

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:

D&M Powell LLC
304 Stuart St.
West Union, WV. 26456



9590 9402 2859 7069 5445 44

2. Article Number (Transfer from service label)**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

-
- Agent
-
-
- Addressee

B. Received by (Printed Name)

DENNIS POWELL

C. Date of Delivery

8/11/17

- 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 2859 7069 5445 44

United States
Postal Service

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

Floodplain Manager
Doddridge County Office of Emergency Management
105 Court Street Ste 3
West Union WV. 26456

17-476

201205





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 #: 17-476

Date Approved: September 4, 2017 **Expires: September 4, 2018**

Issued to: Mark West Liberty Midstream Resources, LLC **POC: Richard Lowry/ local: Jesse Grogean**

Company Address: 320 South View Drive, Suite 200 Bridgeport, WV 26330

Project Address: Swisher Lane

Firm: 54017C0140C

Lat/Long: 39.277256N, -80.690055

Purpose of development: Replacement of Pipeline

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

Date: September 4, 2017

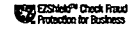
For additional information regarding this permit, please contact
Doddridge County Floodplain Manager at 304.873.2631, or via email at
doddridgecountyfpm@gmail.com
118 East Court Street; West Union, WV 26456

132320

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

333 BALDWIN ROAD
PITTSBURGH, PA 15205
(412) 429-2324

PNC BANK, N.A.
Pittsburgh, PA



8-9/430

CHECK DATE 8/1/2017

COPY

COPY

PAY Two Thousand Seven Hundred Fifty and 00/100 Dollars

COPY

AMOUNT 2,750.00

TO Doddridge County Commission

COPY


AUTHORIZED SIGNATURE

Security features. Details on back.

⑈ 132320 ⑈ ⑆043000096⑆ 0002272405⑈

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

132320

Check Date: 8/1/2017

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
07312017	7/31/2017	000000296243	2,750.00			2,750.00
Doddridge County Commission			TOTAL			2,750.00
- Operating Account	4	11261				

COPY

FP # 17-476

COPY

COPY

AUG 3 17 11:10AM



Check Date: 8/1/2017

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
07312017	7/31/2017	000000296243	2,750.00			2,750.00
Doddridge County Commission - Operating Account 4 11261			TOTAL 2,750.00			2,750.00

FP # 17-476

Doddridge County, West Virginia

RECEIPT NO: 9472

DATE: 2017/08/03

FROM: CIVIL & ENVIRONMENTAL CONSULTANTS AMOUNT: \$

2,750.00

TWO THOUSAND SEVEN HUNDRED FIFTY DOLLARS AND 00 CENTS

FOR: #17-476 FLOODPLAIN

00000132320 FP-BUILDING PERMITS

020-318 TOTAL: \$2,750.00

MICHAEL HEADLEY
SHERIFF & TREASURER

MEC
CLERK

Customer Copy



FLOODPLAIN PERMIT #17-476

Buckeye Creek Pipeline Replacement – Mark West

TASK	COMPLETE (DATE)	NOTES
CHECK RECEIVED	8-3-17	
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	8-15-17	
DATE AVAILABLE TO BE GRANTED	9-4-17	
PERMIT GRANTED	9-4-17	
COMPLETE		



Doddridge County Floodplain Permits

(Week of August 7, 2017)

Please take notice that on the 3rd day of August, 2017, **Civil & Environmental Consultants, Inc.** on behalf of **Mark West Liberty Midstream and Resources, LLC** filed an application for a Floodplain Permit **(#17-476)** to develop land located at or about **Smithton Road & Swisher Lane on Buckeye Creek** **Coordinates 39.277256 N, -80.690055 W**. The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **September 4, 2017** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. **This project is replacement of pipeline**



Civil & Environmental Consultants, Inc.
333 Baldwin Road

Pittsburgh, PA 15205-1751
Phone: (412) 429-2324 · Toll Free: (800) 365-2324
Fax: (412) 429-2114

Letter of Transmittal

Date: 8/2/2017

Job No.: 110-811

Attention: Mr. George Eidel

To:

Doddridge County Floodplain Manager
118 East Court Street
West Union, WV 26456

RE:

Pipeline Replacement Floodplain Permit

We are sending you attached via *FedEx Standard* the following items:

- Shop drawings Prints Plans Samples Specifications
 Copy of letter Change order Floodplain Permit Application

Copies	Date	No.	Description
1	08/02/2017		Floodplain Permit Application

- For approval Approved as submitted Resubmit _ copies for approval
 For your use Approved as noted Submit _ copies for distribution
 As requested Returned for corrections Return _ prints
 For review and comment _
 For bids due Prints returned after loan to us

Remarks: Please find attached to this letter a copy of the Floodplain Permit Application. Please feel free to call me at 412-429-2324 if you have any questions.

