



Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit gives approval for the development/ project listed that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible and must remain posted during entirety of development.

Permit: #19-554

Date Approved: July 22, 2019

Expires: July 22, 2020

Issued to: Equitrans Midstream

POC: Erin Debias

Company Address: 2200 Energy Drive Canonsburg, PA 15317

Project Address: Nutters Fork @ Rt 18N West Union

Firm: 54017C0135C

Lat/Long: 39.329800N, -80.801950W

Purpose of Development: Pipeline Maintenance

Issued by: George C. Eidel, CFM, OEM Director/Doddridge County FPM (or designee)

Date: July 22, 2019

For additional information regarding this permit, please contact
Doddridge County Floodplain Manager at 304.873.2631, or via email at
doddridgecountyfpm@gmail.com
118 East Court Street; West Union, WV 26456

7018 3090 0000 0402 5215

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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For delivery information, visit our website at www.usps.com®.

OFFICIAL USE

Certified Mail Fee \$ 3.45

Extra Services & Fees (check box, add fees as appropriate)

Return Receipt (hardcopy) \$ 2.75

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$.50


Total Postage and Fees \$ 6.70

Sent To Dixie Craig

Street and Apt. No., or PO Box No. 5534 WORT. 18N

City, State, ZIP+4® West Union, WV 26456 19-554

PS Form 3800, April 2015 FSN 7530-02-000-9047 See Reverse for Instructions



9025 2040 1000 0606 9102

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Return Receipt (hardcopy) \$ 2.75

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$.50


Total Postage and Fees \$ 6.70

Sent To Randall Lynch

Street and Apt. No., or PO Box No. PO Box 100

City, State, ZIP+4® West Union, WV 26456 19-554

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Return Receipt (hardcopy) \$ 2.75

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$.50

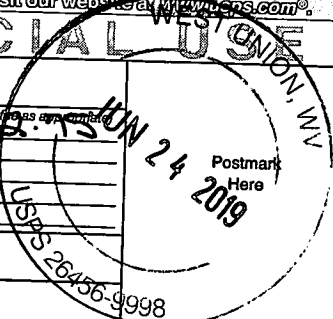
Total Postage and Fees \$ 6.70

Sent To Theodore & Karen Wigal

Street and Apt. No., or PO Box No. 105 55th St.

City, State, ZIP+4® Vienna WV 26105 19-554

PS Form 3800, April 2015 FSN 7530-02-000-9047 See Reverse for Instructions



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Return Receipt (hardcopy) \$ 2.75

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$.50

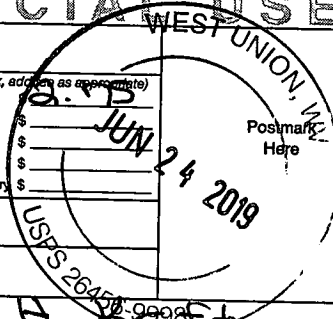
Total Postage and Fees \$ 6.70

Sent To Clifford H. Kraft

Street and Apt. No., or PO Box No. 574 Chipes Run

City, State, ZIP+4® West Union, WV 26456 19-554

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7018 3090 0000 0402 5155

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Certified Mail Fee \$ 3.45

Extra Services & Fees (check box, add fees as appropriate)

Return Receipt (hardcopy) \$ 2.75

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$.50

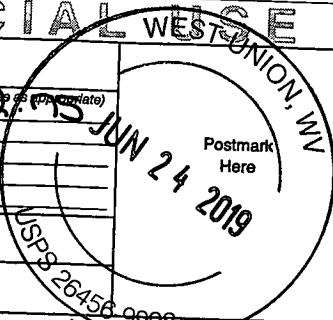
Total Postage and Fees \$ 6.70

Sent To Kenneth & Marilyn Williamson

Street and Apt. No., or PO Box No. 327 Creek Rd

City, State, ZIP+4® Clarksburg, OH 45113 19-554

PS Form 3800, April 2015 FSN 7530-02-000-9047 See Reverse for Instructions



7018 3090 0000 0402 5175

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Certified Mail Fee \$ 3.45

Extra Services & Fees (check box, add fees as appropriate)

Return Receipt (hardcopy) \$ 2.75

Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage \$.50

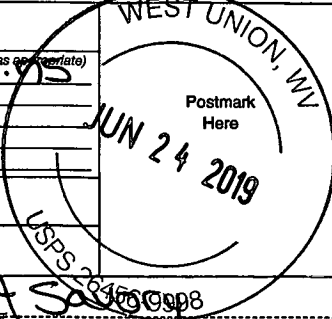
Total Postage and Fees \$ 6.70

Sent To Tom & Janet Saylor

Street and Apt. No., or PO Box No. 4354 Kenneth Rd.

City, State, ZIP+4® Stow, OH 44224 19-554

PS Form 3800, April 2015 FSN 7530-02-000-9047 See Reverse for Instructions





ENVIRONMENTAL CONSULTANTS

Sound Science. Creative Solutions.®

80 Emerson Lane, Suite 1306
Bridgeville, Pennsylvania 15017
Tel 412.839.1001 Fax 412.839.1005
www.swca.com

June 21, 2019

JUN 24 19 2:17PM

Mr. George Eidel, CFM
Doddridge County Emergency Manager and Floodplain Manager
105 Court Street, Suite #3
West Union, WV 26456

COPY

Re: **H527 Pipeline Maintenance Project
Floodplain Development Permit Application
Doddridge County, West Virginia**

Dear Mr. Eidel,

Equitrans Midstream (Equitrans) contracted SWCA Environmental Consultants (SWCA) to provide environmental services for the proposed H527 Pipeline Maintenance Project (Project) located in Doddridge County, West Virginia. The Floodplain Permit application was submitted to your office on June 19, 2019. A money order in the amount of \$500.00 is enclosed with this letter to cover the permit fee associated with this project.

If you have any questions, please contact me at (412) 977-7769 or natalie.shearer@swca.com

Sincerely,

Natalie L. Shearer

Natalie L. Shearer, M.S., QEP
Natural Resources Project Manager

COPY

Enclosures

Money Order for \$500.00

UNITED STATES POSTAL SERVICE

POSTAL MONEY ORDER

Serial Number: 25990576323

Date: 2019-06-21

Post Office: 15017

U.S. Dollars and Cents: \$500.00

Pay to: Doddridge County Commission

Address: 101 Church Street, West Union, WV 26456

From: SWCA Environmental Consultant

Address: 80 Emerson Lane, Bridgeville, PA 15017

Memorandum: Equitrans H-527 Floodplain Permit

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REVERSE WARNING • NEGOTIABLE ONLY IN THE U.S. AND POSSESSIONS

000008002: 25990576323

COPY

7018 3090 0001 0402 5178

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Certified Mail Fee \$ **3.45**

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ **2.15**

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ **.50**

Total Postage and Fees \$ **6.70**

Postmark Here
JUN 24 2019
 USPS 26456-9998

Sent To
Donna R. & Joyce A. Groover
 Street and Apt. No., or P.O. Box No.
5620 Murfield Way
 City, State, ZIP+4®
Avon, IN 46123 19-554

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 3090 0001 0402 5178

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OFFICIAL USE

Certified Mail Fee \$ **3.45**

Extra Services & Fees (check box, add fee as appropriate)

Return Receipt (hardcopy) \$ **2.15**

Return Receipt (electronic) \$

Certified Mail Restricted Delivery \$

Adult Signature Required \$

Adult Signature Restricted Delivery \$

Postage \$ **.50**

Total Postage and Fees \$ **6.70**

Postmark Here
JUN 24 2019
 USPS 26456-9998

Sent To
William L. Spencer
 Street and Apt. No., or P.O. Box No.
6445 Wylie Ridge
 City, State, ZIP+4®
New Cumberland, WV 26047 19-554

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Walter Heimbuch
1461 Riggins Run
West Union, WV 26456



2. Article Number (Transfer from service label)

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Agent
 Addressee

B. Received by (Printed Name)
W Heimbuch

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

Adult Signature Priority Mail Express®

Adult Signature Restricted Delivery Registered Mail™

Certified Mail® Registered Mail Restricted Delivery

Certified Mail Restricted Delivery Return Receipt for Merchandise

Collect on Delivery Signature Confirmation™

Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Insured Mail Signature Confirmation Restricted Delivery (over \$500)

Domestic Return Receipt

FLOODPLAIN PERMIT #19-554

Equitrans Midstream H527 Pipeline Maintenance Nutter Fork @ Rt18N 39.329800,-80.801950

TASK	COMPLETE (DATE)	NOTES
CHECK RECEIVED	6-24-19	Paid By money order
US ARMY CORP. ENGINEERS (USACE)		
US FISH & WILDLIFE SERVICES (USFWS)		
WV DEPT. NATURAL RESOURCES (WVDNR)		
WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)		
STATE HISTORIC & PRESERVATION OFFICE (SHPO)		
OFFICE of LAND & STREAM (OLS)		
DATE OF COMMISSION READING	July 2, 2019	
DATE AVAILABLE TO BE GRANTED	July 22, 2019	
PERMIT GRANTED		
COMPLETE		

7018 3090 0001 0402 5130

7018 3090 0001 0402 5147

7018 3090 0001 0402 5154

7018 3090 0001 0402 5161

7018 3090 0001 0402 5178

7018 3090 0001 0402 5185

7018 3090 0001 0402 5192

7018 3090 0001 0402 5208

7018 3090 0001 0402 5215

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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Tom & Janet Savory
4354 Kenneth Road
Stow, OH 44224



9590 9402 4783 8344 2634 66

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x Thomas E Savory Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
Thomas E Savory

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

PS Form 3811, July 2015 PSN 7530-02-000-9053

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Dixie Craig
5534 WV Rt 18N
West Union, WV 26456



9590 9402 4783 8344 2634 28

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x Carol Thomas Agent Addressee

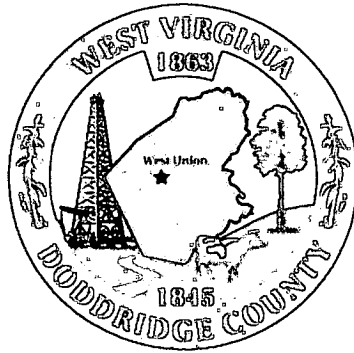
B. Received by (Printed Name) C. Date of Delivery
Carol Thomas *7-2-19*

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt



Doddridge County Floodplain Permits

(Week of June 24, 2019)

Please take notice that on the (19th) of (June), 2019, (Equitrans Midstream) filed an application for a Floodplain Permit (#19-554) to develop land located at or about (Nutter Fork @ Route 18 N);
Coordinates: 39.329800, -80.801950. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by (July 22, 2019) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. **This project is for the H527 Pipeline Maintenance Project**


GEORGE C. FIDEL, CFM

Doddridge County Floodplain Manager

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Danny R. & Joyce A. Groover
5620 Muirfield Way
Avon, IN 46123



9590 9402 4783 8344 2634 42

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

-
- Agent
-
-
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

6-26-19

D. Is delivery address different from item 1?

If YES, enter delivery address below:

-
- Yes
-
-
- No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Randall Lynch
P.O. Box 100
West Union, WV 26456



9590 9402 4783 8344 2634 11

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

-
- Agent
-
-
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

6-28-19

D. Is delivery address different from item 1?

If YES, enter delivery address below:

-
- Yes
-
-
- No

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

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80 Emerson Lane, Suite 1306
Bridgeville, Pennsylvania 15017
Tel 412.839.1001 Fax 412.839.1005
www.swca.com

JUN24 19 2:16PM

June 21, 2019

Mr. George Eidel, CFM
Doddrige County Emergency Manager and Floodplain Manager
105 Court Street, Suite #3
West Union, WV 26456

Re:

**H527 Pipeline Maintenance Project
Floodplain Development Permit Application
Doddrige County, West Virginia**

Dear Mr. Eidel,

Equitrans Midstream (Equitrans) contracted SWCA Environmental Consultants (SWCA) to provide environmental services for the proposed H527 Pipeline Maintenance Project (Project) located in Doddrige County, West Virginia. The Floodplain Permit application was submitted to your office on June 19, 2019. A money order in the amount of \$500.00 is enclosed with this letter to cover the permit fee associated with this project.

If you have any questions, please contact me at (412) 977-7769 or natalie.shearer@swca.com

Sincerely,

Natalie L. Shearer, M.S., QEP
Natural Resources Project Manager

Enclosures

Money Order for \$500.00

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>William L. Spencer</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____</p> <p>C. Date of Delivery <i>6-26-19</i></p>																
<p>1. Article Addressed to:</p> <p>William L. Spencer 6445 Wylie Ridge New Cumberland, WV 26047</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
<p>2. Article Number (Transfer from service label)</p> <p>9590 9402 4783 8344 2634 59</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
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<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery																
<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	

PS Form 3811, July 2015 PSN 7530-02-000-9053

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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY																
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Clifford H. Kraft</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____</p> <p>C. Date of Delivery <i>6-26-19</i></p>																
<p>1. Article Addressed to:</p> <p>Clifford H. Kraft 574 Chipps Run West Union, WV 26456</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>																
<p>2. Article Number (Transfer from service label)</p> <p>9590 9402 4783 8344 2634 80</p>	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Insured Mail		<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®																
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™																
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery																
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<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™																
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<input type="checkbox"/> Insured Mail																	
<input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)																	

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt



80 Emerson Lane, Suite 1306
Bridgeville, Pennsylvania 15017
Tel 412.839.1001 Fax 412.839.1005
www.swca.com

June 18, 2019

JUN19 19 12:08PM

Mr. George Eidel, CFM
Doddridge County Emergency Manager and Floodplain Manager
105 Court Street, Suite #3
West Union, WV 26456

Re:

**H527 Pipeline Maintenance Project
Floodplain Development Permit Application
Doddridge County, West Virginia**

Dear Mr. Eidel,

Equitrans Midstream (Equitrans) contracted SWCA Environmental Consultants (SWCA) to provide environmental services for the proposed H527 Pipeline Maintenance Project (Project) located in Doddridge County, West Virginia. SWCA conducted wetland and stream delineations at all seven H527 Pipeline Maintenance Locations (Sites). Maintenance activities include five pipeline drip replacements and two valve replacements. Equitrans' work is being conducted pursuant to the Federal Energy Regulatory Commission (FERC) regulations for auxiliary installations and replacement facilities (18 CFR § 2.55).

Project impacts were determined based upon the delineation results. Site 1 was located within Nutter Fork, mapped as Flood Hazard Zone A. The remaining sites were not located with a FEMA-mapped Flood Hazard Zone. Equitrans is applying for a Floodplain Development Permit for Site 1. The Floodplain Development Permit Application, a site location map, resource mapping, and FIRM mapping are attached for your review.

If you have any questions, please contact me at (412) 977-7769 or natalie.shearer@swca.com

Sincerely,

A handwritten signature in cursive script that reads 'Natalie L. Shearer'.

Natalie L. Shearer, M.S., QEP
Natural Resources Project Manager

Enclosures

Doddridge County, WV Floodplain Development Permit Application
Site Location Map
Resource Mapping
Erosion and Sediment Controls
FIRM Mapping

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Kenny R. & Marily Williamson
327 Creek Road
Clarksville, OH 45113



9590 9402 4783 8344 2634 73

2. Article Number (Transfer from service label)

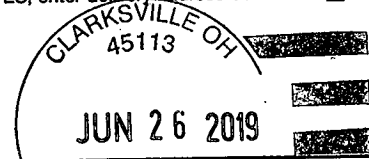
PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Kenny Williamson Addressee

B. Received by (Printed Name) *Kenny Williamson* C. Date of Delivery *6/26/19*

D. Is delivery address different from item 1? Yes/
 If YES, enter delivery address below: No



3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Theodore & Karen Wigal
765 55th Street
Vienna, WV 26105



9590 9402 4783 8344 2634 97

2. Article Number (Transfer from service label)

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Sharon Wigal Addressee

B. Received by (Printed Name) C. Date of Delivery *6-26-19*

D. Is delivery address different from item 1? Yes/
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Insured Mail
 - Insured Mail Restricted Delivery (over \$500)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

DODDRIDGE COUNTY, WV FLOODPLAIN
DEVELOPMENT PERMIT APPLICATION



GATEWAY®

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THE GATEWAY ENGINEERS, INC.

100 MCMORRIS ROAD
PITTSBURGH, PA 15205-9401
412.921.4030 PHONE
855.634.9284 TOLL-FREE
412.921.9960 FAX

GatewayEngineers.com

ENGINEERING "NO RISE/NO IMPACT" CERTIFICATION"

**H527 Pipeline Maintenance Project
Doddridge County, West Virginia**

The H527 Pipeline maintenance project will involve excavation and trenching to remove and replace sections of pipe, including erosion and sedimentation control BMP installation and associated temporary access stream crossings utilizing span mat bridges. The sites will be returned to predevelopment land cover and grade conditions, resulting in no changes to the flow capacity of the floodway due to land cover changes or a change in the floodplain cross section.

This is to certify that I am a duly qualified engineer licensed to practice in the State of West Virginia.

It is to further certify that the above technical summary supports the fact that the proposed H527 Pipeline Maintenance Project will not impact the 100-year flood elevations, floodway elevations and floodway widths on Nutter Fork at published sections of the Flood Insurance Study (FIS) for Doddridge County and will not impact the 100-year flood elevations, floodway elevations, and floodway widths at unpublished cross-sections in the vicinity of the proposed development.

6/19/19

(Date)

(Signature)



<p>MUNICIPAL ENGINEERING • LAND DEVELOPMENT • SURVEYING • GIS MAPPING LANDSCAPE ARCHITECTURE • STRUCTURAL ENGINEERING • TRAFFIC ENGINEERING ENVIRONMENTAL • ECOLOGICAL • GEOTECHNICAL • INSPECTION • MATERIAL TESTING</p>	<p>MISSION STATEMENT Gateway Engineers, Inc. is committed to providing the highest quality engineering services to our clients. We are dedicated to the safety, health, and well-being of the community and the environment.</p>
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Permit# 19-554
Project Name: H527 Pipeline
MAINTENANCE
Permittees Name: Equitrans
Midstream

JUN 19 19 12:08PM

Doddridge County, WV

Floodplain Development Permit Application

This document is to be used for projects that impact/potentially impact the FEMA—designated floodplain and/or floodway of Doddridge County, WV pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance.

SECTION 1: GENERAL PROVISIONS (APPLICANT TO READ AND SIGN)

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. The permit will expire if no work is commenced within six months of issuance.
5. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
6. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
7. I THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.

APPLICANT'S SIGNATURE

Chris C. Nelson

DATE

6/18/19

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: Equitrans Midstream		
Corporate Mailing Address: 2200 Energy Drive		
City: Canonsburg	State: PA	Zip: 15317
Corporate Point of Contact (POC): Erin Debias		
Corporate POC Title: Environmental Coordinator		
Corporate POC Primary Phone: 724-737-0932		
Corporate POC Primary Email: EDebias@equitransmidstream.com		
Corporate FEIN: 83-0516635	Corporate DUNS: 81269287	
Corporate Website: www.equitransmidstream.com		
Local Mailing Address: 2200 Energy Drive		
City: Canonsburg	State: PA	Zip: 15317
Local Project Manager (PM): Erin Debias		
Local PM Primary Phone: 724-737-0932		
Local PM Secondary Phone: 412-737-0932		
Local PM Primary Email: EDebias@equitransmistream.com		
Person Filing Application: Ms. Natalie Shearer		
Applicant Title: Natural Resources Project Manager		
Applicant Primary Phone: (412) 839-1001 x5524		
Applicant Secondary Phone: (412) 977-7769		
Applicant Primary Email: Natalie.Shearer@swca.com		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Proposed Development:

Please check all elements of the proposed project that apply.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

<u>ACTIVITY</u>	<u>STRUCTURAL TYPE</u>
<input type="checkbox"/> New Structure	<input type="checkbox"/> Residential (1 – 4 Family)
<input type="checkbox"/> Addition	<input type="checkbox"/> Residential (more than 4 Family)
<input checked="" type="checkbox"/> Alteration	<input type="checkbox"/> Non-residential (floodproofing)
<input type="checkbox"/> Relocation	<input type="checkbox"/> Combined Use (res. & com.)
<input type="checkbox"/> Demolition	<input checked="" type="checkbox"/> Replacement
<input type="checkbox"/> Manufactured/Mobil Home	

B. OTHER DEVELOPMENT ACTIVITIES:

- | | | | |
|--|---------------------------------|-----------------------------------|-------------------------------------|
| <input type="checkbox"/> Fill | <input type="checkbox"/> Mining | <input type="checkbox"/> Drilling | <input type="checkbox"/> Pipelining |
| <input type="checkbox"/> Grading | | | |
| <input checked="" type="checkbox"/> Excavation (except for STRUCTURAL DEVELOPMENT checked above) | | | |
| <input type="checkbox"/> Watercourse Alteration (including dredging and channel modification) | | | |
| <input type="checkbox"/> Drainage Improvements (including culvert work) | | | |
| <input type="checkbox"/> Road, Street, or Bridge Construction | | | |
| <input type="checkbox"/> Subdivision (including new expansion) | | | |
| <input type="checkbox"/> Individual Water or Sewer System | | | |
| <input type="checkbox"/> Other (please specify) | | | |

Maintenance activities along an existing pipeline corridor including minor excavation and

replacement of deficient pipeline segments. No permanent fill is proposed, and all work

areas will be returned to pre-construction contours upon completion.

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Development Site/Property Information:

Please provide physical description of the site/property, along with pertinent ownership (surface and mineral rights) data as applicable. Attach appropriate maps from the WV Flood Tool showing location of proposed development. Use additional copies of this page if development spans multiple property boundaries. Designate each property by number (i.e. Property 1 of 1, Property 2 of 7, etc.)

Property Designation: 1 of 1

Site/Property Information		
Legal Description: TWO TRS M I CREEK; 75.72 AC		
Physical Address/911 Address: 4978 WV RT 18 N, WEST UNION, WV 26465		
Decimal Latitude/Longitude: 39.329800, -80.801950		
DMS Latitude/Longitude: 39° 19' 47.28", -80° 48' 7.02"		
District: West Union	Map: 6	Parcel: 1
Land Book Description: Inactive 1-story farm		
Deed Book Reference: Deed book 258, page 546; Property Class F - Farm		
Tax Map Reference: Tax year 2018; Class - 2		
Existing Buildings/Use of Property: 1-story inactive farm (Land Use 113)		

Floodplain Location Data: <i>(to be completed by Floodplain Manager or designee)</i>			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No Zone: _____	
Notes:			

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

Please provide data on current site/property landowner(s), both surface and mineral rights (as applicable). Use additional copies of this page as needed. Designate each page in relation to each property listed above.

Property Designation: <u> 1 </u> of <u> 1 </u>
--

Property Owner Data:		
Name of Primary Owner (PO): Randall Lynch & Dixie Craig		
PO Address: 5534 WV RT 18 N; West Union, WV 26456		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Surface Rights Owner Data:		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Mineral Rights Owner Data: (As Applicable)		
Name of Primary Owner (PO):		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Contractor Data:

Please provide all pertinent data for contractors and sub---contractors that may be participating in this project. Use additional copies of this page as needed. Designate each page in relation to each property listed above.

Property Designation: ____ of ____

Contractor/Sub-Contractor (C/SC) Information:		
C/SC Company Name: TBD		
C/SC WV License Number:		
C/SC FEIN:	C/SC DUNS:	
Local C/SC Point of Contact (POC):		
Local C/SC POC Title:		
C/SC Mailing Address:		
City:	State:	Zip-Code:
Local C/SC Office Phone:		
Local C/SC POC Phone:		
Local C/SC POC E-Mail:		

Engineer Firm Information:		
Engineer Firm Name: The Gateway Engineers, Inc.		
Engineer WV License Number: 20101		
Engineer Firm FEIN: 25-1006946	Engineer Firm DUNS: 06-684-3053	
Engineer Firm Primary Point of Contact (POC): Matthew E. Bagaley, P.E.		
Engineer Firm Primary POC Title: Project Manager		
Engineer Firm Mailing Address: 100 McMorris Road		
City: Pittsburgh	State: PA	Zip-Code: 15205
Engineer Firm Office Phone: (412) 921-4030		
Engineer Firm Primary POC Phone: (412) 921-4030 ext. 153		
Engineer Firm Primary POC E-Mail: mbagaley@gatewayengineers.com		

Adjacent and/or Affected Landowners Data

Please provide data for all adjacent and/or affected surface owners (both up and down stream) whose property may be impacted by proposed development as demonstrated by a floodplain study or survey. Use additional copies of this page as needed.

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): John Paul Strickling, et. al.		
Physical Address: 756 Strickling Farm Lane		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): Theodore R. & Karen L. Wigal		
Physical Address: 706 55th Street		
City: Vienna	State: WV	Zip: 26105
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): Dwight David R. Hard et. al.		
Physical Address: Cledith Davis - 70 Nutters Fork		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): Equitrans, L.P.		
Physical Address: PO Box 6135		
City: Pittsburgh	State: PA	Zip: 15212
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Site Plan

A Site Plan is an accurate and detailed map of the proposed development for this project. It shows the size, shape, location and special features of the project property, and the size and location of any development planned to the property, especially as that development will impact the floodplain and/or floodway. Site plans show what currently exists on the project property, and any changes or improvements you are proposing to make. **A certified and licensed engineering firm should complete site plans.**

A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:

1. Legal description of the parcel, north arrow and scale
2. All property lines and their dimensions
3. Names of adjacent roads, location of driveways
4. Location of sloughs, tributaries, streams, rivers, wetlands, ponds, and lakes, with setbacks indicated, and including FEMA floodplain data based on most updated FIRM.
5. Location, size, shape of all buildings, existing and proposed, with elevation of lowest floor indicated.
6. Location and dimensions of existing or proposed on-site sewage systems.
7. Location of all propane tanks, fuel tanks or other liquid storage tanks whether above ground or below ground level.
8. Location and dimensions of any proposed pipeline placement(s) into floodplain/floodway.
9. Location and dimensions of any roadway development into floodplain/floodway. *(Includes initial development accessroads)*
10. Location and dimensions of any bridge and/or culvert development into floodplain/floodway.
11. Location and dimensions of any storage yard or facility into the floodplain/floodway.
12. Location of any existing utilities and/or proposed utility placement and/or displacement.
13. Location, dimensions and depth of any existing or proposed fill on site.
14. A survey showing the **existing ground elevations** of at least location on the building site. **ELEVATION NOTE:** All vertical datum will reference either NGVD 29 or NAVD 88. Assumed datum will not be acceptable unless the property is located in an area where vertical datum has not been published. For those areas where vertical datum has not been established, a site plan with contours, elevations using assumed datum, high water marks and existing water levels of sloughs, rivers, lakes or streams and proposed lowest floor elevation.

Applicant

Please read print name, sign and date below:

- I certify that I am authorized to submit this application for the primary project developer.
- I certify that the information included in this application is to the best of my knowledge true and complete.
- I certify that all required Federal, State, and local permits required by law and/or ordinance for the above described development of this project have will be properly attained, are current and valid, and must be presented prior to a Doddridge County Floodplain Permit being issued.
- I understand that if in the course of the development project additional permits become required that were not needed during the initial proposal, the primary developer must notify the Doddridge County Floodplain Manager within 48 hours of such need, and that a "Stop Work" order may be issued for all project work directly impacting the floodplain or floodway, until such time the required additional permits are acquired.
- I understand that once the floodplain permit is submitted, the application will be entered into official public record at the next regularly scheduled Doddridge County Commission meeting after the date of submittal.
- I understand that from the date of submittal of the fully completed permit application, the Doddridge County Floodplain Manager has ninety (90) days to make a determination to either grant or deny said permit application. During this approval period, the Doddridge County Floodplain Manager may, at his or her discretion, conduct a review and/or additional study of provided documentation by means of an independent engineering firm. All costs associated with said review and/or study must be reimbursed to the County before issuance of approved permit.
- I understand that during the approval period, the Doddridge County Floodplain Manager of designee may at his or her discretion conduct site visits and document conditions of proposed development pursuant to the permit application.
- I understand that once the Floodplain Permit is granted, the permit will be entered into official public record. Appeals to the permit may be made no later than twenty (20) days after said issuance. If a valid appeal is submitted, as determined by the Doddridge County Floodplain Manager, a "Stop Work" order will be issued for all project development directly involving the floodplain or floodway. A public hearing by the Doddridge County Appeals Board will be scheduled no less than ten (10) days after the next regularly scheduled Doddridge County Commission meeting.
- I understand that all decisions of the Doddridge County Appeals Board shall be final.
- I understand issuance of a Floodplain Permit authorizes me to proceed with construction as proposed.
- In signing this application, the primary developer hereby grants the Doddridge County Floodplain Manager or designee the right to enter onto the above--described location to inspect the development work proposed, in progress, and/or completed.
- I understand that if I do not follow exactly the site--plan submitted and approved by this permit that a "Stop Work" order may be issued by the Doddridge County Floodplain Manager and that I must stop all construction immediately until discrepancies of actual work vs. proposed work is resolved.

