



# 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: #18-522**

**Date Approved: August 27, 2018**

**Expires: August 27, 2019**

**Issued to: Equitrans, LP**

**POC: Josh Snedden**

**Company Address: 2200 Energy Drive Canonsburg, PA 15317**

**Project Address: 4073 WV Rt. 23N Salem**

**Firm: 54017C0155C**

**Lat/Long: 39.355666N, -80.573233W**

**Purpose of Development: H527 Sedalia Pig Launcher Project**

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

**Date: August 27, 2018**

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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

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7016 2070 0000 3170 2570

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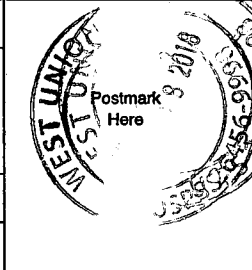
**OFFICIAL USE**

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  
Dean R. Pennington  
Street and Apt. No., or PO Box No.  
1203 East Run  
City, State, ZIP+4®  
West Union, WV 26456 18-522

PS Form 3800, April 2015 PSN 7530-02-000-0047 See Reverse for Instructions

7016 2070 0000 3170 2567

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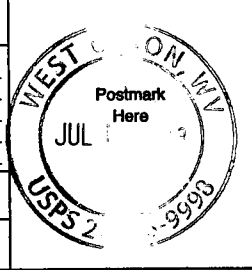
**OFFICIAL USE**

Certified Mail Fee  
\$ 3.95

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  
Woody J. Shaffer; Alicia A. Yeager  
Street and Apt. No., or PO Box No.  
4019 WV Rt. 25N  
City, State, ZIP+4®  
Salem, WV 26426 18-522

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.

**Woody J. Shaffer & Alicia A. Yeager**  
**4019 WV Rt. 23N**  
**Salem, WV 26426**



9590 9402 3685 7335 7560 95

2. Article Number (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*[Handwritten Signature]*  Agent  Addressee

B. Received by (Printed Name)

*Alicia Yeager-Shaffer*

C. Date of Delivery

*7/20/18*

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) |   |

USPS TRACKING#

CHARLESTON



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

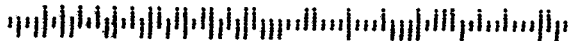
PM 1 L  
9590 9402 3685 7335 7560 95

**United States  
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box•

**Doddridge County Office of Emergency Management  
George Eidel, Floodplain Manager  
105 Court Street, Suite 3  
West Union, WV 26456**

18-522



**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.

**Dean R. Pennington**  
**1203 East Run**  
**West Union, WV 26456**



9590 9402 3685 7335 7560 88

2. Article Number (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*x May Schaefer*

- Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

7/20

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) |   |

USPS TRACKING #



First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

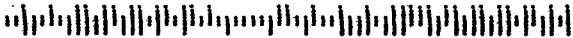
9590 9402 3885 7335 7560 88

**United States  
Postal Service**

• Sender: Please print your name, address, and ZIP+4® in this box®

**Doddridge County Office of Emergency Management  
George Eidel, Floodplain Manager  
105 Court Street, Suite 3  
West Union, WV 26456**

18-522



COPY

COPY

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CASH ONLY IF ALL CheckLock™ SECURITY FEATURES LISTED ON BACK INDICATE NO-TAMPERING OR COPYING

18852

PNC BANK, NATIONAL ASSOCIATION  
08-009/430

Keystone Consultants, Inc.  
32 East Main Street  
Carnegie, PA 15106

KEYSTONE  
CONSULTANTS, INC.

7/6/2018

\$ \*\*1,200.00

PAY TO THE ORDER OF Doddridge County Sheriffs Tax Office

One Thousand Two Hundred and 00/100\*\*\*\*\* DOLLARS

PROTECTED AGAINST FRAUD

Doddridge County Sheriffs Tax Office

*Jan K. Jain*

MEMO

Floodplain Permit

⑈018852⑈ ⑆043000096⑆ 0009672743⑈

Details on Back

Secure Check

COPY

COPY

FP # 18-522

COPY

## FLOODPLAIN PERMIT #18-522

Keystone Consultants (Equitrans), H527 Sedalia Pig Launcher Project, 4073 WV RT 23N 39.355666;-80.573233

<b>TASK</b>	<b>COMPLETE (DATE)</b>	<b>NOTES</b>
CHECK RECEIVED	7/16/2018	
US ARMY CORP. ENGINEERS (USACE)		
US FISH & WILDLIFE SERVICES (USFWS)	8-15-18	
WV DEPT. NATURAL RESOURCES (WVDNR)		
WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)		
STATE HISTORIC & PRESERVATION OFFICE (SHPO)	8-15-18	
OFFICE of LAND & STREAM (OLS)		
DATE OF COMMISSION READING	8/7/2018	
DATE AVAILABLE TO BE GRANTED	8/27/2018	
PERMIT GRANTED		
COMPLETE		

7016 2070 0000 3170 2570

7016 2070 0000 3170 2587

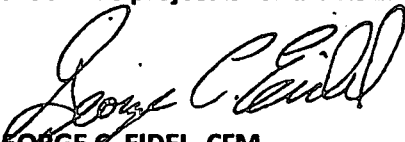




## **Doddridge County Floodplain Permits**

**(Week of July 23, 2018)**

Please take notice that on the 16<sup>th</sup> of July, 2018, **Keystone Consultant on behalf of Equitrans, LP** filed an application for a Floodplain Permit (**#18-522**) to develop land located at or about **4073 WV RT 23 N**; **Coordinates: 39.355666N, -80.573233W**. 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 **8/27/2018** (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 Sedalia Pig Launcher Project**



**GEORGE C. EIDEL, CFM**

**Doddridge County Floodplain Manager**



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1000 Technology Drive, Suite 1330, Fairmont, WV 26554 | P: 304-816-3165 | F: 681-443-3964

July 5, 2018

Doddridge County Floodplain Coordinator  
108 Court Street, Suite 1  
West Union, WV 26456  
Attn: Mr. George Eidel

JUL16 18 8:19AM

Re: Floodplain Development Permit Application  
H527 Sedalia Pig Launcher  
Doddridge County, West Virginia

Dear Sir or Madam:

Keystone Consultants, Inc. (Keystone) on behalf of Equitrans, LP (Equitrans) is requesting review for approval of this Floodplain Development Permit Application for the H527 Sedalia Pig Launcher Project (Project) in Doddridge County, West Virginia. The proposed project consists of maintenance to the existing H527 pipeline and associated above ground appurtenances in order to allow for future pipeline pigging. Please find for your review the following information related to the Project.

**I. General Information**

a. **Project Name:** H527 Sedalia Pig Launcher Project

b. **Project Contact Person:**

Ryan MacWilliams  
Environmental Manager  
Keystone Consultants, Inc.  
32 East Main Street  
Carnegie, PA 15106  
(412)-278-2100 ext. 104  
[rmacwilliams@keystoneconsultants.net](mailto:rmacwilliams@keystoneconsultants.net)

c. **Project Address:**

WV 23  
Center Point, WV  
From intersection of College Avenue and WV 18: Head south on WV-18 S (0.3 mi.). Turn left onto US-50 E (9.5 mi.). Turn left onto Tarkiln Run (1.7 mi.). Take a slight left onto WV 23 W (3.4 mi.). Site entrance will be on the southern side of the road.

