO LANE ROAD



ITEM NUMBERS REFER TO THE CURRENT EDITION OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIAL SPECIFICATIONS."

THE CONTRACTOR SHALL REPLACE AND/OR RESTORE, IN KIND, ALL DRAINAGE STRUCTURES, CULVERTS AND APPURTENANCES IN ALL AREAS DISTURBED BY THE CONTRACTOR.

TRENCH RESTORATION
NO SCALE



Utility Technologies International
4700 Homer Ohio Lane
Groveport, OH 43125
P: 614-482-8080
www.uti-corp.com

Application For Permit

To: Paul Gruner, P.E., P.S.
Montgomery County Engineer
451 West Third Street, 8th Floor
Dayton, OH 45422-1260

April 2, 2014

Utility Technologies International Corporation is submitting an application for permit to work along or across county roads on behalf of Vectren Energy Delivery of Ohio. Vectren requests permission to install a 12" natural gas pipeline across five (5) county roads located around the Dayton International Airport in Vandalia, Ohio. Additionally, they are requesting permission to install temporary construction entrances on each side of these road crossings to access the project site. These entrances would be removed once the construction activities have been completed and are no longer needed.

There is no damage anticipated to any mailboxes, signs, yards, driveways, roads, drainage structures, fences, ditches, and sidewalks with the construction activities for the pipeline. However, should damage occur during the activity it will be restored to as good and safe condition as existed prior to the activity. All conditions, restrictions, and regulations issued from your office, including location will be complied with.

The construction of this project will begin on or about May 5, 2014 and projected to be completed by October 24th. It should be noted that these dates are tentative and that some unforeseen event could change either.

Please contact Melinda Stahl at the number listed above if you have any questions regarding this permit application. Thank you, we appreciate your time and consideration with our request.

Sincerely,

Melinda Stahl
Environmental Coordinator

Enclosures (2)

- County Permit Application Form and MOT
- Selected sheets from construction plan for road crossings (5)

RECEIVED
APR 04 2014
TH

Permit No. 7-090-14

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
Permit

ATTACHMENT-B**Office Use Only**

County or
 Jurisdiction Montgomery
 Rte. 40 Log Pt. 13.19 -
 AccCat 4L

[1] Subject to all of the terms, conditions and restrictions printed or written below, and on the reverse side hereof, or attached,

Name Vectren Energy Delivery of Ohio Attn: T.F. Jones
 Address 4285 North James McGee Blvd Dayton OH 45417
 Phone (937) 440-1880 is hereby granted a permit under Section 5515.01 and 5515.02 of Ohio Revised Code, and permission to perform

work necessary in the manner described and at the location indicated in the following or as attached to this permit.

Permittee is to install and maintain a 12" gas pipeline via bore crossing under State Route 40 just West of Dog Leg Road. Also, 2 Temporary Construction Drives will be installed and then removed by December 15, 2014. All work to be completed in this permit will be per attached plans. No open bore pits or trenches permitted during dark hours without NCHRP350 crash compliant barricades or drums with flashing lights.

Permittee shall have a copy of the permit and Ohio Department of Transportation approved, stamped plan on the job.

Any changes shall be approved by the Department prior to work being performed.

If permittee is excavating, he/she shall call "OUPS" at 1-800-362-2764 and Oil and Gas Producers Underground Protection Service (OGPUPS) at 1-800-925-0988, as well as, all non-OUPS utilities at least 2 days prior to start of work, for location of buried facilities.

Maintenance and/or repair of this installation shall in no way be the responsibility of the State of Ohio, Department of Transportation or the Federal Government.

Any damage done by this installation shall be restored to its original condition or better.

Permittee is responsible for compliance with all applicable Federal, State and Local laws relating to environmental protection, including stormwater and erosion control. Permittee is responsible for undertaking/securing any necessary notifications, reviews, approval or permits from other agencies for the proposed activities.

Permittee shall furnish sufficient flagmen and/or signs to protect the traveling public at all times, as per the Ohio Manual of Traffic Control Devices. Through traffic shall be maintained at all times.

All disturbed earth shall be replaced, compacted, and reshaped to its original cross-section and then re-seed it to the satisfaction of the Director of Transportation or his agent.

No sign shall be placed on or overhang state highway right-of-way.

No signs shall be moved or taken down without the consent of the ODOT District 7 Traffic Engineer.

Permittee is responsible for all clean out work to keep this installation in operating condition.

Permittee shall be responsible for any & all utility installations/relocations as a result of this work.

The State of Ohio or Federal Highway Administration will not participate in the cost of this installation.

Trees, shrubs, bushes, fence, stone work or obstructions of any type will not be placed inside state highway right-of-way.

[2] This permit shall be in the possession of employees on site at all times who are in charge of the work and shall be shown, upon request, to any employee of the Department of Transportation.

[3] No work authorized by this permit shall begin until the permittee has contacted and received instructions from

Russ Bertke 937-497-6745

(Authorized ODOT Employee)

Permit No. 7-090-14

NOTE: Any work performed by the permittee may be stopped if the above requirements are not met.

[4] To the extent applicable, this permit shall be void if the work described herein does not comply with the conditions, terms, and requirements applicable to this permit, and if the work is not completed by. 12/19/2014

[5] All work requiring persons or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Uniform Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the proper traffic control devices have been provided.

[6] The permittee accepts the conditions, terms, and requirements printed, written on, or attached to this permit and understands that failure to comply fully with those conditions, terms, and requirements or any change in the use of this permit inconsistent with its terms and conditions will be considered a violation and cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Department action, up to and including removal of the installation, if applicable, at the permittee's expense.

[7] Performance Bond Required ☐

Surety Company N/A

Effective Date N/A Expiration Date N/A Amount

Permittee: Th. J. Jr.

Director: Jerry Wray / W.C.

Date: 5/5/14

Date: 5-6-14

General Provisions Applicable to All Permits

(Sections 5515.01 and 5515.02 of O.R.C.)