Applicant Signature: Erin E. DeBias Date: 6/17/19

Applicant Printed Name: Erin E. DeBias

Parcel Number	Landowner	Address	Acres	Contact Info	Letter Sent	
08-06-01	Lynch, Randall & Dixe Craig	5534 WV RT 18 N West Union WV 26456	75.72		Yes	
08-04-13	Wigal Theodore & Karen	706 55th St. Vienna WV 26105	48.51		Yes	
08-04-14	Wigal Theodore & Karen	706 55th St. Vienna WV 26105	36.54		Yes	
08-04-18	Kraft, Clifford H et ux	574 Chipps RN West Union WV 26456	71.1	304-873-1020	Yes	Ask to rock i
03-05-28	Williamson Kenny R & Marily	327 Creek Rd, Clarksbille, OH 45113	160	1-937-289-2150		Need additi agreement t awaiting ret 5/29/2019
08-05-1.1	Savory, Tom and Janet	4354 Kenneth Road Stow OH 44224	50	1-330-688-9405		Need Temp awaiting res agreement s execute it y
03-05-29	Spencer William L.	6445 Wylie Ridge, New Cumberland WV 26047	102		Yes	
03-06-11.2	Groover, Danny R. Joyce A.	5620 Muirfield Way, Avon, IN 46123	0.64		Yes	
03-06-11	Groover, Danny R. Joyce A.	5621 Muirfield Way, Avon, IN 46123	47		Yes	
03-06-16	Heimbuch, Walter	1461 RIGGINS RN, WEST UNION, WV 26456	104.8		Yes	

0000033748
08 - WEST UNION MAG

Marriage County Real Property - Tax Year: 2018

Account Number:
Taxpayer I.D.:

Owner Name: LYNCH WILLIAM RANDALL & DIXIE JANET CRAIG (SURV) In Care of: Address: 5534 WV RT 18 N WEST UNION WV 26456 Lending Inst:	Property: M I CREEK 32.19 AC Map: 6 Parcel: Lot Size: Acreage: Book: 214 Page:
Tax Class: 2 Homestead Exemption: Back Tax: Exoneration: Prior Delinquents:	

Randall Lynch
 P.O. Box 100
 West Union, WV
 26456

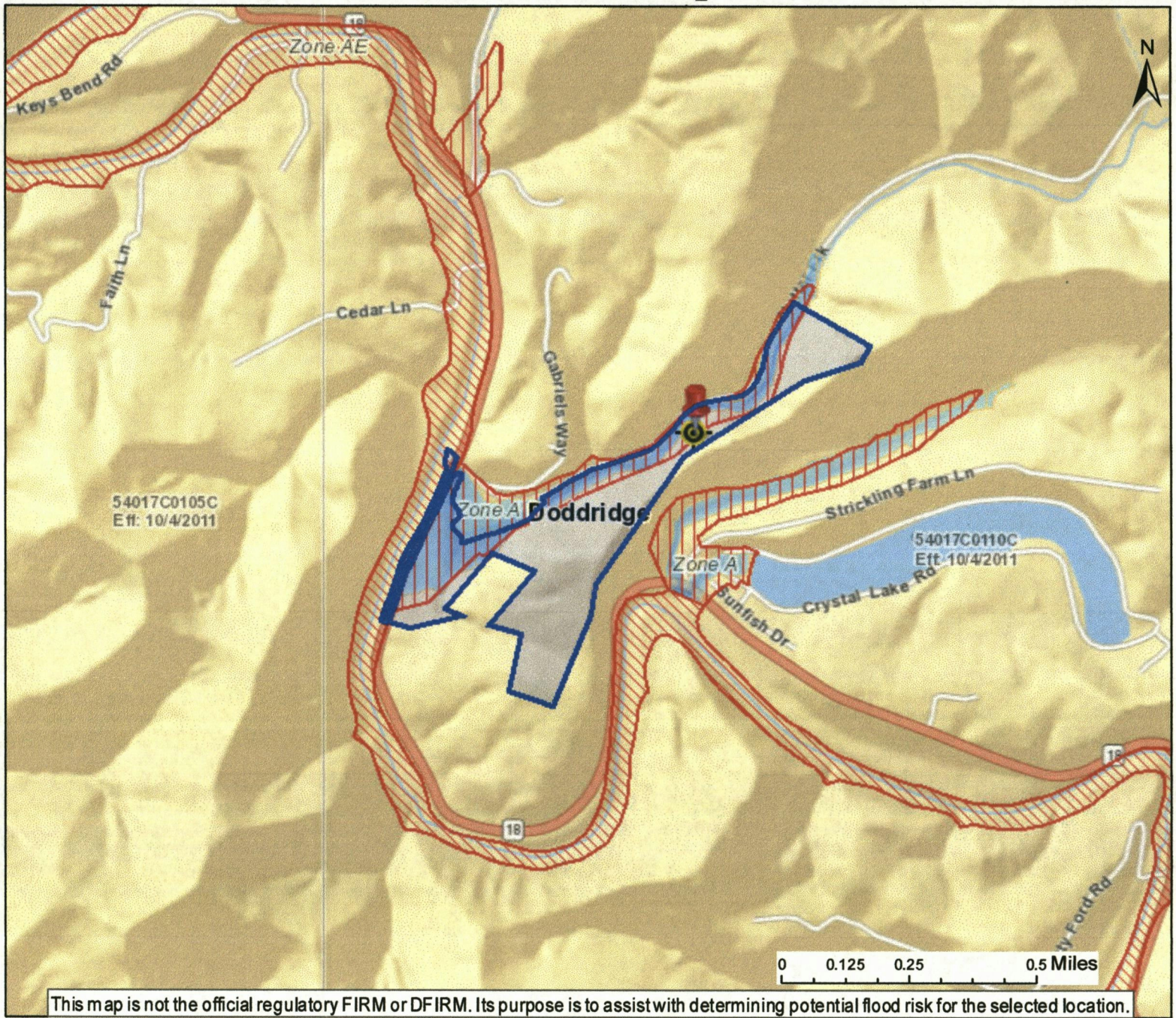
This is The Best Address the Company Could Find, see if you can find addresses & mail out notifications To both

H527 Temporary Stream Impacts

Resource Name	Classification	OHWM Depth (ft)	OHWM Width (ft)	Stream Impact Length (ft)
Stream 01	Perennial	0.75	12.0	77
Stream 02	Intermittent	0.5	2.0	23.23
Stream 03	Intermittent	0.6	3.0	39.20
Stream 04	Intermittent	0.5	0.5	24.49
Stream 05	Intermittent	0.5	3.5	68.93
Stream 06	Intermittent	0.4	1.7	56.39
Stream 07	Intermittent	0.33	2.0	63.18
Total				352.40

SITE LOCATION MAP

WV Flood Map



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

<p>LOMAs</p> <ul style="list-style-type: none"> ● Incorporated ● Superseded ● Not incorporated ● No Revalidation Status ● Reevaluated ● Contact Community for Revalidation Status 		<p>0.2 Pct Annual Chance Flood Hazard</p> <ul style="list-style-type: none"> ■ 0.2 Pct Annual Chance Flood Hazard 		<p>AREA WITH REDUCED FLOOD RISK DUE TO LEVEE</p> <ul style="list-style-type: none"> DFIRM Panel Index 		<p>LOMRs</p> <ul style="list-style-type: none"> Effective 	
<p>FEMA Effective Floodplains</p> <ul style="list-style-type: none"> Zone AE FLOODWAY Zone AE (AH, AO) Zone A 		<p>Flood Depth (Ft)</p> <ul style="list-style-type: none"> High : 864.11 Low : 0 		<p>Legend:</p> <ul style="list-style-type: none"> ● Flood Info Location 			

Map created on 6/19/2019

User Notes:

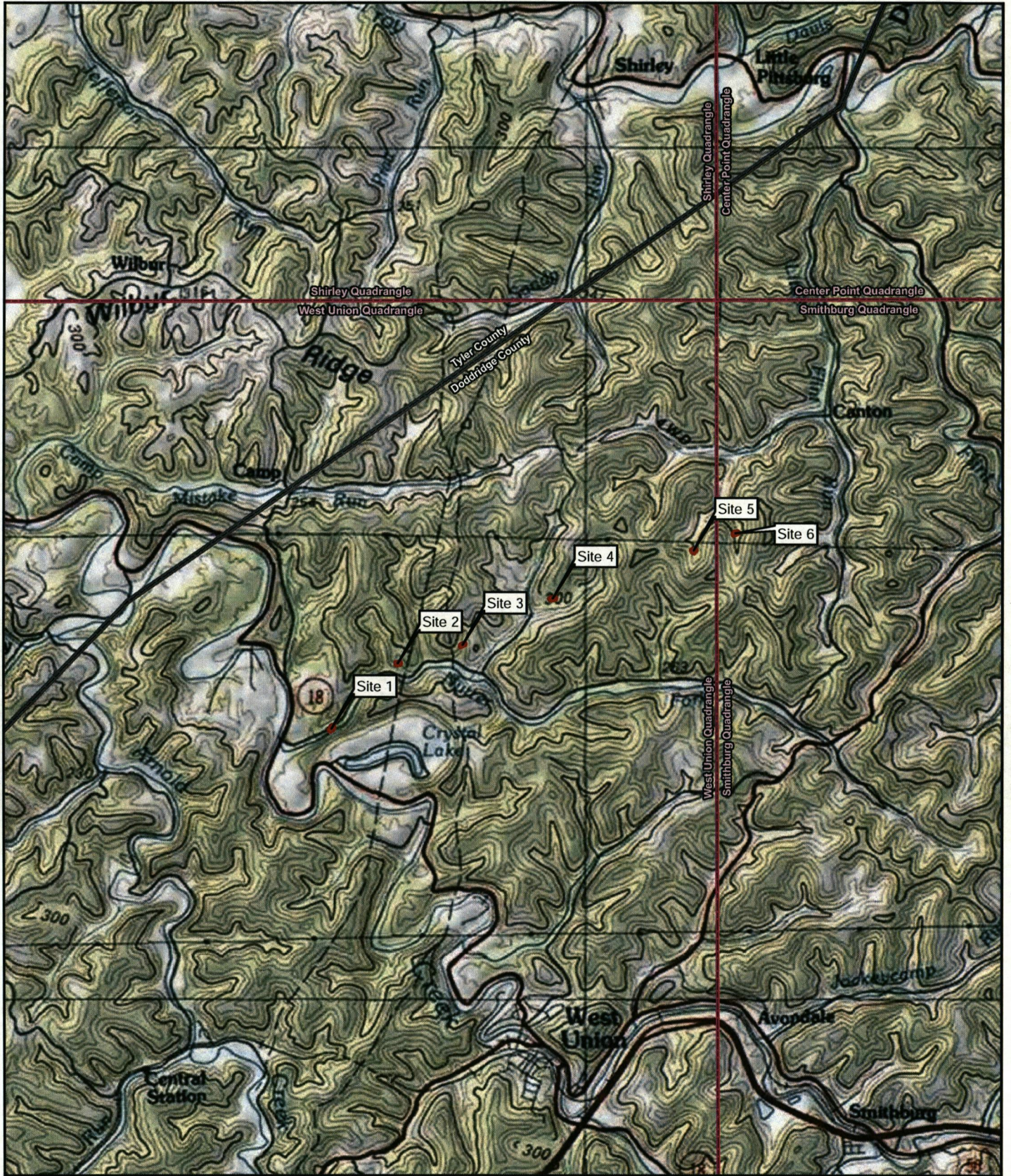
Flood Hazard Area:
Location is **WITHIN** the FEMA 100-year floodplain.

Flood Hazard Zone: A
Stream: Nutter Fork
Watershed (HUC8): Little Musringum-Middle Island (50302)
Flood Height: N/A
Water Depth: N/A
Elevation: About 781 ft (Source: SAMS 2003)
Location (long, lat): (-80.802057, 39.329360)
Community&ID: Doddridge County (540024)

FEMA Flood Map: 54017C0110CNFHIEFF: 10/4/2011
Parcel Number: 09-08-0006-0001-0000
Address: 4978 WV RT 18 N, WV, 26456

Disclaimer:
The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. **WV Flood Tool** (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Path: K:\PROJECTS\14000024623_06 - H527 Equipment Compliance Program\MXD\Report\R0001a_USCS\page1_H527.mxd







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80 Emerson Lane, Suite 1306
 Bridgeville, PA 15017
 (412) 839-1001 phone
 (412) 839-1005 fax
 www.swca.com

H527 PIPELINE MAINTENANCE PROJECT
FIGURE 1A.

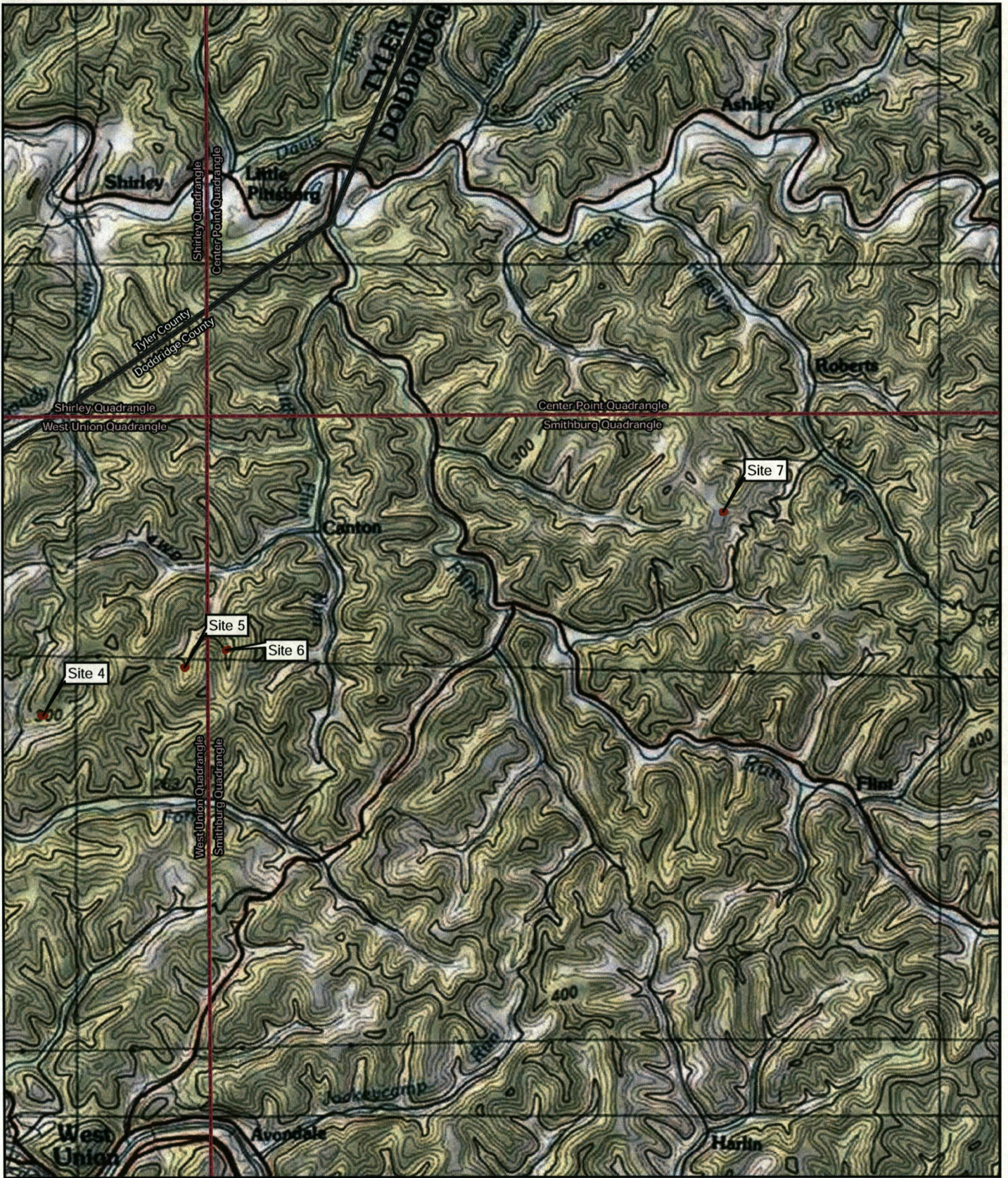
USGS TOPOGRAPHIC MAP
 WEST UNION AND SMITHBURG QUADRANGLES
 DODDRIDGE COUNTY, WEST VIRGINIA

-  Area of Investigation (AOI)
-  USGS Quadrangle Boundary
-  County Boundary

	Background:	USGS 7.5' Topographic Map
	Scale:	1:59,945
	Created By:	EWS
	Approved By:	NS
	SWCA Project No.:	024623.06
Date Produced:	May 08, 2019	NAD 1983 UTM Zone 17N

0 0.5 1 Miles
 0 500 1,000 1,500 2,000 2,500 Meters

Path: K:\PROJ\ECTS\24000\024623.06 - H57 Equilibria Compliance Program\MXD\Report\NR007b_USCS\page2_H57.mxd



80 Emerson Lane, Suite 1306
 Bridgeville, PA 15017
 (412) 839-1001 phone
 (412) 839-1005 fax
 www.swca.com

**H527 PIPELINE
 MAINTENANCE PROJECT
 FIGURE 1B.**

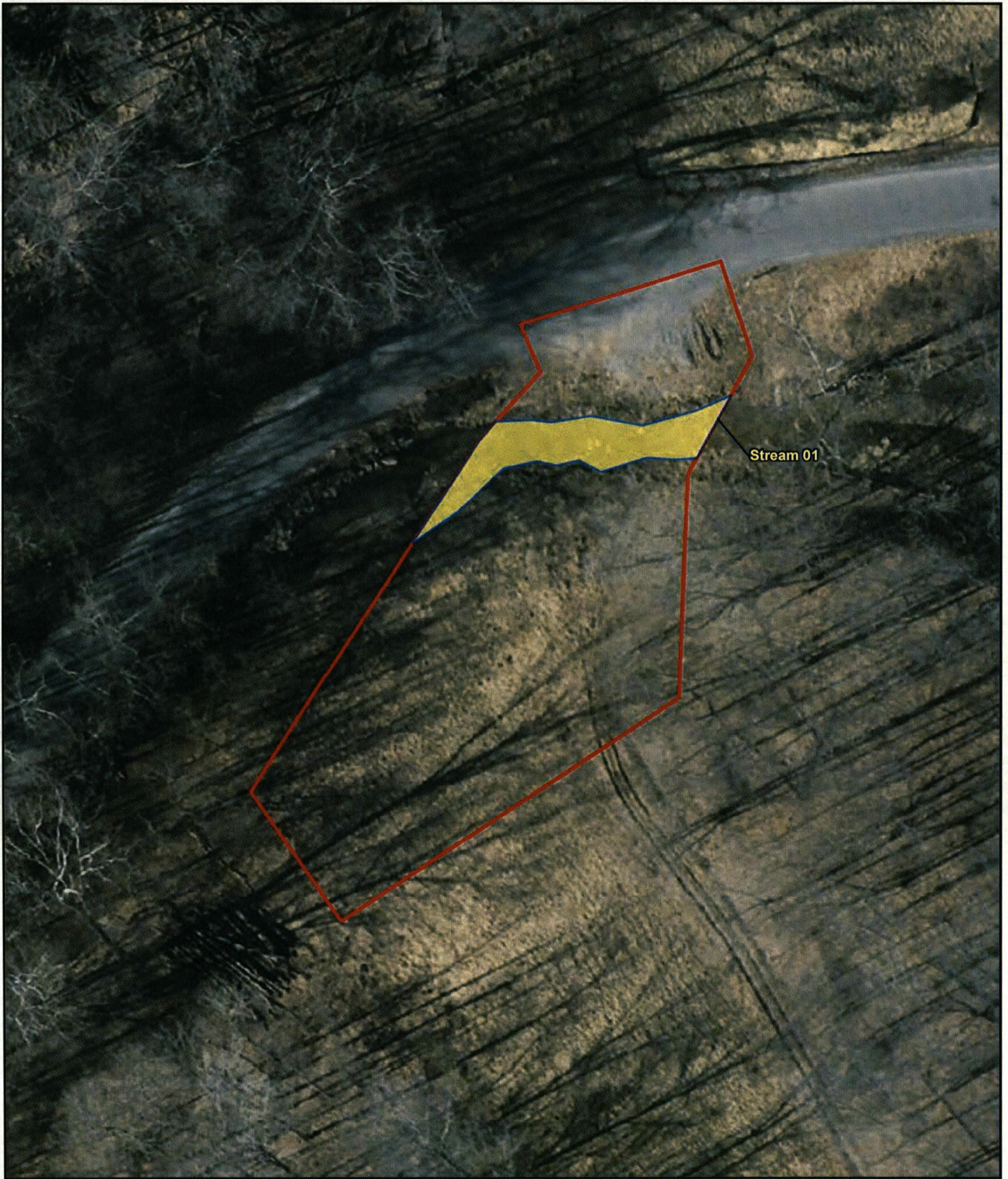
USGS TOPOGRAPHIC MAP
 WEST UNION AND SMITHBURG QUADRANGLES
 DODDRIDGE COUNTY, WEST VIRGINIA

- Area of Investigation (AOI)
- USGS Quadrangle Boundary
- County Boundary

 	Background:	USGS 7.5' Topographic Map
	Scale:	1:59,945
	Created By:	EWS
	Approved By:	NS
	SWCA Project No.:	024623.06
	Date Produced:	May 08, 2019
NAD 1983 UTM Zone 17N		

RESOURCE MAPPING

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Stream 01



**H527 PIPELINE
MAINTENANCE PROJECT - SITE 1**

80 Emerson Lane, Suite 1306
Bridgeville, PA 15017
(412) 839-1001 phone
(412) 839-1005 fax
www.swca.com

IMPACT MAPPING FOR JURISDICTIONAL WATERS
DODDRIDGE COUNTY, WEST VIRGINIA



Impacted Perennial
Stream Area

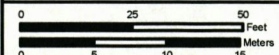


Limits of Disturbance
(LOD)

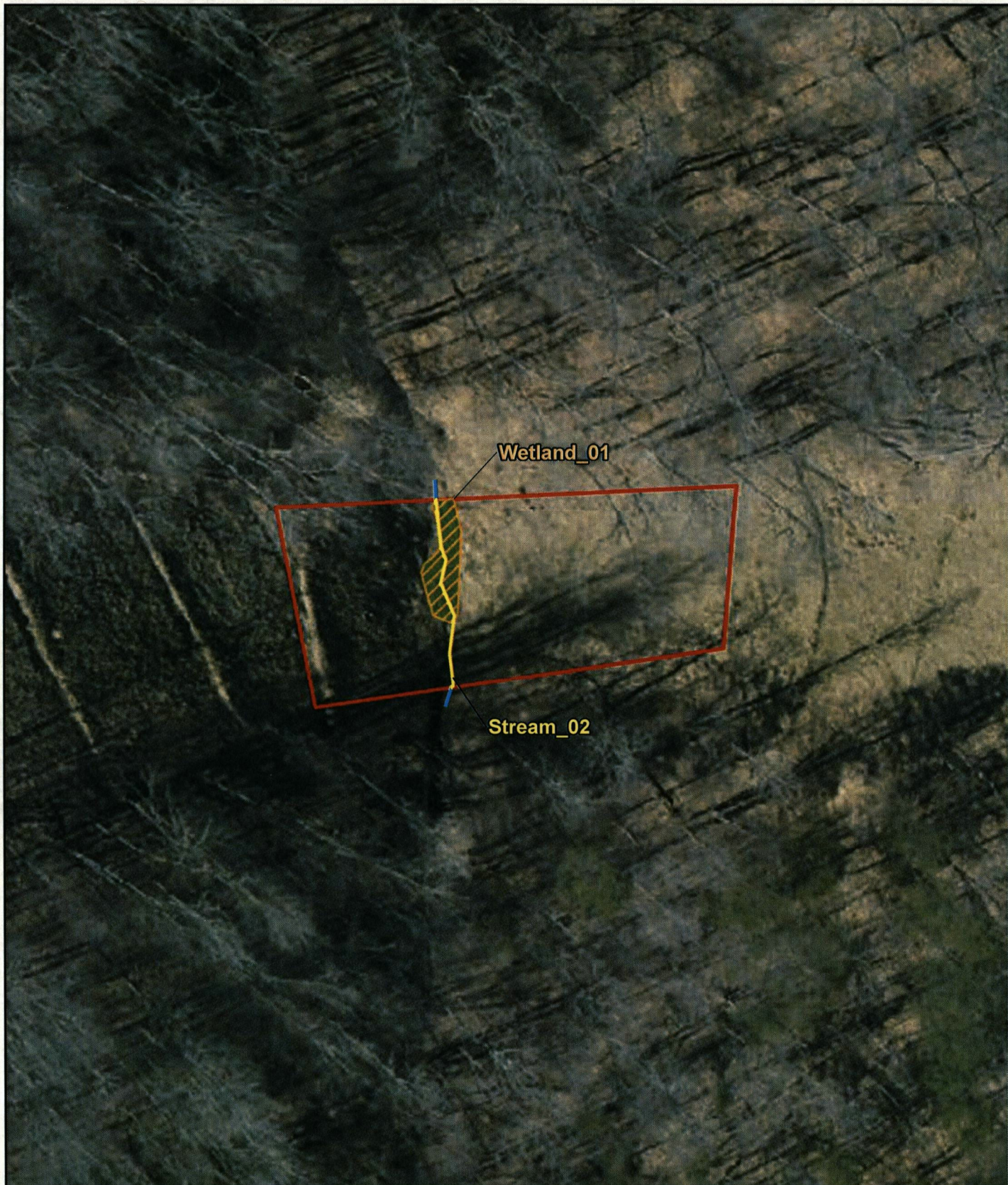


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Scale:	1:500
Created By:	JLZ
Approved By:	NS
SWCA Project No.:	024623.06
Date Produced:	June 11, 2019

NAD 1983 2011 StatePlane West Virginia North FIPS 4701 FTUS







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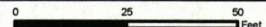
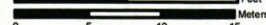


**H527 PIPELINE
MAINTENANCE PROJECT - SITE 2**

IMPACT MAPPING FOR JURISDICTIONAL WATERS
DODDRIDGE COUNTY, WEST VIRGINIA

80 Emerson Lane, Suite 1306
Bridgeville, PA 15017
(412) 839-1001 phone
(412) 839-1005 fax
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-  Impacted Intermittent Stream
-  Intermittent Stream
-  Impacted wetland
-  Limits of Disturbance (LOD)

	Background:	WV Leaf-Off Imagery
	Scale:	1:500
	Created By:	JLZ
	Approved By:	NS
	SWCA Project No.:	024623.06
Date Produced:	June 11, 2019	
NAD 1983 2011 StatePlane West Virginia North FIPS 4701 PTUS		
 Feet  Meters		





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 Bridgeville, PA 15017
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H527 PIPELINE MAINTENANCE PROJECT - SITE 3

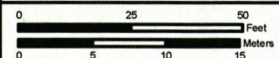
IMPACT MAPPING FOR JURISDICTIONAL WATERS
 DODDRIDGE COUNTY, WEST VIRGINIA

-  Impacted Intermittent Stream
-  Intermittent Stream
-  Impacted wetland
-  Limits of Disturbance (LOD)