Coordinates (WVNAD83 – North)

Project Entrance: N39° 21' 21.25" W80° 34' 21.64"

d. **Project Location:** See attached USGS Topographic

e. **Project Description:**

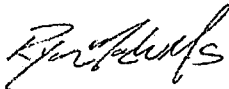
The proposed project consists of maintenance to the existing H527 pipeline and associated above ground appurtenances in order to allow for future pipeline pigging. All proposed construction activity will take place within the existing H527 right of way. Existing land cover consists of meadow, wetland and gravel. The existing H527 gas pipeline is a FERC regulated line. Perimeter erosion & sediment control measures will be placed on the downslope side of the proposed project to prevent any sediment from draining into Robinson Fork. No streams or wetlands will be impacted during construction. Once construction is complete, the disturbed area will be returned to approximate original contour, seeded and mulched with the exception of the gravel area. The total limit of disturbance for the project is approximately 0.75 acres.

The project will lie within an existing 100-year FEMA floodplain. Gravel is proposed within the floodplain. Existing grade will be excavated down to the depth of the proposed gravel prior to the placement of gravel, which will minimize any changes in elevation within the floodplain. Additional permanent structures proposed within the floodplain include a chain link fence, a skid mounted launcher/ receiver facility, tie-in fittings to the existing H-527 and the launcher/ receiver itself.

- f. **Project Photographs:** See attached photographs.
- g. **Date of Construction:** Construction will begin upon approval of all permits. Project completion will be within six months of approval.

Equitrans and Keystone appreciate your review. Should you have any questions or comments, please do not hesitate to contact me at (412)-278-2100 ext. 104.

Sincerely,



Ryan MacWilliams  
Environmental Manager  
Keystone Consultants, Inc.

Attachment: Floodplain Development Permit Application Form (Attachment 1), Project Mapping (Attachment 2), and Color Photographs (Attachment 3).

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**ATTACHMENT 1  
FLOODPLAIN DEVELOPMENT PERMIT  
APPLICATION FORM**

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Permit#	<u>18-522</u>
Project Name:	<u>H527 Sedalia Pig Launcher Project</u>
Permittees Name:	<u>Keystone CONSULTANTS</u>

JUL16 18 8:19AM

## **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 \_\_\_\_\_

*John Shedd*

DATE \_\_\_\_\_

*7/9/18*

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Applicant Information:**

*Please provide all pertinent data.*

<b>Applicant Information</b>		
<b>Responsible Company Name: Equitrans, LP</b>		
<b>Corporate Mailing Address: 2200 Energy Drive</b>		
<b>City: Canonsburg</b>	<b>State: PA</b>	<b>Zip: 15317</b>
<b>Corporate Point of Contact (POC): Josh Snedden</b>		
<b>Corporate POC Title: Landman 1 - Midstream Permitting Specialist</b>		
<b>Corporate POC Primary Phone: 412-559-2162</b>		
<b>Corporate POC Primary Email: JSnedden@eqt.com</b>		
<b>Corporate FEIN: 251776875</b>	<b>Corporate DUNS:</b>	
<b>Corporate Website: www.eqt.com</b>		
<b>Local Mailing Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Local Project Manager (PM):</b>		
<b>Local PM Primary Phone:</b>		
<b>Local PM Secondary Phone:</b>		
<b>Local PM Primary Email:</b>		
<b>Person Filing Application:</b>		
<b>Applicant Title:</b>		
<b>Applicant Primary Phone:</b>		
<b>Applicant Secondary Phone:</b>		
<b>Applicant Primary Email:</b>		



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 checked="" type="checkbox"/>	New Structure	<input type="checkbox"/>	Residential (1 – 4 Family)
<input type="checkbox"/>	Addition	<input type="checkbox"/>	Residential (more than 4 Family)
<input 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 type="checkbox"/>	Replacement
<input type="checkbox"/>	Manufactured/Mobil Home		

**B. OTHER DEVELOPMENT ACTIVITIES:**

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

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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   4  

Site/Property Information:		
<b>Legal Description:</b> Robinson 1AC		
<b>Physical Address/911 Address:</b> WV 23		
<b>Decimal Latitude/Longitude:</b> 39.35572, -80.57371		
<b>DMS Latitude/Longitude:</b> 39d 21' 20.60", 80d 34" 25.36"		
<b>District:</b> McClellan (5)	<b>Map:</b> 25	<b>Parcel:</b> 43.1
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Book 277, Page 649		
<b>Tax Map Reference:</b> 5-25-43.1		
<b>Existing Buildings/Use of Property:</b> existing residence		

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

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:**   2   of   4  

<b>Site/Property Information:</b>		
<b>Legal Description:</b> Robinson 36.38		
<b>Physical Address/911 Address:</b> WV 23		
<b>Decimal Latitude/Longitude:</b> 39.35552, -80.57352		
<b>DMS Latitude/Longitude:</b> 39d 21' 19.87", 80d 34' 24.67"		
<b>District:</b> McClellan (5)	<b>Map:</b> 25	<b>Parcel:</b> 43.2
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Book 277, Page 649		
<b>Tax Map Reference:</b> 5-25-43.2		
<b>Existing Buildings/Use of Property:</b> existing gas facility		

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

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:**   3   of   4  

<b>Site/Property Information:</b>		
<b>Legal Description:</b> .27 AC Robinson		
<b>Physical Address/911 Address:</b> WV 23		
<b>Decimal Latitude/Longitude:</b> 39.35543, -80.57288		
<b>DMS Latitude/Longitude:</b> 39d 21' 19.54", 80d 34' 22.37"		
<b>District:</b> McClellan (5)	<b>Map:</b> 25	<b>Parcel:</b> 51.1
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Book 162, Page 718		
<b>Tax Map Reference:</b> 2-25-51.1		
<b>Existing Buildings/Use of Property:</b> existing shed and residence		

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

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:   4   of   4  

<b>Site/Property Information:</b>		
<b>Legal Description:</b> 21783.5 SQ FT 0.5 AC Robinson		
<b>Physical Address/911 Address:</b> WV 23		
<b>Decimal Latitude/Longitude:</b> 39.35536, -80.57285		
<b>DMS Latitude/Longitude:</b> 39d 21' 19.29", 80d 34' 22.26"		
<b>District:</b> McClellan (5)	<b>Map:</b> 25	<b>Parcel:</b> 51
<b>Land Book Description:</b>		
<b>Deed Book Reference:</b> Book 303, Page 290		
<b>Tax Map Reference:</b> 5-25-51		
<b>Existing Buildings/Use of Property:</b>		

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

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>  4  </u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Dean R. Pennington		
PO Address: 1203 East Run		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO): See Above		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
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

**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:   2   of   4  

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Dean R. Pennington		
PO Address: 1203 East Run		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO): See Above		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
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

**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>  3  </u> of <u>  4  </u>
--

<b>Property Owner Data:</b>		
Name of Primary Owner (PO): Equitrans		
PO Address: 100 Allegheny Center Mall		
City: Pittsburgh	State: PA	Zip: 15212
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Surface Rights Owner Data:</b>		
Name of Primary Owner (PO): See Above		
PO Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

<b>Mineral Rights Owner Data: (As Applicable)</b>		
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

**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:   4   of   4  

Property Owner Data:		
Name of Primary Owner (PO): Woody J. Shaffer & Alicia A. Yeager (SURV)		
PO Address: Route-2-Box-275- 4019 WV Rt. 23N		
City: Salem	State: WV	Zip: 26426
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Surface Rights Owner Data:		
Name of Primary Owner (PO): See Above		
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: To Be Determined		
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: Keystone Consultants, Inc.		
Engineer WV License Number: 21752		
Engineer Firm FEIN: 25-1669880	Engineer Firm DUNS:	
Engineer Firm Primary Point of Contact (POC): Ryan MacWilliams		
Engineer Firm Primary POC Title: Environmental Manager		
Engineer Firm Mailing Address: 32 East Main Street		
City: Carnegie	State: PA	Zip-Code: 15106
Engineer Firm Office Phone: 412-278-2100		
Engineer Firm Primary POC Phone: 412-278-2100 ext. 104		
Engineer Firm Primary POC E-Mail: rmacwilliams@keystoneconsultants.net		