- [1] This permit is not a substitute for satisfying the rights or obligations of any other party who may have an interest in the underlying fee interest.
- [2] The granting of this permit does not convey to the permittee or to the property served any rights, title, or interest in state highway rights of way or in the design or operation of the state highway; or in any way abridge the right of the Director of the Department of Transportation in his jurisdiction over state highways. If, in the process of any future work or for the benefit of the traveling public, it becomes necessary, in the opinion of the Director of Transportation to order the removal, reconstruction, relocation, or repair of any of the fixtures, or work performed under this permit, said removal, reconstruction, relocation, or repair shall be wholly at the expense of the owners thereof or the permittee and be made as directed by the Director of Transportation. Such changes in the state highway design or operation, necessary for improved safety and operation or for the benefit of the traveling public, shall not require a permit modification since the permit confers no private rights to the permittee over the control of the state highway.
- [3] The District Deputy Director acts for and on behalf of the Director in issuing and carrying out the provisions of all permits. The District Deputy Director has full authority to ensure that all provisions of the permit are met and to reject any materials, design, and workmanship that do not meet applicable Department standards. The District Deputy Director, at his/her discretion, may require a performance bond or certified check as a prerequisite to the issuance of a permit.
- [4] Failure on the part of the permittee to comply fully with the provisions and conditions of the permit will be cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Departmental action. By accepting the permit, the permittee agrees to comply with all conditions, terms, and restrictions printed or written on or attached to the permit. If the permittee performs any work contrary to the conditions of the permit or to the instructions of the District Deputy Director and, after due notice, fails to correct the problem, the Department of Transportation may, with or without notice, correct such work and the permittee shall reimburse the Department for the costs.
- [5] The permittee shall indemnify and hold harmless the State of Ohio, Department of Transportation, its officers, representatives and assigns, from any and all loss, liability, damages, litigation costs, and claims for injury or death to any person, property, or business caused by or resulting from any act, omission, event, consequence, or occurrence, negligent or otherwise of the permittee, his employees, or assigns as a result of the issuance of this permit.
- [6] All work authorized under the permit shall be performed to the Department's satisfaction, and the entire expense shall be borne by the permittee. No work shall be performed until the permittee has contacted the Department's appointed representative named on the permit and received instructions. The Department's representative may inspect all work covered by the permit, or the Department reserves the right, during the time any or all of the work is being performed, to appoint an inspector over the work who shall represent the interest of the State on the work and any compensation arranged for shall be paid wholly by the permit holder. Work not in compliance shall be halted and the District Deputy Director shall be notified of the cause. The permittee shall be notified of the Department's action and its causes, and given an opportunity to correct the problem.
- [7] Failure to complete all work within the time specified on the permit shall void the permit, thereby making the permit illegal and subject to appropriate Departmental action. The permittee may request an extension in writing from the District Office, explaining why the extension is necessary and when the work is expected to be completed.
- [8] All work infringing on the pavement or shoulders shall comply with applicable standards and requirements regarding traffic control devices. Failure to comply will be cause for revocation or suspension of the permit. Any closure of lanes or shoulders shall be described in terms of location, duration, time of day, etc. Such work shall not begin until all traffic control devices are in place.
- [9] If any grading, sidewalk, or other work allowed by a permit interferes with the drainage of the highway in any way, such catch basins and outlets as necessary shall be constructed to take proper care of said drainage.
- [10] Upon completion of the work, the permittee shall leave the highway clean of all rubbish, excess materials, temporary structures and equipment, and all parts of the highway shall be left in a condition acceptable to the Department. Upon satisfactory completion of the work authorized by the permit, the Department's appointed representative shall complete the Permit Inspection Certificate, Form No. MR 678 certifying that the permittee has complied with the terms of the permit.
- [11] Except as herein authorized, no excavation shall be made or obstacle placed within the limits of the highway so as to interfere with the travel over the road.
- [12] All pole lines are to be built in accordance with Rule 4901:3-1-08 of Ohio Administrative Code promulgated and enforced by the Public Utilities Commission of Ohio.
- [13] The permittee shall comply with the Air Pollution requirements of Rule 3745-17-08 of the Ohio Administrative Code promulgated and enforced by the Ohio Environmental Protection Agency.
- [14] The permittee certifies that he or she is fully authorized to sign this permit. This permit shall apply to and be binding upon the permittee and his/her successors in interest. No change in ownership of the underlying property or of the facility owned by permittee shall in any way alter the permittee's obligations under this permit.
- [15] The permittee(s) for herself/himself/themselves/itself, her/his/their/its personal representatives, and her/his/their/its successors in interest and assigns, as a part of the consideration hereof, do/does hereby covenant and agree that:
- (1) No person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of the above described property.

- (2) In the construction of any improvements on, over, or under the above described property and the furnishing of services thereon, no person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination.
- (3) The above described property shall be used in a manner that at all times is in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. DOT, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the U.S. DOT – Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.
- (4) In the event that this instrument grants a lease, license, or permit and any of the above nondiscrimination covenants is breached, then the State of Ohio, Department of Transportation, shall have the unfettered right to terminate the lease, license or permit and to re-enter and repossess the above-described property and hold the same as if said lease, license or permit had never been made or issued.
- (5) In the event that this instrument grants a fee or easement interest and any of the above nondiscrimination covenants is breached, the State of Ohio, Department of Transportation, shall have the unfettered right to re-enter the above described property, and said property will thereupon revert to and vest in and become the absolute property of the State of Ohio and its successors and assigns for the use and benefit of the Department of Transportation.
- (6) In the event that this instrument grants a lease, fee or easement interest, all of the foregoing nondiscrimination covenants shall be and are covenants running with the land.

Rev. 10/15/10

1. MR 505

App No _____

State of Ohio
Department of Transportation
Permit Application

See Reverse side for additional requirements

Office Use Only

County/

Jurisdiction _____

Rte _____ LogPt _____

AccCat _____

[1] This form must be completed by the property owner or agents working for a utility company (if applicable). Application by contractor is unacceptable.

Name Vectren Energy Delivery of OhioAddress 4285 N James McGee BlvdCity DaytonState OhioZip 45417Phone (937) 440-1650Other (Fax, E-mail) lfjones@vectren.com

[2] Type of Permit requested: _____ Commercial (See other side) _____ Residential _____ Field ☒ Utility _____ Drainage _____
 _____ Beautification (See other side) _____ Spraying, trimming, tree removal _____ Other _____

5/2/14: The pipe will be installed at a minimum of 7' under the roadway and a minimum of 5' below the lowest point of the ditches/swales.

[3] Briefly describe work to be performed. (Attach plans and see Instructions.)

Vectren Energy Delivery of Ohio is relocating a 12" natural gas transmission pipeline around the Dayton International Airport. The pipeline route crosses U.S. Route 40 (National Road). The pipe will be bored under the roadway at a minimum of 48" below the lowest point (bottom of ditch). The pipe will be steel, coated with fusion bonded epoxy with an additional coating of Powercrete.

Bore pits will be located on private easements adjacent to the roadway. Pipeline markers will be installed on both sides of the roadway.

Traffic Plan

6H-10 - Lane Closure Using Flaggers, during the installation of the ingress/egress points.

6H-14 - Haul Road Crossing, during construction of the pipeline.

[4] Location where work is to be performed. Give sufficient detail to locate the site accurately, such as the distance in miles or feet from a mile post or from some geographical feature such as an intersecting highway.

In Montgomery County (along, across) State Route 40, _____ miles or 730 feetNorth _____ East _____ West ☒ South _____ of Dog Leg Road on the North ☒ East _____ West _____ South ☒ side of the road.

Work to commence on _____ and will require _____ days to complete

[5] Does the property owner own or have any interests in any adjacent property? _____ Yes ☒ No

If yes, please describe. _____

[6] Prior to any excavation in the highway right-of-way, the Ohio Utilities Protection Service (OUPS) must be contacted in accordance with ORC Section 3781.25 to 3781.32. OUPS can be reached at 1-800-362-2764. A call must be made to OGPUPS at 1-800-925-0988.

[7] Open cutting of pavement shall not be permitted unless no reasonable alternate method is available. Written approval of the Ohio Department of Transportation District Office must be obtained.

[8] All work requiring men or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the proper traffic control devices have been provided.