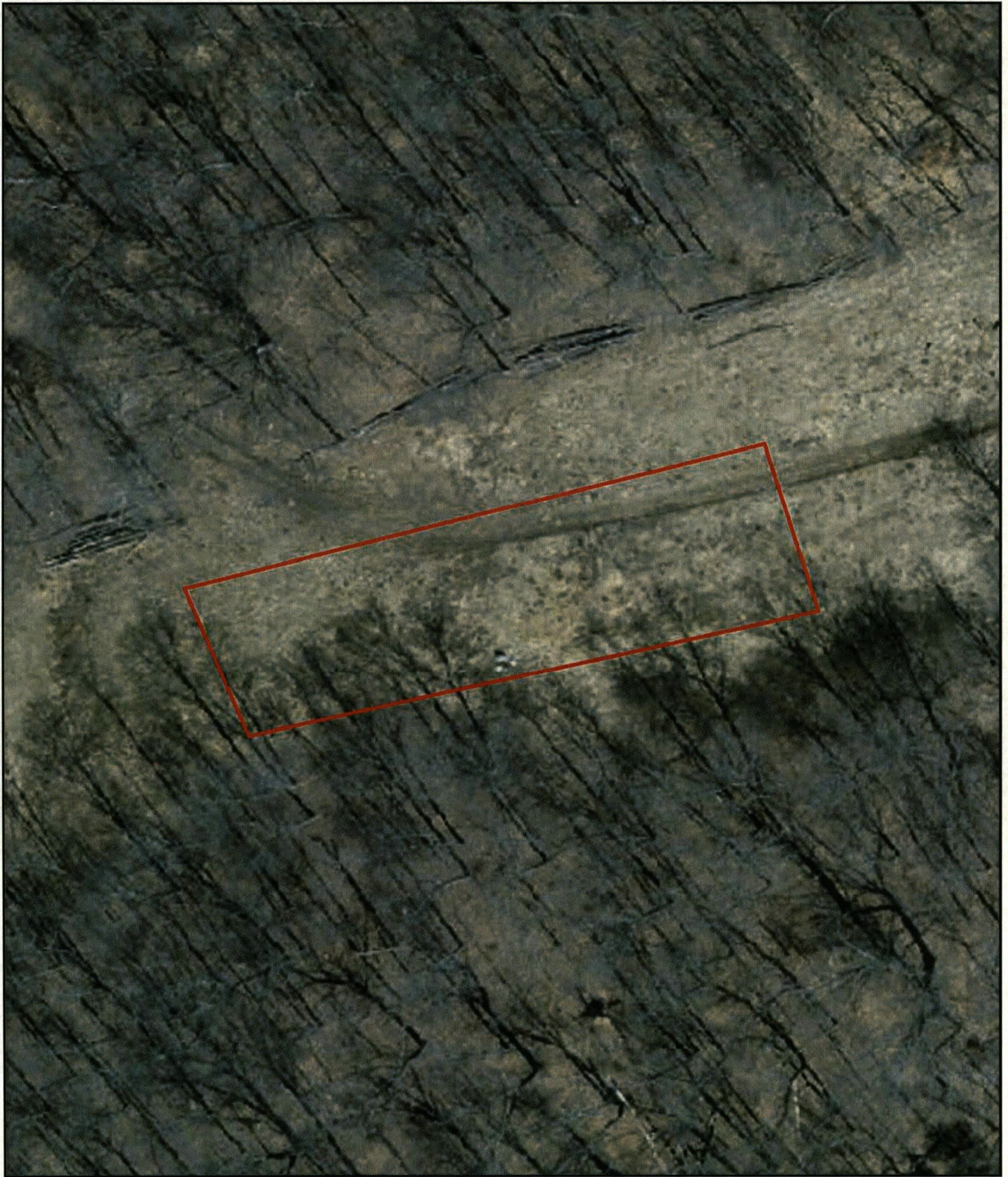


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Date Produced:	June 11, 2019

NAD 1983 2011 StatePlane West Virginia North FIPS 4701 FTUS



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H527 PIPELINE MAINTENANCE PROJECT - SITE 4

IMPACT MAPPING FOR JURISDICTIONAL WATERS
DODDRIDGE COUNTY, WEST VIRGINIA

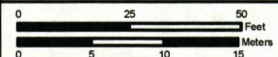


Limits of Disturbance
(LOD)

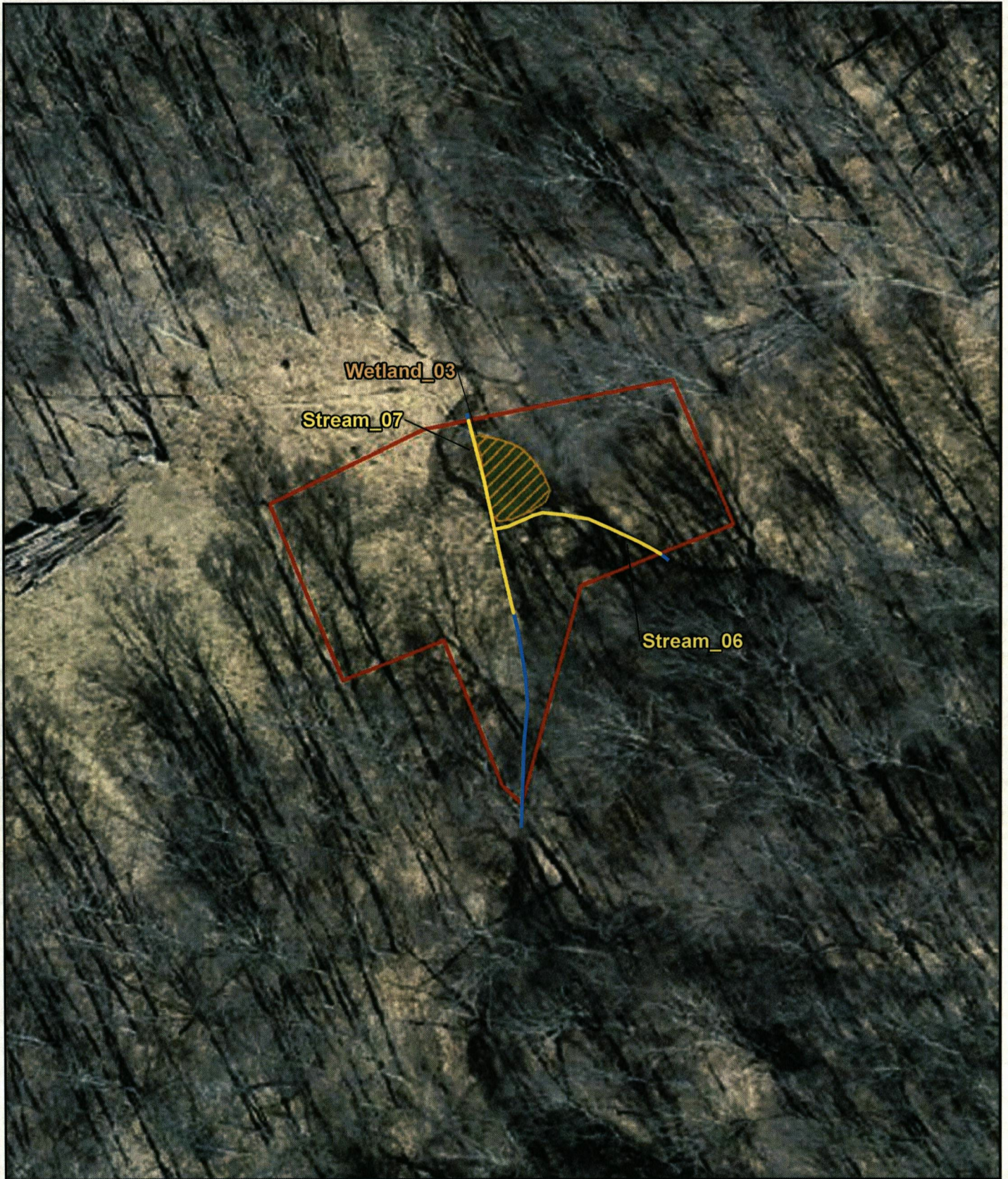


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Scale:	1:500
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Approved By:	NS
SWCA Project No.:	024623.06
Date Produced:	June 11, 2019

NAD 1983 2011 StatePlane West Virginia North FIPS 4701 RUS







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H527 PIPELINE MAINTENANCE PROJECT - SITE 5

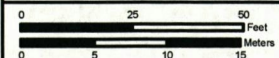
IMPACT MAPPING FOR JURISDICTIONAL WATERS
DODDRIDGE COUNTY, WEST VIRGINIA

-  Impacted Intermittent Stream
-  Intermittent Stream
-  Impacted wetland
-  Limits of Disturbance (LOD)



Background:	WV Leaf-Off Imagery
Scale:	1:500
Created By:	JLZ
Approved By:	NS
SWCA Project No.:	024623.06
Date Produced:	June 11, 2019

NAD 1983 2011 StatePlane West Virginia North FIPS 4701 PRUS



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**H527 PIPELINE
 MAINTENANCE PROJECT - SITE 6**

IMPACT MAPPING FOR JURISDICTIONAL WATERS
 DODDRIDGE COUNTY, WEST VIRGINIA

- Impacted Intermittent Stream
- Intermittent Stream
- Limits of Disturbance (LOD)

	Background:	WV Leaf-Off Imagery
	Scale:	1:500
	Created By:	JLZ
	Approved By:	NS
	SWCA Project No.:	024623_06
Date Produced:	June 11, 2019	
<small>NAD 1983 2011 StatePlane West Virginia North FIPS 4701 RUS</small>		

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 (412) 839-1005 fax
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**H527 PIPELINE
 MAINTENANCE PROJECT - SITE 7**

IMPACT MAPPING FOR JURISDICTIONAL WATERS
 DODDRIDGE COUNTY, WEST VIRGINIA

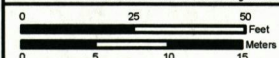


Limits of Disturbance
 (LOD)



Background:	WV Leaf-Off Imagery
Scale:	1:500
Created By:	JLZ
Approved By:	NS
SWCA Project No.:	024623.06
Date Produced:	June 11, 2019

NAD 1983 2011 StatePlane West Virginia North FIPS 4701 FUS



EROSION AND SEDIMENT CONTROLS

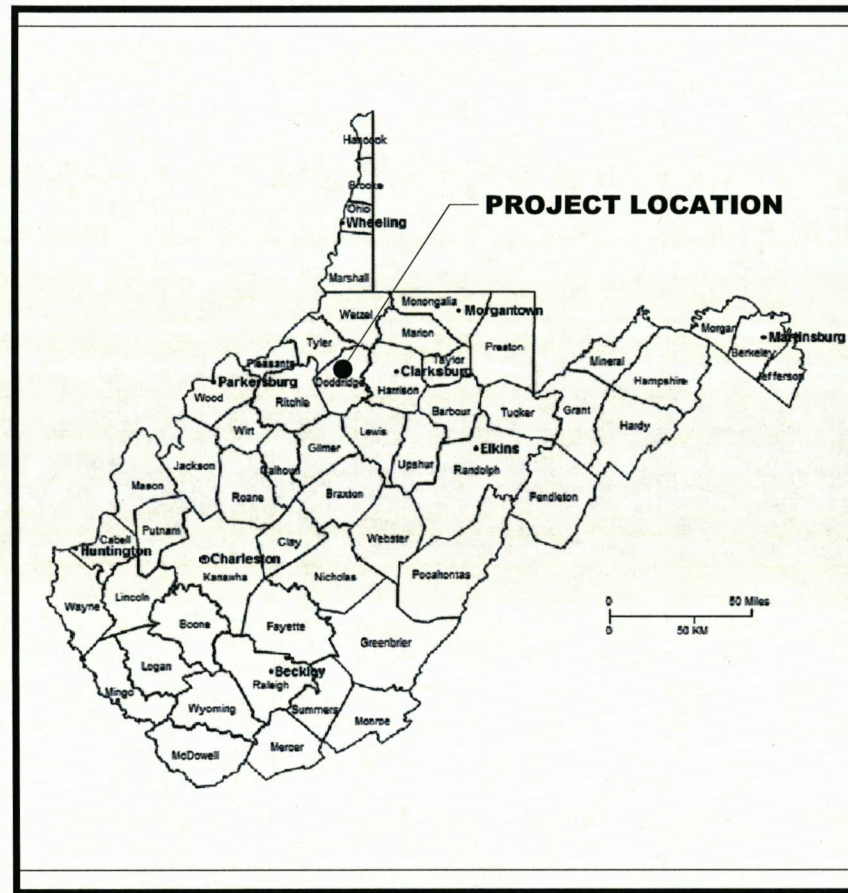
EQUITRANS, L.P.

H-527 PIPELINE PIGGABILITY MAINTENANCE

STORMWATER POLLUTION PREVENTION PLAN

DODDRIDGE COUNTY, WEST VIRGINIA

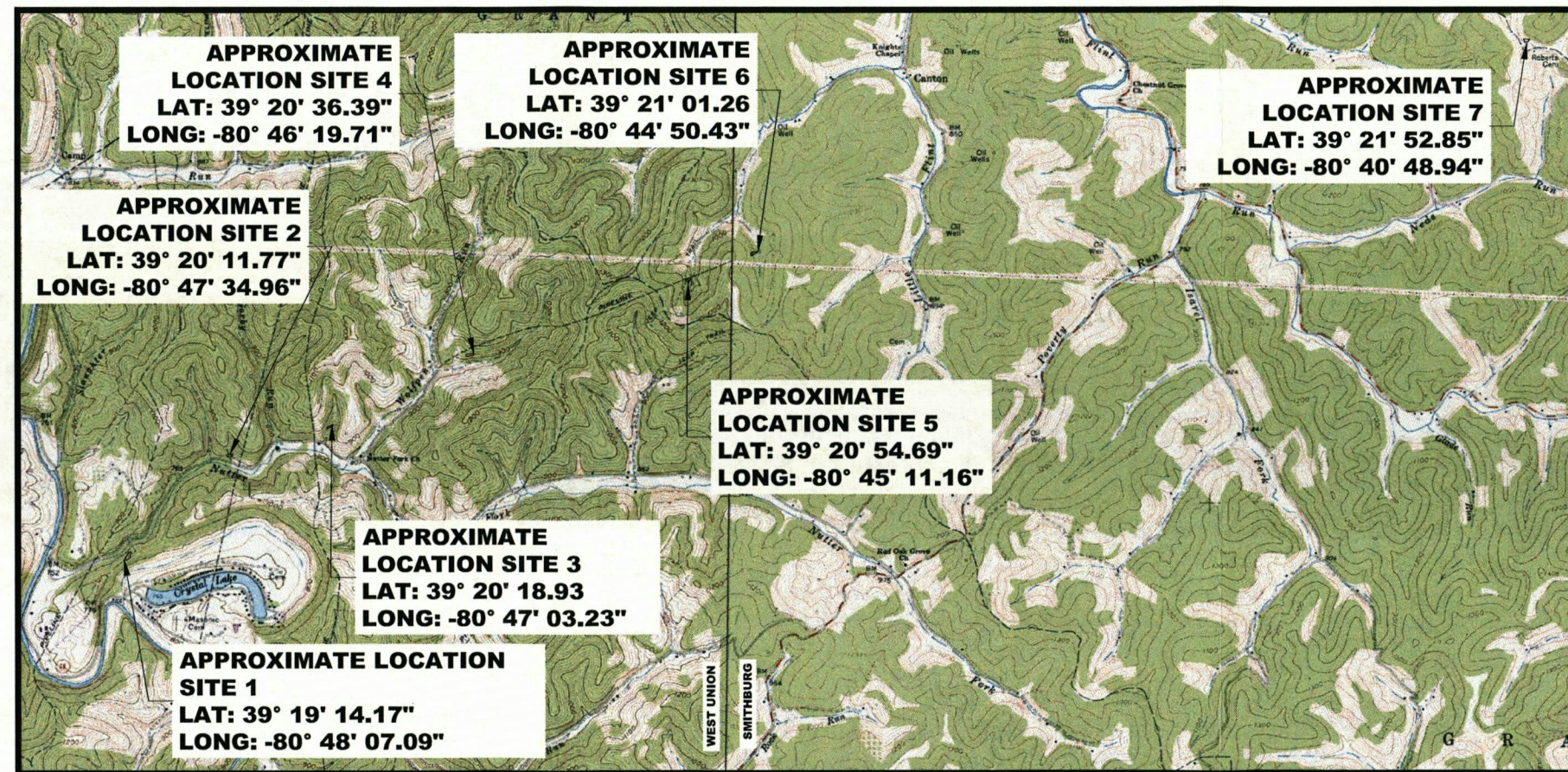
JUNE 2019



VICINITY MAP

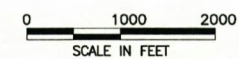
DRAWING INDEX

No.	DRAWING TITLE
0.01	COVER SHEET
0.02	STORMWATER POLLUTION PREVENTION GENERAL NOTES
1.00	KEY PLAN
1.01	STORMWATER POLLUTION PREVENTION PLAN (SITE 1)
1.02	STORMWATER POLLUTION PREVENTION PLAN (SITE 2)
1.03	STORMWATER POLLUTION PREVENTION PLAN (SITE 3)
1.04	STORMWATER POLLUTION PREVENTION PLAN (SITE 4)
1.05	STORMWATER POLLUTION PREVENTION PLAN (SITE 5)
1.06	STORMWATER POLLUTION PREVENTION PLAN (SITE 6)
1.07	STORMWATER POLLUTION PREVENTION PLAN (SITE 7)
1.08	STORMWATER POLLUTION PREVENTION DETAILS
1.09	STORMWATER POLLUTION PREVENTION DETAILS
1.10	STORMWATER POLLUTION PREVENTION DETAILS
1.11	STORMWATER POLLUTION PREVENTION DETAILS
1.12	STORMWATER POLLUTION PREVENTION DETAILS



REFERENCE: WEST UNION & SMITHBURG, WV USGS 7.5' QUADRANGLE

LOCATION MAP



REVISION LOG			
MARK	DATE	DESCRIPTION	BY

NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

H-527 PIPELINE MAINTENANCE PROJECT
 COVER SHEET
 WEST UNION, WV
 DODDRIDGE CO.
EQUITRANS, L.P.
 2200 ENERGY DRIVE
 CANONSBURG, PENNSYLVANIA 15317

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

DRAWN BY: GATEWAY
 CHECKED BY: JAB
 APPROVED BY: MEB
 DATE: 6/17/2019
 SCALE: AS SHOWN
 SHT. NO. 0.01

REVISIONS:

STORMWATER POLLUTION PREVENTION NOTES:

- ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS, SHALL BE DONE IN ACCORDANCE WITH THE APPROVED SWPP PLAN. A COPY OF THE APPROVED DRAWINGS MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, THE OWNER AND/OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, AND THE SWPP PLAN PREPARER TO AN ON-SITE PRECONSTRUCTION MEETING.
- THE LOCATION OF EXISTING UTILITIES AND UNDERGROUND STRUCTURES SHOWN ARE APPROXIMATE AND THOSE SHOWN ARE NOT NECESSARILY ALL THE EXISTING UTILITIES AND STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF ALL ABOVE AND BELOW GROUND UTILITIES AND STRUCTURES PRIOR TO INITIATING CONSTRUCTION ACTIVITIES.
- ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM THE LOCAL CONSERVATION DISTRICT OR BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
- AREAS TO BE FILLED ARE TO BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL.
- CLEARING, GRUBBING, AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE SWPP BMPS SPECIFIED BY THE BMP SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS SWPP PLAN.
- AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN MAPS. THESE AREAS MUST BE CLEARLY MARKED AND FENCED OFF BEFORE CLEARING AND GRUBBING OPERATIONS BEGIN.
- TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED AT THE LOCATION(S) SHOWN ON THE PLAN MAP(S) IN THE AMOUNT NECESSARY TO COMPLETE THE FINISH GRADING OF ALL EXPOSED AREAS THAT ARE TO BE STABILIZED BY VEGETATION. EACH STOCKPILE SHALL BE PROTECTED IN THE MANNER SHOWN ON THE PLAN DRAWINGS. STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SLOPES SHALL BE 2H:1V OR FLATTER.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE LOCAL CONSERVATION DISTRICT AND/OR THE REGIONAL OFFICE OF THE DEPARTMENT.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL.
- ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
- UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPs SHALL BE MAINTAINED PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPs AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRAVING, RESEEDING, REMULCHING AND REMETTING MUST BE PERFORMED IMMEDIATELY. IF THE SWPP BMPs FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPs, OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
- A LOG SHOWING DATES THAT SWPP BMPs WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO THE OWNER AT THE TIME OF INSPECTION.
- SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED, OR SWEEP INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- ALL SEDIMENT REMOVED FROM BMPs SHALL BE SPREAD EVENLY ACROSS SITE EXCLUDING STREAM OR WETLAND AREAS.
- AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 TO 5 INCHES -- 6 TO 12 INCHES ON COMPACTED SOILS -- PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL.
- ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
- ALL EARTHEN FILLS SHALL BE PLACED IN COMPACTED LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
- FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
- FROZEN MATERIALS OR SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
- FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED. SEEDING AREAS WITHIN 50 FEET OF A SURFACE WATER, AREAS WITH A SLOPE EXCEEDING 3H:1V, OR AS OTHERWISE SHOWN ON THE PLAN DRAWINGS, SHALL BE BLANKETED ACCORDING TO THE STANDARDS OF THIS PLAN.
- IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUBAREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE WHICH WILL BE REACTIVATED WITHIN 1 YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN 1 YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
- PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.
- SWPP BMPs SHALL REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR THE DEPARTMENT.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND/OR OPERATOR SHALL CONTACT THE OWNER FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF THE SWPP BMPs.
- AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY EROSION AND SEDIMENT BMPs MUST BE REMOVED OR CONVERTED TO PERMANENT POST CONSTRUCTION STORMWATER MANAGEMENT BMPs. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPs SHALL BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL/CONVERSIONS ARE TO BE DONE ONLY DURING THE GERMINATING SEASON.
- FAILURE TO CORRECTLY INSTALL SWPP BMPs, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF SWPP BMPs MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE DEPARTMENT.
- THE CONTRACTOR SHALL LANDSCAPE OR VEGETATE DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 4 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, STRAW MULCH SHALL BE APPLIED AT A RATE OF THREE (3) TONS PER ACRE OVERTOP EXPOSED AREAS.
- THE CONTRACTOR SHALL CONSTRUCT A BERM AROUND AREAS WHERE HYDRAULIC FLUID AND DIESEL FUEL WILL BE STORED DURING CONSTRUCTION TO SERVE AS A CONTAINMENT AREA FOR THE CONTROL OF POSSIBLE SPILLS. ANY SPILL WITHIN THE CONTAINMENT AREA SHALL BE IMMEDIATELY CLEANED. TELEPHONE NUMBERS OF EMERGENCY RESPONSE TEAMS ARE TO BE KEPT ON SITE, AND THEY ARE TO BE NOTIFIED IN THE CASE OF A SPILL.
- THE CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
- ANY AREA DISTURBED DURING THE REPAIR, MAINTENANCE, OR REMOVAL OF BMPs SHALL BE IMMEDIATELY RESTORED AND STABILIZED USING SEED AND MULCH.
- AN INSPECTION OF SWPP ACTIVITIES SHALL OCCUR ON A WEEKLY BASIS AND AFTER EVERY RAINFALL EVENT. INSPECTOR SHALL USE THE STANDARD INSPECTION FORM AND KEEP WRITTEN DOCUMENTATION OF ALL INSPECTIONS AND REPAIRS.
- THERMAL IMPACTS WILL BE MITIGATED BY ALLOWING RUNOFF TO SHEET FLOW OVER AREAS OF EXISTING, WELL ESTABLISHED VEGETATION PRIOR TO ENTERING ANY SURFACE WATERS. THIS PRACTICE PROMOTES INFILTRATION WHICH NATURALLY REMOVES ANY THERMAL INCREASE. RUNOFF MAY EXPERIENCE ADDITIONAL COOLING AS IT PASSES THROUGH THE EXISTING VEGETATION. WHERE PRACTICABLE TO AVOID UNNECESSARY TREE CLEARING, TREE CLEARING SHALL ALLOWING THE EXISTING TREE CANOPY TO PROVIDE THE MAXIMUM AMOUNT OF SHADE POSSIBLE FURTHER COOLING RUNOFF. LASTLY, ALL DISTURBED AREAS COMPRISED OF VEGETATION WILL BE RESTORED TO "MEADOW IN GOOD CONDITION" THUS SLOWING DOWN THE FLOW OF RUNOFF AND FURTHER PROMOTING INFILTRATION.

CONSTRUCTION WASTE RECYCLING/ DISPOSAL:

- MAINTENANCE: CONSTRUCTION WASTES ARE REFUSE MATERIALS GENERATED DURING THE COURSE OF CONSTRUCTION AND INCLUDE, BUT ARE NOT LIMITED TO, PAPER, PLASTIC, WOOD, FOOD, TEXTILE, AND METAL PRODUCTS.
- INSTALLATION: THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING WASTE RECYCLING/DISPOSAL AREAS ON THE SWPP PLAN ONCE THEY HAVE BEEN DETERMINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL WASTE RECYCLING/DISPOSAL PERMITS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

REFERENCE:

- EXISTING TOPOGRAPHY AND AERIAL PHOTOGRAPHY INFORMATION OBTAINED FROM PUBLICLY AVAILABLE LIDAR INFORMATION.
- PIPELINE ALIGNMENT, BORE PIT LOCATIONS, ACCESS ROAD LOCATIONS, AND ASSOCIATED PROPOSED SITE FEATURES PROVIDED BY EQUITRANS, L.P.
- FOREIGN UTILITIES PROVIDED BY EQUITRANS, L.P.
- ORIGINAL PLAN SHEETS ARE SIZE 22" X 34" AND PRINTED IN COLOR. PLAN SHEETS NOT SIZED OR PRINTED AS SUCH MAY NOT DISPLAY INFORMATION ACCURATELY.

GENERAL NOTES:

- THIS PLAN IS FOR STORMWATER POLLUTION PREVENTION PURPOSES ONLY. ALL ENVIRONMENTAL IMPACTS ARE TO BE PERMITTED BY OTHERS AND APPROVED BY THE DEPARTMENT PRIOR TO BEGINNING ANY DISTURBANCE.
- EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COMPLYING WITH APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTORS TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
- THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND OWNER'S REPRESENTATIVE FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES OCCURRING IN THE COURSE OF THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT.

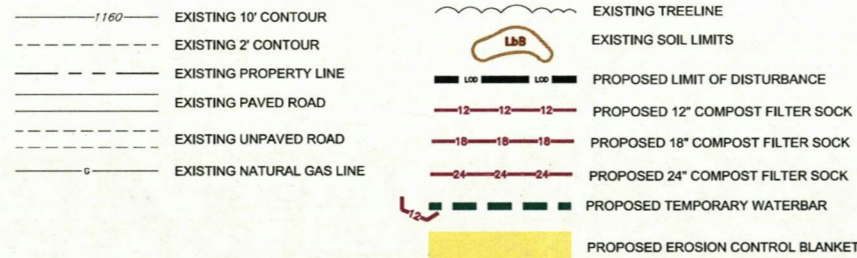
CLEAN FILL REQUIREMENTS:

- IF THE SITE WILL NEED TO HAVE FILL IMPORTED FROM AN OFF SITE LOCATION, THE RESPONSIBILITY FOR PERFORMING ENVIRONMENTAL DUE DILIGENCE AND THE DETERMINATION OF CLEAN FILL IS THE RESPONSIBILITY OF THE OPERATOR AND THE CONTRACTOR. THE OPERATOR AND THE CONTRACTOR ARE TO ADHERE TO THE DEP'S DEFINITIONS OF CLEAN FILL AND ENVIRONMENTAL DUE DILIGENCE. THE OPERATOR AND CONTRACTOR SHOULD ALERT THE ENGINEER OF THIS PROCESS AND THE FILL REQUIREMENTS.
- IF THE SITE WILL HAVE EXCESS FILL THAT WILL NEED TO BE EXPORTED TO AN OFF SITE LOCATION, THE OPERATOR AND THE CONTRACTOR WILL PERFORM CLEAN FILL DETERMINATION AND ENVIRONMENTAL DUE DILIGENCE IN ACCORDANCE TO DEP REGULATIONS. THIS INFORMATION SHOULD BE COMPLETED PRIOR TO CONSTRUCTION. THE OPERATOR AND CONTRACTOR SHOULD ALERT THE ENGINEER OF THIS PROCESS AND THE FILL REQUIREMENTS.
- IF ALL CUT AND FILL MATERIALS WILL BE USED ON THE SITE, A CLEAN FILL DETERMINATION IS NOT REQUIRED BY THE OPERATOR UNLESS THERE IS A BELIEF THAT A SPILL OR RELEASE OF REGULATED SUBSTANCE OCCURRED ON SITE.

SITE RESTORATION:

SITE RESTORATION SHALL COMMENCE PROMPTLY AFTER COMPLETION OF THE PIPELINE CONSTRUCTION. FOR SITE RESTORATION, ALL DISTURBED AREAS SHALL BE SEED, MULCHED, AND FERTILIZED IN ACCORDANCE WITH DEP REQUIREMENTS AND SHOWN IN THIS PLAN SET. AREAS DISTURBED DURING CONSTRUCTION SHOULD BE RESTORED TO A "MEADOW IN GOOD CONDITION". UPON THE SITE REACHING 70% VEGETATIVE STABILIZATION, ALL TEMPORARY CONTROLS SHALL BE REMOVED AND ANY DISTURBANCE ASSOCIATED WITH BEST MANAGEMENT PRACTICES REMOVED SHALL BE IMMEDIATELY RESTORED AND STABILIZED. NO PERMANENT GRAVEL OR OTHERWISE IMPERVIOUS MATERIAL IS PROPOSED FOR THIS PROJECT.