Copy to:

Signed:

Andrew R. Gullone P.E.

AUG 3 17 11:07AM



Permit# 17-476
 Project Name: Buckeye Creek Pipeline Replacement
 Permittees Name: Mark West
Liberty Midstream

Doddridge County, WV

AUG 3 17 11:07AM

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. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. The permit will expire if no work is commenced within six months of issuance.
6. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
8. 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 _____

DATE _____

[Handwritten Signature]
8/1/17

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: MarkWest Liberty Midstream & Resources, LLC		
Corporate Mailing Address: 4600 J. Barry Court, Suite 500		
City: Canonsburg	State: PA	Zip: 15317
Corporate Point of Contact (POC): Richard Lowry		
Corporate POC Title: Environmental Manager – New Construction		
Corporate POC Primary Phone: (724) 416-0520		
Corporate POC Primary Email: Richard.lowry@markwest.com		
Corporate FEIN: 30-0528059	Corporate DUNS:	
Corporate Website:		
Local Mailing Address: 320 South View Drive, Suite 200		
City: Bridgeport	State: WV	Zip: 26330
Local Project Manager (PM): Jesse Grogean		
Local PM Primary Phone: (419) 348-7301		
Local PM Secondary Phone:		
Local PM Primary Email: Jesse.Grogean@markwest.com		
Person Filing Application: Richard Lowry		
Applicant Title: Environmental Manager – New Construction		
Applicant Primary Phone: (724) 416-0520		
Applicant Secondary Phone: (412) 925-8165		
Applicant Primary Email: Richard.lowry@markwest.com		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Project Narrative:

Describe in detail the proposed development including project name/title, type of development, estimated start and completion timeline, and its potential impact on the floodplain. Use additional copies of this page as needed.

Project Narrative:
MarkWest is proposing to remove and replace approximately 200 linear of three existing pipelines
that have become exposed at the Buckeye Creek crossing. The pipelines will be within a new Limit
of Disturbance and will cross one stream. The project will require work within the stream and
within the stream floodplain. Coffey dams will be used to temporarily divert water
while the removal and replacement are underway. Once work has been completed, the dams
will be removed and the site shall be restored to existing grade and conditions.

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 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)

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 3

Site/Property Information:		
Legal Description: See Attachment		
Physical Address/911 Address: Swisher Lane		
Decimal Latitude/Longitude: N 39.27744508°/E -80.69008442°		
DMS Latitude/Longitude: N 39° 16' 38.80"/E -80° 41' 24.30"		
District: Grant	Map: 19	Parcel: 31.6
Land Book Description:		
Deed Book Reference: DBV 346, PG. 457		
Tax Map Reference: Tax Map 19		
Existing Buildings/Use of Property: Existing meadow, stream, and Right-of-Way		

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

PROPERTY DESCRIPTION
5.758 ACRES
GRANT DISTRICT, COUNTY OF DODDRIDGE,
STATE OF WEST VIRGINIA

All that certain 5.758 acres of land situate in the Grant District, County of Doddridge, State of West Virginia, on the waters of Buckeye Creek, being part of land now or formerly of Dennis H. Powell (second tract), as recorded in Deed Book Volume 200, Page 532, more particularly bounded and described as follows:

BEGINNING FOR REFERENCE at an iron pipe set at the northwest corner of property of now or formerly Billy D. Carroll, as recorded in Deed Book Volume 140, Page 190, said point also being at the northeast corner of property of now or formerly Dennis H. Powell, as recorded in Deed Book Volume 200, Page 532, said point also being on the southerly right of way line of The State of West Virginia, West Virginia Railroad Maintenance Authority, as recorded in Deed book Volume 216, Page 166, variable width; thence along the northerly line of property of now or formerly Dennis H. Powell and along the southerly right of way line of the The State of West Virginia, West Virginia Railroad Maintenance Authority, variable width, the following eighteen (18) courses and distances, viz: thence South 77°19'37" West, 743.13' to an iron pipe set; thence South 55°33'48" West, 40.27' to an iron pipe set; thence South 59°34'48" West, 111.00' to an iron pipe set; thence South 65°43'48" West, 111.00' to an iron pipe set; thence South 67°29'54" West, 34.97' to an iron pipe set; thence North 20°36'12" West, 77.00' to an iron pipe set; thence South 72°53'48" West, 52.00' to an iron pipe set; thence South 77°41'48" West, 103.00' to an iron pipe set; thence South 81°59'48" West, 103.00' to an iron pipe set; thence South 86°58'48" West, 103.00' to an iron pipe set; thence North 84°41'12" West, 103.00' to an iron pipe set; thence North 81°03'12" West, 103.00' to an iron pipe set; thence North 74°31'12" West, 103.00' to an iron pipe set; thence North 69°06'12" West, 103.00' to an iron pipe set; thence North 62°17'12" West, 103.00' to an iron pipe set; thence North 57°06'12" West, 103.00' to an iron pipe set; thence North 52°46'12" West, 103.00' to an iron pipe set; thence North 48°29'12" West, 2.54' to an iron pipe set on the northerly line of property of now or formerly Dennis H. Powell, being the **TRUE PLACE OF BEGINNING**; thence through the property of now or formerly Dennis H. Powell the following three (3) courses and distances, viz: South 41°30'48" West, 285.00' to an iron pipe set; thence North 48°29'12" West, 880.00' to an iron pipe set (iron pipe set at 440.00') ; thence North 41°30'48" East, 285.00' to an iron pipe set on the southerly right of way line of The State of West Virginia, West Virginia Railroad Maintenance Authority, variable width; thence along the southerly right of way line of The State of West Virginia, West Virginia Railroad Maintenance Authority, variable width, South 48°29'12" East, 880.00' to an iron pipe set at the true place of beginning.

Contains: 250,800.00 Sq. Ft. or 5.758 Acres.

EXCEPTING AND RESERVING a Permanent Channel Change Easement located in Deed Book 156, Page 206, and a Telephone Utility Easement located in Deed Book 130, Page 410.

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 3

Site/Property Information:		
Legal Description: See Attachment – A portion of the D&M Powell LLC Property was recently purchased by MarkWest Liberty Midstream & Resources, LLC as part of parcel 32. The Tax Map has not been updated.		
Physical Address/911 Address: Swisher Lane		
Decimal Latitude/Longitude: N 39.27744508°/E -80.69008442°		
DMS Latitude/Longitude: N 39° 16' 38.80"/E -80° 41' 24.30"		
District: Grant	Map: 19	Parcel: 31
Land Book Description:		
Deed Book Reference: DBV 346, PG. 457		
Tax Map Reference: Tax Map 19		
Existing Buildings/Use of Property: Existing meadow, stream, and Right-of-Way		

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

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 3

Site/Property Information:		
Legal Description: See Attachment – A portion of the D&M Powell LLC Property was recently purchased by MarkWest Liberty Midstream & Resources, LLC as part of parcel 32. The Tax Map has not been updated.		
Physical Address/911 Address: Swisher Lane		
Decimal Latitude/Longitude: N 39.27744508°/E -80.69008442°		
DMS Latitude/Longitude: N 39° 16' 38.80"/E -80° 41' 24.30"		
District: Grant	Map: 19	Parcel: 32
Land Book Description:		
Deed Book Reference: DBV 346, PG. 457		
Tax Map Reference: Tax Map 19		
Existing Buildings/Use of Property: Existing meadow, stream, and Right-of-Way, Natural Gas Processing Facility		

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

PROPERTY DESCRIPTION
257.495 ACRES
PARCEL A OF THE
SHERWOOD PLANT CONSOLIDATION PLAN
GRANT DISTRICT, COUNTY OF DODDRIDGE,
STATE OF WEST VIRGINIA

All that certain 257.495 acres, being Parcel A of the Sherwood Plant Consolidation Plan (to be recorded), situate in Grant District, County of Doddridge, State of West Virginia, on the waters of Buckeye Creek, being part of land now or formerly Dennis H. Powell (second & fourth tracts) as recorded in Deed Book Volume 200, Page 532, being more particularly bounded and described as follows:

BEGINNING AT A POINT on an existing stone at the westerly corner of property of now or formerly Dennis H. Powell (fourth tract), recorded in Deed Book Volume 200, Page 532, said stone also being on the easterly line of property of now or formerly Howard J. Rivers, recorded in Deed Book Volume 249, Page 356; thence along the northerly line of property of now or formerly Howard J. Rivers the following four (4) courses and distances, viz: North $33^{\circ}17'31''$ East, 264.13' to a capped rebar set; thence North $57^{\circ}54'19''$ West, 102.11' to a capped rebar set; thence North $52^{\circ}54'19''$ West, 145.20' to a capped rebar set; thence North $73^{\circ}24'19''$ West, 225.37' to a capped rebar set on the southerly line of property of now or formerly Dennis H. Powell; thence through the property of now or formerly Dennis H. Powell the following eight (8) courses and distances, viz: North $15^{\circ}49'45''$ East, 2304.02' to a capped rebar set; thence North $02^{\circ}42'33''$ West, 647.27' to a capped rebar set; thence North $88^{\circ}57'32''$ East, 57.52' to a capped rebar set; thence North $76^{\circ}26'19''$ East, 311.96' to a capped rebar set; thence South $88^{\circ}02'36''$ East, 122.42' to a capped rebar set; thence South $75^{\circ}10'25''$ East, 224.21' to a capped rebar set; thence North $89^{\circ}02'55''$ East, 192.57' to a capped rebar set; thence North $25^{\circ}07'41''$ East, 537.92' to a capped rebar set on the southerly right of way line of The State of West Virginia, West Virginia Railroad Maintenance Authority, as recorded in Deed Book Volume 216, Page 166; thence along the southerly right of way line of The State of West Virginia, West Virginia Railroad Maintenance Authority the following six (6) courses and distances, viz: South $20^{\circ}36'12''$ East, 77.00' to a capped rebar set; thence North $67^{\circ}29'54''$ East, 34.97' to a capped rebar set; thence North $65^{\circ}43'48''$ East, 111.00' to a capped rebar set; thence North $59^{\circ}34'48''$ East, 111.00' to a capped rebar set; thence North $55^{\circ}33'48''$ East, 40.27' to a capped rebar set; thence North $77^{\circ}19'37''$ East, 743.13' to a capped rebar set at the northwest corner of property of now or formerly Billy D. Carroll, as recorded in Deed Book Volume 140, Page 190; thence along the Westerly line of property of now or formerly Billy D. Carroll the following eleven (11) courses and distances, viz: South $14^{\circ}30'56''$ East, 715.45' to a point; thence South $34^{\circ}26'09''$ East, 107.25' to a point; thence South $24^{\circ}26'09''$ East, 396.00' to a point; thence South $16^{\circ}26'09''$ East, 198.00' to a point; thence South $05^{\circ}33'51''$ West, 226.88' to a point; thence South $06^{\circ}56'09''$ East, 247.50' to a point; thence South $11^{\circ}33'51''$ West, 276.37' to a point; thence South $05^{\circ}03'51''$ West, 478.50' to a point; thence South $04^{\circ}26'09''$ East, 330.00' to a point; thence South $03^{\circ}33'51''$ West, 222.75' to a point; thence South $09^{\circ}26'09''$ East, 330.00' to a point on the northerly line of property of

now or formerly Glenn R. Long, as recorded in Deed Volume 230, Page 493; thence along the northerly line of property of now or formerly Glenn R. Long South 89°33'51" West, 148.50' to a capped rebar set at the northeast corner of property of now or formerly Jeremy M. Sutton, as recorded in Deed Book Volume 266, Page 374; thence along the northerly line of property of now or formerly Jeremy M. Sutton the following eleven (11) courses and distances, viz: South 65°24'18" West, 141.35' to a capped rebar set; thence South 35°50'50" West, 189.75' to a capped rebar set; thence South 31°05'50" West, 165.00' to a capped rebar set; thence South 18°20'50" West, 181.50' to a capped rebar set; thence South 17°50'50" West, 148.50' to a capped rebar set; thence South 25°20'50" West, 148.50' to a capped rebar set; thence South 41°50'50" West, 107.25' to a capped rebar set; thence South 41°50'50" West, 152.63' to a capped rebar set; thence South 33°50'50" West, 297.00' to a capped rebar set; thence South 55°50'50" West, 202.13' to a capped rebar set; thence South 21°39'10" East, 123.75' to a capped rebar set at a northeasterly corner of property of now or formerly Howard J. Rivers; thence along the northerly line of property of now or formerly Howard J. Rivers the following two (2) courses and distances, viz: South 49°50'50" West, 621.33' to a capped rebar set; thence North 45°57'17" West, 1837.63' to an existing stone at the place of beginning.