[9] I have received a copy of the policies and regulations pertaining to the permit for which I have applied. If a permit is subsequently issued to me by the Ohio Department of Transportation, I understand that the permit will state the terms and conditions for its use, and I agree to comply with all conditions and regulations stipulated on or attached to the permit. I also understand and agree that failure to comply fully with all conditions and regulations of the permit or any change in the use of the permit inconsistent with its terms and conditions will be considered a violation and cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Department action, up to and including removal of the installation at the permittee's expense.

SIGN and
PRINT here

→ [Signature]
 Signature of Property Owner or Agent for Owner

Date 5/28/14Day time Phone 937-246-8480

Office use only

Date Received _____

By _____

Date Accepted _____

By _____

Rev 7/8/05

(See Other Side)

(See Other Side)



Google earth



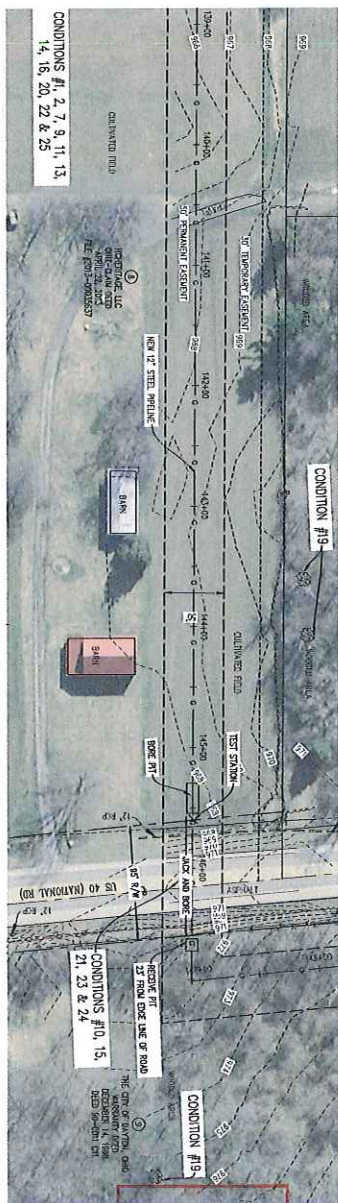
COUNTY & STATE	PARCEL NO.
MONTGOMERY COUNTY OHIO	09
COUNTY & STATE	PARCEL NO.

THE CITY OF DAYTON, OHIO
WARRANTY DEED
DECEMBER 14, 1998
DEED 99-0011: C11

222

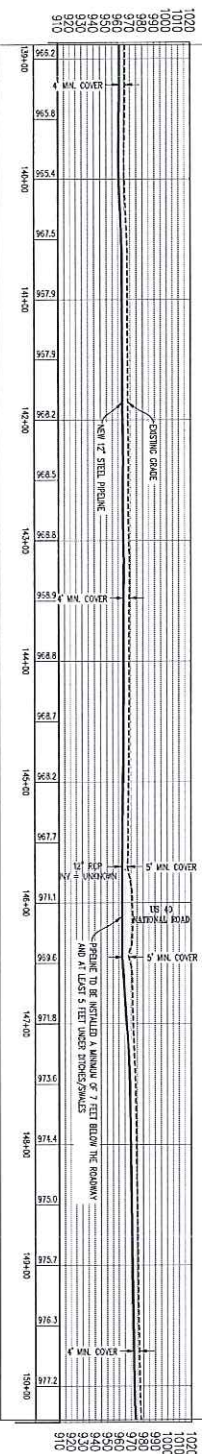
STA: 146+03.24
MC: 691789.02
E: 1475467.32
DELT. 05° 55' 22"

584° 30' 12" N 1974.8

[illegible]

FINAL ODOT District 7 Permits

PLAN VIEW



EXISTING GROUND PROFILE	
Stationing	Profile
1+00	10.00
1+10	10.00
1+20	10.00
1+30	10.00
1+40	10.00
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11+30	10.00
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11+50	10.00
11+60	10.00
11+70	10.00
11+80	10.00
11+90	10.00
12+00	10.00
12+10	10.00
12+20	10.00
12+30	10.00
12+40	10.00
12+50	10.00
12+60	10.00
12+70	10.00
12+80	10.00
12+90	10.00
13+00	10.00
13+10	10.00
13+20	10.00
13+30	10.00
13+40	10.00
13+50	10.00
13+60	10.00
13+70	10.00
13+80	10.00
13+90	10.00
14+00	10.00
14+10	10.00
14+20	10.00
14+30	10.00
14+40	10.00
14+50	10.00
14+60	10.00
14+70	10.00
14+80	10.00
14+90	10.00
15+00	10.00
15+10	10.00
15+2	

LEGEND		Horizontal Scale 1"=50'
	Embankment	Vertical Scale 1"=50'

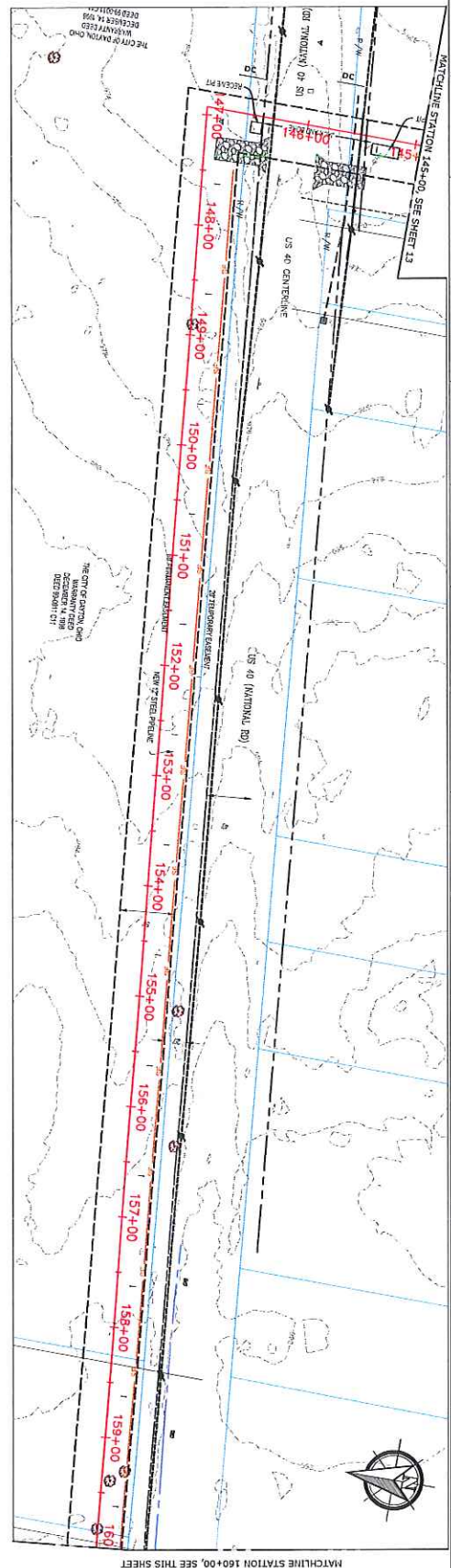
VECTREN
Energy Delivery
One Vectren Square
PO Box 209
Evansville IN 47702-0209
1-800-221-1376