LEGEND



PROJECT INFORMATION	
DEVELOPER	EQUITRANS, L.P. 2200 ENERGY DRIVE CANONSBURG, PA 15317 724.271.7600
ENGINEER	MATTHEW BAGALEY, PE THE GATEWAY ENGINEERS, INC. 100 MCMORRIS ROAD PITTSBURGH, PA 15205 412.921.4039 MBAGALEY@GATEWAYENGINEERS.COM
LIMITS OF DISTURBANCE	1.52 ACRES

CONSTRUCTION SEQUENCE

A GENERALIZED CONSTRUCTION SEQUENCE IS PROVIDED BELOW FOR THE H-527 PIPELINE PIGGABILITY MAINTENANCE PROJECT. THE CONSTRUCTION SEQUENCE IS INTENDED TO PROVIDE A GENERAL COURSE OF ACTION IN ORDER TO CONFORM TO THE APPLICABLE REGULATORY AGENCY REQUIREMENTS FOR TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENT POLLUTION CONTROL. ALL NECESSARY PARTS FOR PROPER AND COMPLETE EXECUTION OF WORK PERTAINING TO THIS PLAN, WHETHER SPECIFICALLY MENTIONED OR NOT, ARE TO BE PERFORMED BY THE CONTRACTOR. IT IS NOT INTENDED THAT THE DRAWINGS AND THIS REPORT SHOW EVERY DETAILED PIECE OF MATERIAL OR EQUIPMENT. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS LISTED IN THIS SECTION. THE CONTRACTOR MAY BE REQUIRED TO ALTER CONTROLS BASED ON EFFECTIVENESS OF CONTROLS OR DEFERRING CONDITIONS ENCOUNTERED.

- NOTE: UPON COMPLETION OF AN EARTH DISTURBANCE ACTIVITY OR ANY STAGE OR PHASE OF AN ACTIVITY, THE SITE SHALL BE IMMEDIATELY STABILIZED OR OTHERWISE PROTECTED FROM ACCELERATED EROSION AND DISCHARGE OF SEDIMENT. ALL DISTURBED AREAS WHICH ARE AT FINAL GRADE AND WILL NOT BE FURTHER DISTURBED SHALL BE SEED PER THE PERMANENT SEEDING SPECIFICATIONS. DISTURBED AREAS LEFT IDLE FOR MORE THAN 4 DAYS SHOULD BE TEMPORARILY SEEDED AND MULCHED.
- STAKE OUT LIMIT OF DISTURBANCE FOR GRADING OPERATIONS FOR MAINTENANCE PROJECT. IN ADDITION, EROSION CONTROL DEVICES SUCH AS ORANGE CONSTRUCTION FENCE SHALL BE PLACED AROUND ANY AND ALL ENVIRONMENTAL FEATURES TO BE PROTECTED ON THE SITE.
 - INSTALL THE STONE CONSTRUCTION ENTRANCES AS INDICATED ON THE PLANS ACCORDING TO THE DETAIL PROVIDED.
 - INSTALL ALL SEGMENTS OF SILT FENCE, SILT SOCK, SUMP FILTERS, TEMPORARY DIVERSION BERMS, AND WATERBARS AS SHOWN ON THE PLAN, BELOW AREAS OF PROPOSED DISTURBANCE PRIOR TO PROPOSED PLUG AND ABANDONMENT.
 - BEHIND MAINTENANCE PROJECT FOLLOWING THE PROCEDURES FOR UTILITY LINE INSTALLATION REQUIREMENTS AND DETAIL PROVIDED FOR EROSION CONTROL MEASURES FOR UTILITY TRENCHES.
 - WATER WHICH ACCUMULATES IN THE OPEN TRENCH WILL BE COMPLETELY REMOVED BY PUMPING INTO A SILT BAG, PRIOR TO BACKFILLING OPERATIONS.
 - EVERY ATTEMPT SHALL BE MADE TO GRADE TO FINAL CONTOURS, INSTALL APPROPRIATE TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES/FACILITIES AND APPLY SEED AND MULCH AT ALL DISTURBED AREAS BY THE END OF EACH WEEK FOLLOWING PIPE PLACEMENT AND BACKFILL OF THE TRENCH.
 - IN CERTAIN CASES TRENCHES CANNOT BE BACKFILLED UNTIL THE PIPE IS HYDROSTATICALLY TESTED, OR ANCHORS AND OTHER PERMANENT FEATURES ARE INSTALLED.
 - THE MAXIMUM TOTAL TIME TO EXCAVATE, REPLACE THE WELL HEAD, BACKFILL, AND BEGIN STABILIZATION OF DISTURBED AREA SHALL GENERALLY NOT EXCEED 30 DAYS.
 - ONCE FINAL SLOPES AND GRADES ARE ACHIEVED, SEED AND MULCH FOR STABILIZATION TO PROMOTE EARLY STABILIZATION OF ALL SURROUNDING DISTURBED AREAS. A TRAVEL LANE MAY REMAIN OPEN TO ALLOW FOR THE MOVEMENT OF EQUIPMENT THROUGH THE SITE.
 - REPLACE TOPSOIL, SEED AND MULCH ALL DISTURBED AREAS, USING THE SPECIFIED SEEDING REQUIREMENTS FOUND ON THE DETAILED PLAN. ALL DISTURBED AREAS MUST BE TEMPORARILY STABILIZED IF REMAINING IDLE, OR ANTICIPATED TO REMAIN IDLE. IN THE ABSENCE OF A SOIL TEST, LIME SHOULD BE ADDED AT A RATE OF 275 LBS / 1000 S.F. LIKEWISE, THE FERTILIZER RATES SHOULD BE INCREASED TO 500 LBS/AC. OF 10-10-10 FOR TEMPORARY STABILIZATION AND 1000 LBS/AC. OF 10-20-20 FOR PERMANENT STABILIZATION.
 - RESEED ALL DISTURBED AREAS IF VEGETATION IS NOT ESTABLISHED DURING THE GROWING SEASON.
 - REMOVE ALL SILT FENCES, SILT SOCK, AND SUMP FILTERS FOLLOWING COMPLETION OF THE ABOVE STEPS AND AFTER THE SITE HAS A UNIFORM 70% PERENNIAL VEGETATIVE COVER ON UNPAVED AREAS.

TEMPORARY & PERMANENT EROSION & SEDIMENT CONTROLS INSPECTION & MAINTENANCE SCHEDULE

BMP	INSPECTION FREQUENCY	MAINTENANCE TO BE PERFORMED
SILT FENCE	WEEKLY AND AFTER RUNOFF EVENTS	SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVEGROUND HEIGHT OF THE FENCE. ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET. SILT FENCE SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. REPAIRS SHALL BE INITIATED IMMEDIATELY AFTER THE INSPECTION
ROCK CONSTRUCTION ENTRANCE	DAILY	CONTRACTOR SHALL MAINTAIN/REPLACE MATERIAL AS NEEDED THROUGHOUT CONSTRUCTION TO MAINTAIN MINIMUM THICKNESS DURING USE OF ACCESS ROAD. A STOCKPILE OF ROCK WILL BE MAINTAINED ON SITE FOR THIS PURPOSE
MULCH STABILIZATION	WEEKLY AND AFTER RUNOFF EVENTS	REPLACE MULCH AS REQUIRED. RESTORE SEEDING IN AFFECTED AREA IF NECESSARY.
CULVERTS	WEEKLY AND AFTER RUNOFF EVENTS	DURING CONSTRUCTION AND EROSION AND SEDIMENT CONTROL MONITORING, INSPECT CULVERTS WEEKLY AND AFTER EVERY RUNOFF EVENT AND REMOVE ANY FLOW OBSTRUCTIONS AND MAKE NECESSARY REPAIRS IMMEDIATELY.
RIPRAP APRONS	WEEKLY AND AFTER RUNOFF EVENTS	ALL APRONS SHALL BE INSPECTED WEEKLY AND AFTER EVERY RUNOFF EVENT. DISPLACED RIPRAP WITHIN THE APRON SHALL BE REPLACED IMMEDIATELY.
EROSION CONTROL BLANKET	WEEKLY AND AFTER RUNOFF EVENTS	CHECK THAT OVERLAP OF ADJACENT SECTIONS OF EROSION CONTROL BLANKET IS MAINTAINED. REPLACE STAPLES, STAPLES AND DAMAGED SECTIONS OF EROSION CONTROL BLANKET AS NEEDED.
ROADSIDE DITCH	WEEKLY AND AFTER RUNOFF EVENTS	REMOVE ACCUMULATED SEDIMENT. REPLACE DISPLACED RIPRAP AS NEEDED
COMPOST FILTER SOCK	WEEKLY AND AFTER RUNOFF EVENTS	MAINTENANCE SHALL BE PERFORMED AS NEEDED. SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE HALF THE ORIGINAL HEIGHT OF THE BARRIER. COMPOST FILTER SOCK SHALL BE REPLACED WHENEVER IT HAS DETEIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF COMPOST FILTER SOCK IS REDUCED. COMPOST FILTER SOCKS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATION AT THE COMPOST FILTER SOCK SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE COMPOST FILTER SOCK IS REMOVED.
WATERBARS	WEEKLY AND AFTER RUNOFF EVENTS	WATERBARS SHALL BE INSPECTED WEEKLY (DAILY ON ACTIVE ROADS) AND AFTER EACH RUNOFF EVENT. DAMAGED OR ERODED WATERBARS SHALL BE RESTORED TO ORIGINAL DIMENSIONS WITHIN 24 HOURS OF INSPECTION.
PUMPED WATER FILTER BAGS	DAILY	FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL OF SEDIMENT. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.
WATER DEFLECTOR	WEEKLY AND AFTER RUNOFF EVENTS	ACCUMULATED SEDIMENT SHALL BE REMOVED FROM DEFLECTOR WITHIN 24 HOURS OF INSPECTION. BELT SHALL BE REPLACED WHEN WORN AND NO LONGER EFFECTIVE.

NOTE:

A WRITTEN REPORT IS REQUIRED FOR EACH INSPECTION AND REPAIR OR MAINTENANCE ACTIVITY. EQUITRANS, L.P. IS RESPONSIBLE FOR MAINTAINING RECORDS OF THESE REPORTS AND MAINTAINING THE PROJECT AREA IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. IF SWPP BMPs ARE FOUND TO BE INOPERATIVE OR INEFFECTIVE DURING AN INSPECTION, THE LOCAL CONSERVATION DISTRICT AND/OR REGIONAL OFFICE OF THE DEPARTMENT SHOULD BE CONTACTED WITHIN 24 HOURS.

H-527 PIPELINE MAINTENANCE PROJECT

STORMWATER POLLUTION PREVENTION GENERAL NOTES
WEST UNION, WV
DODDRIDGE CO.

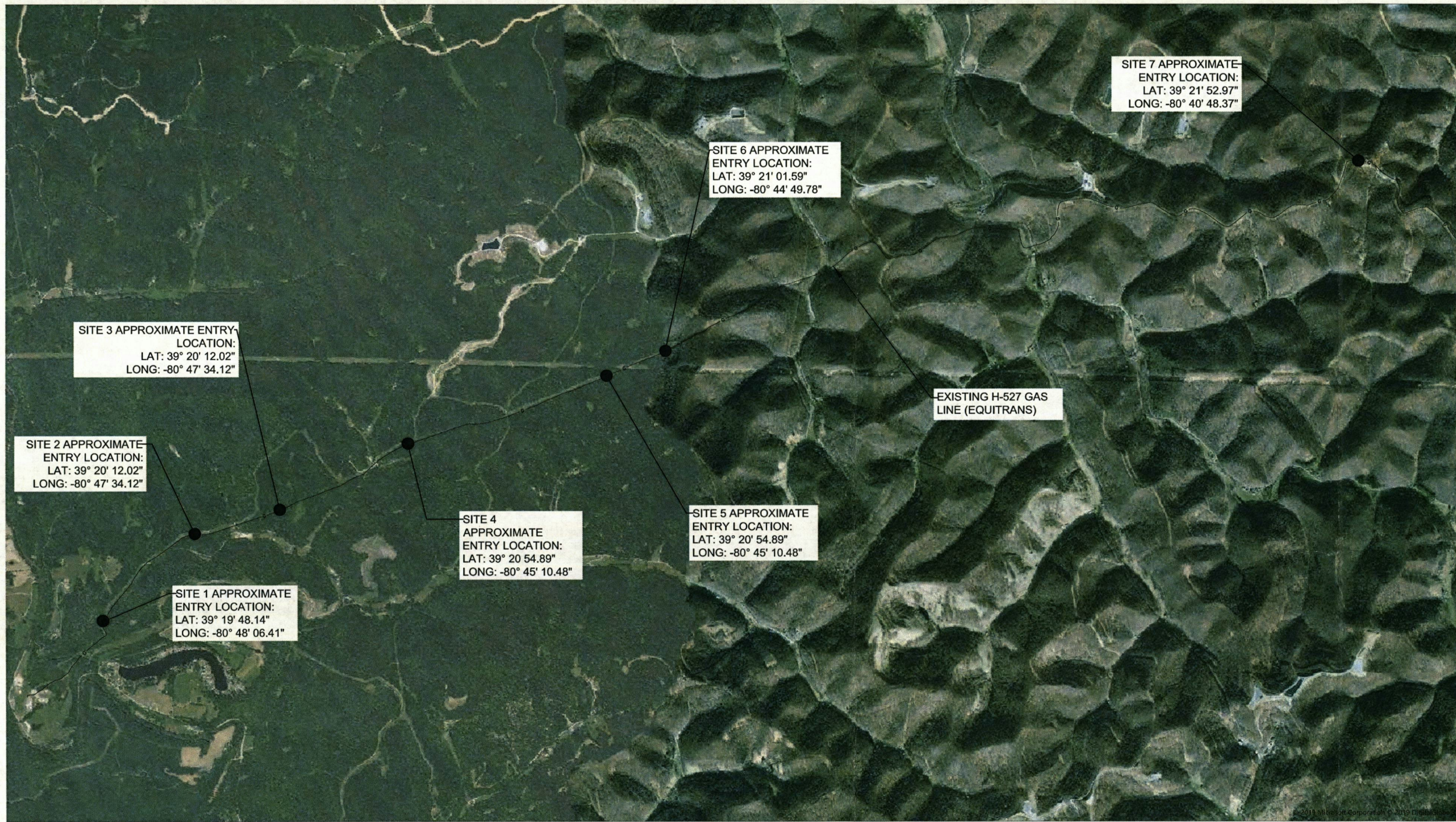
EQUITRANS, L.P.
2200 ENERGY DRIVE
CANONSBURG, PENNSYLVANIA 15317

NO.	DATE	BY:	CHKD:	APPD:	DESCRIPTION:

REVISIONS:

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

DRAWN BY:	GATEWAY
CHECKED BY:	JAB
APPROVED BY:	MEB
DATE:	6/17/2019
SCALE:	AS SHOWN
SHT. NO.	0.02



SITE 3 APPROXIMATE ENTRY LOCATION:
LAT: 39° 20' 12.02"
LONG: -80° 47' 34.12"

SITE 2 APPROXIMATE ENTRY LOCATION:
LAT: 39° 20' 12.02"
LONG: -80° 47' 34.12"

SITE 1 APPROXIMATE ENTRY LOCATION:
LAT: 39° 19' 48.14"
LONG: -80° 48' 06.41"

SITE 4 APPROXIMATE ENTRY LOCATION:
LAT: 39° 20' 54.89"
LONG: -80° 45' 10.48"

SITE 5 APPROXIMATE ENTRY LOCATION:
LAT: 39° 20' 54.89"
LONG: -80° 45' 10.48"

SITE 6 APPROXIMATE ENTRY LOCATION:
LAT: 39° 21' 01.59"
LONG: -80° 44' 49.78"

SITE 7 APPROXIMATE ENTRY LOCATION:
LAT: 39° 21' 52.97"
LONG: -80° 40' 48.37"

EXISTING H-527 GAS LINE (EQUITRANS)

SITE SOIL TYPES

SITE	SYMBOL	DESCRIPTION	SLOPE
1	GsF	GILPIN-PEABODY SILT LOAMS	35-70%
2	GsF	GILPIN-PEABODY SILT LOAMS	35-70%
3	GsE	GILPIN-PEABODY COMPLEX	15-35%
4	GsE	GILPIN-PEABODY COMPLEX	15-35%
5		UNDEFINED	
6		UNDEFINED	
7	GuD	GILPIN-UPSHUR SILT LOAMS	15-25 %

NOTES:
- A GEOTECHNICAL ENGINEER WILL REVIEW THE SOIL CAPABILITY OF THE SITE AND MAKE RECOMMENDATIONS TO THE OWNER. SOILS HAVING UNSTABLE COMPOSITION, SLIP AND LANDSLIDE POTENTIAL ARE NOT TO BE PLACED AS FILL MATERIAL AT AREAS HAVING 2:1 SLOPES OR NEAR PROXIMITY TO SUCH SLOPES. LOADING PLANES OF SUCH PLACED FILLS SHALL BEAR ON SUITABLE SOILS KEYED INTO VIRGIN SOILS. REFER TO CUT/FILL DETAILS ON PLANS. ALL CUT SITUATIONS THAT EXPOSE SUCH SOILS TO UNSUPPORTED BEARING BASE REQUIRES THOSE SOILS TO BE EXCAVATED AND REPLACED WITH SUITABLE SOILS THAT DO NOT HAVE THE MENTIONED CHARACTERISTICS.

H-527 PIPELINE MAINTENANCE PROJECT
KEY PLAN
WEST UNION, WV
DODDRIDGE CO.
EQUITRANS, L.P.
2200 ENERGY DRIVE
CANONSBURG, PENNSYLVANIA 15317

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMP'S ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

DRAWN BY: GATEWAY
CHECKED BY: JAB
APPROVED BY: MEB
DATE: 6/17/2019
SCALE: AS SHOWN
SHT. NO. 1.00



NO.	DATE	DWN.	CHD.	APPD.	DESCRIPTION

REVISIONS:

N/F GODDARD
LENORA A
COTTRILL
09-08-0003-0020-0000-0000

EXISTING ROAD TO BE
USED FOR SITE ENTRY

NUTTER FORK

SITE 1
APPROXIMATE
ENTRY LOCATION:
LAT: 39° 19' 48.14"
LONG: -80° 48' 06.41"

WOODED
AREA

PROPOSED
COMPOST FILTER
SOCK (TYP.)

PROPOSED TIMBER
MAT (TYP.)

PROPOSED EROSION
CONTROL BLANKET
(TYP.)

PROPOSED LIMITS
OF DISTURBANCE
(TYP.)

TOP OF BANK
(TYP)

WOODED
AREA

N/F LYNCH RANDALL
& DIXIE CRAIG
09-08-0006-0001-0000-0000

EXISTING H-527
GAS LINE
(EQUITRANS)

STREAM 1-
NUTTER FORK
(PER) SWCA
REPORT DATED
MAY 2019

← FLOW

LOD TO BE RESTORED
TO MEADOW IN GOOD
CONDITION OR BETTER



H-527 PIPELINE MAINTENANCE PROJECT

STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
WEST UNION, WV
DODDRIDGE CO.

EQUITRANS, L.P.

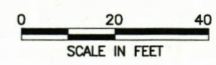
2200 ENERGY DRIVE
CANONSBURG, PENNSYLVANIA 15317

NO.	DATE	BY:	CHKD:	APPD:	DESCRIPTION:

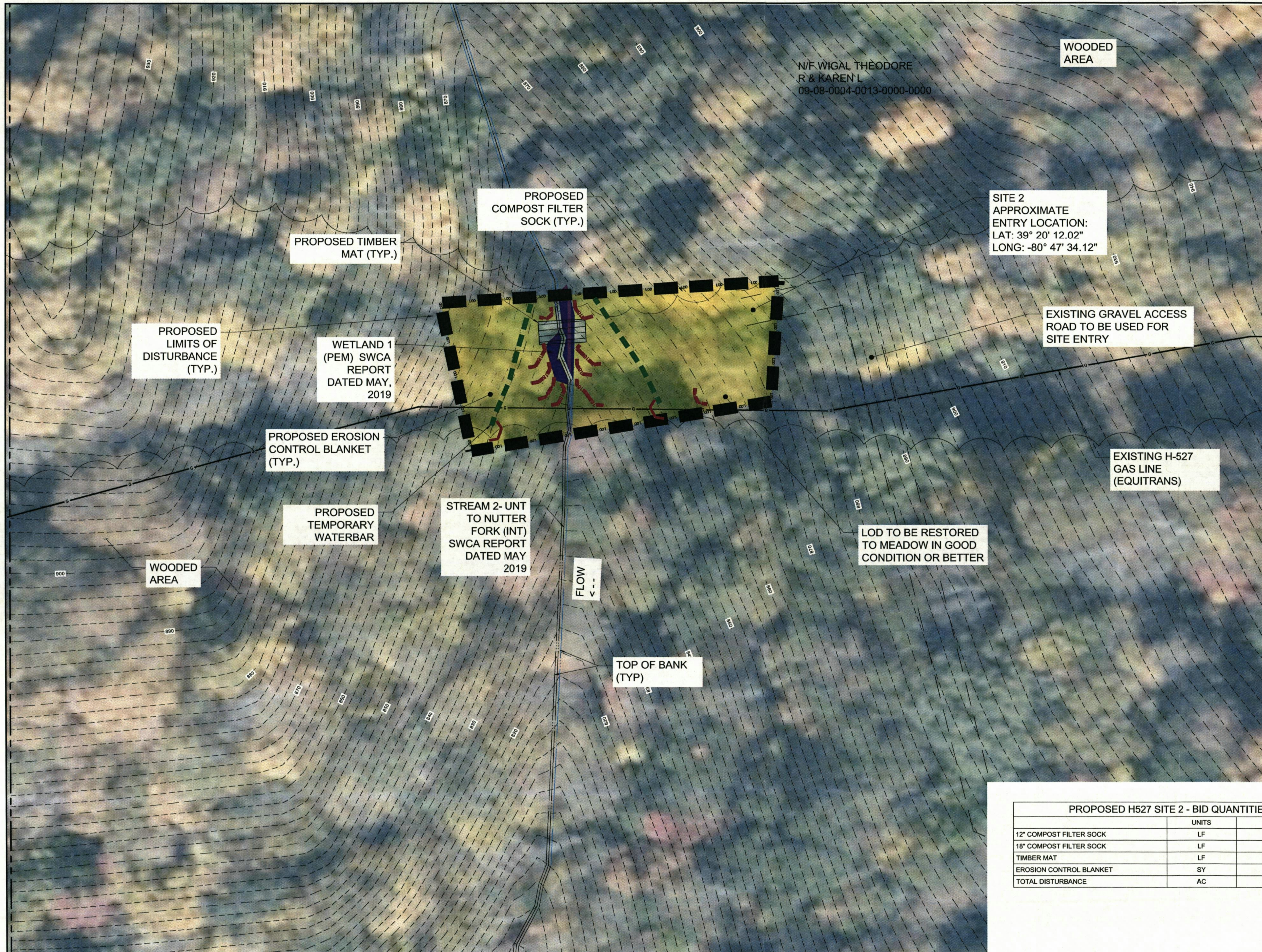
REVISIONS:

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

PROPOSED H527 SITE 1 - BID QUANTITIES ESTIMATE		
	UNITS	ESTIMATED QUANTITY
18" COMPOST FILTER SOCK	LF	190
24" COMPOST FILTER SOCK	LF	80
TIMBER MAT	LF	50
EROSION CONTROL BLANKET	SY	765
TOTAL DISTURBANCE	AC	0.36



DRAWN BY: GATEWAY
CHECKED BY: JAB
APPROVED BY: MEB
DATE: 8/17/2019
SCALE: AS SHOWN
SHT. NO. 1.01



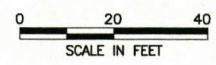
NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

H-527 PIPELINE MAINTENANCE PROJECT
 STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
 WEST UNION, WV DODDRIDGE CO.
EQUITRANS, L.P.
 2200 ENERGY DRIVE
 CANONSBURG, PENNSYLVANIA 15317

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

PROPOSED H527 SITE 2 - BID QUANTITIES ESTIMATE

	UNITS	ESTIMATED QUANTITY
12" COMPOST FILTER SOCK	LF	15
18" COMPOST FILTER SOCK	LF	140
TIMBER MAT	LF	25
EROSION CONTROL BLANKET	SY	840
TOTAL DISTURBANCE	AC	0.18



DRAWN BY:	GATEWAY
CHECKED BY:	JAB
APPROVED BY:	MEB
DATE:	6/17/2019
SCALE:	AS SHOWN
SHT. NO.	1.02

REVISIONS:

THEODORE R/
0014-0000-0000



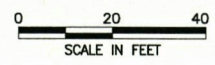
NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

REVISIONS:

H-527 PIPELINE MAINTENANCE PROJECT
 STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
 WEST UNION, WV DODDRIDGE CO.
EQUITRANS, L.P.
 2200 ENERGY DRIVE
 CANONSBURG, PENNSYLVANIA 15317

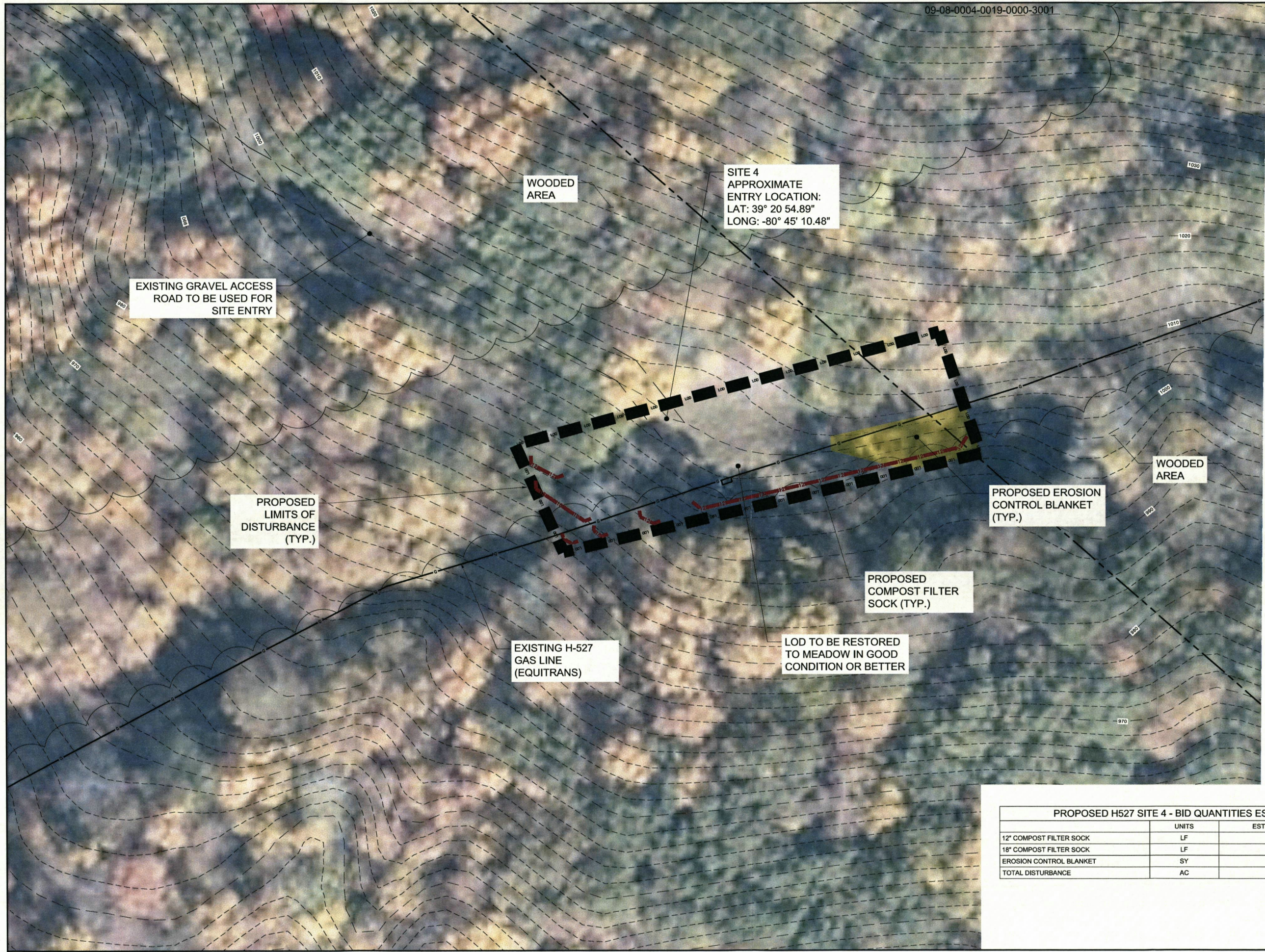
I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

	UNITS	ESTIMATED QUANTITY
12" COMPOST FILTER SOCK	LF	40
18" COMPOST FILTER SOCK	LF	60
TIMBER MAT	LF	60
EROSION CONTROL BLANKET	SY	370
TOTAL DISTURBANCE	AC	0.14



DRAWN BY:	GATEWAY
CHECKED BY:	JAB
APPROVED BY:	MEB
DATE:	6/17/2019
SCALE:	AS SHOWN
SHT. NO.	1.03

09-08-0004-0019-0000-3001



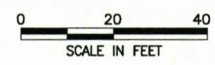
NO.	DATE	BY	CHKD.	APPD.	DESCRIPTION

REVISIONS:

H-527 PIPELINE MAINTENANCE PROJECT
 STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
 WEST UNION, WV DODDRIDGE CO.
EQUITRANS, L.P.
 2200 ENERGY DRIVE
 CANONSBURG, PENNSYLVANIA 15317

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

PROPOSED H527 SITE 4 - BID QUANTITIES ESTIMATE		
	UNITS	ESTIMATED QUANTITY
12" COMPOST FILTER SOCK	LF	185
18" COMPOST FILTER SOCK	LF	50
EROSION CONTROL BLANKET	SY	135
TOTAL DISTURBANCE	AC	0.23



DRAWN BY:	GATEWAY
CHECKED BY:	JAB
APPROVED BY:	MEB
DATE:	6/17/2019
SCALE:	AS SHOWN
SHT. NO.	1.04



WOODED AREA

WETLAND 3 (PEM) SWCA REPORT DATED MAY, 2019

PROPOSED TIMBER MATS / SPAN BRIDGE (TYP.)