## 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): Timothy Leon Pratt c/o Barbara Robinson		
Physical Address: WV 23		
City: Salem	State: WV	Zip: 26426
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): Sharon J. Hayhurst		
Physical Address: WV 23		
City: Salem	State: WV	Zip: 26426
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): Dean R. Pennington		
Physical Address: WV 23		
City: Salem	State: WV	Zip: 26426
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO):		
Physical Address:		
City:	State:	Zip:
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 access roads)*
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 or 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: Joshua J Sweden Date: 7/9/18

Applicant Printed Name: Joshua J Sweden

# 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.

<b>LOMAs</b>	<b>Contact Community for Revalidation Status</b>	<b>FEMA Effective Floodplains</b>	<b>LOMRs</b>
● Incorporated	● Contact Community for Revalidation Status	▨ Zone AE FLOODWAY	■ Low : 0
● Superseded	— Cross Section (XS) Lines	▨ Zone AE (AH, AO)	■ Effective
● Not incorporated	<b>Base Flood Elevation (BFE) Lines</b>	▨ Zone A	
● No Revalidation Status	— Base Flood Elevation (BFE) Lines	▨ Zone X (Shaded)	
● Reevaluated	— Base Flood Elevation (BFE) Lines	▨ Zone X (Shaded)	
		<b>Flood Depth (Ft)</b>	
		■ High : 623.366	

📍 Flood Info Location Map created on 7/16/2018

User Notes:

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

**Flood Hazard Zone:** A (Advisory A)

**Stream:** Big Run

**Watershed (HUC8):** Little Musringum-Middle Island (503020)

**Flood Height:** About 855 ft (Source: AFH)

**Water Depth:** About 1.0 ft (Source: HEC-RAS)

**Elevation:** About 854 ft (Source: SAMS 2003)

**Location (long, lat):** (-80.573233, 39.355666)

**Community&ID:** Doddridge County (540024)

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**FEMA Flood Map:** 54017C0155C **EFF:** 10/4/2011

**Parcel Number:** 09-05-0025-0043-0002

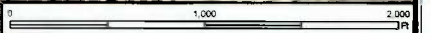
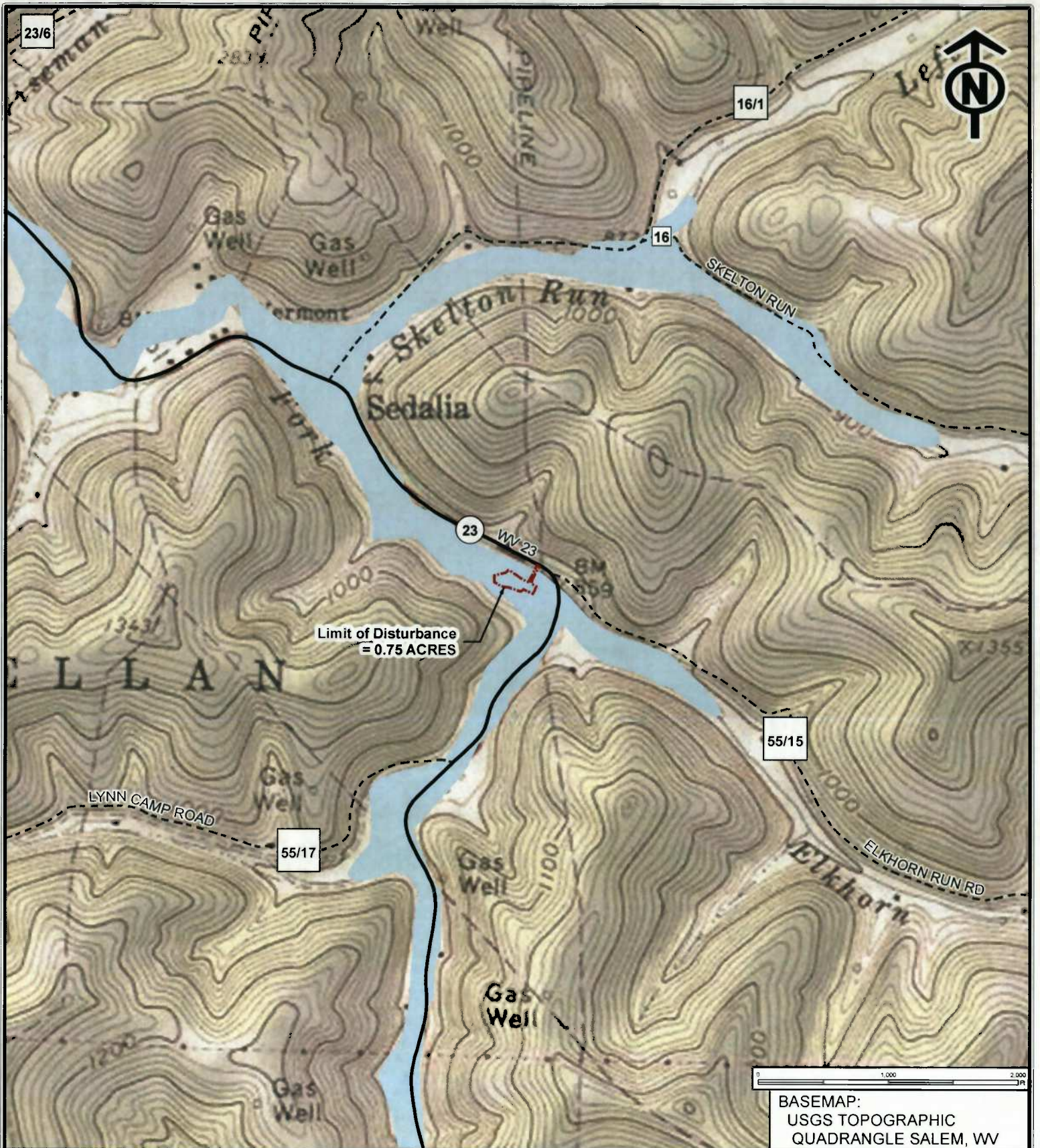
**Address:** 132 LYNN CAMP, Salem, WV, 26426

**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.

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**ATTACHMENT 2**  
**PROJECT MAPPING**

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BASEMAP:  
USGS TOPOGRAPHIC  
QUADRANGLE SALEM, WV

**LEGEND**

- - - - - Limit of Disturbance
- State Route
- Roads
- 1% Annual Chance Flood Hazard

Prepared By:



www.keystoneconsultants.net 412-278-2100

REV	DESCRIPTION	DATE

**EQUITRANS, L.P.**

H527 Sedalia Pig Launcher Site  
Location Topographic Map

Doddridge County, WV

DRAWING NUMBER: 001

DWN BY: GDM

APR BY: BCH

DATE: 7/2/2018

SCALE: 1" = 1,000 feet

SHEET: 1 OF 2



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**LEGEND**

- - - - Limit of Disturbance
- Existing H527 Gas Pipeline
- ▬ Proposed Pig Launcher
- x—x Proposed Fence
- x—x Existing Fence
- Proposed Gravel Access
- Existing Gravel Access
- Streams
- Wetlands
- FEMA Floodplain
- Soil Units
- State Route
- Roads

Prepared By:



www.keystoneconsultants.net 412-278-2100

REV	DESCRIPTION	DATE

**EQUITRANS, L.P.**

**H527 Sedalia Pig Launcher  
USDA Soil Units Map**

Doddridge County, WV

**DRAWING NUMBER: 002**

**DWN BY: GDM**

**APR BY: BCH**

**DATE: 7/3/2018**

**SCALE: 1" = 100 feet**

**SHEET: 2 OF 2**



# H527 SEDALIA PIG LAUNCHER

## SITE SPECIFIC EROSION & SEDIMENT CONTROL AND SITE RESTORATION PLAN



REFERENCE:  
1. USGS: SALEM QUADRANGLE, WV,  
7.5 MINUTE SERIES, DATED 1961,  
PHOTOREVISED 1976.