Schneider
THE SCHNEIDER CORPORATION
Historic Fort Harrison
3901 0111 Avenue
Indianapolis, IN 46216-1037
Telephone: 317.826.7100
Fax: 317.826.7200
www.schneidercorp.com

PROJECT INFORMATION:
Z-167 Pipeline Relocation
Plan & Profile
Dayton Airport, Montgomery County, Ohio
CLIENT INFORMATION:
Vectren Energy Delivery

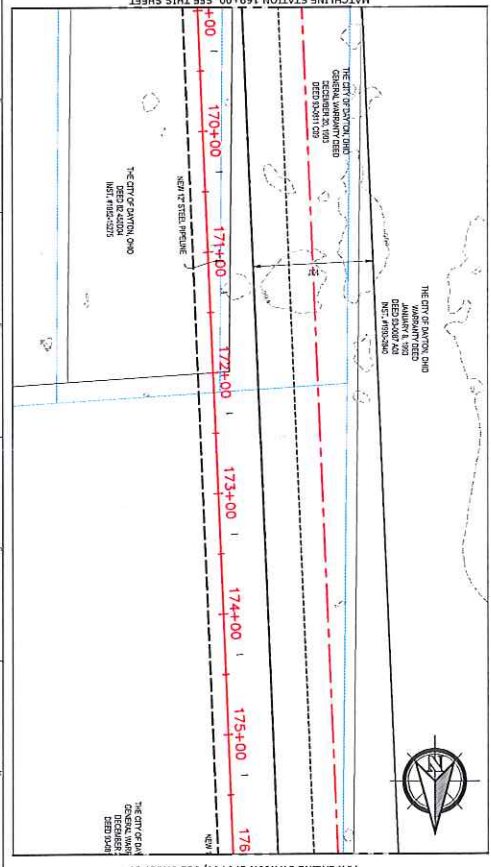
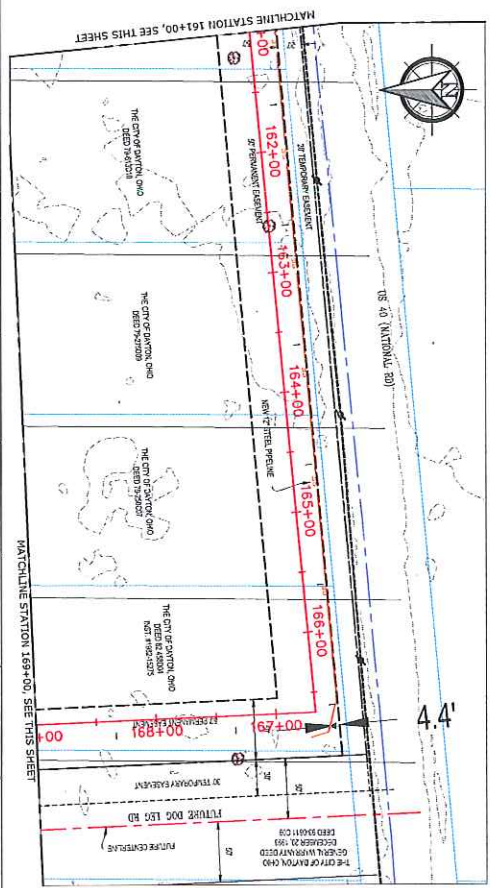
DATE	03/28/2014	PROJECT NO.	8942.001
DOWN BY	NKE	ORDER BY	JSA
REVISIONS			
REV	02/09/2014	NKE	
DRAWING TITLE E-134 (1000) (00) (Wep) (100000) (p) (dmg)			
SHEET NO.			
13			



- LEGEND**
- WETLANDS
 - CONCRETE WASHOUT
 - CONSTRUCTION ENTRANCE
 - NOT OF SCALE
 - DITCH CHECK
 - WATER BAR
 - GRAVEL AND INLET PROTECTION
 - TRENCH PLACES
 - INLET PROTECTION
 - PERMANENT EASEMENT
 - TEMPORARY EASEMENT
 - 12" STEEL PIPELINE
 - CONTOUR ELEVATION
 - BAT TRIPS
 - SELF FENCE
 - WETLAND PROTECTION
 - STRAPEL ELEVATION
 - PIPELINE

FINAL
ODOT District 7
Permits

- GENERAL NOTES**
1. THE PLANS FOR BIDDING, AND BIDDING CONTRACT PURPOSE ONLY.
 2. THE PLANS FOR BIDDING, AND BIDDING CONTRACT PURPOSE ONLY.
 3. THE PLANS FOR BIDDING, AND BIDDING CONTRACT PURPOSE ONLY.
 4. THE PLANS FOR BIDDING, AND BIDDING CONTRACT PURPOSE ONLY.
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 9. THE PLANS FOR BIDDING, AND BIDDING CONTRACT PURPOSE ONLY.
 10. THE PLANS FOR BIDDING, AND BIDDING CONTRACT PURPOSE ONLY.
 11. THE PLANS FOR BIDDING, AND BIDDING CONTRACT PURPOSE ONLY.



VECTREN ENERGY DELIVERY OF OHIO, INC.
Z-167 RELOCATION
MONTGOMERY, OHIO
PLAN VIEW

UTILITY TECHNOLOGIES INTL. CORPORATION
4700 Homer Ohio Lane
Groveport, OH 43125
P: 614-482-6880
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www.uti-corp.com

CHANGE ORDER SCHEDULE

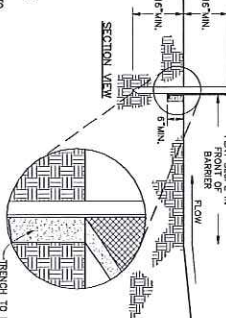
#	DESCRIPTION OF CHANGE	SHEET APPROVALS	
		NO.	DATE

GRAPHIC SCALE
1 inch = 50 ft.

SCALE
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 10'

SHEET NO. 14/27

WRAP AROUND BEFORE



- [illegible]

SILT FENCES SHALL BE INSPECTED AFTER EACH RAINFALL AND AT LEAST DAILY DURING A PROLONGED RAINFALL. THE LOCATION OF EXISTING SILT FENCE SHALL BE REMIENED DAILY TO ENSURE ITS PROPER LOCATION AND EFFECTIVENESS. IF DAMAGED, THE SILT FENCE SHALL BE REPAIRED IMMEDIATELY.

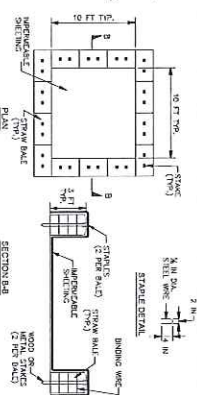
1. FENCE POSTS - THE LENGTH SHALL BE A MINIMUM OF 32 INCHES. FENCE POSTS WILL BE 2-3/4" - 3" IN. NOMINAL, DIMENSIONED HARDWOOD OF SOUND QUALITY. THEY SHALL BE FREE OF KNOTS, SPLINTS AND OTHER VISIBLE IMPERFECTIONS. THAT WILL WEAKEN THE POSTS. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 16 FT. POSTS SHALL BE DRIVEN A MINIMUM OF 18 INCHES INTO THE GROUND, WHERE POSSIBLE. IF NOT POSSIBLE, THE POSTS SHALL BE ADEQUATELY SECURED TO PREVENT OVERTURNING OF THE POSTS.
2. SILT FENCE FABRIC-SILT CHART BELOW.