WOODED AREA

STREAM 6 -UNT TO LITTLE FLINT RUN (INT) SWCA REPORT DATED MAY, 2019 FLOW < - -

PROPOSED TEMPORARY WATERBAR (TYP.)

EXISTING GRAVEL ACCESS ROAD TO BE USED FOR SITE ENTRY

PROPOSED LIMITS OF DISTURBANCE (TYP.)

SITE 5 APPROXIMATE ENTRY LOCATION: LAT: 39° 20' 54.89" LONG: -80° 45' 10.48"

WOODED AREA

PROPOSED COMPOST FILTER SOCK

LOD TO BE RESTORED TO MEADOW IN GOOD CONDITION OR BETTER

PROPOSED EROSION CONTROL BLANKET (TYP.)

STREAM 7 - UNT TO LITTLE FLINT RUN (INT) SWCA REPORT DATED MAY, 2019

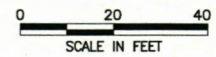
WOODED AREA

EXISTING H-527 GAS LINE (EQUITRANS)

FLOW < - - ^

TOP OF BANK (TYP)

PROPOSED H527 SITE 5 - BID QUANTITIES ESTIMATE		
	UNITS	ESTIMATED QUANTITY
18" COMPOST FILTER SOCK	LF	230
TIMBER MAT	LF	55
EROSION CONTROL BLANKET	SY	840
TOTAL DISTURBANCE	AC	0.21



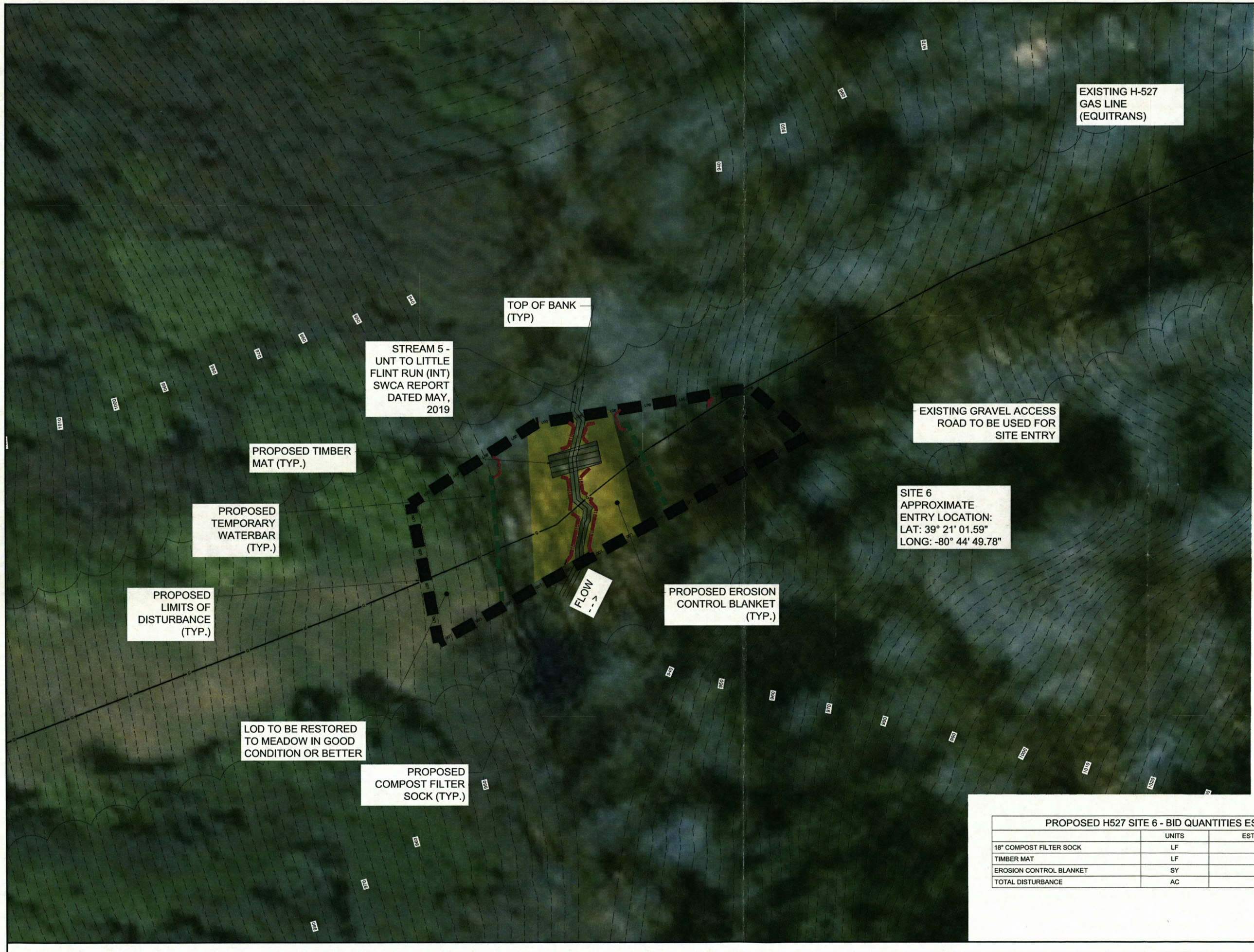
NO.	DATE	BY:	CHKD:	APPD:	DESCRIPTION:

H-527 PIPELINE MAINTENANCE PROJECT
 STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
 WEST UNION, WV DODDRIDGE CO.
EQUITRANS, L.P.
 2200 ENERGY DRIVE
 CANONSBURG, PENNSYLVANIA 15317

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

DRAWN BY: GATEWAY
 CHECKED BY: JAB
 APPROVED BY: MEB
 DATE: 6/17/2019
 SCALE: AS SHOWN
 SHIT. NO. 1.05

REVISIONS:



EXISTING H-527
GAS LINE
(EQUITRANS)

TOP OF BANK
(TYP)

STREAM 5 -
UNT TO LITTLE
FLINT RUN (INT)
SWCA REPORT
DATED MAY,
2019

PROPOSED TIMBER
MAT (TYP.)

PROPOSED
TEMPORARY
WATERBAR
(TYP.)

PROPOSED
LIMITS OF
DISTURBANCE
(TYP.)

LOD TO BE RESTORED
TO MEADOW IN GOOD
CONDITION OR BETTER

PROPOSED
COMPOST FILTER
SOCK (TYP.)

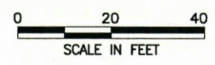
PROPOSED EROSION
CONTROL BLANKET
(TYP.)

FLOW
-->

EXISTING GRAVEL ACCESS
ROAD TO BE USED FOR
SITE ENTRY

SITE 6
APPROXIMATE
ENTRY LOCATION:
LAT: 39° 21' 01.59"
LONG: -80° 44' 49.78"

PROPOSED H527 SITE 6 - BID QUANTITIES ESTIMATE		
	UNITS	ESTIMATED QUANTITY
18" COMPOST FILTER SOCK	LF	125
TIMBER MAT	LF	30
EROSION CONTROL BLANKET	SY	260
TOTAL DISTURBANCE	AC	0.21



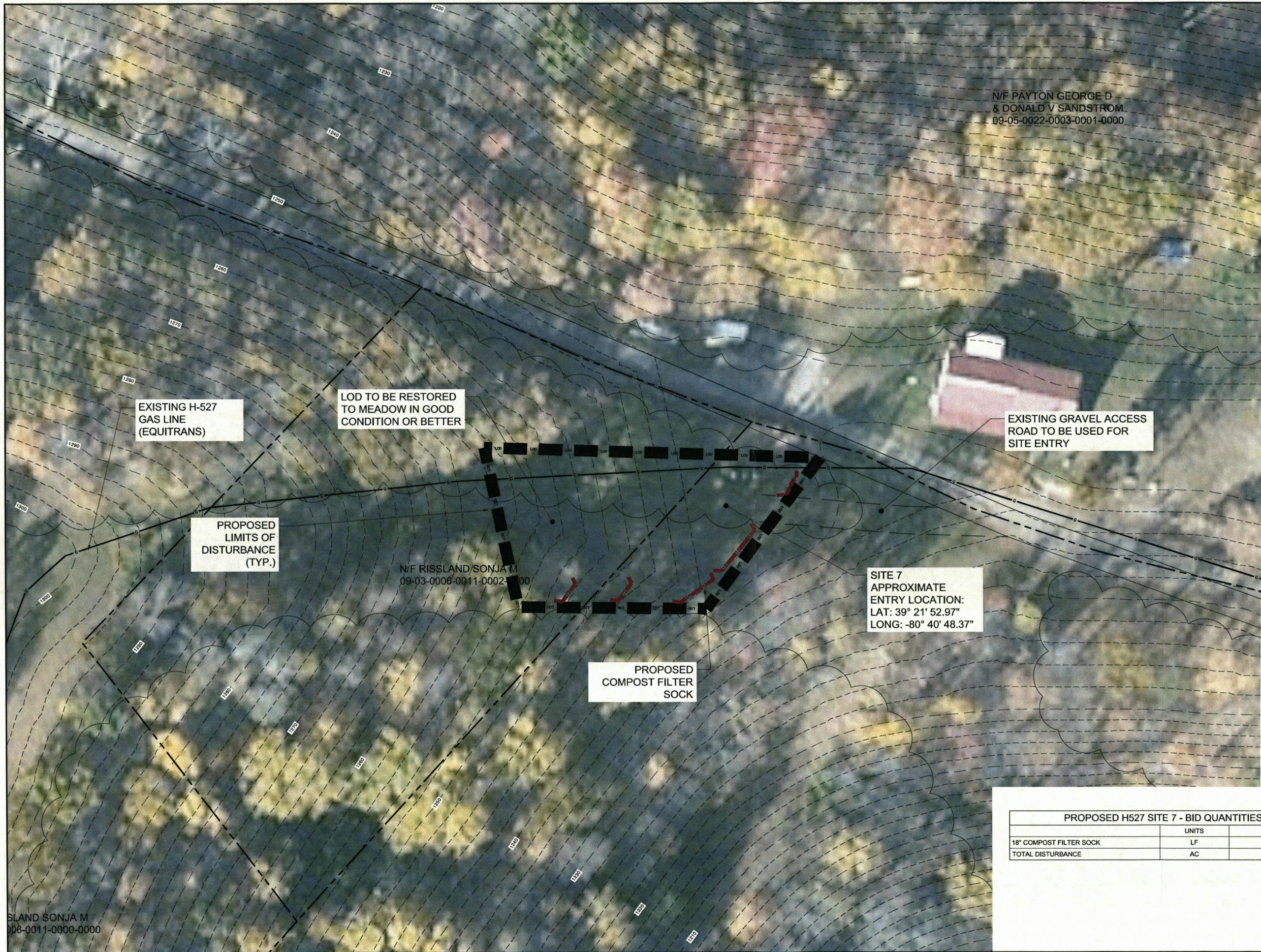
NO.	DATE	DRN.	CHD.	APPD.	DESCRIPTION

H-527 PIPELINE MAINTENANCE PROJECT
STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
WEST UNION, WV DODDRIDGE CO.
EQUITRANS, L.P.
2200 ENERGY DRIVE
CANONSBURG, PENNSYLVANIA 15317

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

DRAWN BY:	GATEWAY
CHECKED BY:	JAB
APPROVED BY:	MEB
DATE:	6/17/2019
SCALE:	AS SHOWN
SHT. NO.	1.06

REVISIONS:



N/F PAYTON GEORGE D
& DONALD V SANDSTROM
09-05-0022-0003-0001-0000



EXISTING H-527
GAS LINE
(EQUITRANS)

LOD TO BE RESTORED
TO MEADOW IN GOOD
CONDITION OR BETTER

EXISTING GRAVEL ACCESS
ROAD TO BE USED FOR
SITE ENTRY

PROPOSED
LIMITS OF
DISTURBANCE
(TYP.)

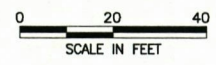
N/F RISSLAND/SONJA M
09-03-0006-0011-0002-0000

SITE 7
APPROXIMATE
ENTRY LOCATION:
LAT: 39° 21' 52.97"
LONG: -80° 40' 48.37"

PROPOSED
COMPOST FILTER
SOCK

LAND SONJA M
006-0011-0000-0000

PROPOSED H527 SITE 7 - BID QUANTITIES ESTIMATE		
	UNITS	ESTIMATED QUANTITY
18" COMPOST FILTER SOCK	LF	100
TOTAL DISTURBANCE	AC	0.18



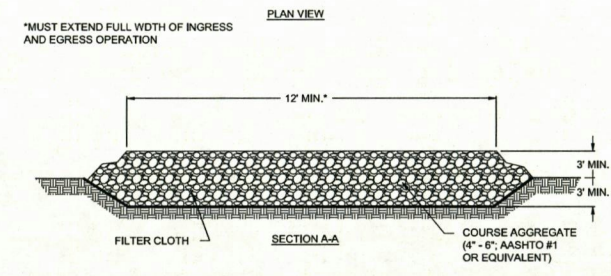
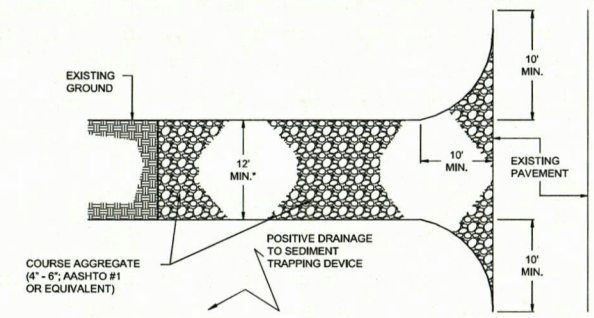
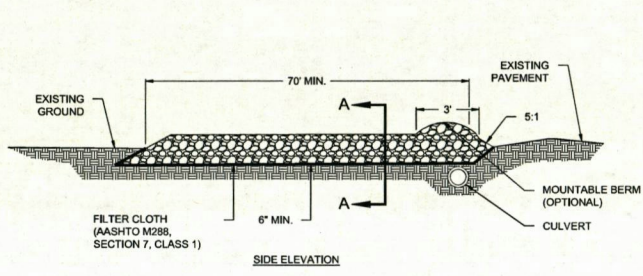
NO.	DATE	BY:	CHKD.:	APPD.:	DESCRIPTION:

H-527 PIPELINE MAINTENANCE PROJECT
STORMWATER POLLUTION PREVENTION PLAN AND DETAILS
WEST UNION, WV DODDRIDGE CO.
EQUITRANS, L.P.
2200 ENERGY DRIVE
CANONSBURG, PENNSYLVANIA 15317

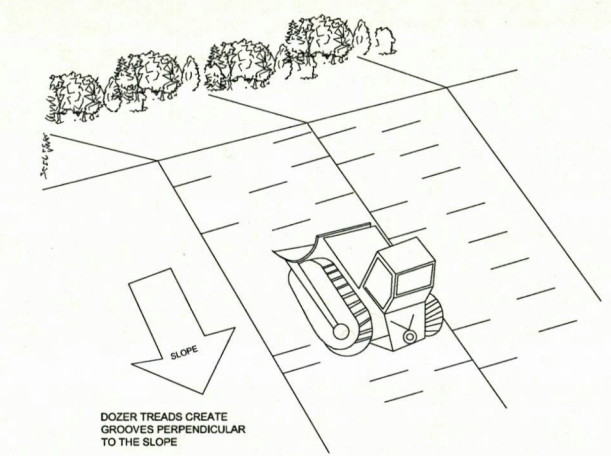
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DRAWN BY:	GATEWAY
CHECKED BY:	JAB
APPROVED BY:	MEB
DATE:	6/17/2019
SCALE:	AS SHOWN
SHT. NO.	1.07

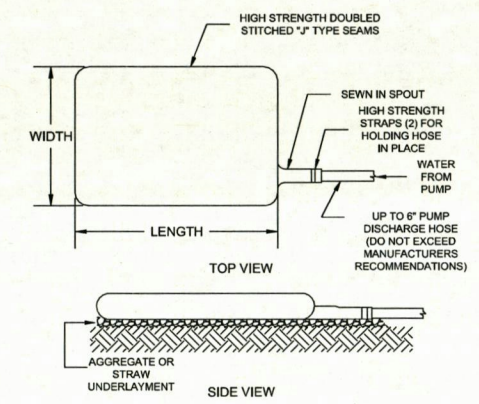
REVISIONS:



1
1.08
STONE CONSTRUCTION ENTRANCE



4
1.08
BULLDOZER TRACKING DETAIL

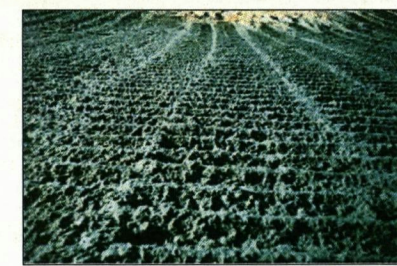


- NOTES:
- THE BAG SHALL BE INSTALLED ON A VERY SLIGHT SLOPE SO INCOMING WATER FLOWS DOWNHILL THROUGH THE BAG WITHOUT CREATING MORE EROSION.
 - THE NECK OF THE FILTER BAG SHALL BE TIGHTLY STRAPPED (MINIMUM TWO STRAPS) TO THE DISCHARGE HOSE.
 - THE BAG SHOULD BE PLACED ON AN AGGREGATE BED TO MAXIMIZE WATER FLOW THROUGH THE ENTIRE SURFACE AREA OF THE BAG.
 - THE FILTER BAG IS FULL WHEN IT NO LONGER CAN EFFICIENTLY FILTER SEDIMENT OR PASS WATER AT A REASONABLE RATE.
 - FLOW RATES VARY DEPENDING ON THE SIZE OF THE DEWATERING DEVICE, AMOUNT OF SEDIMENT DISCHARGED INTO THE DEWATERING DEVICE, THE TYPE OF GROUND, ROCK, OR OTHER SUBSTANCE UNDER THE BAG AND THE DEGREE OF THE SLOPE ON WHICH THE BAG LIES. THE FILTER BAG SHOULD BE SIZED TO ACCOMMODATE THE ANTICIPATED FLOW RATES FROM THE TYPE OF PUMP USED. TYPICALLY FILTER BAGS CAN HANDLE FLOW RATES OF UP TO 1000 GALLONS PER MINUTE, BUT IN ALL CASES FOLLOW THE MANUFACTURERS RECOMMENDATIONS FOR FLOW RATES.
 - USE OF EXCESSIVE FLOW RATES OR OVERFILLING THE DEWATERING DEVICE WITH SEDIMENT WILL CAUSE RUPTURES OF THE BAG OR FAILURE OF THE HOSE ATTACHMENT STRAPS.
 - THE FILTER BAG CAN BE LEFT IN PLACE AFTER CUTTING THE TOP OFF AND SEEDING AND MULCHING THE ACCUMULATED SEDIMENT OR REMOVED AND DISPOSED OF OFFSITE IN AN APPROVED LANDFILL.
 - EACH STANDARD DEWATERING DEVICE SHALL HAVE A FILL SPOUT LARGE ENOUGH TO ACCOMMODATE THE DISCHARGE HOSE. USE TWO STAINLESS STEEL STRAPS TO SECURE THE HOSE AND PREVENT PUMPED WATER FROM ESCAPING WITHOUT BEING FILTERED.
 - THE DEWATERING DEVICE SHALL BE A NONWOVEN BAG, WHICH IS SEWN WITH A DOUBLE NEEDLE STITCHING USING A HIGH STRENGTH THREAD.
 - THE DEWATERING DEVICE SEAMS SHALL HAVE AN AVERAGE WIDE WITH STRENGTH PER ASTM D 4884 OF 100 LB/IN.
 - THE GEOTEXTILE FABRIC SHALL BE A NONWOVEN FABRIC WITH THE FOLLOWING PROPERTIES:

PROPERTIES	TEST METHOD	ENGLISH	METRIC
GRAB TENSILE	ASTM D-4632	250 LBS.	113 KG
PUNCTURE	ASTM D-4833	165 LBS.	75 KG
FLOW RATE	ASTM D-4493	70 GAL/MIN/SQ FT	25 LITERS/MIN/SQ METER
PERMITIVITY	ASTM D-4493	1.3 SEC.-1	1.3 SEC.-1
MULLENBURST	ASTM D-3786	550 LBS./SQ INCH	3.79 Mpa
UV RESISTANT	ASTM D-4355	70%	70%
ACB % RETAINED	ASTM D-4753	100%	100%

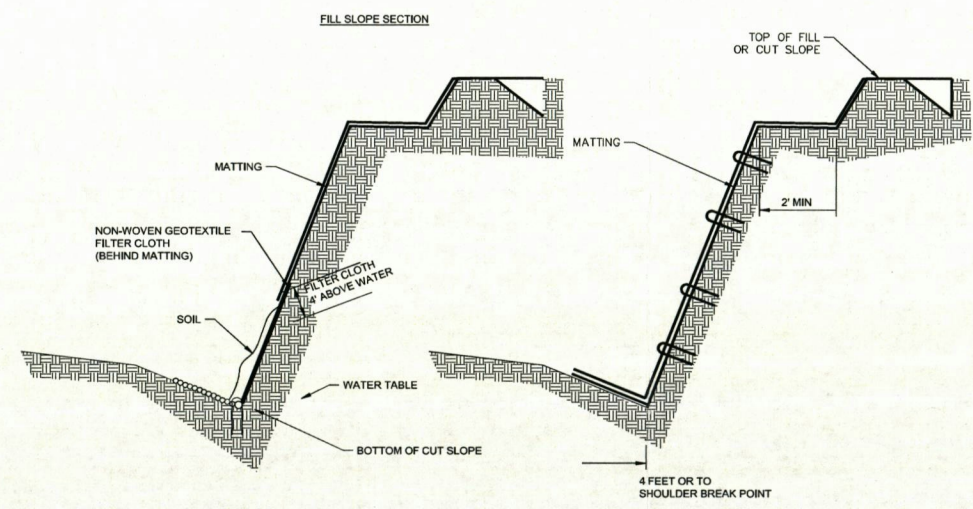
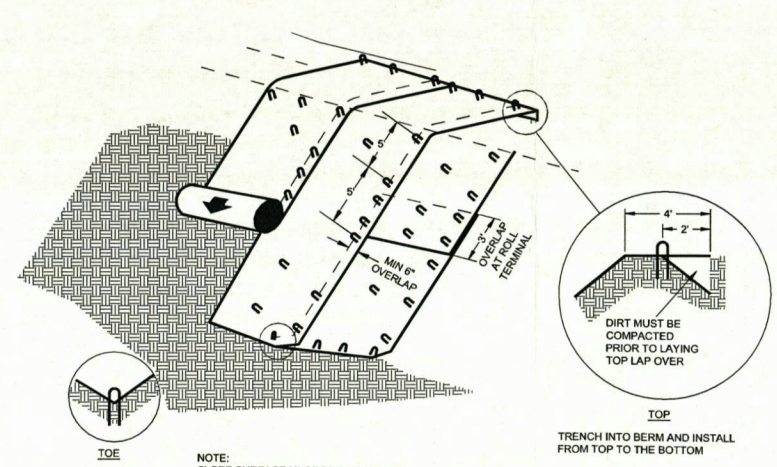
*ALL PROPERTIES ARE MINIMUM AVERAGE ROLL VALUE

2
1.08
PUMPED WATER FILTER BAG



- NOTES:
- A BONDED FIBER MATRIX (BFM) IS AN EFFECTIVE METHOD OF STABILIZING STEEP SLOPES WHEN USED PROPERLY. BMFs MAKE USE OF A CROSS-LINKED HYDROCOLLOID TACKIFIER TO BOND THERMALLY PROCESSED WOOD FIBERS. APPLICATION RATES VARY ACCORDING TO SITE CONDITIONS. FOR SLOPES UP TO 3H:1V THE BFM SHOULD BE APPLIED AT A RATE OF 3,000 LB/ACRE. STEEPER SLOPES MAY NEED AS MUCH AS 4,000 LB/ACRE.
- BMFs SHOULD ONLY BE USED WHEN NO RAIN IS FORECASTED FOR AT LEAST 48 HOURS FOLLOWING THE APPLICATION. THIS IS TO ALLOW THE TACKIFIER SUFFICIENT TIME TO CURE PROPERLY. ONCE PROPERLY APPLIED, A BFM IS TYPICALLY 90% EFFECTIVE IN PREVENTING ACCELERATED EROSION. BMFs SHOULD NOT BE APPLIED BETWEEN SEPTEMBER 30 AND APRIL 1.
- A POLYMER STABILIZED FIBER MATRIX (PSFM) CAN ALSO BE AN EFFECTIVE METHOD OF STABILIZING STEEP SLOPES WHEN USED PROPERLY. PSFMs MAKE USE OF A LINEAR SOIL STABILIZING TACKIFIER THAT WORKS DIRECTLY ON SOIL TO MAINTAIN SOIL STRUCTURE, MAINTAIN PORE SPACE CAPACITY AND FLOCCULATE DISLODGED SEDIMENT THAT WILL SIGNIFICANTLY REDUCE RUNOFF TURBIDITY. PROPERLY APPLIED, A PSFM MAY BE AS MUCH AS 99% EFFECTIVE.