SHEET LIST	
SHEET NUMBER	SHEET TITLE
01	COVER SHEET
02	EROSION & SEDIMENT CONTROL AND SITE RESTORATION PLAN
03	EROSION & SEDIMENT CONTROL AND SITE RESTORATION DETAILS
04	EROSION & SEDIMENT CONTROL AND SITE RESTORATION DETAILS

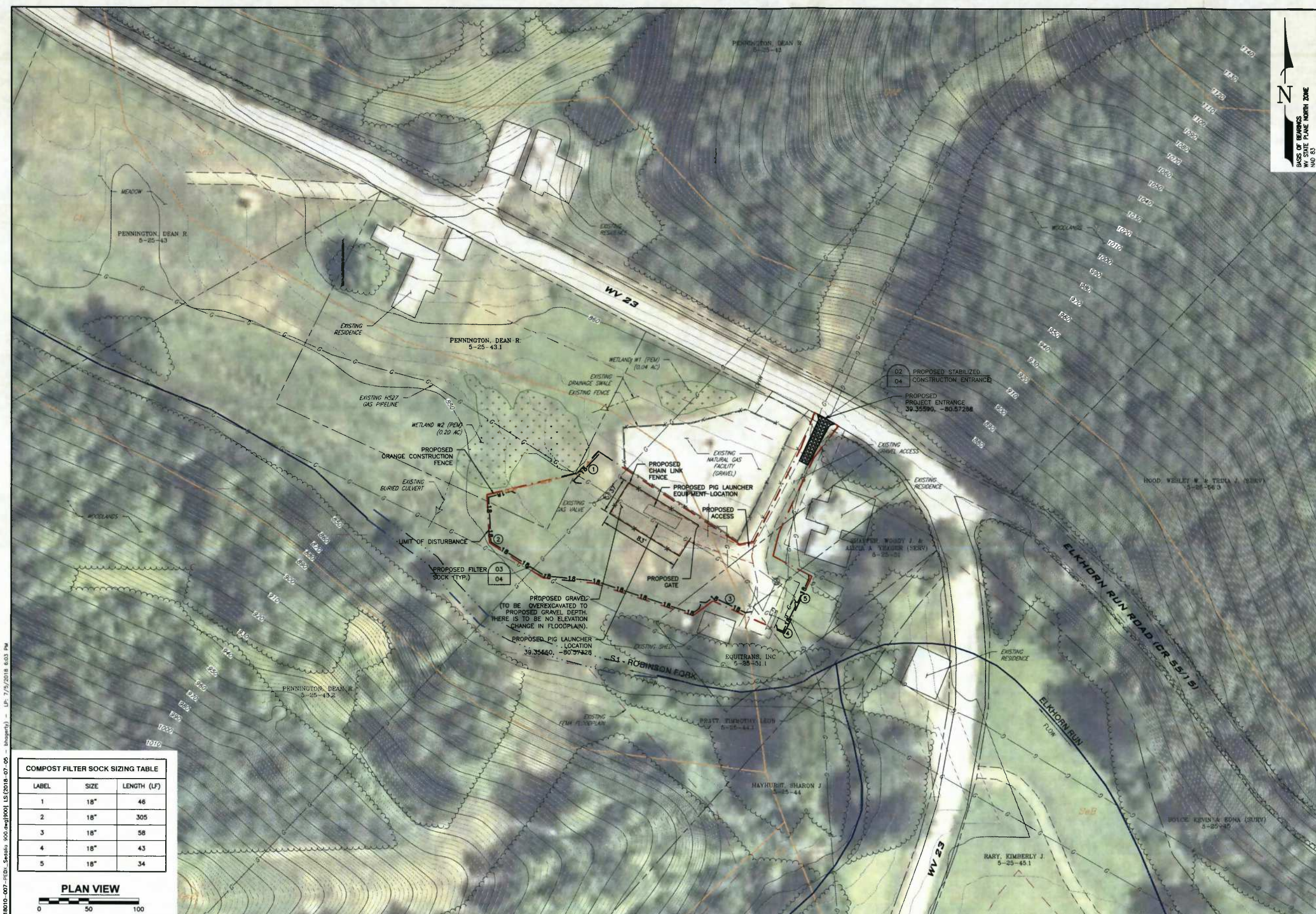
SITUATED IN:  
**McCLELLAN DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA**

PREPARED FOR:  
**EQUITRANS, LP**

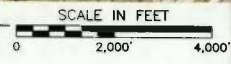
PREPARED BY:  
**KEYSTONE CONSULTANTS, INC.**  
**JULY 2018**

T:\2018\18010-007\_Coal\Drawings\18010-007-FED\SEDALIA Details.dwg[001] LS(2018-07-05 - bhagaty) - LP: 7/5/2018 6:03 PM

REVISIONS	REVISIONS		<b>EQUITRANS, L.P.</b>  EQUITRANS, L.P. 2200 ENERGY DRIVE CANONSBURG, PA 15317	 <b>KEYSTONE</b> CONSULTANTS, INC. 1000 TECHNOLOGY DRIVE FAIRMONT, WV 26554 Ph: (304)816-3185 Fax: (304)-443-3964 www.keystoneconsultants.net	DRAWN: BCH CHECKED: BLB APPROVED: EAZ DATE: 09/27/2018 SCALE: AS SHOWN COORDINATE SYSTEM: WV83-NF PROJECT: 18010-007	<b>H527 SEDALIA PIG LAUNCHER</b>  McCLELLAN DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA  <b>COVER SHEET</b>	DRAWING NUMBER <b>01</b> SHEET 01 OF 04 REVISION
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**REFERENCE:**  
 1. USGS: SALIDA QUADRANGLE, WV, 7.5 MINUTE SERIES, DATED 1961, PHOTOREVISED 1976.



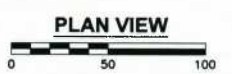
**LEGEND:**

- 870 ——— EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING FEMA FLOODPLAIN
- EXISTING PROPERTY LINE
- EXISTING DELINEATED STREAM
- EXISTING PUBLIC DATA STREAM
- EXISTING PAVED ROADWAY
- EXISTING UNPAVED DRIVEWAY
- EXISTING GAS PIPELINE
- CaC ——— EXISTING SOIL TYPE
- EXISTING STRUCTURE
- EXISTING TREE LINE
- EXISTING DRAINAGE SWALE
- EXISTING FENCE
- OHW ——— EXISTING OVERHEAD WIRE
- EXISTING CULVERT
- ⊙ ——— EXISTING GAS VALVE
- EXISTING WETLAND
- PROPOSED CHAIN LINK FENCE
- PROPOSED LIMIT OF DISTURBANCE
- OCST ——— PROPOSED ORANGE CONSTRUCTION FENCE
- 18-18-18 ——— PROPOSED 18" COMPOST FILTER SOCK
- ① ——— PROPOSED COMPOST FILTER SOCK ID
- PROPOSED GRAVEL
- STABILIZED CONSTRUCTION ENTRANCE

**REFERENCE:**

1. EXISTING CONTOURS DERIVED FROM USGS QUAD MAPS.
2. EXISTING STREAM AND WETLAND INFORMATION FIELD LOCATED BY KEYSTONE CONSULTANTS, INC. ON 03/27/2018.
3. IMAGERY FROM USDA NMAP, 10/25/2016.