MIN. CRITERIA FOR SILT FENCE FABRIC (ODOY, 2002)		
FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS	ASTM D 4632
MAXIMUM ELONGATION @ 50 LBS	50%	ASTM D 4632
MINIMUM TENSILE STRENGTH	50 LBS	ASTM D 4633
MINIMUM TEAR STRENGTH	40 LBS	ASTM D 4533
APPROX. OPENING SIZE	≤ 0.064 mm	ASTM D 4751
MINIMUM PERMEABILITY	10^{-10} cc/sec-cm	ASTM D 4401
UV EXPOSURE STRENGTH RETENTION	70%	ASTM D 4535

NOT TO SCALE

1. LOCATE WASHOUT STRUCTURE A MIN

- [illegible]

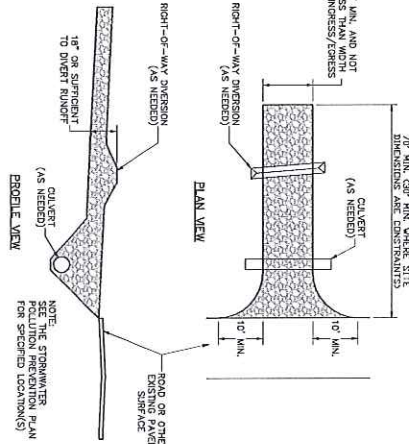


NOTES:
CONCRETE TRUCKS SHALL UTILIZE AREAS TO WASHOUT TRUCKS. ACCUMULATED CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY. CONCRETE TRUCKS ARE PROHIBITED FROM WASHING OUT DIRECTLY INTO A DRAINAGE CHANNEL, STORM DRAIN OR SURFACE WATER OF THE STATE FIELD TILE AND OTHER SUBSURFACE DRAINAGE. WITHIN TEN (10) FEET OF THE CONCRETE WASHOUT AREA SHALL

CONCRETE WASHOUT AREA

NOT TO SCALE

AND 10 SCALE



STONE SIZE - 0007 # 2 (1.5-2.5 inch) stone shall be used, or recycled concrete equivalent.

CONSTRUCTION - THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABILIZE LENGTH - MINIMUM SHALL NOT BE LESS THAN 70 FT. (DECEPTION) MINLY 30 FT. MINIMUM TO SINGLE RESURGENCE LENGTH.

THICKNESS - THE STONE LAYER SHALL BE AT LEAST TEN (10) INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST TEN (10) INCHES FOR HEAVY DUTY USE. US 40

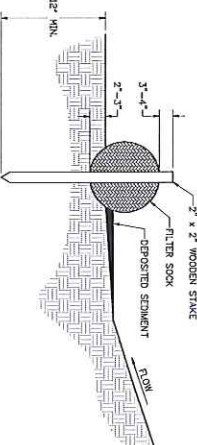
WOOL - THE ENTRANCE SHALL BE AT LEAST FORTYEN (4) FEET WIDE. BUT NOT LESS THAN THE TALL WITH AT POINTS WHERE INGRESS OR EGRESS OCCURS FOR PROTECTING STONE. IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS:

GEOTECHNICAL SPECIFICATIONS FOR CONSTRUCTION ENTRANCE	
FABRIC PROPERTIES	VALUES
MINIMUM TENSILE STRENGTH	200 LBS
MINIMUM PUNCTURE STRENGTH	80 PSI
MINIMUM TEAR STRENGTH	50 LBS
MINIMUM ELONGATION	320 PSI
MINIMUM ELONGATION	20%
EQUIVALENT OPENING SIZE	EQS < 0.6 mm
PENETRABILITY	1+1/2 - CAL/SEC

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1. MATERIALS - COMPOST L

- [illegible]

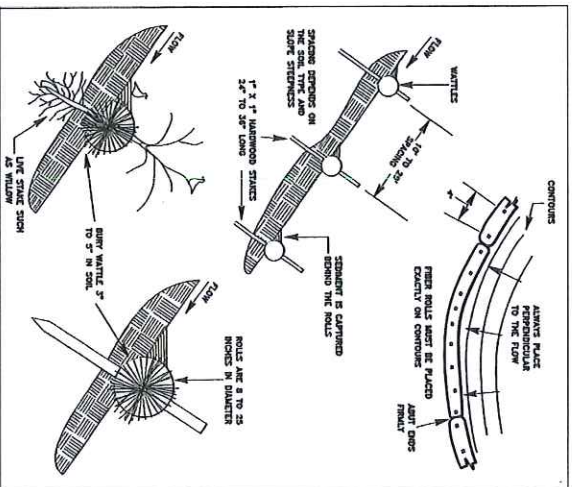


FILTER SOCKS
NOT TO SCALE

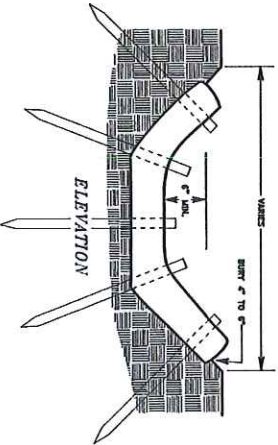
NOT TO SCALE

FINAL
DOT District 7

Permits



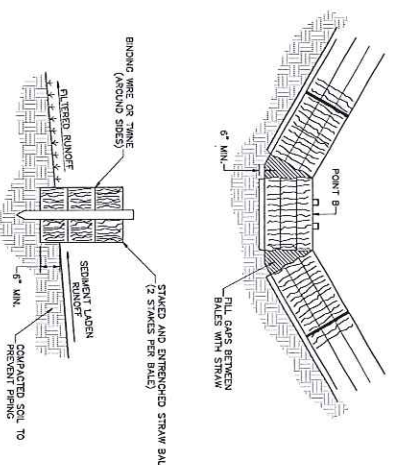
STRAW WATTLE DITCH CHECK



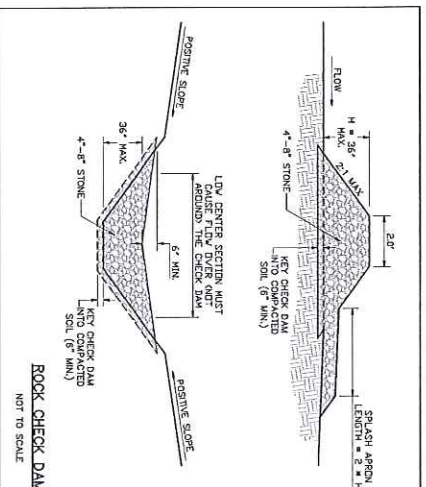
Maximum Slope Length Above Filter Sock and Recommended Diameter