5
1.08
BONDED FIBER MATRIX



3
1.08
ROLLED EROSION CONTROL PRODUCTS

Typical Polymer Stabilized Fiber Matrix Application Rates

SLOPE	Maximum Rainfall of ≤ 20"						
	6:1	5:1	4:1	3:1	2:1	1.5:1	1:1
Soil Stabilizer (gals/acre)	4	5	6	7	8	9	10
Fiber (lb/acre)	1,500	1,500	1,500	1,800	2,000	2,500	3,000

SLOPE	Maximum Rainfall of > 20" and for Site Winterization		
	≤5:1	4:1	≥3:1
Soil Stabilizer (gals/acre)	6	8	10
Fiber (lb/acre)	2,000	2,500	3,000

- NOTES:
- UNLIKE ROLLED BLANKETS, THERE IS NO NEED TO SMOOTH THE SLOPE PRIOR TO APPLICATION OF HYDRAULICALLY APPLIED BLANKETS. IN FACT SOME ROUGHENING OF THE SURFACE, EITHER NATURAL OR MECHANICALLY INDUCED, IS PREFERABLE. HOWEVER, LARGE ROCKS, THOSE > 9 INCHES, AND EXISTING RILLS SHOULD BE REMOVED PRIOR TO APPLICATION. TRACKING OR GROOVING OF SLOPES SHOULD BE CONSIDERED TO SLOW WATER FLOWS DURING A STORM EVENT. SLOPE INTERRUPTION DEVICES SUCH AS STAIR STEP GRADING OR BENCHING SHOULD BE APPLIED PRIOR TO THE APPLICATION. MIXING AND APPLICATION RATES SHOULD FOLLOW MANUFACTURER'S RECOMMENDATIONS.
- HYDRAULICALLY APPLIED BLANKETS ARE TYPICALLY APPLIED IN TWO STAGES, UNLESS SPECIFICALLY RECOMMENDED TO BE APPLIED IN ONE APPLICATION BY THE MANUFACTURER, THE SEED MIXTURE AND SOIL AMENDMENTS SHOULD BE APPLIED FIRST. IF THE SEED IS APPLIED AT THE SAME TIME AS THE HYDRAULICALLY APPLIED BLANKET, THE BONDED FIBERS MAY KEEP THE SEED FROM MAKING SUFFICIENT CONTACT WITH THE SOIL TO GERMINATE. AFTER THE SEED MIXTURE IS APPLIED, THE BFM, FGM, OR PSFM SHOULD BE SPRAYED OVER THE AREA AT THE REQUIRED APPLICATION RATE. (SEE ABOVE TABLES)

NO.	DATE	DWN.	CHD.	APPD.	DESCRIPTION

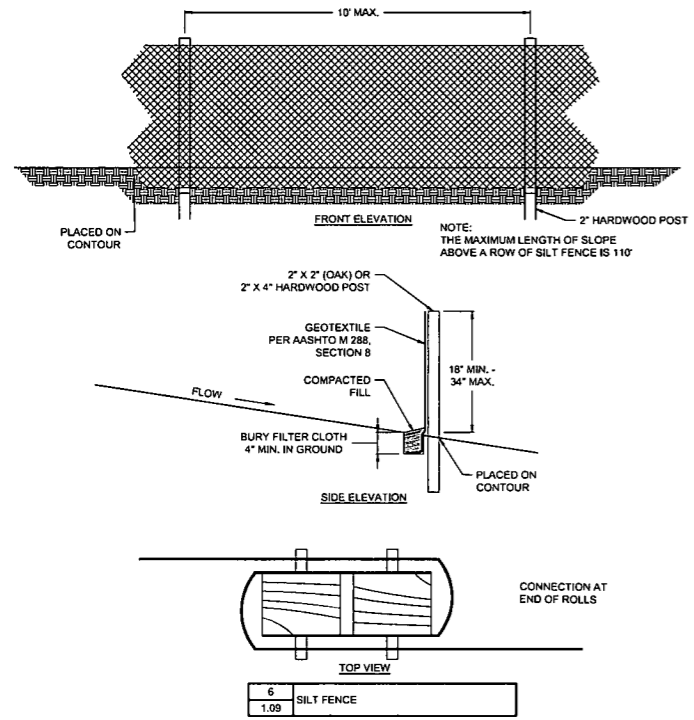
H-527 PIPELINE MAINTENANCE PROJECT

STORMWATER POLLUTION PREVENTION DETAILS
DODDRIDGE CO.
WEST UNION, WV

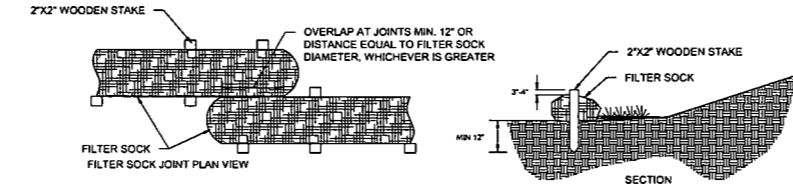
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SHT. NO.	1.08

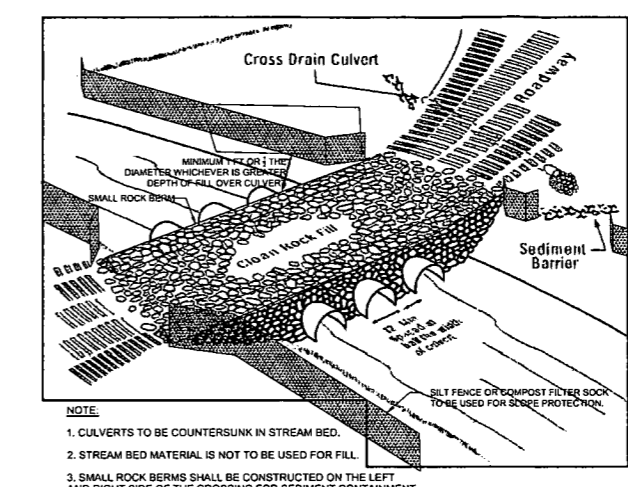


6
1.09
SILT FENCE

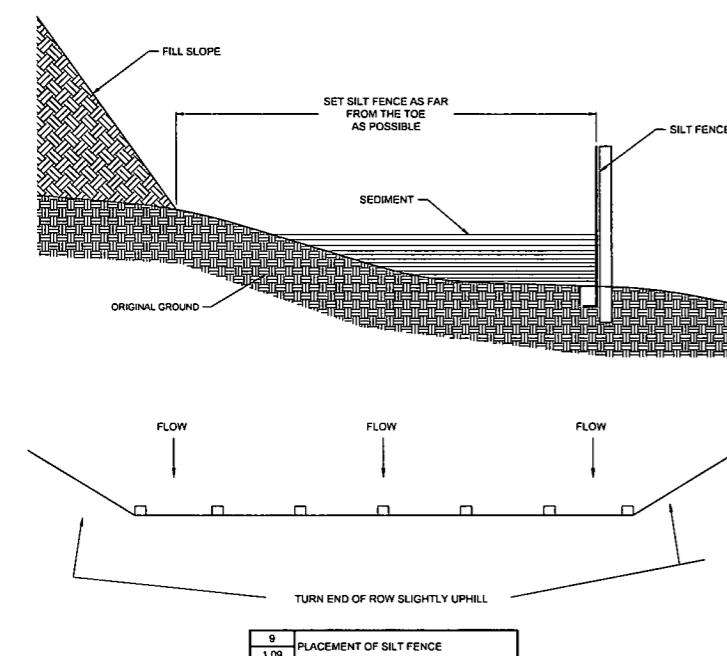


- NOTES:
- MATERIALS - COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN, AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM 3/8 INCH TO 2 INCHES.
 - FILTER SOCKS SHALL BE 3 TO 5 MIL CONTINUOUS TUBULAR HDPE 1/2 INCHES KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.
 - FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED MID-SLOPE.
 - STAKES SHALL BE INSTALLED EVERY 5 FT FOR THE ENTIRE LENGTH OF THE FILTER SOCK AND WITHIN 1 FT OF EACH END. STAKES MAY GO THROUGH THE CENTER OF THE FILTER SOCK OR BE CROSS-CROSSED OVER THE TOP.
 - MANUFACTURER'S SPECIFICATIONS ARE TO BE FOLLOWED WHEN JOINING FILTER SOCK SEGMENTS. PLAN VIEW ABOVE IS TO BE CONSIDERED A MINIMUM.
 - FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION.
 - FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.
 - ROUTINELY INSPECT FILTER SOCKS AFTER EACH SIGNIFICANT RAIN, MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
 - REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS WHEN THEY REACH 1/4 OF THE EXPOSED HEIGHT OF THE PRACTICE.
 - WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
 - REMOVAL - FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT SEEDING.

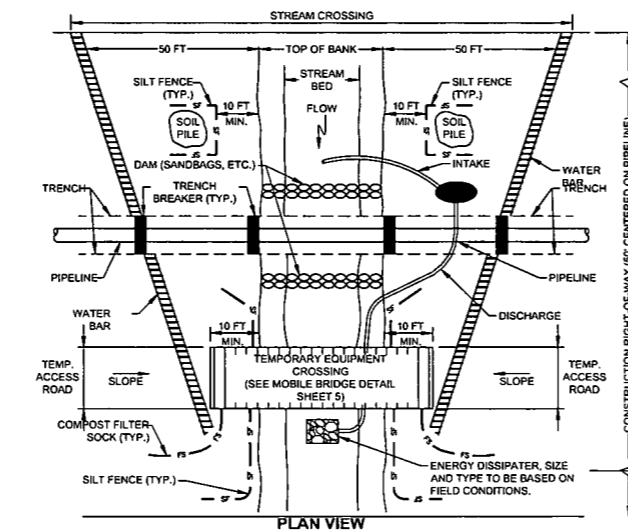
7
1.09
COMPOST FILTER SOCK



8
1.09
TYPICAL EAS CONTROL FOR A STREAM CROSSING

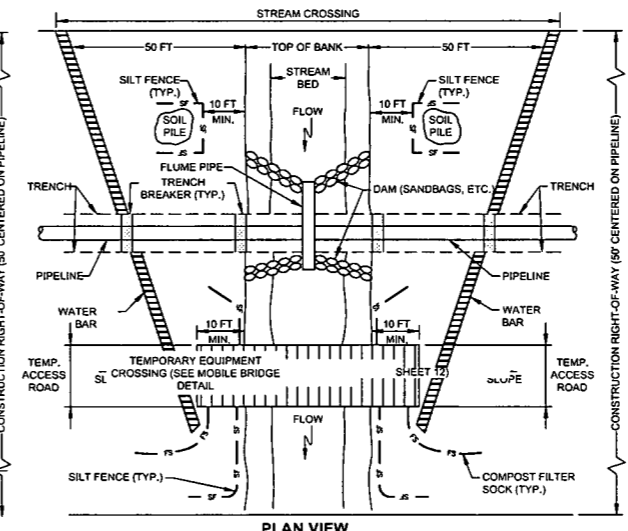


9
1.09
PLACEMENT OF SILT FENCE



- NOTES:
- GRUBBING SHALL NOT TAKE PLACE WITHIN 50 FEET OF TOP-OF-BANK UNTIL ALL MATERIALS REQUIRED TO COMPLETE CROSSING ARE ON SITE AND PIPE IS READY FOR INSTALLATION.
 - BY-PASS PUMP INTAKE SHALL BE MAINTAINED A SUFFICIENT DISTANCE FROM THE BOTTOM TO PREVENT PUMPING OF CHANNEL BOTTOM MATERIALS.
 - TRENCH PLUGS SHALL BE INSTALLED WITHIN THE TRENCH ON BOTH SIDES OF THE STREAM CHANNEL.
 - WATER ACCUMULATING WITHIN THE WORK AREA SHALL BE PUMPED TO A PUMPED WATER FILTER BAG OR SEDIMENT TRAP PRIOR TO DISCHARGING INTO ANY SURFACE WATER.
 - HAZARDOUS OR POLLUTANT MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK FROM THE TOP OF STREAMBANK.
 - ALL EXCESS EXCAVATED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE STREAM CROSSING AREA.
 - ALL DISTURBED AREAS WITHIN 50 FEET OF TOP-OF-BANK SHALL BE BLANKETED OR MATTED WITHIN 24 HOURS OF INITIAL DISTURBANCE FOR MINOR STREAMS OR 48 HOURS OF INITIAL DISTURBANCE FOR MAJOR STREAMS UNLESS OTHERWISE AUTHORIZED.
 - APPROPRIATE STREAMBANK PROTECTION SHALL BE PROVIDED WITHIN THE CHANNEL.
 - STREAM CROSSING MUST BE DONE IN 24 - 72 HOURS IF ROCK IS ENCOUNTERED.

10
1.09
TYPICAL UTILITY LINE STREAM CROSSING WITH PUMP BYPASS



- NOTES:
- GRUBBING SHALL NOT TAKE PLACE WITHIN 50 FEET OF TOP-OF-BANK UNTIL ALL MATERIALS REQUIRED TO COMPLETE CROSSING ARE ON SITE AND PIPE IS READY FOR INSTALLATION.
 - PIPE CULVERT FOR ACCESS ROAD AND FLUME PIPE MAY BE ONE CONTINUOUS PIPE.
 - TRENCH PLUGS SHALL BE INSTALLED WITHIN THE TRENCH ON BOTH SIDES OF THE STREAM CHANNEL.
 - WATER ACCUMULATING WITHIN THE WORK AREA SHALL BE PUMPED TO A PUMPED WATER FILTER BAG OR SEDIMENT TRAP PRIOR TO DISCHARGING INTO ANY SURFACE WATER.
 - HAZARDOUS OR POLLUTANT MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK FROM THE TOP OF STREAMBANK.
 - ALL EXCESS EXCAVATED MATERIAL SHALL BE IMMEDIATELY REMOVED FROM THE STREAM CROSSING AREA.
 - ALL DISTURBED AREAS WITHIN 50 FEET OF TOP-OF-BANK SHALL BE BLANKETED OR MATTED WITHIN 24 HOURS OF INITIAL DISTURBANCE FOR MINOR STREAMS OR 48 HOURS OF INITIAL DISTURBANCE FOR MAJOR STREAMS UNLESS OTHERWISE AUTHORIZED. APPROPRIATE STREAMBANK PROTECTION SHALL BE PROVIDED WITHIN THE CHANNEL.
 - STREAM CROSSING MUST BE DONE IN 24 - 72 HOURS IF ROCK IS ENCOUNTERED.

11
1.09
TYPICAL UTILITY LINE STREAM CROSSING WITH OPTIONAL ACCESS ROAD

H-527 PIPELINE MAINTENANCE PROJECT

STORMWATER POLLUTION PREVENTION DETAILS
WEST UNION, WV

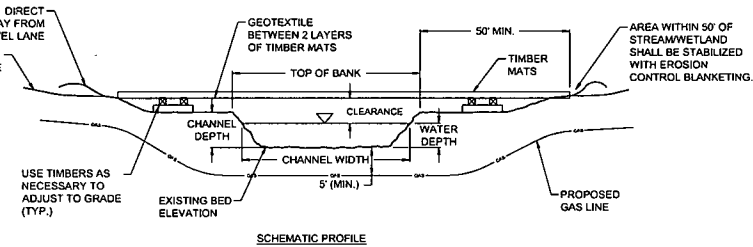
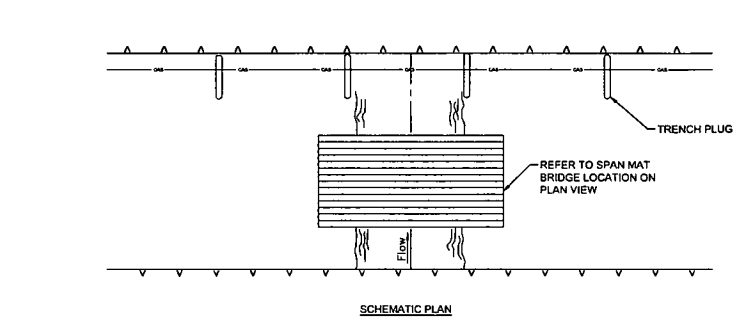
DODDRIDGE CO.
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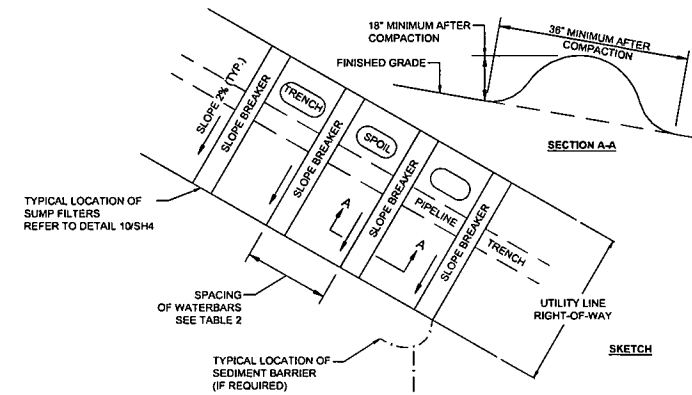
NO.	DATE	BY:	CHKD.:	APPD.:	DESCRIPTION:

REVISIONS:



- NOTES:**
1. INSTALL WATER BARS OR SILT FENCE AT APPROACHES TO STREAM CROSSING AND COMPOST FILTER SOCKS ALONG STREAM BANKS. INSTALL COMPOST FILTER SOCK AT OUTLET OF WATER BARS.
 2. MAINTAIN SURFACE OF TEMPORARY EQUIPMENT CROSSING TO PREVENT SOIL DISCHARGES TO STREAM.
 3. APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE ORIGINAL GRADE.
 4. GEOTEXTILE LINER TO COME UP ON THE SIDES OF THE BRIDGE.

12 TIMBER MAT STREAM CROSSING - TYPICAL CROSS SECTION
1.10



REQUIRED SPACING FOR PERMANENT WATERBARS

PIPELINE GRADE	>200' FROM STREAMS	<200' FROM STREAMS
2-5%	400	200
6-12%	300	150
13-21%	200	100
22-34%	100	50
35-50%	50	25

NOTE:
PERMANENT WATERBARS ARE REQUIRED AT ALL STREAM, RIVER, AND OTHER WATER-BODY CROSSINGS AS WELL AS UPSLOPE FROM ROADWAY AND ROADBED CUT SLOPES. OTHERWISE NOT REQUIRED.

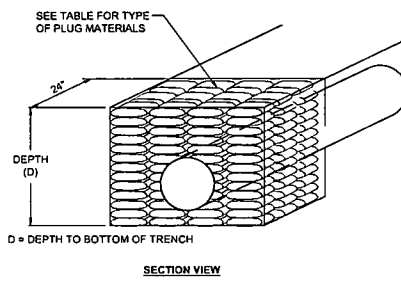
NOTES:
WATERBARS SHALL BE INSPECTED WEEKLY (DAILY ON ACTIVE ROADS) AND AFTER EACH RUNOFF EVENT. DAMAGED OR ERODED WATERBARS SHALL BE RESTORED TO ORIGINAL DIMENSIONS WITHIN 24 HOURS OF INSPECTION.

MAINTENANCE OF WATERBARS SHALL BE PROVIDED UNTIL ROADWAY, SKIDTRAIL, OR RIGHT-OF-WAY HAS ACHIEVED PERMANENT STABILIZATION.

WATERBARS ON RETIRED ROADWAYS, SKIDTRAILS, AND RIGHT-OF-WAYS SHALL BE LEFT IN PLACE AFTER PERMANENT STABILIZATION HAS BEEN ACHIEVED.

SUMP FILTERS TO BE INSTALLED AT THE END OF WATERBARS. REFER TO DETAIL 07/SH 4 FOR MORE DETAIL.

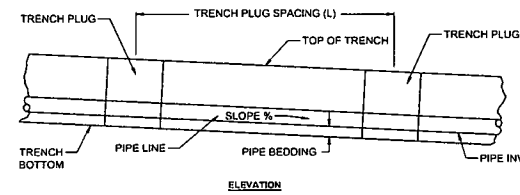
14 WATERBAR INSTALLATION
1.10



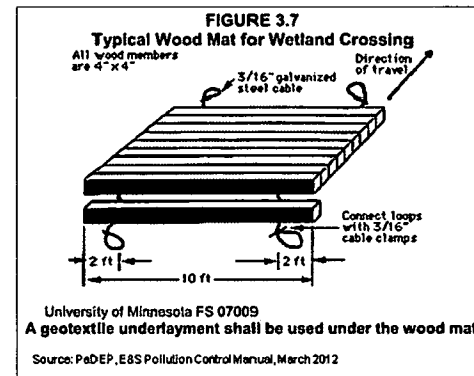
REQUIRED SPACING AND MATERIALS FOR TRENCH PLUGS

TRENCH SLOPE (%)	SPACING L (FT)	PLUG MATERIAL
< 5	1,000	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
5 - 15	500	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
15 - 25	300	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
25 - 35	200	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
35 - 100	100	* CLAY, BENTONITE, OR CONCRETE FILLED SACKS
> 100	50	* CEMENT FILLED BAGS (WETTED) OR MORTARED STONE

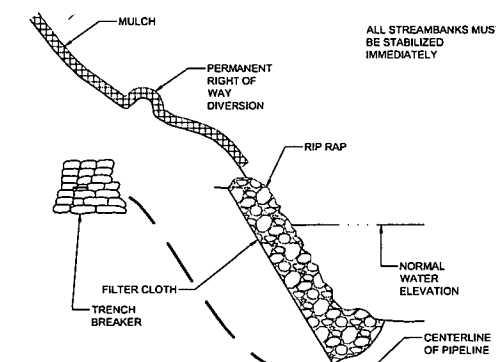
- NOTES:**
1. TRENCH PLUGS ARE REQUIRED AT ALL STREAM, RIVER, OR WATER-BODY CROSSINGS REGARDLESS OF TRENCH SLOPE.
 2. OTHERWISE NOT REQUIRED AT SLOPES LESS THAN 5%.
 3. TOPSOIL MAY NOT BE USED TO FILL SACKS.



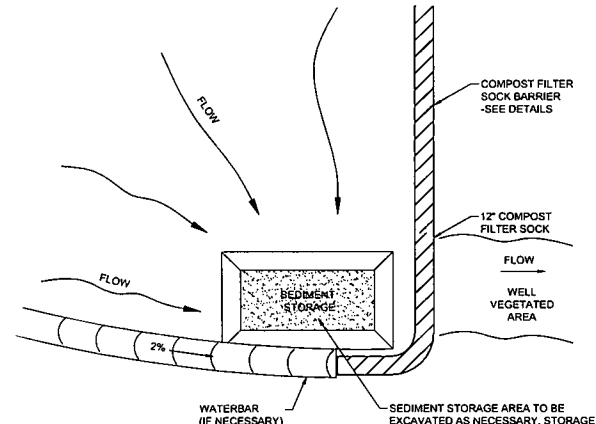
15 TYPICAL TRENCH PLUG INSTALLATION
1.10



13 TIMBER MAT STREAM CROSSING - TYPICAL CROSS SECTION
1.13

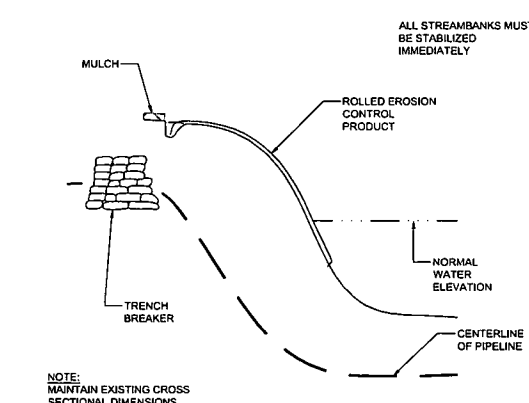


17 STREAM BANK STABILIZATION W/ RIP RAP
1.10

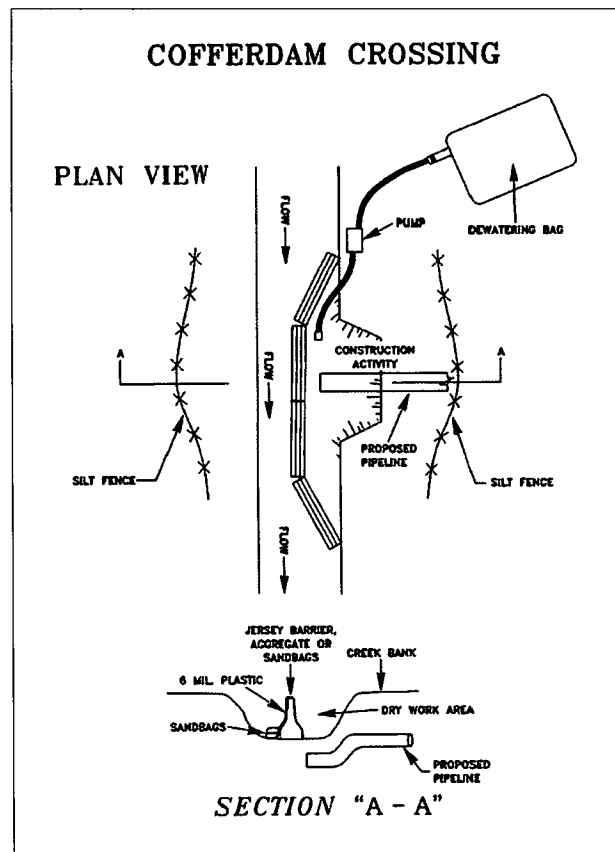


- NOTES:**
1. SUMP FILTER MAY BE USED IN CONJUNCTION WITH WATERBARS (AS DIRECTED BY OWNER REPRESENTATIVE).
 2. SUMP FILTER SHALL BE LOCATED ENTIRELY WITHIN PROPOSED RIGHT OF WAY.
 3. BMP SHOULD BE CHECKED WEEKLY AND AFTER EACH STORMWATER EVENT FOR SEDIMENT ACCUMULATION, PROPER OPERATION, AND COMPOST FILTER SOCK INTEGRITY.
 4. ADDITIONAL COMPOST FILTER SOCKS MAY BE NECESSARY BEYOND WHAT IS SHOWN ON DETAIL TO MEET INTENDED BMP REQUIREMENTS.

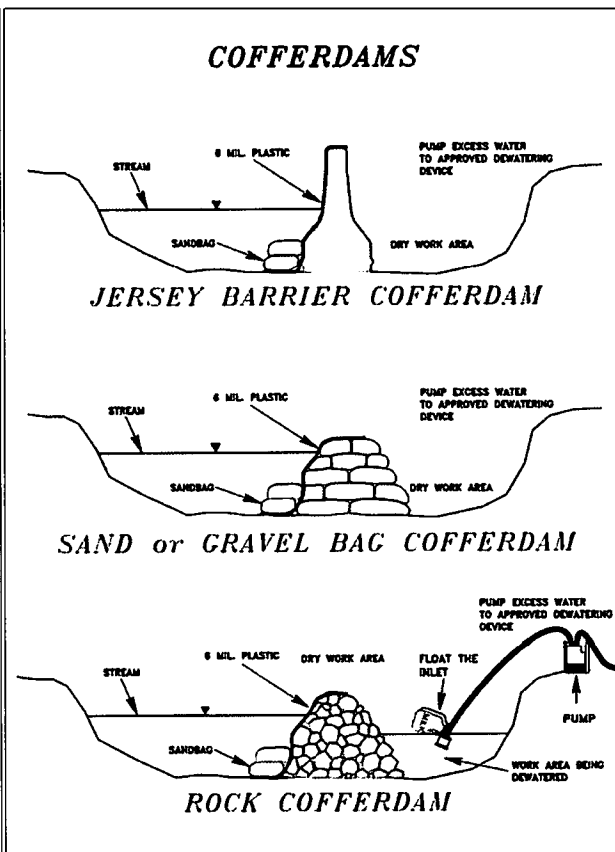
19 TYPICAL SUMP FILTER
1.10



18 ROLLED EROSION CONTROL PRODUCTS
1.10



16 COFFERDAM STREAM CROSSING
1.10



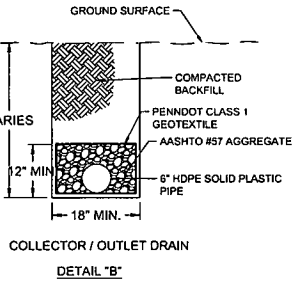
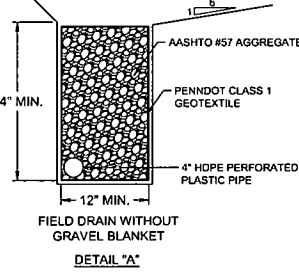
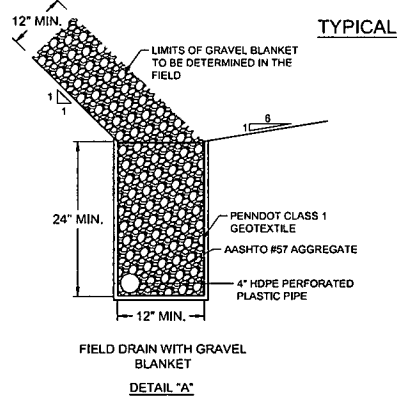
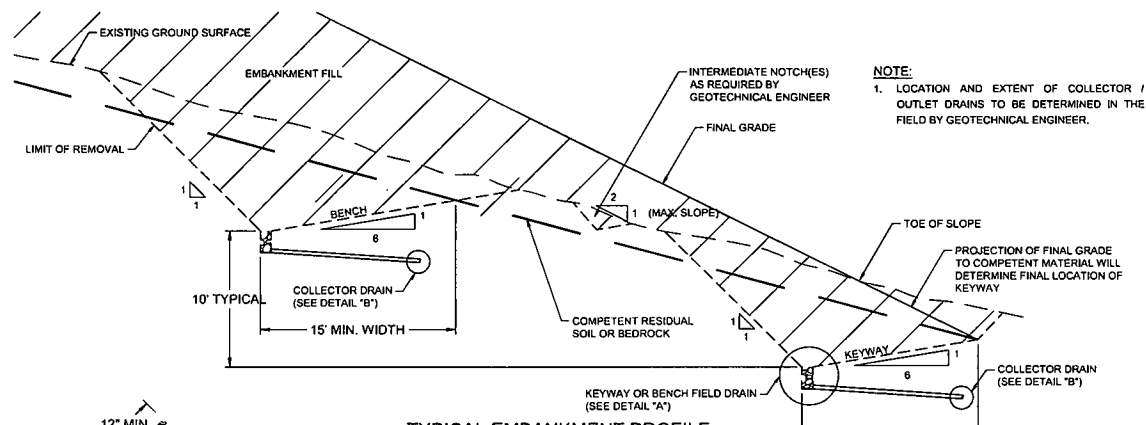
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NO.	DATE	BY:	CHKD.:	APPD.:	DESCRIPTION:

H-527 PIPELINE MAINTENANCE PROJECT
STORMWATER POLLUTION PREVENTION DETAILS
WEST UNION, WV
DODDRIDGE CO.
EQUITRANS, L.P.
2200 ENERGY DRIVE
CANONSBURG, PENNSYLVANIA 15317

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

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20	TYPICAL KEYSWAY, BENCH, AND DRAINAGE DETAIL
1:11	

SEDIMENT CONTROL REQUIREMENTS

MARK CLEARING LIMITS

1. PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES, CLEARLY MARK ALL LIMITS, SENSITIVE AREAS AND THEIR BUFFERS, AND TREES THAT ARE TO BE PRESERVED WITHIN THE CONSTRUCTION AREA. THESE SHALL BE CLEARLY MARKED, BOTH IN THE FIELD AND ON THE PLANS, TO PREVENT DAMAGE AND OFFSITE IMPACTS.