COMPOST FILTER SOCK SIZING TABLE		
LABEL	SIZE	LENGTH (LF)
1	18"	46
2	18"	305
3	18"	58
4	18"	43
5	18"	34



T:\2018\18010-007\Cadd\Drawings\18010-007-FIELD\_Sedalia\_900.dwg[900] LS (2018-07-09 11:07:00 AM) - LP: 7/5/2018 6:03 PM

REVISIONS

REVISIONS

**EQUITRANS, L.P.**

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

**KEYSTONE**  
 CONSULTANTS, INC.  
 1000 TECHNOLOGY DRIVE  
 FAIRMONT, WV 26554  
 Ph: (304) 616-3105 Fax: (304) 443-3864  
 www.keystoneconsultants.net

DRAWN: BCH  
 CHECKED: BLB  
 APPROVED: EAZ  
 DATE: 06/27/2018  
 SCALE: 1" = 50'  
 COORDINATE SYSTEM: PAB3-SF  
 PROJECT: 18010-007

**H527 SEDALIA PIG LAUNCHER**  
 McCLELLAN DISTRICT, DODDRIDGE COUNTY,  
 WEST VIRGINIA  
**SITE SPECIFIC**  
**EROSION & SEDIMENT CONTROL**  
**AND SITE RESTORATION PLAN**

DRAWING NUMBER  
**02**  
 SHEET 02 OF 04  
 REVISION

GENERAL NOTES

CRITICAL AREAS

CONTRACTOR SHALL INSPECT SITE FOR CRITICAL AREAS INCLUDING BUT NOT LIMITED TO STEEP SLOPES, STREAMS, FLOODPLAINS, WETLANDS, WATER WELLS/SPRINGS, SEEPS, SLIPS, AND AREAS OF CONCENTRATED FLOW. E&S CONTROL BMPs WILL BE UTILIZED TO REMOVE SEDIMENT FROM STORMWATER RUNOFF PRIOR TO DISCHARGE FROM THE SITE.

MARK CLEARING LIMITS

PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES, CLEARLY MARK ALL CLEARING 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.

SITE ACCESS

INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE AS SHOWN ON PLANS. AVOID EXCESSIVE RUTTING AND SEDIMENT CAUSING ACTIVITIES DURING SITE ACCESS.

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 SEDIMENT TO THE STORM DRAIN SYSTEM IS NOT ALLOWED. IF STREET WASH WASTEWATER CAN BE CONTROLLED FROM ENTERING THE STORM DRAINAGE SYSTEM, THEN IT SHALL BE PUMPED BACK ONTO THE SITE, CONTAINED, AND DISPOSED OF PROPERLY.

EROSION AND SEDIMENT CONTROL

E&S BMPs ARE TO BE INSTALLED PRIOR TO THE BEGINNING OF EARTH DISTURBANCE ON THE SITE. BMPs SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS FROM THE WDEP EROSION AND SEDIMENT CONTROL BMP MANUAL. DUE TO IRON IMPAIRED TMDL WATERSHEDS IN THE PROJECT AREA, CONTRACTOR SHALL PERFORM AN INSPECTION OF ALL E&S CONTROLS WITHIN DISTURBED AREAS ONCE PER FOUR CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.25 INCHES PER 24 HOUR PERIOD. ANY NECESSARY REPAIRS OR MAINTENANCE TO BMPs SHALL BE PERFORMED IMMEDIATELY. RAIN GAUGES SHALL BE LOCATED AT ALL PROJECT TRAILERS AND THROUGHOUT THE PROJECT AREA TO MONITOR AND RECORD DAILY RAINFALL EVENTS. INSPECTIONS SHALL BE LOGGED ON A STANDARD INSPECTION FORM AND KEPT WITH ONSITE COPY OF SWPPP PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE ENVIRONMENTAL INSPECTOR SHOULD REVIEW PROPER BMP INSTALLATION AND MAINTENANCE WITH CONSTRUCTION PERSONNEL.

DUE TO IRON IMPAIRED TMDL WATERSHEDS IN THE PROJECT AREA, ADVANCED/ENHANCED BMPs WILL BE EMPLOYED FOR THIS PROJECT. ALL ROWS OF 12" FILTER SOCK HAVE BEEN UPGRADED TO 18" FILTER SOCK TO MITIGATE FURTHER IMPACT OF RECEIVING STREAMS.

STABILIZE SOILS

EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY APPLICATION OF EFFECTIVE BMPs THAT PROTECT THE SOIL FROM THE EROSION 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. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES OR IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21 DAYS) THE STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.

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 TO THAT THE 7-DAY REQUIREMENTS ARE MET.

CONVEY STORMWATER IN A NON-EROSIVE MANNER

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.

BMP MAINTENANCE

WHenever a deficiency in an E&S BMP is noted, the contractor shall repair the BMP immediately. BMPs shown on the plan are a minimum to control erosion and sediment expected onsite. SHOULD CONDITIONS IN THE FIELD OCCUR WHERE BMP FAILURE IS NOTED, SITE SUPERVISOR SHALL INSTALL ADDITIONAL BMPs AS NECESSARY TO PREVENT RELEASE OF SEDIMENT FROM THE SITE. MINOR CHANGES SHOULD BE LOGGED ON THE ONSITE COPY OF THE PLAN FOR REFERENCE. ENVIRONMENTAL COORDINATOR SHOULD BE NOTIFIED OF ANY MAJOR E&S ISSUES.

CONTROL OTHER POLLUTANTS

GROUNDWATER PROTECTION BMPs SHOULD BE FOLLOWED TO PREVENT RISKS ASSOCIATED WITH FUELS, MATERIALS, AND CHEMICALS THAT ARE TO BE USED ON SITE. CONTAINMENT SHOULD BE REGULARLY MONITORED FOR SIGNS OF LEAKS. EQUIPMENT REFUELING SHOULD TAKE PLACE WITH ADEQUATE DRIP PROTECTION AND EQUIPMENT SHOULD BE REGULARLY INSPECTED FOR LEAKS. SPILLS AND LEAKS SHALL BE PROMPTLY CLEANED UP. IF A SPILL OCCURS THAT MAY CONTAMINATE SURFACE WATERS SUPERVISOR SHALL NOTIFY ENVIRONMENTAL COORDINATOR IMMEDIATELY AND THE WDEP AND NATIONAL RESPONSE CENTER SHALL BE NOTIFIED AS NECESSARY.

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.

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.

MANAGING THE PROJECT

A COPY OF THE E&S PLAN IS TO REMAIN ON SITE AT ALL TIMES FOR THE DURATION OF THE PROJECT. THE E&S PLAN IS TO BE MODIFIED WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE OF BMPs.

TREE CLEARING SHALL BE MINIMIZED TO THE EXTENT NECESSARY AND COMPACTION OF EXISTING SOILS SHOULD BE MINIMIZED TO THE EXTENT PRACTICABLE.

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.

REPORTING - REPORT SPILLAGE OR DISCHARGE OF POLLUTANTS WITHIN 24-HOURS.

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.

VEGETATIVE STABILIZATION

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. 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.

CONSTRUCTION NOTES:

- 1. THIS PLAN IS FOR EROSION & SEDIMENT CONTROL AND SITE RESTORATION PURPOSES ONLY.
2. 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.
3. 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.
4. 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 CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
5. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES, OBTAIN ALL APPLICABLE PERMITS, AND PAY ALL REQUIRED FEES PRIOR TO BEGINNING WORK.
6. 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.
7. ANY DISTURBED AREA THAT HAS REACHED FINAL GRADE OR IS TO REMAIN IDELE FOR MORE THAN 21 DAYS IS TO BE TEMPORARILY SEEDED AND MULCHED WITHIN 7 DAYS.
8. REFER TO THE STANDARD DETAILS FOR INSTALLATION AND MAINTENANCE GUIDELINES FOR PROPOSED BMPs.
9. NO WETLAND OR STREAM CROSSING OTHER THAN THOSE PERMITTED IS AUTHORIZED WITHOUT PRIOR CONSULTATION WITH REVIEWING AGENCIES. LIMITS OF IMPACT TO WETLANDS AND WATERBODIES ARE SHOWN ON THE PLANS.