Contains: 11,216,484.16 Sq. Ft. or 257.495 Acres.

Bearing basis is the West Virginia State Plane North Zone Grid, NAD 1983.

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> 2 </u>
--

Property Owner Data:		
Name of Primary Owner (PO): MarkWest Liberty Midstream & Resources LLC		
PO Address: 304 Stuart Street		
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): MarkWest Liberty Midstream & Resources LLC		
PO Address: 304 Stuart Street		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Mineral Rights Owner Data: (As Applicable)		
Name of Primary Owner (PO): N/A		
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> 2 </u> of <u> 2 </u>
--

Property Owner Data:		
Name of Primary Owner (PO): D&M Powell LLC		
PO Address: 304 Stuart Street		
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): D&M Powell LLC		
PO Address: 304 Stuart Street		
City: West Union	State: WV	Zip: 26456
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Mineral Rights Owner Data: (As Applicable)		
Name of Primary Owner (PO): N/A		
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: 1 of 1

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: Civil & Environmental Consultants, Inc.		
Engineer WV License Number: 17441		
Engineer Firm FEIN: 25-1599565	Engineer Firm DUNS: 36-160-9878	
Engineer Firm Primary Point of Contact (POC): George J. Haberman, P.E.		
Engineer Firm Primary POC Title: Senior Project Manager		
Engineer Firm Mailing Address: 333 Baldwin Road		
City: Pittsburgh	State: PA	Zip-Code: 15205
Engineer Firm Office Phone: (412) 429-2324		
Engineer Firm Primary POC Phone: (412) 249-3189		
Engineer Firm Primary POC E-Mail: ghaberman@cecinc.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): N/A		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): N/A		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): N/A		
Physical Address:		
City:	State:	Zip:
PO Primary Phone:		
PO Secondary Phone:		
PO Primary Email:		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): N/A		
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.

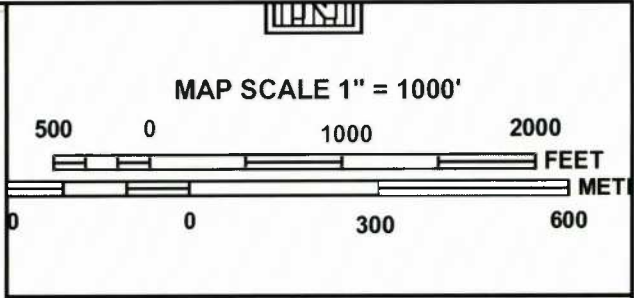
Applicant

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 been properly attained, are current and valid, and must be presented with this application before a Doddridge County Floodplain Permit may be 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 at the next scheduled Doddridge County Commission meeting after the date of issuance. 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. A Certificate of Compliance is required upon substantial completion of the project.**
- 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: _____ Date: _____

Applicant Printed Name: _____



JOINS PANEL 0145

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0140C

FIRM
FLOOD INSURANCE RATE MAP
DODDRIDGE COUNTY,
WEST VIRGINIA
AND INCORPORATED AREAS

PANEL 140 OF 325
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	U140	C

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.