ESTABLISH CONSTRUCTION ACCESS

1. CONSTRUCTION VEHICLE ACCESS AND EXIT SHOULD BE LIMITED TO ONE ROUTE IF POSSIBLE.
2. ACCESS POINTS SHALL BE STABILIZED WITH CRUSHED AGGREGATE TO MINIMIZE THE TRACKING OF SEDIMENT ONTO PUBLIC AND PRIVATE ROADS.
3. WHEEL WASH OR TIRE BATHS SHOULD BE LOCATED ON SITE, IF APPLICABLE.
4. NO SEDIMENT TRACKING ON THE ROADWAY IS ALLOWED. IN THE EVENT THAT SEDIMENT IS INADVERTENTLY TRACKED ONTO THE ROAD, THE ROAD SHALL BE CLEANED THOROUGHLY BY THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. STREET WASHING OF SEDIMENTS TO THE STORM DRAINAGE SYSTEM IS NOT ALLOWED. IF STREET WASH WASTEWATER CAN NOT BE CONTROLLED FROM ENTERING THE STORM DRAINAGE SYSTEM, THEN IT SHALL BE PUMPED BACK ONTO THE SITE, CONTAINED, AND DISPOSED OF PROPERLY.

INSTALL SEDIMENT CONTROLS

1. THE DUFF LAYER, NATIVE TOPSOIL AND NATURAL VEGETATION SHALL BE RETAINED IN AN UNDISTURBED STATE TO THE MAXIMUM EXTENT PRACTICABLE.
2. PRIOR TO LEAVING A CONSTRUCTION SITE, SURFACE WATER RUNOFF FROM DISTURBED AREAS SHALL PASS THROUGH A SEDIMENT BASIN/TRAP OR OTHER APPROPRIATE AND APPROVED SEDIMENT REMOVAL BMP.
3. BMPs INTENDED TO TRAP SEDIMENT ON SITE SHALL BE CONSTRUCTED AS ONE OF THE FIRST STEPS IN GRADING. THESE BMPs SHALL BE FUNCTIONAL BEFORE OTHER LAND DISTURBING ACTIVITIES TAKE PLACE.
4. EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS SHALL BE SEEDED AND MULCHED.

STABILIZE SOILS

1. EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY APPLICATION OF EFFECTIVE BMPs THAT PROTECT THE SOIL FROM THE EROSIIVE FORCES OF RAINDROPS, FLOWING WATER, AND WIND. THE GENERAL PERMIT REQUIRES THAT ALL GRADED AREAS THAT ARE AT FINAL GRADE MUST BE SEEDED AND MULCHED WITHIN 7 DAYS AND AREAS THAT WILL NOT BE WORKED AGAIN FOR 21 DAYS OR MORE MUST BE SEEDED AND MULCHED WITHIN 7 DAYS.
2. APPLICABLE PRACTICES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY AND PERMANENT SEEDING, SOODING, MULCHING, EROSION CONTROL FABRICS AND MATTING, SOIL APPLICATION OF POLYACRYLAMIDE (PAM), THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED, AND DUST CONTROL.
3. SELECTED SOIL STABILIZATION MEASURES SHALL BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND ESTIMATED DURATION OF USE.
4. SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT TRAPPING MEASURES.
5. LINEAR CONSTRUCTION ACTIVITIES SUCH AS RIGHT-OF-WAY AND EASEMENT CLEARING, ROADWAY DEVELOPMENT, PIPELINES, AND TRENCHING FOR UTILITIES, SHALL BE CONDUCTED TO MEET THE SOIL STABILIZATION TIMEFRAME REQUIREMENTS. CONTRACTORS SHALL INSTALL THE BEDDING MATERIALS, ROADBEDS, STRUCTURES, PIPELINES OR UTILITIES AND RE-STABILIZE THE DISTURBED SOILS SO THAT THE 7 DAY REQUIREMENTS ARE MET.

PROTECT SLOPES

1. THE GENERAL PERMIT PROHIBITS UPSLOPE RUNOFF FROM FLOWING DOWN FILL SLOPES. CONTAIN FILL RUNOFF WITH TEMPORARY BERMS AND IN PIPES, SLOPE DRAINS OR STABILIZED CHANNELS.
2. DESIGN, CONSTRUCT AND PHASE CUT AND FILL SLOPES IN A MANNER THAT WILL MINIMIZE EROSION.
3. CONSIDER SOIL TYPE AND ITS POTENTIAL FOR EROSION.
4. REDUCE SLOPE RUNOFF VELOCITIES BY REDUCING CONTINUOUS LENGTH OF SLOPE WITH BENCHES AND DIVERSIONS, REDUCE SLOPE STEEPNESS, AND ROUGHEN SLOPE SURFACE.
5. DIVERT UPSLOPE DRAINAGE AND RUN-ON WATERS WITH INTERCEPTORS AT TOP OF SLOPE. SURFACE WATER FROM OFFSITE SHOULD BE HANDLED SEPARATELY FROM SURFACE WATER GENERATED ON THE SITE. DIVERSION OF OFFSITE SURFACE WATER AROUND THE SITE MAY BE A VIABLE OPTION, DIVERTED FLOWS MUST BE REDIRECTED TO THE NATURAL DRAINAGE LOCATION AT OR BEFORE THE PROPERTY BOUNDARY.
6. PROVIDE DRAINAGE TO REMOVE GROUND WATER INTERSECTING THE SLOPE SURFACE OF EXPOSED SOIL AREAS.
7. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS.
8. STABILIZE SOILS ON SLOPES.

PROTECT DRAIN INLETS

1. STORM DRAIN INLETS OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SURFACE WATER RUNOFF DOES NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR TREATED TO REMOVE SEDIMENT.
2. APPROACH ROADS SHALL BE KEPT CLEAN.
3. INLETS SHOULD BE INSPECTED WEEKLY AT A MINIMUM AND DAILY DURING STORM EVENTS. INLET PROTECTION DEVICES SHOULD BE CLEANED OR REMOVED AND REPLACED BEFORE 6-INCHES OF SEDIMENT CAN ACCUMULATE.

CONVEY STORM WATER IN NON-EROSIVE MANNER

1. POINTS OF DISCHARGE AND RECEIVING STREAMS SHALL BE PROTECTED FROM EROSION DUE TO INCREASES IN THE VOLUME, VELOCITY AND PEAK FLOW RATE OF SURFACE WATER RUNOFF FROM THE PROJECT SITE.
2. DESIGN AND STABILIZE ANY STORMWATER CONVEYANCE FOR EXPECTED FLOWS.
3. CONSIDER ANY LOCAL GOVERNMENT REQUIREMENTS FOR STORMWATER MANAGEMENT.

CONTROL OTHER POLLUTANTS

1. ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF SURFACE WATER. WOODY DEBRIS MAY BE CHOPPED AND SPREAD ON SITE.
2. COVER, CONTAINMENT AND PROTECTION FROM VANDALISM SHALL BE PROVIDED FOR ALL CHEMICALS, LIQUID PRODUCTS, PETROLEUM PRODUCTS AND NON-INERT WASTES PRESENT ON THE SITE.
3. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO SURFACE WATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. EMERGENCY REPAIRS MAY BE PERFORMED ON-SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
4. WHEEL WASH OR TIRE BATH WASTEWATER SHALL BE DISCHARGED TO A SEPARATE ON-SITE TREATMENT SYSTEM OR TO THE SANITARY SEWER.
5. APPLICATION OF AGRICULTURAL CHEMICALS INCLUDING FERTILIZERS AND PESTICIDES SHALL BE CONDUCTED IN A MANNER AND AT APPLICATION RATES THAT WILL NOT RESULT IN LOSS OF CHEMICAL TO SURFACE WATER RUNOFF. MANUFACTURERS' RECOMMENDATIONS FOR APPLICATION RATES AND PROCEDURES SHALL BE FOLLOWED.
6. BMPs SHALL BE USED TO PREVENT OR TREAT CONTAMINATION OF SURFACE WATER RUNOFF BY pH MODIFYING SOURCES. THESE SOURCES INCLUDE BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHING AND CURING WATERS, WASTE STREAMS GENERATED FROM CONCRETE GRINDING AND SAWING, EXPOSED AGGREGATE PROCESSES, AND CONCRETE PUMPING AND MIXER WASHOUT WATERS.

CONTROL DEWATERING

1. FOUNDATION, VAULT AND TRENCH DEWATERING WATER SHALL BE DISCHARGED INTO A CONTROLLED CONVEYANCE SYSTEM PRIOR TO DISCHARGE TO A SEDIMENT POND. CHANNELS MUST BE STABILIZED.
2. CLEAN, NON-TURBID DEWATERING WATER, SUCH AS WELL-POINT GROUND WATER, CAN BE DISCHARGED TO SYSTEMS TRIBUTARY TO STATE SURFACE WATERS, PROVIDED THE DEWATERING FLOW DOES NOT CAUSE EROSION OR FLOODING OF RECEIVING WATERS. THESE CLEAN WATERS SHOULD NOT BE ROUTED THROUGH SURFACE WATER SEDIMENT PONDS.
3. HIGHLY TURBID OR CONTAMINATED DEWATERING WATER FROM CONSTRUCTION EQUIPMENT OPERATION, OR WORK INSIDE A COFFERDAM SHALL BE HANDLED SEPARATELY FROM SURFACE WATER.

MAINTAIN BMPs

1. TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE AS STATED IN WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, DIVISION OF WATER AND WASTE MANAGEMENT, EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, 2006.
2. INSPECTION OF ALL EROSION AND SEDIMENTATION CONTROLS WITHIN DISTURBED AREAS WILL BE, AT A MINIMUM, PERFORMED ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. REPAIRS OR MAINTENANCE SHALL BE PERFORMED IMMEDIATELY TO BMPs A FINAL INSPECTION SHALL BE REQUESTED ONCE THERE IS UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVERAGE ESTABLISHED. TEMPORARY BMPs WILL BE REMOVED UPON ACHIEVING VEGETATIVE STABILIZATION. THE 70 PERCENT REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT A PERCENT OF THE SITE. DISTURBED AREAS NOT ATTAINING A UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVERAGE SHALL BE RE-SEEDED AS NEEDED UNTIL UNIFORM, PERENNIAL 70 PERCENT VEGETATIVE COVERAGE IS ESTABLISHED.
3. TEMPORARY EROSION AND SEDIMENT CONTROL BMPs SHOULD BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL RESULTING FROM REMOVAL OF BMPs OR VEGETATION SHALL BE PERMANENTLY STABILIZED.

MANAGE THE PROJECT

1. PHASING OF CONSTRUCTION - DEVELOPMENT PROJECTS SHALL BE PHASED IN ORDER TO PREVENT THE TRANSPORT OF SEDIMENT FROM THE DEVELOPMENT SITE DURING CONSTRUCTION, UNLESS THE PROJECT ENGINEER CAN DEMONSTRATE THAT CONSTRUCTION PHASING IS INFEASIBLE. RE-VEGETATION OF EXPOSED AREAS AND MAINTENANCE OF THAT VEGETATION SHALL BE AN INTEGRAL PART OF THE CLEARING ACTIVITIES FOR ANY PHASE.
2. CLEARING AND GRADING ACTIVITIES FOR DEVELOPMENTS SHALL BE PERMITTED ONLY IF CONDUCTED PURSUANT TO AN APPROVED SITE DEVELOPMENT PLAN (E.G., SUBDIVISION APPROVAL) THAT ESTABLISHES AREAS OF CLEARING, GRADING, CUTTING, AND FILLING. WHEN ESTABLISHING CLEARING AND GRADING AREAS, CONSIDERATION SHOULD BE GIVEN TO MINIMIZING REMOVAL OF EXISTING TREES AND DISTURBANCE AND COMPACTION OF NATIVE SOILS. ANY AREAS REQUIRED TO PRESERVE CRITICAL OR SENSITIVE AREAS, AND BUFFERS, SHALL BE DELINEATED ON BOTH THE PLANS AND THE SITE.
3. COORDINATION WITH UTILITIES AND OTHER CONTRACTORS - THE PRIMARY PROJECT MANAGER SHALL EVALUATE, WITH INPUT FROM UTILITIES AND OTHER CONTRACTORS, THE SURFACE WATER MANAGEMENT REQUIREMENTS FOR THE ENTIRE PROJECT, INCLUDING THE UTILITIES, WHEN PREPARING THE SCP.
4. INSPECTION AND MONITORING - ALL BMPs SHALL BE INSPECTED, MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. WHENEVER INSPECTION AND/OR MONITORING REVEALS THAT THE BMPs IDENTIFIED IN THE SCP ARE INADEQUATE, THE SCP SHALL BE MODIFIED, AS APPROPRIATE, IN A TIMELY MANNER.
5. REPORTING - REPORT SPILLAGE OR DISCHARGE OF POLLUTANTS WITHIN 24-HOURS.
6. EQUIPMENT MAINTENANCE - MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, SOLVENT AND DE-GREASING CLEANING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO SURFACE WATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. CONTAMINATED SURFACES SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY DISCHARGE OR SPILL INCIDENT. CONTAMINATED SOIL MUST BE DISPOSED OF PROPERLY. EMERGENCY REPAIRS MAY BE PERFORMED ON-SITE USING TEMPORARY PLASTIC PLACED BENEATH AND, IF RAINING, OVER THE VEHICLE.
7. MAINTENANCE OF THE SCP - THE SCP SHALL BE RETAINED ON-SITE. THE SCP SHALL BE MODIFIED WHENEVER THERE IS A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE OF ANY BMP. THE DEP MUST BE NOTIFIED OF ANY CHANGES TO THE CONSTRUCTION SWPP. DEPENDING ON THE SIGNIFICANCE OF THE REVISION, A PERMIT MODIFICATION MAY NEED TO BE SUBMITTED TO THE DEP.

STABILIZATION

1. THE CONSTRUCTION SITE SHOULD BE STABILIZED AS SOON AS POSSIBLE AFTER COMPLETION. ESTABLISHMENT OF FINAL COVER MUST BE INITIATED NO LATER THAN 7 DAYS AFTER REACHING FINAL GRADE. A NOTICE OF TERMINATION MUST BE FILED WITH DEP WHEN THE SITE REACHES FINAL STABILIZATION. FINAL STABILIZATION MEANS THAT ALL SOIL-DISTURBING ACTIVITIES ARE COMPLETED, AND THAT EITHER A PERMANENT VEGETATIVE COVER WITH A DENSITY OF 70% OR GREATER HAS BEEN ESTABLISHED OR THAT THE SURFACE HAS BEEN STABILIZED BY HARD COVER SUCH AS PAVEMENT OR BUILDINGS. IT SHOULD BE NOTED THAT THE 70% REQUIREMENT REFERS TO THE TOTAL AREA VEGETATED AND NOT JUST A PERCENT OF THE SITE.

NO.	DATE	BY	APP'D.	DESCRIPTION

H-527 PIPELINE MAINTENANCE PROJECT

STORMWATER POLLUTION PREVENTION DETAILS
DODDRIDGE CO.
WEST UNION, WV

EQUITRANS, L.P.
2200 ENERGY DRIVE
CANONSBURG, PENNSYLVANIA 15317

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APPROVED BY:	MEB
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REVISIONS:

TEMPORARY SEEDING SPECIFICATIONS:

PERMANENT SEEDING SPECIFICATIONS:

PERMANENT SEEDING SPECIFICATIONS (CONT.)

LIMING RAW, GROUND AGRICULTURAL LIMESTONE CONTAINING MORE THAN 80 PERCENT CALCIUM CARBONATES (ADJUST PH LEVELS TO 6.5 TO 7.0), APPLY AT A RATE OF 3 TONS PER ACRE AT 100% EFFECTIVE NEUTRALIZING VALUE (% ENV), UNLESS OTHERWISE INDICATED BY SOIL TESTS.

TOPSOIL 4" MIN. TOPSOIL SHALL BE PLACED ON ALL DISTURBED AREAS FOR SITE RECLAMATION.

SEEDING RATE PERMANENT SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:

COMMERCIAL FERTILIZER IN ABSENCE OF A SOIL TEST, USE 300 POUNDS PER ACRE OF 10-20-20 MIXED INTO SEEDBED PRIOR TO SEEDING, OR IN A TANK WITH SEED WHEN HYDROSEEDING. ADJUST AS NECESSARY BASED UPON SEASON, DISTANCE TO WETLANDS AND STREAMS AND SOIL TEST RESULTS.

COMMERCIAL FERTILIZER IN ABSENCE OF A SOIL TEST, USE 300 POUNDS PER ACRE OF 10-20-20 MIXED INTO SEEDBED PRIOR TO SEEDING, OR IN A TANK WITH SEED WHEN HYDROSEEDING.

Table with 2 columns: Seeding Rate and Rate (LBS / ACRE). Rows include: NON - AGRICULTURAL UPLAND (175), HAYFIELD, PASTURELAND, AND CROPLAND (200), RESIDENTIAL FLOODPLAIN (250), DROUGHTY SITES (150), STRIP MINED OR OTHER MINED/QUARRIED (175).

MULCH GRASS HAY OR STRAW. FEED QUALITY HAY OR STRAW. WEED FREE STRAW OR GRASS HAY OR CEREAL STRAW FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT 1947...

INOCULANT INOCULANT FOR TREATING LEGUMINOUS SEEDS SHALL BE A STANDARD COMMERCIAL PRODUCT CONSISTING OF A SUITABLE CARRIER CONTAINING A CULTURE OF NITROGEN FIXING BACTERIA SPECIFIC FOR SEEDS TO BE INOCULATED.

PREPARATION OF SEEDING

GRADE AS NECESSARY TO BRING SUBGRADE TO A TRUE, SMOOTH SLOPE PARALLEL TO AND SIX INCHES BELOW FINISHED GRADE. PLACE TOPSOIL OVER SPECIFIED AREAS TO A DEPTH SUFFICIENTLY GREATER THAN SIX (6) INCHES SO THAT AFTER SETTLEMENT AND LIGHT ROLLING, THE COMPLETE WORK WILL CONFORM TO LINES, GRADES AND ELEVATIONS SHOWN.

SEED MIXTURE SEED MIXTURE SHALL BEAR A GUARANTEED STATEMENT OF ANALYSIS AND SHALL BE COMPOSED OF THE FOLLOWING VARIETIES AND MIXED IN THE PROPORTIONS SPECIFIED:

MULCH GRASS HAY OR STRAW. FEED QUALITY HAY OR STRAW. WEED FREE STRAW OR GRASS HAY OR CEREAL STRAW FREE FROM MATURE SEED-BEARING STALKS OR ROOTS OF PROHIBITED OR NOXIOUS WEEDS AS DEFINED BY THE PENNSYLVANIA SEED ACT 1947...

FERTILIZER AND AGRICULTURAL LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE SOIL BY ROTOTILLING OR OTHER METHOD TO A MINIMUM DEPTH OF FOUR (4) INCHES. THE ENTIRE SURFACE SHALL THEN BE REGRADED AND ROLLED. AREAS TO BE SEEDING SHALL THEN BE LOOSENEED TO A DEPTH OF TWO (2) INCHES.

TEMPORARY SEED MIXTURE (TABLE A)

Table with 4 columns: Species, Proportion by Weight, Minimum Purity, Minimum Germination. Rows: ANNUAL RYEGRASS, WINTER WHEAT, CEREAL RYEGRASS.

SEED MIXTURE SEED MIXTURE SHALL BEAR A GUARANTEED STATEMENT OF ANALYSIS AND SHALL BE COMPOSED OF THE FOLLOWING VARIETIES AND MIXED IN THE PROPORTIONS SPECIFIED:

PERMANENT SEED MIX BY LAND COVER TYPE (TABLE B)

Table with 4 columns: Land Cover Type, Proportion by Weight, Minimum Purity, Minimum Germination. Rows include: NON-AGRICULTURAL UPLAND, TALL FESCUE, PERENNIAL RYEGRASS, LADINO CLOVER, BIRDSFOOT - TREFOLI UPRIGHT VARIETY (INOCULATED), RED TOP, HAYFIELD, PASTURELAND, AND CROPLAND MIX, ORCHARD GRASS, TIMOTHY, BIRDSFOOT TREFOLI (INOCULATED), LADINO CLOVER.

NOTE: USE LANDOWNER LEASE STIPULATED MIX IF APPLICABLE

Table with 4 columns: Land Cover Type, Proportion by Weight, Minimum Purity, Minimum Germination. Rows include: RESIDENTIAL MIX (UTILITY ROW IN AND AROUND MOWED YARDS), CREEPING RED FESCUE, KENTUCKY BLUEGRASS, FLU PERENNIAL RYEGRASS, ASP 6008 PERENNIAL RYEGRASS, ASP 6004 PERENNIAL RYEGRASS.

Table with 4 columns: Land Cover Type, Proportion by Weight, Minimum Purity, Minimum Germination. Rows include: FLOODPLAIN (RIPARIAN BUFFER) MIX (ERNST CONSERVATION SEED MIX ERNM# #154), DEERTONGUE, "TIOGA", VIRGINIA WILDORIE, BIG BLUESTEM, "NIAGARA", FOX SEDGE, PA ECOTYPE, SWITCHGRASS, "CARTHAGE", BLUE VERVAIN, PA ECOTYPE, BONESSET, PA ECOTYPE, GREAT BLUE LOBELIA, PA ECOTYPE, FRINGED (NODDING) SEDGE, PA ECOTYPE, OXEYE SUNFLOWER, PA ECOTYPE, SHOWY TICKTREFOLI, PA ECOTYPE (INOCULATED), JOE PYE WEED, PA ECOTYPE, SWAMP MILKWEED, PA ECOTYPE, PURPLESTEM ASTER, PA ECOTYPE, WILD BERGAMOT, PA ECOTYPE.

DROUGHTY SITES MIX (AREAS WHERE ROCK IS BLASTED OR DUG, USUALLY IN FORESTED AREAS WITH ACID SOILS)

Table with 4 columns: Land Cover Type, Proportion by Weight, Minimum Purity, Minimum Germination. Rows include: HARD FESCUE, SHEEP FESCUE, CHEWING FESCUE, CREEPING RED FESCUE, ORCHARD GRASS, WHITE CLOVER, RED TOP.

STRIP MINED OR OTHER MINED/QUARRIED SITE MIX FOR SITES LACKING PRE-SMCRA RECLAMATION STANDARDS (AREAS WHERE COAL OR ROCK WAS PREVIOUSLY MINED WITH ACID SOILS OR CONDITIONS WITH AN ACIDIFYING COMPONENT)

Table with 4 columns: Land Cover Type, Proportion by Weight, Minimum Purity, Minimum Germination. Rows include: TALL FESCUE (FAWN VARIETY), DEER TONGUE GRASS, BIRDSFOOT TREFOLI (INOCULATED), ORCHARD GRASS, CHEWINGS FESCUE, CREEPING RED FESCUE, HARD FESCUE, ALSIKE CLOVER, RED TOP.

GENERAL NOTES

GRASS SEED: SEED CONFORMING TO THE WEST VIRGINIA DEPARTMENT OF AGRICULTURE RULE, TITLE 81 LEGISLATIVE RULES, SERIES 8 WEST VIRGINIA SEED LAW, FILED ON APRIL 30, 2004 WITH AN EFFECTIVE DATE OF JULY 1, 2004. MEET ALL OTHER APPLICABLE REGULATIONS OF THE WEST VIRGINIA DEPARTMENT OF AGRICULTURE. PROVIDE SEEDS THAT HAVE BEEN TESTED AND APPROVED FOR THE SPECIFIED SEED FORMULA'S PURITY, GERMINATION, AND WEED SEED ANALYSIS LIMITS AND OTHER APPLICABLE DEPARTMENT OF AGRICULTURE RULES FOR SEED TESTING.

GENERAL SEED NOTES: LEGUME SEED SHOULD BE INOCULATED APPROPRIATE TO THE SPECIES. SEED OF THE LESPEDEZAS, THE CLOVERS AND THE CROWN VETCH SHOULD BE SCARIFIED TO PROMOTE UNIFORM GERMINATION. APPLY SEED UNIFORMLY WITH A BROADCAST SEEDER, DRILL, CULT-PACKER SEEDER OR HYDROSEEDER. SEEDING DEPTH SHOULD BE A QUARTER TO HALF INCH. TO AVOID POOR GERMINATION RATES AS A RESULT OF SEED DAMAGE DURING HYDROSEEDING, IT IS RECOMMENDED THAT IF A MACHINERY BREAKDOWN OF 30 MINUTES TO TWO HOURS OCCURS, 50 PERCENT MORE SEED BE ADDED TO THE TANK, BASED ON THE PROPORTION OF THE SLURRY REMAINING IN THE TANK. BEYOND TWO HOURS, A FULL RATE OF NEW SEED MAY BE NECESSARY. SURFACE ROUGHENING IS PARTICULARLY IMPORTANT WHEN HYDROSEEDING, AS A ROUGHENED SLOPE WILL PROVIDE SOME NATURAL COVERAGE FOR LIME, FERTILIZER AND SEED. LEGUME INOCULANTS SHOULD BE APPLIED AT FIVE TIMES THE RECOMMENDED RATE WHEN THE INOCULANT IS INCLUDED IN THE HYDROSEEDER SLURRY.

THE FOOD PLOT MIX IS NO LONGER AN OPTION UNLESS SPECIFIED BY LEASE STIPULATION. CHEVRON SEED MIXES HAVE PLANT SPECIES USED IN FOOD PLOTS. CHICORY, CLOVERS, AND OTHER PERENNIAL HERBS CAN BE UTILIZED AS REQUIRED.

FLOODPLAIN OPTIMAL SEEDING MONTHS - OCTOBER THROUGH MAY IN FULL SUN OR PARTIAL SHADE.

BEST SEEDING PERIODS - MARCH 15 - MAY 31 AND AUGUST 1 TO SEPTEMBER 15.

GOOD SEEDING PERIOD (DORMANT SEEDING) - DECEMBER 1 TO MARCH 14.

HIGH RISK PERIOD (MOISTURE STREE LIKELY) - JUNE 1 TO JULY 31.

HIGH RISK PERIOD (FREEZE DAMAGE TO YOUNG SEEDLINGS) - OCTOBER 1 TO NOVEMBER 30.

WEATHER LIMITATIONS: PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT.

TEMPORARY SEEDING: TEMPORARY SEED WHERE EXPOSED SOIL SURFACES ARE NOT TO BE FINE-GRADED FOR PERIODS OF LONGER THAN 21 DAYS. SUCH AREAS INCLUDE DENUDED AREAS, SOIL STOCKPILES, DIKES, DAMS, SIDES OF SEDIMENT BASINS, TEMPORARY ROAD BANKS, ETC. A PERMANENT VEGETATIVE COVER SHALL BE APPLIED TO AREAS LEFT UNWORKED FOR A PERIOD OF MORE THAN SIX MONTHS.

EMBANKMENTS AND CUTS CONSTRUCTED DURING THE WINTER SEASON: EMBANKMENTS AND CUTS CONSTRUCTED DURING THE WINTER SEASON SHALL BE TREATED AS FOLLOWS:

MULCH ALONE - FOR EMBANKMENTS OR CUTS 1.5 TO 1 OR FLATTER, SUSCEPTIBLE TO CRITICAL EROSION DURING PERIODS OF COLD WEATHER, THE OWNER MAY REQUIRE A FIVE TON PER ACRE APPLICATION GRASS HAY OR CEREAL STRAW FREE OF TROUBLESOME WEED SEEDS. A CHEMICAL MULCH BINDER OR OTHER TACKER SHALL BE USED FOR ANCHORING MULCH UPON OWNER APPROVAL. WHEN THE WEATHER BECOMES FAVORABLE IN THE SPRING, THESE AREAS SHALL BE SEEDING USING THE NORMAL APPLICATION RATES OF SEED, FERTILIZER AND LIME. IF ADDITIONAL MULCH IS NEEDED, WOOD CELLULOSE FIBER, HAY OR STRAW SHALL BE USED; THE RATE OF APPLICATION AND AREAS TO BE MULCHED WITH WOOD CELLULOSE FIBER, HAY OR STRAW SHALL BE AS DETERMINED BY THE OWNER.

TEMPORARY SEED MIX - IF REQUIRED BY THE OWNER. THE ABOVE AREAS SHALL ALSO BE SEEDING WITH A WINTER STABILIZATION MIX. SUCH MIX SHALL BE ONE HUNDRED PERCENT (100%) WINTER WHEAT APPLIED AT SEVENTY FIVE (75) POUNDS PER ACRE OR NINETY (90) POUNDS PER ACRE ON ADVERSE SITES.