CONSTRUCTION WASTE RECYCLING/ DISPOSAL:

- 1. 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.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING WASTE RECYCLING/DISPOSAL AREAS ON THE E&S 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.

CONSTRUCTION SEQUENCE

- 1. THE CONTRACTOR SHALL PLACE A WEST VIRGINIA ONE CALL NO LATER THAN TWO (2) WORKING DAYS AND NO MORE THAN 10 WORKING DAYS PRIOR TO CONSTRUCTION.
2. PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITY INCLUDING CLEARING AND GRUBBING, THE REGISTRANT SHALL CLEARLY DELINEATE SENSITIVE AREA, LIMIT OF DISTURBANCE, AND TREES THAT ARE TO BE CONSERVED WITHIN THE PROJECT SITE, AND SHALL INSTALL APPROPRIATE BARRIERS WHERE EQUIPMENT MAY NOT BE PARKED, STAGED, OPERATED OR LOCATED FOR ANY PURPOSE.
3. INSTALL STABILIZED ROCK CONSTRUCTION ENTRANCE AS NECESSARY, AS SHOWN ON THE PLANS.
4. UTILIZING THE STABILIZED ROCK CONSTRUCTION ENTRANCE FOR SITE ACCESS, INSTALL PERIMETER CONTROLS AS SHOWN ON THE PLANS.
5. WITH PERIMETER E&S CONTROLS IMPLEMENTED, THE CONTRACTOR SHALL COMMENCE WITH CONSTRUCTION. AFTER PROJECT COMPLETION, DISTURBED AREAS SHALL BE RESTORED TO APPROXIMATE ORIGINAL CONTOURS AND PERMANENTLY SEEDED AND MULCHED.
6. UPON ESTABLISHMENT OF UNIFORM 70% VEGETATIVE COVER, THE CONTRACTOR SHALL REMOVE E&S BMPs.

TABLE 3.11.1 PERMANENT SEEDING

Table with columns: SEE D MIX, PLANT NAMES (COMMON, SCIENTIFIC), APPLICATION RATE LBS/ACRE. Lists various seed types like Kentucky 31 Fescue, Perennial Ryegrass, etc.

NOTE: WHEN UTILIZING A PROPERLY PREPARED SEEDBED, THE RATE OF APPLICATION CAN BE REDUCED BY 30 PERCENT EXCEPT FOR SEED MIXES A-2 & A-3.
\* REED CANARYGRASS SHALL NOT BE USED EAST OF I-79 AND/OR SOUTH OF CHARLESTON.
\* USE NORTH AND EAST OF I-64 AND I-79.
\* USE SOUTH AND WEST OF I-64 AND I-79.

LIME AND FERTILIZER APPLICATION RATES

Table with columns: COVER TYPE, RATES (MIN.) PER ACRE, PER 1,000 SQ. FT., LIME/FERTILIZER TYPE. Lists rates for Lime, Grasses and Legumes, etc.

LIME AND FERTILIZER NEEDS SHOULD BE DETERMINED BY SOIL TEST. IF SOIL TEST IS NOT OBTAINED THE ABOVE SOIL AMENDMENTS SHOULD BE APPLIED.

ORGANIC MULCH MATERIALS AND APPLICATION RATES

Table with columns: MULCHES, RATES (MIN.) PER ACRE, PER 1,000 SQ. FT., NOTES. Lists mulch types like Straw or Hay, Fiber Mulch, etc.

\* WHEN FIBER MULCH IS THE ONLY AVAILABLE MULCH DURING PERIODS WHEN STRAW SHOULD BE USED, APPLY AT A MINIMUM RATE OF 2,000 LBS./AC. OR 45 LBS./1,000 SQ. FT.

TEMPORARY SEED CHART

Table with columns: PLANT NAMES (COMMON, SCIENTIFIC), PLANTING DATES, APPLICATION RATE LBS/ACRE. Lists temporary seed types like Annual Ryegrass, Field Bromegrass, etc.

TABLE 3.11.2 NURSE CROPS

Table with columns: PLANT NAMES (COMMON, SCIENTIFIC), PLANTING DATES, APPLICATION RATE LBS/ACRE. Lists nurse crop types like Annual Ryegrass, Field Bromegrass, etc.

TABLE 3.11.3 PERMANENT SEEDING REQUIREMENTS

Large table with columns: SEED MIX, FINE LAWN, COARSE LAWN, LOW MAINT., NO MAINT., PASTURE, SENSITIVE NATURAL AREAS, PH RANGE, DRAINAGE, SHADE TOLERANCE, PREFERRED PLANTING DATES. Lists various seed mix requirements.

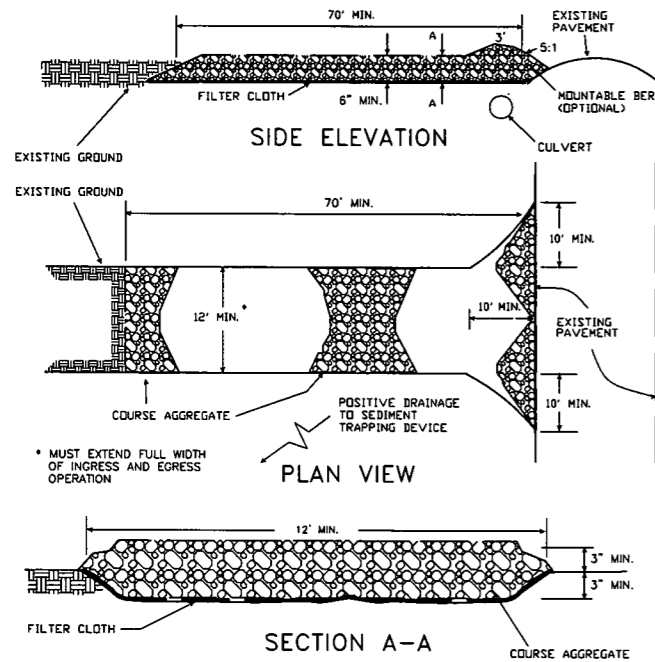
1 - URBAN AREAS ONLY
N - NURSE CROPS REQUIRED

DETAIL 1
TEMPORARY AND PERMANENT SEEDING MIXTURES, MULCHING, AND FERTILIZER

Table with columns: REVISIONS, containing a grid for tracking changes.

Table with columns: REVISIONS, containing a grid for tracking changes.

Project information block including: EQUITRANS, L.P., KEYSTONE CONSULTANTS, INC., 1000 TECHNOLOGY DRIVE FAIRMONT, WV 26554, H527 SEDALIA PIG LAUNCHER, McCLELLAN DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA, EROSION & SEDIMENT CONTROL AND SITE RESTORATION DETAILS, DRAWING NUMBER 03, SHEET 03 OF 04.



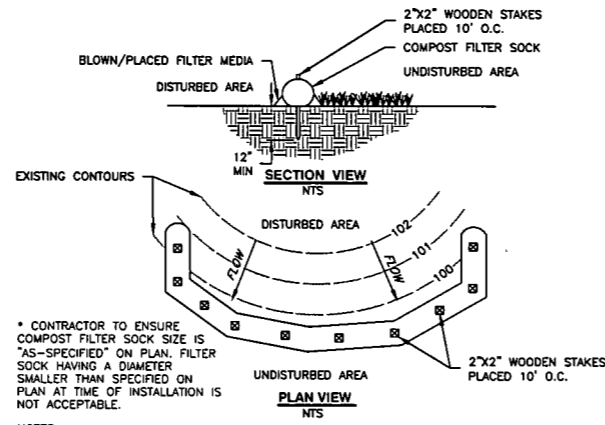
**INSTALLATION**

- USE 2-4 INCH STONE FOR LOW VOLUME ENTRANCES, LARGER STONE (4-8 INCH) FOR HEAVY USE OR MATERIAL DELIVERY ENTRANCES.
- LENGTH IS AS REQUIRED, BUT NOT LESS THAN 70 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS SHOULD BE NOT LESS THAN 6 INCHES.
- THE WIDTH SHALL BE A MINIMUM OF 10 FEET, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- GEOTEXTILE FABRIC SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO THE PLACING OF STONE.
- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF A CULVERT IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES SHALL BE USED.
- IF NECESSARY, DIVERT ANY WATER RUNNING DOWN ACCESS ROAD TO A SEDIMENT TRAP LOCATED ON EITHER SIDE OF THE STABILIZED CONSTRUCTION ENTRANCE.