Slope	Ratio (H:V)	12"	18"	24"
0% - 2%	100:1 - 200:1	125	250	300
2% - 10%	50:1 - 10:1	100	100	200
10% - 20%	10:1 - 5:1	75	75	150
20% - 35%	5:1 - 2:1	-	-	75
>35%	<2:1	-	-	75

- CONSTRUCTION SPECIFICATIONS FOR STRAW WATTLE DITCH CHECK (SEE FIGURES ON LEFT)
- IT IS CRITICAL THAT WATTLES ARE INSTALLED PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE CONTOURS.
 - NARROW TRENCHES SHOULD BE DUG ACROSS THE SLOPE ON CONTOURS TO A DEPTH OF 3 TO 5 INCHES ON CLAY SOILS AND SOILS WITH GRADUAL SLOPES, ON LOOSE SOILS, STEEP SLOPES, AND DURING HIGH RAINFALL EVENTS, THE TRENCHES SHOULD BE DUG TO A DEPTH OF 5 TO 7 INCHES, OR 1 TO 3 OF THE THICKNESS OF THE WATTLE.
 - CONSTRUCT TRENCHES AT 10 TO 15 FEET INTERVALS ON THE SLOPE. SOIL TYPE AND RAINFALL WILL DETERMINE THE SPACING OF THE TRENCHES. THE TRENCHES SHOULD BE CONSTRUCTED TO A DEPTH OF 3 TO 5 INCHES ON CLAY SOILS AND SOILS WITH GRADUAL SLOPES, ON LOOSE SOILS, STEEP SLOPES, AND DURING HIGH RAINFALL EVENTS, THE TRENCHES SHOULD BE DUG TO A DEPTH OF 5 TO 7 INCHES, OR 1 TO 3 OF THE THICKNESS OF THE WATTLE.
 - INSTALL THE WATTLES SLOTTED INTO THE TRENCHES AND ABUT TIGHTLY END TO END. DO NOT OVERLAP THE ENDS OF THE WATTLES.
 - IF REQUIRED, INSTALL PLOT HOLES FOR THE STAKES USING A STAPLER BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL.
 - AT A MINIMUM, WOODEN STAKES SHOULD BE APPROXIMATELY 1 1/2 X 2 1/2 INCHES. WOOD CUTTINGS OR 3/8-INCH REBAR CAN ALSO BE USED FOR STAKES.
 - WHEN POSSIBLE, PLACE FILTER SOCKS AT A 5 FOOT OR GREATER DISTANCE AWAY FROM THE TOE OF SLOPE, PROTRUDING ABOVE THE WATTLE.
 - ENDS OF THE FILTER SOCKS MUST BE CONSTRUCTED POINTING UPSLOPE SO THE ENDS ARE AT A HIGHER ELEVATION.
 - MAINTENANCE ON STRAW WATTLES
 - REPAIR OR REBUILD STRAW WATTLES WHEN THEY ARE DAMAGED BY ANIMALS OR OTHER FACTORS.
 - REMOVE SEDIMENT ACCUMULATIONS WHEN EXCEEDING 1 THE HEIGHT BETWEEN THE TOP OF THE WATTLE AND THE GROUND SURFACE.
 - REPAIR OR REBUILD STRAW WATTLES WHEN THEY ARE DAMAGED BY ANIMALS OR OTHER FACTORS.
 - REPAIR OR REBUILD STRAW WATTLES WHEN THEY ARE DAMAGED BY ANIMALS OR OTHER FACTORS.



STRAW BALE BARRIER



DITCH CHECK DETAILS

FINAL
ODOT District 7
Permits

- STRAW BALE BARRIER SPECIFICATIONS
- CHANNEL FLOW APPLICATIONS
 - BALES SHALL BE PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE FLOW DIRECTION.
 - THE SPACING BETWEEN BALES SHALL BE 10 TO 15 FEET.
 - THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE BALES ARE IN CONTACT WITH THE GROUND SURFACE.
 - LOWEST WHOLE BALE TO ASSURE THAT SEDIMENT-LOADED RUNOFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER BUT NOT AROUND IT.
- NOTE: HAY BALES MAY BE USED IN PLACE OF STRAW BALES.
- MAINTENANCE
- STRAW BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL EVENT.
 - REPAIR OR REBUILD STRAW BALE BARRIERS WHEN THEY ARE DAMAGED BY ANIMALS OR OTHER FACTORS.
 - REMOVE SEDIMENT ACCUMULATIONS WHEN EXCEEDING 1 THE HEIGHT BETWEEN THE TOP OF THE BALE AND THE GROUND SURFACE.
 - REPAIR OR REBUILD STRAW BALE BARRIERS WHEN THEY ARE DAMAGED BY ANIMALS OR OTHER FACTORS.
 - REPAIR OR REBUILD STRAW BALE BARRIERS WHEN THEY ARE DAMAGED BY ANIMALS OR OTHER FACTORS.

- ROCK CHECK DAM SPECIFICATIONS
- THE CHECK DAM SHALL BE CONSTRUCTED OF 4" TO 8" DIAMETER ROCKS, PLACED IN A SINGLE ROW, LENGTHWISE, ORIENTED PERPENDICULAR TO THE FLOW DIRECTION.
 - THE SPACING BETWEEN DAMS SHALL BE 10 TO 15 FEET.
 - THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE DAMS ARE IN CONTACT WITH THE GROUND SURFACE.
 - LOWEST WHOLE DAM TO ASSURE THAT SEDIMENT-LOADED RUNOFF WILL FLOW EITHER THROUGH OR OVER THE DAM BUT NOT AROUND IT.
- NOTE: HAY DAMS MAY BE USED IN PLACE OF ROCK DAMS.
- MAINTENANCE
- ROCK DAMS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL EVENT.
 - REPAIR OR REBUILD ROCK DAMS WHEN THEY ARE DAMAGED BY ANIMALS OR OTHER FACTORS.
 - REMOVE SEDIMENT ACCUMULATIONS WHEN EXCEEDING 1 THE HEIGHT BETWEEN THE TOP OF THE DAM AND THE GROUND SURFACE.
 - REPAIR OR REBUILD ROCK DAMS WHEN THEY ARE DAMAGED BY ANIMALS OR OTHER FACTORS.
 - REPAIR OR REBUILD ROCK DAMS WHEN THEY ARE DAMAGED BY ANIMALS OR OTHER FACTORS.