Table with 5 columns: NO., DATE, DWN., CHGD., APRD., and DESCRIPTION. Row 1: NO. 0, DATE 6/17/2019, DWN., CHGD., APRD., DESCRIPTION: REVISIONS:

H-527 PIPELINE MAINTENANCE PROJECT
STORMWATER POLLUTION PREVENTION DETAILS
WEST UNION, WV
DODDRIDGE CO.
EQUITRANS, L.P.
2200 ENERGY DRIVE
CANONSBURG, PENNSYLVANIA 15317

I DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THE STORMWATER POLLUTION PREVENTION PLAN AND POST CONSTRUCTION BMPs ARE TRUE AND CORRECT, REPRESENT ACTUAL FIELD CONDITIONS AND ARE IN ACCORDANCE WITH THE DEPARTMENT'S RULES AND REGULATIONS. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT.

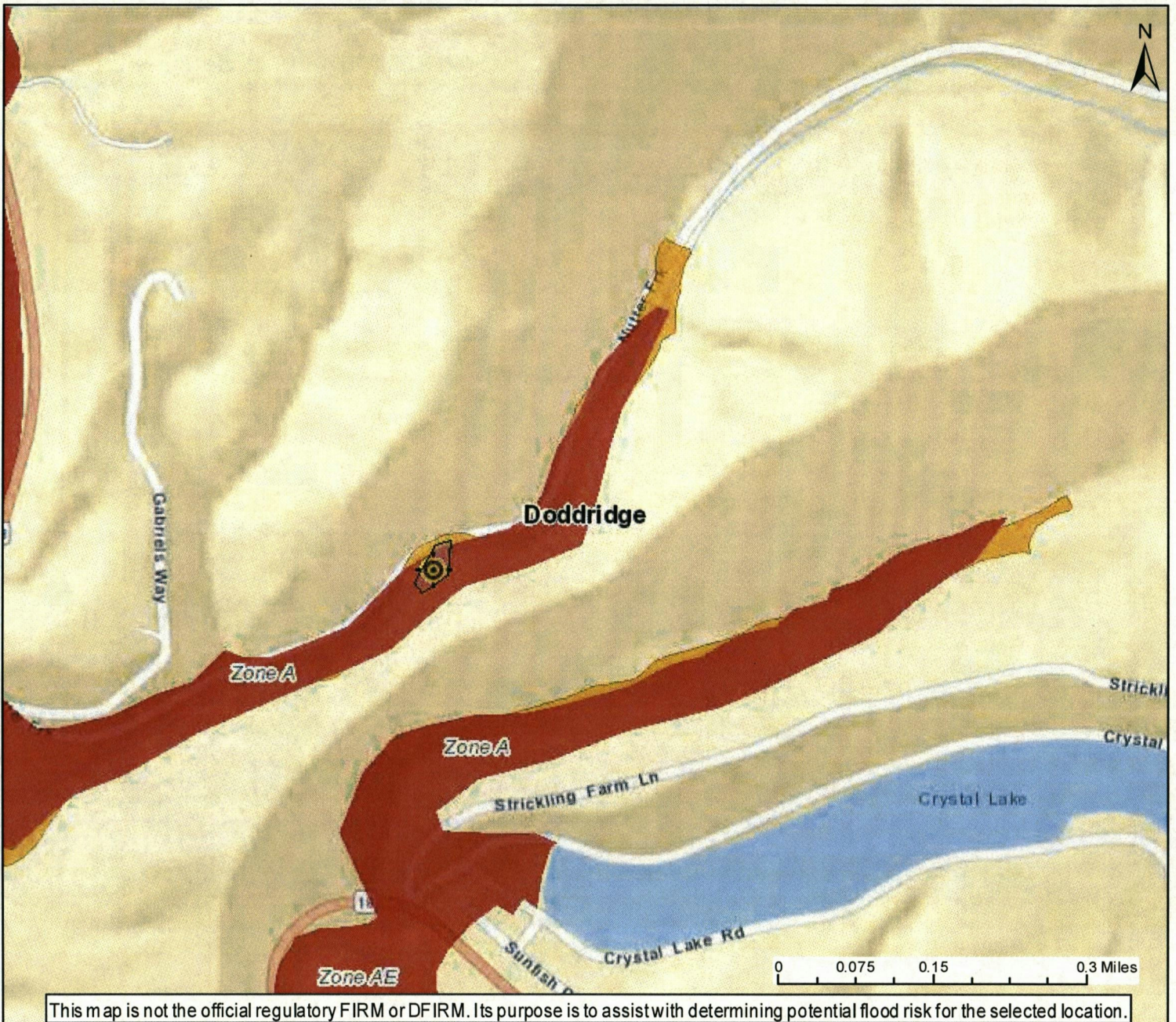
Form with fields: DRAWN BY: GATEWAY, CHECKED BY: JAB, APPROVED BY: MEB, DATE: 6/17/2019, SCALE: AS SHOWN, SHT. NO. 1.12

8 1.03 TEMPORARY SEEDING SPECIFICATIONS

9 1.03 PERMANENT SEEDING SPECIFICATIONS

FIRM MAPPING

WV Flood Map H527 Site 1



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Flood Info Location

User Notes:

Map created on 5/7/2019

- | | | | |
|-----------------------------------|-------------------------------------|--|------------------------------------|
| | FEMA Effective Levee-Protec... Area | | Advisory Zone A or Updated Zone AE |
| FEMA Effective Flood plain | | | |
| | Floodway | | |
| | Flood Hazard Zone | | |

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:

Location is **WITHIN** the FEMA 100-year floodplain.
Advisory Flood Heights available.

Flood Hazard Zone: A (Advisory A)

Stream: Nutter Fork

Watershed (HUC8): Little Musringum-Middle Island (5030

FEMA Flood Map: 54017C0110CNFHEFF: 10/4/2011

Elevation: About 754 ft (Source: SAMS 2003)

Community Name: Doddridge County

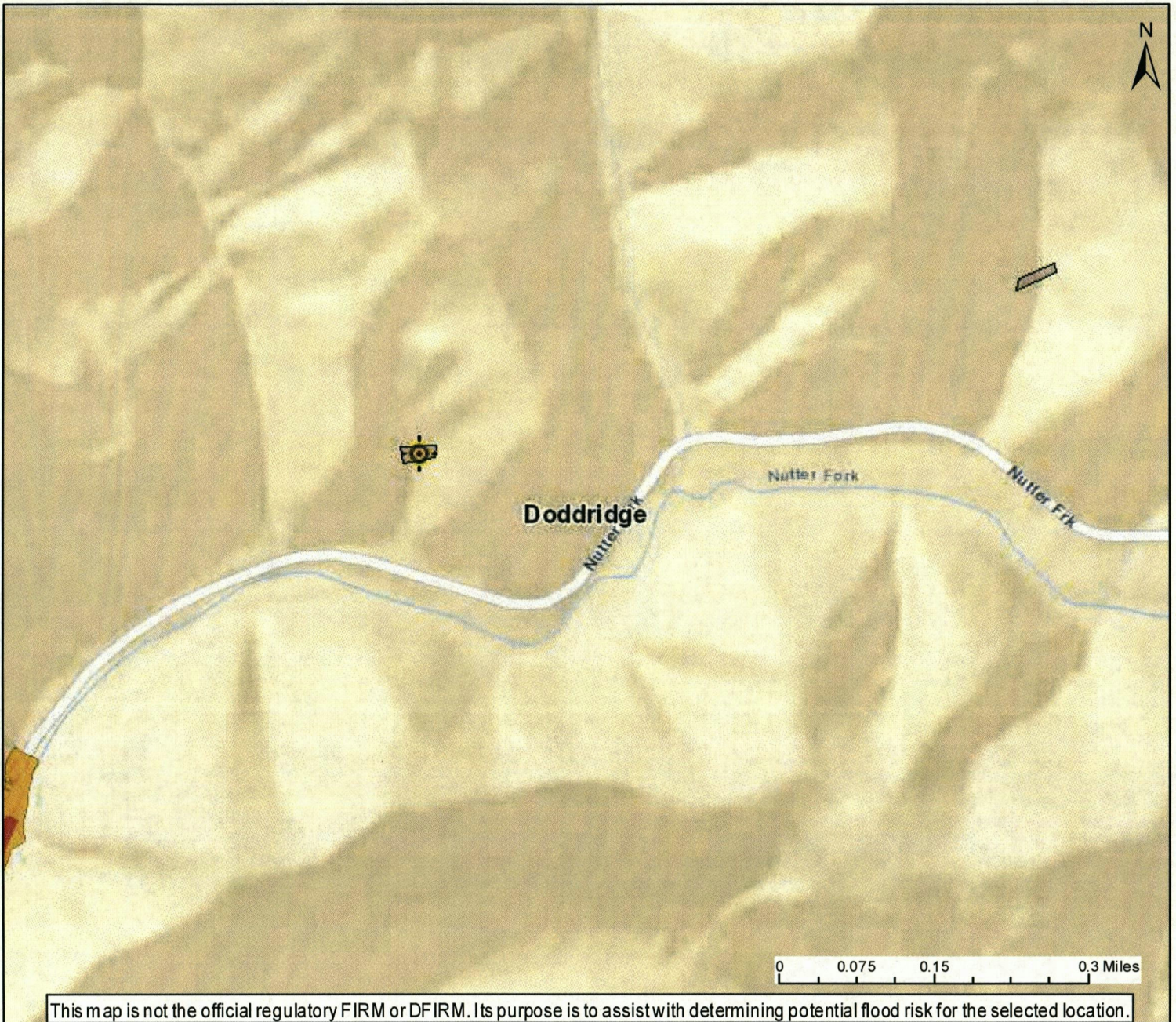
Community ID: 540024

Location (long, lat): (-80.802000, 39.329718)

Parcel ID: 09-08-0006-0001-0000

Address: 4978 WV RT 18 N, WEST UNION, WV, 26456





WV Flood Map H527 Site 2



Flood Info Location

User Notes:

Map created on 5/7/2019

- | | | | |
|---|-------------------------------------|---|------------------------------------|
|  | FEMA Effective Levee-Protec... Area |  | Advisory Zone A or Updated Zone AE |
| FEMA Effective Floodplain | | | |
|  | Floodway | | |
|  | Flood Hazard Zone | | |

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. **WV Flood Tool** (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:

Location is **NOT WITHIN** any identified flood hazard area. Unmapped flood hazard areas may be present.

Flood Hazard Zone: Out of Flood Zone

Stream: N/A

Watershed (HUC8): Little Musringum-Middle Island (5030

FEMA Flood Map: 54017C0110CNFHEFF: 10/4/2011

Elevation: About 852 ft (Source: SAMS 2003)

Community Name: Doddridge County

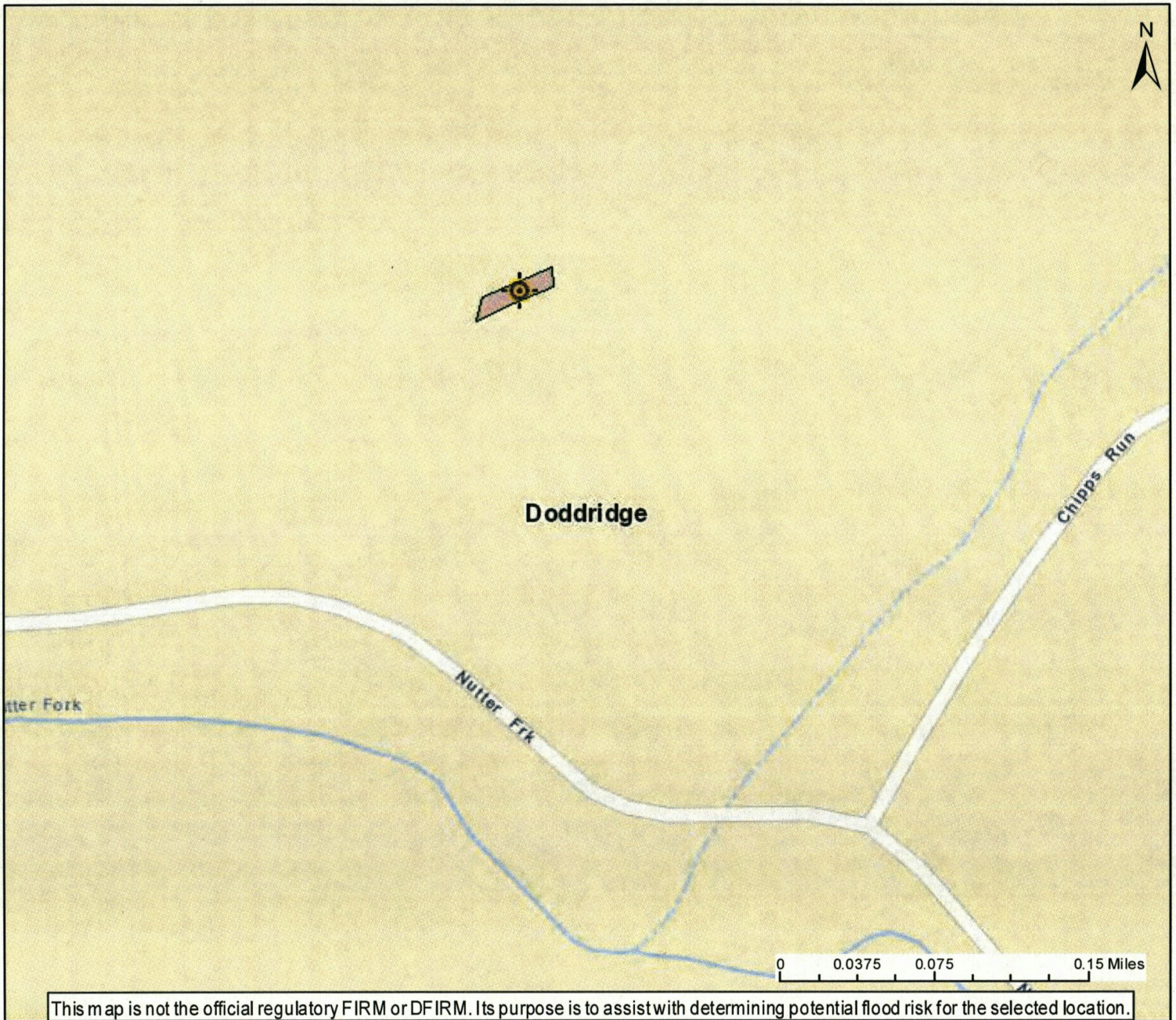
Community ID: 540024

Location (long, lat): (-80.793011, 39.336617)

Parcel ID: 09-08-0004-0013-0000

Address: multiple addresses

WV Flood Map H527 Site 3





This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.



Map created on 5/7/2019

Flood Info Location

User Notes:

 FEMA Effective Levee-Protec... Area	 Advisory Zone A or Updated Zone AE
---	--

FEMA Effective Floodplain

 Floodway	 Flood Hazard Zone
--	---

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:
Location is **NOT WITHIN** any identified flood hazard area. Unmapped flood hazard areas may be present.

Flood Hazard Zone: Out of Flood Zone

Stream: N/A

Watershed (HUC8): Little Musringum-Middle Island (5030)

FEMA Flood Map: 54017C0110CNFHEFF: 10/4/2011

Elevation: About 842 ft (Source: SAMS 2003)

Community Name: Doddridge County

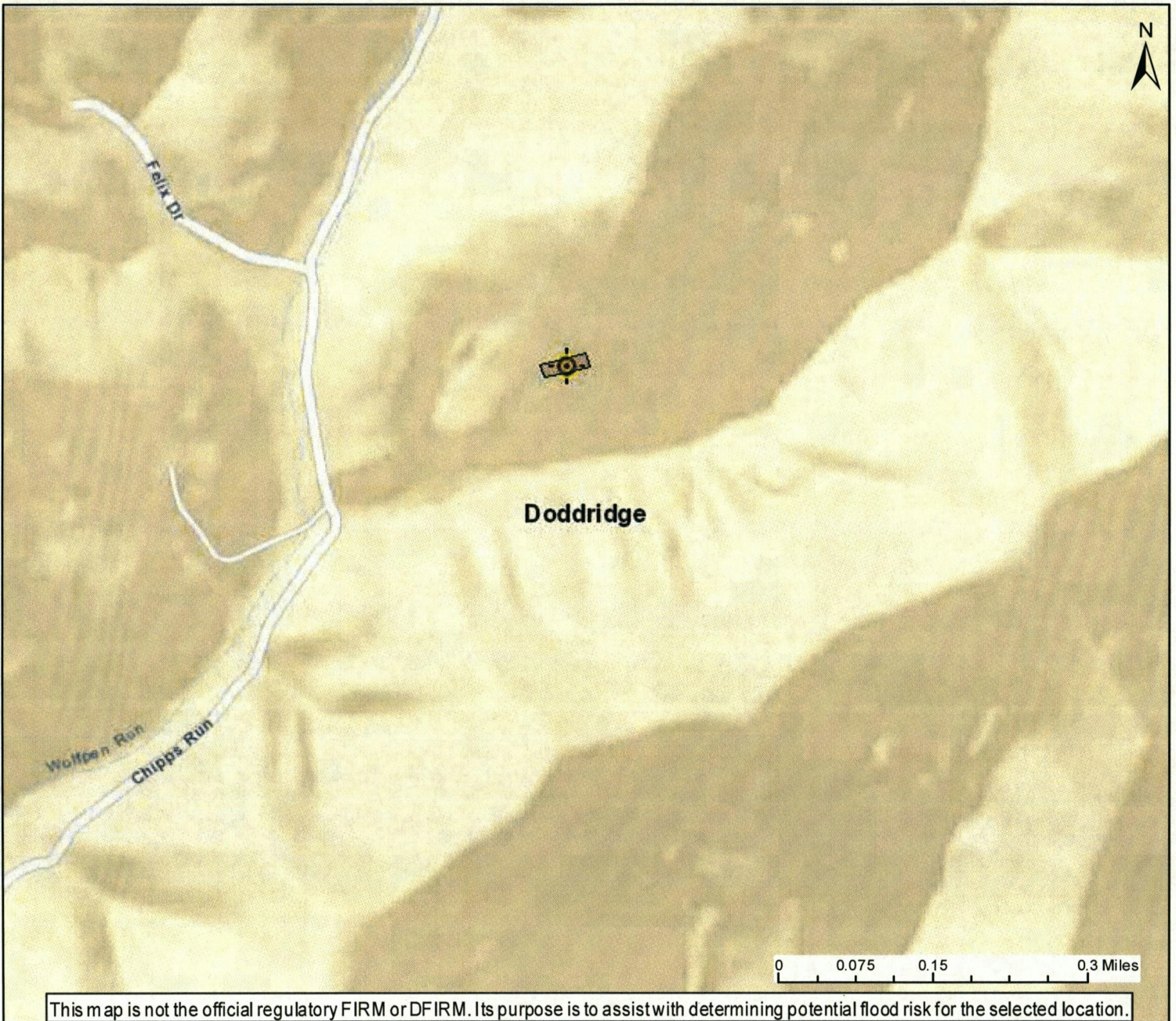
Community ID: 540024

Location (long, lat): (-80.784300, 39.338592)

Parcel ID: 09-08-0004-0014-0000

Address: 1581 NUTTER FRK, WEST UNION, WV, 26456

WV Flood Map H527 Site 4



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

<p>Flood Info Location</p> <p>FEMA Effective Levee-Protec... Area</p> <p>Floodplain</p> <ul style="list-style-type: none"> Floodway Flood Hazard Zone <p>Disclaimer:</p> <p>The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.</p>	<p>User Notes:</p> <p>Advisory Zone A or Updated Zone AE</p> <p style="text-align: right;"><i>Map created on 5/7/2019</i></p> <p>Flood Hazard Area: Location is NOT WITHIN any identified flood hazard area. Unmapped flood hazard areas may be present.</p> <p>Flood Hazard Zone: Out of Flood Zone</p> <p>Stream: N/A</p> <p>Watershed (HUC8): Little Musringum-Middle Island (5030)</p> <p>FEMA Flood Map: 54017C0110CNFHEFF: 10/4/2011</p> <p>Elevation: About 1001 ft (Source: SAMS 2003)</p> <p>Community Name: Doddridge County</p> <p>Community ID: 540024</p> <p>Location (long, lat): (-80.772119, 39.343462)</p> <p>Parcel ID: 09-08-0004-0018-0000</p> <p>Address: multiple addresses</p>
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WV Flood Map H527 Site 5



Doddridge



0 0.0375 0.075 0.15 Miles

This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.



Map created on 5/7/2019

Flood Info Location

User Notes:

-  FEMA Effective Levee-Protec... Area
-  Advisory Zone A or Updated Zone AE

FEMA Effective Floodplain

-  Floodway
-  Flood Hazard Zone

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:

Location is **NOT WITHIN** any identified flood hazard area. Unmapped flood hazard areas may be present.

Flood Hazard Zone: Out of Flood Zone

Stream: N/A

Watershed (HUC8): Little Musringum-Middle Island (5030

FEMA Flood Map: 54017C0110CNFHEFF: 10/4/2011

Elevation: About 970 ft (Source: SAMS 2003)

Community Name: Doddridge County

Community ID: 540024

Location (long, lat): (-80.753159, 39.348514)

Parcel ID: 09-03-0005-0028-0000

Address: 1009 BULLTOWN, WEST UNION, WV, 26456

WV Flood Map H527 Site 6





This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.



Map created on 5/7/2019

Flood Info Location

User Notes:

 FEMA Effective Levee-Protec... Area	 Advisory Zone A or Updated Zone AE
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FEMA Effective Floodplain

 Floodway	 Flood Hazard Zone
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Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. **WV Flood Tool** (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:
Location is **NOT WITHIN** any identified flood hazard area. Unmapped flood hazard areas may be present.

Flood Hazard Zone: Out of Flood Zone

Stream: N/A

Watershed (HUC8): Little Musringum-Middle Island (5030)

FEMA Flood Map: 54017C0130CNFHEFF: 10/4/2011

Elevation: About 939 ft (Source: SAMS 2003)

Community Name: Doddridge County

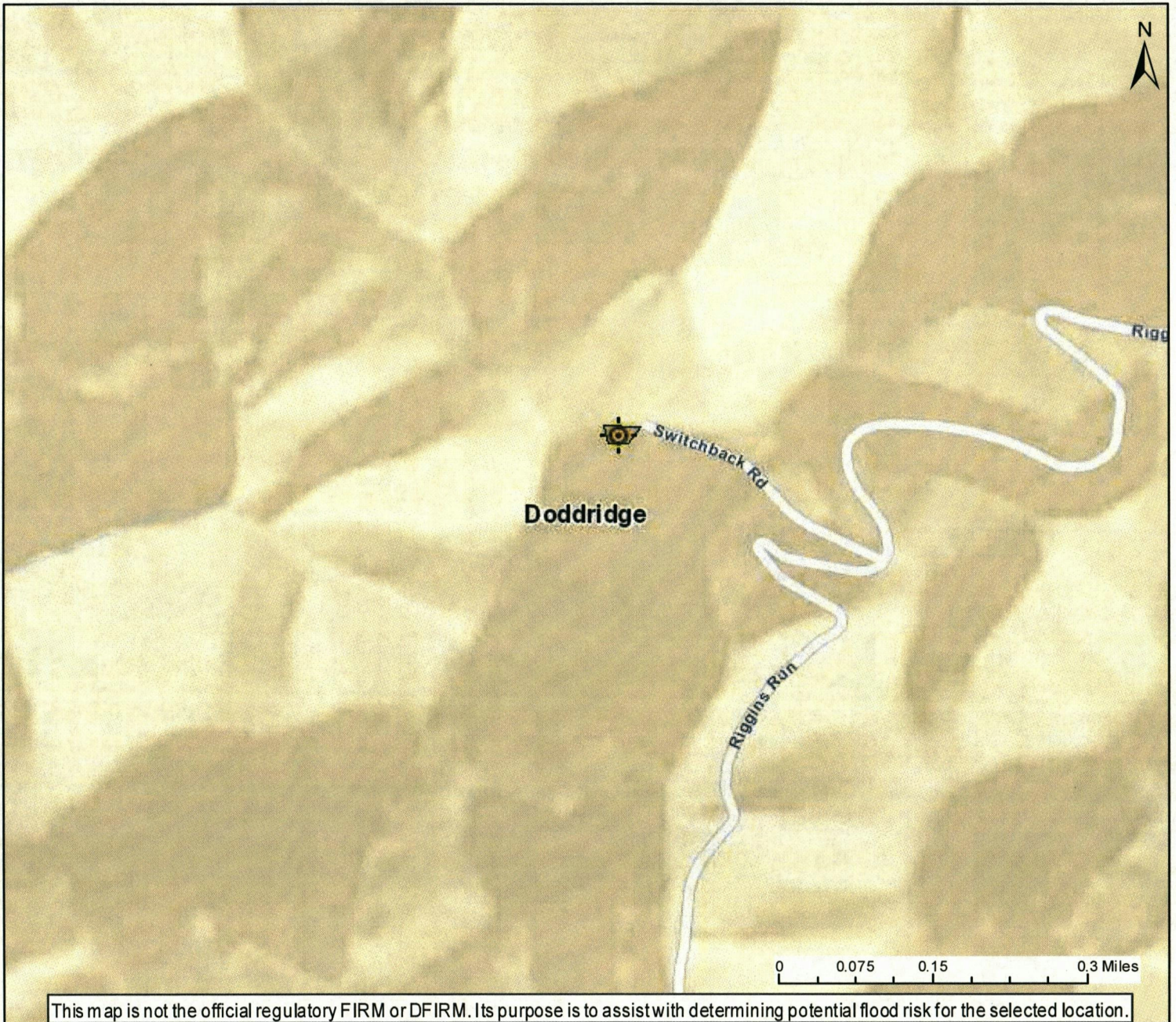
Community ID: 540024

Location (long, lat): (-80.747512, 39.350309)

Parcel ID: 09-03-0005-0029-0000

Address: N/A

WV Flood Map H527 Site 7







This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

Map created on 5/7/2019

Flood Info Location

User Notes:

- | | | | |
|---|-------------------------------------|---|------------------------------------|
|  | FEMA Effective Levee-Protec... Area |  | Advisory Zone A or Updated Zone AE |
|  | Floodway | | |
|  | Flood Hazard Zone | | |

Disclaimer:

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (<https://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

Flood Hazard Area:

Location is **NOT WITHIN** any identified flood hazard area. Unmapped flood hazard areas may be present.

Flood Hazard Zone: Out of Flood Zone

Stream: N/A

Watershed (HUC8): Little Musringum-Middle Island (5030

FEMA Flood Map: 54017C0135CNFHEFF: 10/4/2011

Elevation: About 1251 ft (Source: SAMS 2003)

Community Name: Doddridge County

Community ID: 540024

Location (long, lat): (-80.680314, 39.364696)

Parcel ID: 09-03-0006-0011-0002

Address: N/A

The Doddridge Independent

The Doddridge Independent PUBLISHER'S CERTIFICATE

I, Michael D. Zorn, Publisher of The Doddridge Independent, A newspaper of general circulation published in the town of West Union, Doddridge County, West Virginia, do hereby certify that:


Please take notice that on the (19th) of (June), 2019, (Equitrans Midstream) filed an application for a Floodplain Permit (#19-554) to develop land located at or about (Nutter Fork @ Route 18 N); Coordinates: 39.329800, -80.801950. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to

was published in The Doddridge Independent
2 times commencing on Friday, June 21, 2019 and
Ending on Friday, June 28, 2019 at the request of:

**George Eidel, Manager, Floodplain Manager for
Doddridge County Commission**


Given under my hand this Friday, June 28, 2019

The publisher's fee for said publication is:
\$ 31.05 1st Run/\$ 23.28 Subsequent Runs
This Legal Ad Total: \$ 54.33



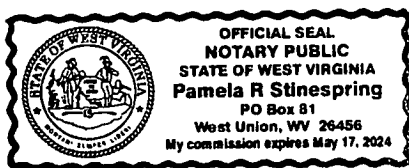
Michael D. Zorn
Publisher of The Doddridge Independent

Subscribed to and sworn to before me on
this date: 6/28/19



Notary Public in and for Doddridge County

My Commission expires on
The 17th day of MAY 20 24



Floodplain Public Notice • Legal Notice

Please take notice that on the (19th) of (June), 2019, (Equitrans Midstream) filed an application for a Floodplain Permit (#19-554) to develop land located at or about (Nutter Fork @ Route 18 N); Coordinates: 39.329800, -80.801950. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance to WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by (July 22, 2019) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 105 Court Street, Suite #3, West Union, WV 26456. This project is for the H527 Pipeline Maintenance Project

C2 6/21 - 6/28