**MAINTENANCE**

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WHEELS ON ALL VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. IF WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO APPROVED SEDIMENT TRAPPING DEVICE. IF THE STREET IS WASHED PRECAUTIONS MUST BE TAKEN TO PREVENT MUDDY WATER FROM RUNNING INTO WATERWAYS OR STORM SEWERS.
- INSPECTION AND NEEDED MAINTENANCE SHOULD BE PROVIDED DAILY BUT AT A MINIMUM EVERY SEVEN DAYS AND AFTER EVERY RAIN OF 0.5 INCH OR GREATER.

**DETAIL 2  
STABILIZED CONSTRUCTION ENTRANCE  
NOT TO SCALE**



\* CONTRACTOR TO ENSURE COMPOST FILTER SOCK SIZE IS "AS-SPECIFIED" ON PLAN. FILTER SOCK HAVING A DIAMETER SMALLER THAN SPECIFIED ON PLAN AT TIME OF INSTALLATION IS NOT ACCEPTABLE.

**NOTES:**

- SOCK FABRIC SHALL MEET MANUFACTURER SPECIFICATIONS.
- COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED MANUFACTURER SPECIFICATIONS. STAKES MAY BE INSTALLED IMMEDIATELY DOWNSLOPE OF THE SOCK IF SO SPECIFIED BY THE MANUFACTURER.
- TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCKS.
- ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES HALF THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
- BIODEGRADABLE FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

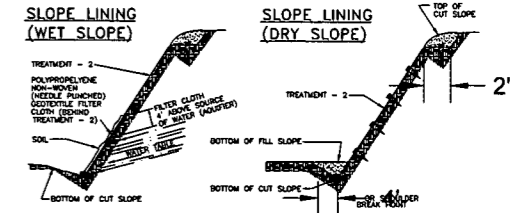
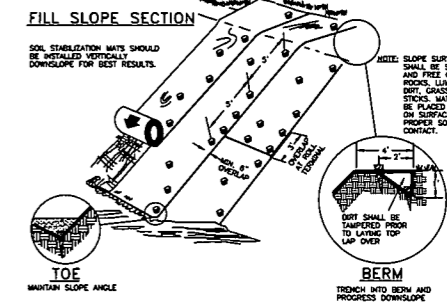
**DETAIL 3  
COMPOST FILTER SOCK  
NOT TO SCALE**

**COMPOST FILTER SOCK MINIMUM SPECIFICATIONS**

MATERIAL TYPE	3 MIL HDPE	5 MIL HDPE	5 MIL HDPE	MULTI-FILAMENT POLYPROPYLENE (MFP) PHOTO DEGRADABLE	HEAVY DUTY MULTI-FILAMENT POLYPROPYLENE (HDMFP) PHOTO DEGRADABLE
MATERIAL CHARACTERISTICS	PHOTO DEGRADABLE	PHOTO DEGRADABLE	BIO DEGRADABLE	PHOTO DEGRADABLE	PHOTO DEGRADABLE
SOCK DIAMETERS	12" 18"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"	12" 18" 24" 32"
MESH OPENING	3/8"	3/8"	3/8"	3/8"	3/8"
TENSILE STRENGTH		26 PSI	26 PSI	44 PSI	202 PSI
ULTRAVIOLET STABILITY % ORIGINAL STRENGTH (ASTM G-155)	23% AT 1000 HR.	23% AT 1000 HR.		100% AT 1000 HR.	100% AT 1000 HR.
MINIMAL FUNCTION LONGEVITY	6 MONTHS	6 MONTHS	6 MONTHS	1 YEAR	2 YEARS

**COMPOST STANDARDS**

ORGANIC MATTER CONTENT	25%-100% (DRY WEIGHT BASIS)
ORGANIC PORTION	FIBROUS AND ELONGATED
pH	5.5-8.5
MOISTURE CONTENT	30%-60%
PARTICLE SIZE	30%-50% PASS THROUGH 3/8" SIEVE
SOLUBLE SALT CONCENTRATION	5.0 dS/m (mmhos/cm) MAXIMUM



**INSTALLATION**

- PREPARE A STABLE AND FIRM SOIL SURFACE FREE OF ROCKS AND OTHER OBSTRUCTIONS. APPLY SOIL AMENDMENTS AS NECESSARY TO PREPARE SEEDBED. APPLY SEED AND FERTILIZER IN ACCORDANCE WITH THE PERMANENT SEEDING SPECIFICATION. TYPICALLY, RECPS ARE UNROLLED PARALLEL TO THE PRIMARY DIRECTION OF FLOW. ENSURE THE PRODUCT MAINTAINS INTIMATE CONTACT WITH THE SOIL SURFACE OVER THE ENTIRETY OF THE INSTALLATION. DO NOT STRETCH OR ALLOW MATERIAL TO BRIDGE OVER SURFACE INCONSISTENCIES. STAPLE/STAKE RECPS TO SOIL SUCH THAT EACH STAPLE/STAKE IS FLUSH WITH UNDERLYING SOIL. INSTALL ANCHOR TRENCHES, SEAMS AND TERMINAL ENDS AS SPECIFIED.
- INSTALL RECPS AFTER APPLICATION OF SEED, FERTILIZER, MULCHES (IF NECESSARY) AND OTHER NECESSARY SOIL AMENDMENTS, UNLESS SOIL IN-FILLING OF THE TRM IS REQUIRED. FOR TRMS IF SOIL IN-FILLING, INSTALL TRM, APPLY SEED, AND OTHER SOIL AMENDMENTS LIGHTLY BRUSH OR RAKE 0.3 TO 0.7 IN. OF TOPSOIL INTO TRM MATRIX TO FILL THE PRODUCT THICKNESS. IF IN-FILLING WITH A HYDRAULICALLY-APPLIED MATRIX OR MEDIUM IS REQUIRED; INSTALL TRM, THEN INSTALL HYDRAULICALLY-APPLIED MATRIX OR MEDIUM AT THE MANUFACTURER'S SUGGESTED APPLICATION RATE.

**MAINTENANCE**

- DURING THE INITIAL PERIOD AFTER INSTALLATION INSPECT ONCE AT WEEK OR AFTER EVERY RAIN OF 0.5" OR MORE. BASIC MONITORING SHOULD CONSIST OF VISUAL INSPECTIONS TO DETERMINE MAT INTEGRITY AND ATTACHMENT PERFORMANCE. RILL DEVELOPMENT BENEATH THE MAT OR EDGE LIFTING IS EVIDENCE OF INADEQUATE ATTACHMENT.
- UNTIL THE VEGETATION IS FULLY ESTABLISHED, THE GROUND SURFACE SHOULD BE INSPECTED FOR SIGNS OF RILL OR GULLY EROSION BELOW THE MATTING. ANY SIGNS OF EROSION, TEARING OF THE MATTING, OR AREAS WHERE THE MATTING IS NO LONGER ANCHORED FIRMLY TO THE GROUND SHOULD BE REPAIRED. REPAIR ANY DAMAGED AREAS IMMEDIATELY BY RESTORING SOIL TO FINISHED GRADE, RE-APPLYING SOIL AMENDMENTS AND SEED, AND REPLACING THE RECPS. ADDITIONAL STAKING AND TRENCHING CAN BE EMPLOYED TO CORRECT DEFECTS. RECENTLY PLACED MATS MAY BE REPLACED, BUT ONCE VEGETATION BECOMES ESTABLISHED, REPLACEMENT IS NOT A REASONABLE OPTION UNLESS LARGE FAILURES HAVE OCCURRED. IF THE RECPS ARE VEGETATED, THE VEGETATION SHOULD BE WATERED AS NEEDED. GETTING GRASS ESTABLISHED AS QUICKLY AS POSSIBLE IS VERY IMPORTANT.