CHANGE ORDER SCHEDULE		SHEET APPROVALS	
NO.	DESCRIPTION OF CHANGE	NO.	BY DATE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

VECTREN ENERGY DELIVERY OF OHIO, INC.		Utility Technologies Intl. Corporation	
Z-167 RELOCATION		4700 Homer Ohio Lane Groveport, OH 43125 Tel: 614-482-8070 Fax: 614-482-8070 www.uti-corp.com	
HOBART, OHIO			
CONSTRUCTION DETAILS			
DRAWN BY: J. L. BROWN		CHECKED BY: J. L. BROWN	
DESIGNED BY: J. L. BROWN		APPROVED BY: J. L. BROWN	
DATE: MAY 1, 2014		SCALE: HORIZONTAL - AS SHOWN VERTICAL - AS SHOWN	
SHEET NO.: 24/27			



**Utility Technologies Intl.
Corporation**
Total Capabilities in the Pipeline Industry

4700 Homer Ohio Lane
Groveport, OH 43125
P: 614-482-8080
F: 614-482-8070
www.uti-corp.com

DRAWING NO. 1-1012 PROJECT NO. 1-1012 SHEET NO. 1-1012		VECTREN ENERGY DELIVERY OF OHIO, INC. Z-167 RELOCATION HORTONCHERRY, OHIO CONSTRUCTION DETAILS	
DESIGN: [] [] [] DRAWN: [] [] [] CHECKED: [] [] [] APPROVED: [] [] []	DATE: 1-1-12 BY: [] [] [] FOR: [] [] []	PROJECT NO. 1-1012 SHEET NO. 1-1012 DATE: 1-1-12 BY: [] [] [] FOR: [] [] []	PROJECT NO. 1-1012 SHEET NO. 1-1012 DATE: 1-1-12 BY: [] [] [] FOR: [] [] []

April 1, 2014

**Supplemental Information for Vectren Energy Delivery of Ohio's
MR505 State of Ohio Department of Transportation Permit Application**

Type of bore: Conventional

Pipe Size: 12 inch

Type: Electric Resistance Welded steel pipe with a minimum of 0.312 inch wall thickness and a minimum of X-52 grade steel. Pipe will be coated with 14-16 mils of fusion bonded epoxy with an additional coating of 20 mils of Powercrete R95

MAOP: 500 psig

Specified Minimum Yield Strength: 2,544 psig (763 psig at 30% SMYS)

Casing: The pipeline will be operating at less than 20% SMYS and casing will not be used

Depth Under Roadway: minimum of 7 feet

Location of bore pits from edge of pavement: at least 36 feet on the south side of US40 and 21 feet on the north side.

Location of identification markers from edge of pavement: at least 21 feet on the north side of US40

Location of cathodic test station from edge of pavement: at least 36 feet on the south side of US40

Additional Information: The pipeline is not located in or near any MSE walls and is not within 2 feet of any structure foundation.

**FINAL
ODOT District 7
Permits**

Notes for Figure 6H-10—Typical Application 10
Lane Closure on a Two-Lane Road Using Flaggers

Option:

1. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).
2. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs. A BE PREPARED TO STOP sign may be added to the sign series.

Guidance:

4. *The buffer space should be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.*

Standard:

5. **At night, flagger stations shall be illuminated, except in emergencies.**

Guidance:

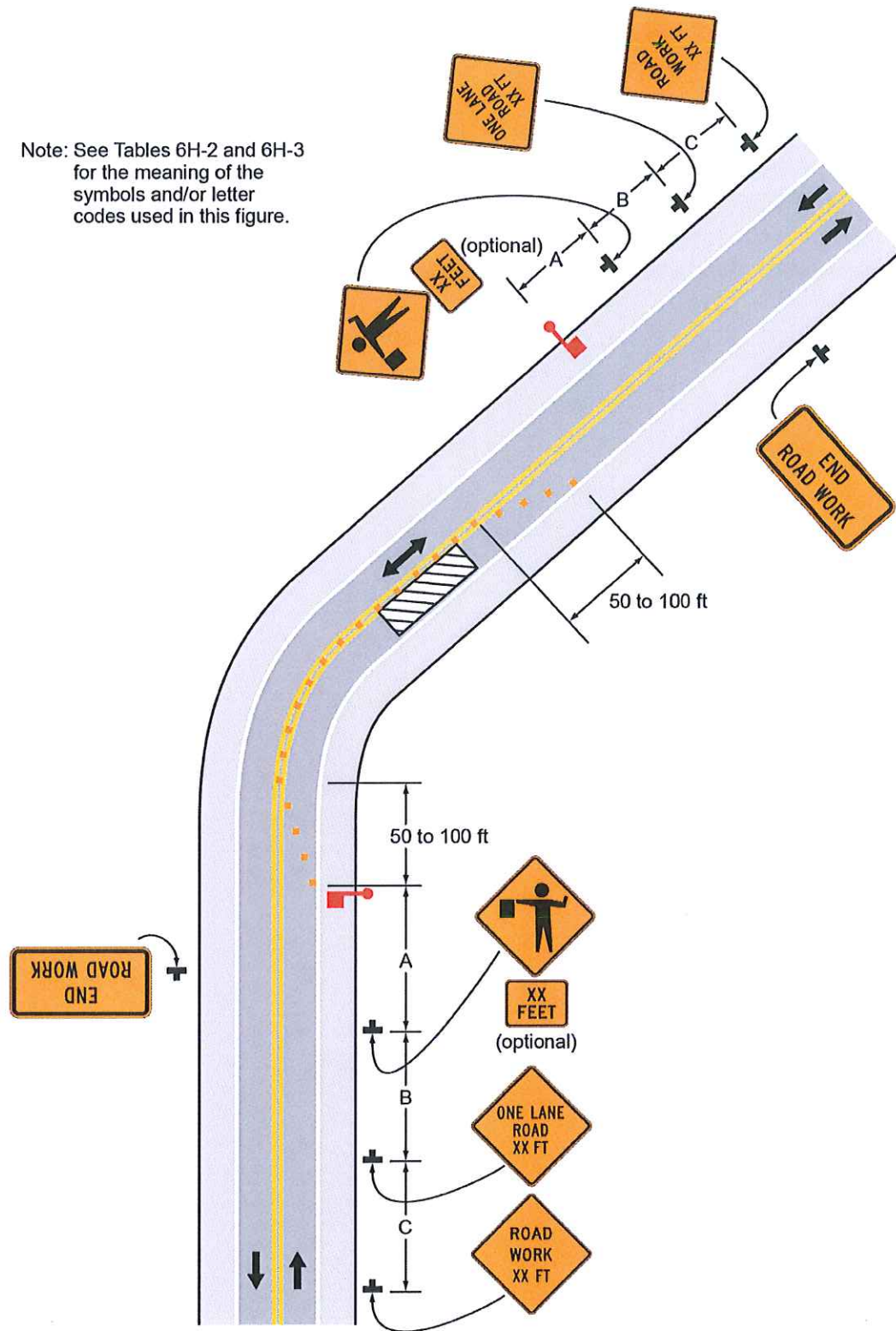
6. *When used, the BE PREPARED TO STOP sign should be located between the Flagger sign and the ONE LANE ROAD sign.*
7. *When a grade crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the grade crossing, the TTC zone should be extended so that the transition area precedes the grade crossing.*
8. *When a grade crossing equipped with active warning devices exists within the activity area, provisions should be made for keeping flaggers informed as to the activation status of these warning devices.*
9. *When a grade crossing exists within the activity area, drivers operating on the left-hand side of the normal center line should be provided with comparable warning devices as for drivers operating on the right-hand side of the normal center line.*
10. *Early coordination with the railroad company or light rail transit agency should occur before work starts.*

Option:

11. A flagger or a uniformed law enforcement officer may be used at the grade crossing to minimize the probability that vehicles are stopped within 15 feet of the grade crossing, measured from both sides of the outside rails.