**DETAIL 4  
ROLLED EROSION  
CONTROL PRODUCTS  
NOT TO SCALE**

I:\2018\1810-007\Cadd\Drawings\1810-007-FEDL\_Sediment\_Details.dwg(0002) LS(2018-07-05 - bhgprf) - LP: 7/5/2018 5:04 PM

REVISIONS		REVISIONS		DRAWN	CHECKED	APPROVED	DATE	SCALE	COORDINATE SYSTEM	PROJECT	DRAWING NUMBER
											04 OF 04
											REVISION

**EQUITRANS, L.P.**  
  
EQUITRANS, L.P.  
2200 ENERGY DRIVE  
CANONSBURG, PA 15317

**KEYSTONE**  
CONSULTANTS, INC.  
1000 TECHNOLOGY DRIVE  
FAIRMONT, WV 26554  
Ph:304/816-3165 Fax:304-443-3964  
www.keystoneconsultants.net

DRAWN: BCH  
CHECKED: BLB  
APPROVED: EAZ  
DATE: 08/27/2018  
SCALE: NA  
COORDINATE SYSTEM: WW83-NF  
PROJECT: 1810-007

**H527 SEDALIA PIG LAUNCHER**  
McClellan District, Doddridge County,  
West Virginia  
**EROSION & SEDIMENT CONTROL  
AND SITE RESTORATION  
DETAILS**

DRAWING NUMBER: **04**  
SHEET 04 OF 04  
REVISION

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**ATTACHMENT 3**  
**COLOR PHOTOGRAPHS**

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Color Photographs



Photo 1. Upstream view of S1 Robinson Fork facing northwest. (04/25/2018)



Photo 2. View of Wetland 1 facing southeast. (4/25/2018)



Photo 3. View of Wetland 2 facing northeast. (4/25/2018)

18-522



**The Culture Center**  
 1900 Kanawha Blvd., E.  
 Charleston, WV 25305-0300

**Randall Reid-Smith, Commissioner**

Phone 304.558.0220 • www.wvculture.org  
 Fax 304.558.2779 • TDD 304.558.3562

EEO/AA Employer

August 14, 2018

Mr. Ryan MacWilliams  
 Environmental Manager  
 Keystone Consultants, Inc.  
 32 East Main Street  
 Carnegie, PA 15106

AUG15 10 2:22PM

RE: H527 Sedalia Pig Launcher Project  
 FR#: 18-954-DO

Dear Mr. MacWilliams:

We have reviewed the above referenced project to determine potential effects to cultural resources. As required by Section 106 of the National Historic Preservation Act, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties," we submit our comments.

According to the submitted information, Equitrans, LP is proposing a project that consists of maintenance to the existing H527 pipeline and associated above ground appurtenances to allow for the future pigging of the pipeline. The pig launcher will be located beside an existing natural gas facility and will utilize the facility's existing access road. The total disturbance area for the proposed project is approximately 0.75 acres.

Archaeological Resources:

A search of our records indicates that no previously documented archaeological sites are located within the proposed project area. In addition, available information suggests the proposed project area has been previously disturbed, making it unlikely that significant archaeological sites would be encountered while maintenance activities are being conducted. As a result, it is our opinion that the proposed project will have no effect on archaeological historic properties. No further consultation is necessary.

Architectural Resources:

We have reviewed the submitted information, and based on the included photographs and project plans, it is our opinion the proposed pig launcher will not introduce any new substantial visual elements to the surrounding viewshed. Therefore, we have determined that the proposed project will affect no architectural properties eligible for or included in the National Register of Historic Places. No further consultation is necessary regarding architectural resources; however, we ask that you contact our office if your project should change.

We appreciate the opportunity to be of service. *If you have questions regarding our comments or the Section 106 process, please contact Lora A. Lamarre-DeMott, Senior Archaeologist, or Benjamin M. Riggle, Structural Historian, at (304) 558-0240.*

Sincerely,

Susan M. Pierce  
 Deputy State Historic Preservation Officer

for

SMP/LLD/BMR



18-522



# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

West Virginia Field Office  
90 Vance Drive  
Elkins, West Virginia 26241

AUG15 18 2:22PM

Contact Name: Ryan MacWilliams

Email Address or Fax Number: rmacwilliams@keystoneconsultants.net

FWS File # 2018-i-1069 **All future correspondence should clearly reference this FWS File #.**

Project: H527 Sedalia Pig Launcher, Doddridge County, WV

Date of Letter Request: July 9, 2018

This is in response to your letter requesting threatened and endangered species information in regard to the proposed project listed above. These comments are provided pursuant to the Endangered Species Act (ESA, 87 Stat. 884, as amended; 16 U. S. C. 1531 *et seq.*).

We have made a "no effect" determination that the project will not affect federally listed endangered or threatened species. Therefore no biological assessment or further section 7 consultation under the ESA is required with the Fish and Wildlife Service. Should project plans change or amendments be proposed that we have not considered in your proposed action, or if additional information on listed and proposed species becomes available, or if new species become listed or critical habitat is designated, this determination may be reconsidered.

Definitive determinations of the presences of waters of the United States, including wetlands, in the project area and the need for permits, if any, are made by the U.S. Army Corps of Engineers. They may be contacted at Huntington District, Regulatory Branch, 502 Eighth Street, Huntington, West Virginia, 25701, telephone (304) 399-5710.

Amanda Selmer

Date: 7/25/2018

Biologist

John E. Schmitt  
Field Supervisor

Date: 7/27/2018

# 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 16th of July, 2018, Keystone Consultant on behalf of Equitrans, LP filed an application for a Floodplain Permit (#18-522) to develop land located at or about 4073 WV RT 23 N; Coordinates: 39.355666N, -80.573233W. 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

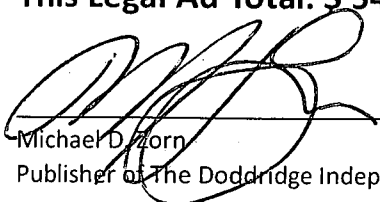
was published in The Doddridge Independent  
2 times commencing on Friday, July 20, 2018 and  
Ending on Friday, August 3, 2018 at the request of:

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

Given under my hand this Friday, August 3, 2018

The publisher's fee for said publication is:

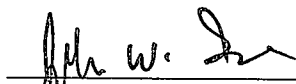
**\$ 31.30 1st Run/\$ 23.47 Subsequent Runs  
This Legal Ad Total: \$ 54.77**



Michael D. Zorn  
Publisher of The Doddridge Independent

Subscribed to and sworn to before me on

this date: 8 / 3 / 18



Notary Public in and for Doddridge County  
My Commission expires on

The 23 day of Aug 2022

### Floodplain Public Notice / Legal Notice

Please take notice that on the 16th of July, 2018, Keystone Consultant on behalf of Equitrans, LP filed an application for a Floodplain Permit (#18-522) to develop land located at or about 4073 WV RT 23 N; Coordinates: 39.355666N, -80.573233W. 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 8/27/2018 (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 Sedalia Pig Launcher Project. C2 07/20-08/03