Figure 6H-10. Lane Closure on a Two-Lane Road Using Flaggers (TA-10)

Note: See Tables 6H-2 and 6H-3 for the meaning of the symbols and/or letter codes used in this figure.



Typical Application 10

Notes for Figure 6H-14—Typical Application 14

Haul Road Crossing

Guidance:

1. *Floodlights should be used to illuminate haul road crossings where existing light is inadequate.*
2. *Where no-passing lines are not already in place, they should be added.*

Standard:

3. The traffic control method selected shall be used in both directions.

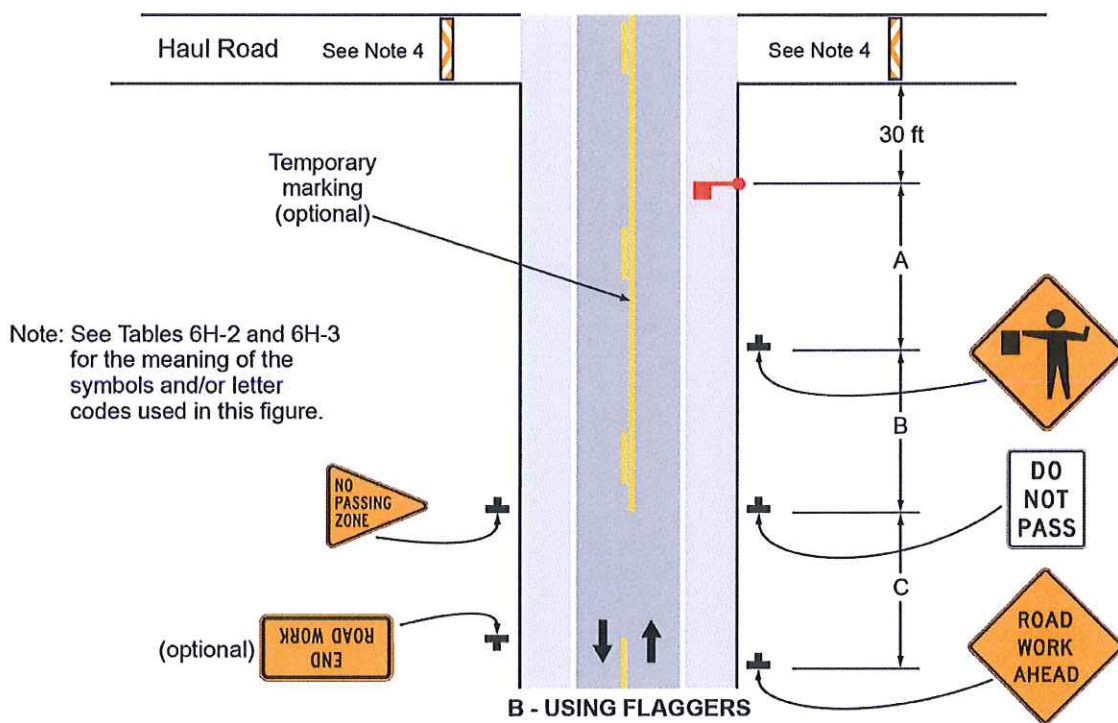
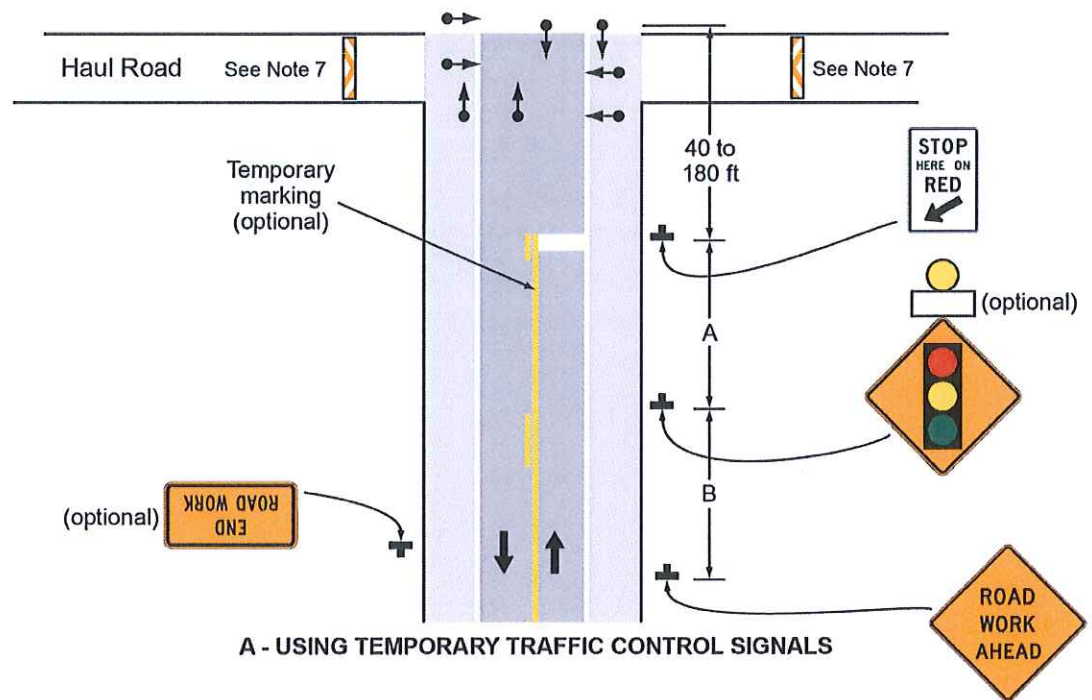
Flagging Method

4. When a road used exclusively as a haul road is not in use, the haul road shall be closed with Type 3 Barricades and the Flagger symbol signs covered.
5. The flagger shall follow the procedures provided in Sections 6E.07 and 6E.08.
6. At night, flagger stations shall be illuminated, except in emergencies.

Signalized Method

7. When a road used exclusively as a haul road is not in use, the haul road shall be closed with Type 3 Barricades. The signals shall either flash yellow on the main road or be covered, and the Signal Ahead and STOP HERE ON RED signs shall be covered or hidden from view.
8. The temporary traffic control signals shall control both the highway and the haul road and shall meet the physical display and operational requirements of conventional traffic control signals as described in Part 4. Traffic control signal timing shall be established by authorized officials.
9. Stop lines shall be used on existing highway with temporary traffic control signals.
10. Existing conflicting pavements markings between the stop lines shall be removed. After the temporary traffic control signal is removed, the stop lines and other temporary pavement markings shall be removed and the permanent pavement markings restored.

Figure 6H-14. Haul Road Crossing (TA-14)



Typical Application 14

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

5/8/2014 2:59:44 PM

in

Case No(s). 13-1651-GA-BTX

Summary: Correspondence of Vectren Energy Delivery of Ohio, Inc. in Compliance with Condition No. 10 electronically filed by Teresa Orahod on behalf of Sally Bloomfield