MAP NUMBER
54017C0140C
MAP REVISED
OCTOBER 4, 2011

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

WV Flood Map



PIPELINE CROSSING OF BUCKEYE CREEK

0 0.035 0.07 0.14 Miles

or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

- Cross Section (XS) Lines
- Base Flood Elevation (BFE) Lines

Floodway

Location of flood information

User Notes:
SHERWOOD PIPELINE
REPLACEMENT

Map created on May 24, 2017

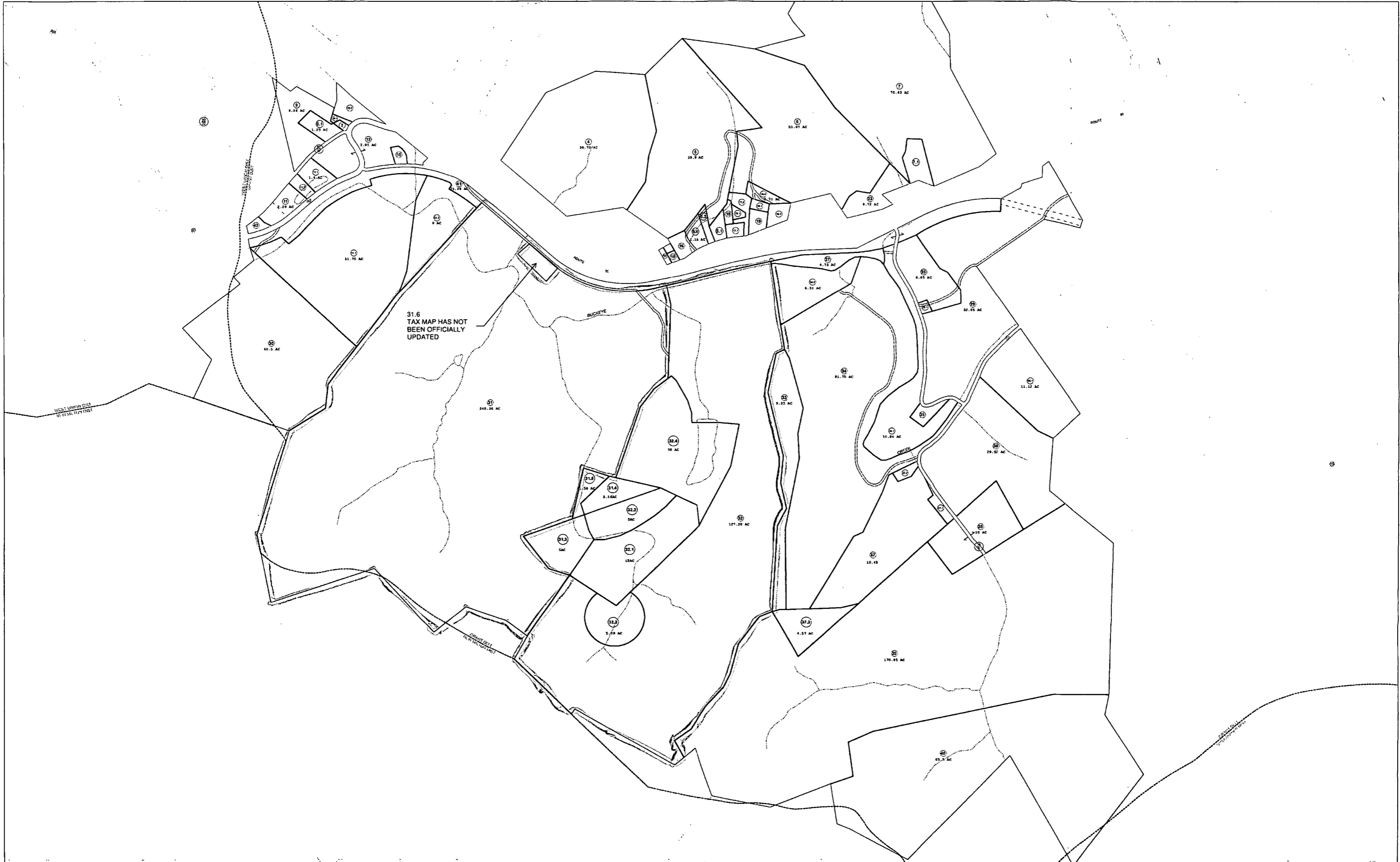
Flood Hazard Zone

- Approximate Study (Zone A)
- Detailed Study (AE, AH, AO)
- High : 134.442
- Low : -7.71759

Flood Hazard Area:	
Flood Hazard Area: Location is WITHIN the FEMA 100-year floodplain.	
Flood Hazard Zone:	AE
Stream:	Buckeye Creek
FEMA Issued Flood Map:	54017C0140C
Watershed (HUC8):	Little Musringum-Middle Island (5031)
Advisory Flood Height:	N/A
Water Depth:	About 10.0 ft (Source: HAZUS)
Elevation:	About 804 ft
Location (long, lat):	(80.690055 W, 39.277256 N)
Location (UTM 17N):	(526734, 4347590)
Contacts:	Doddridge
CRS Information:	N/A
Flood Profile:	54017_003
HEC-RAS Model:	N/A
Parcel Number:	No Parcel

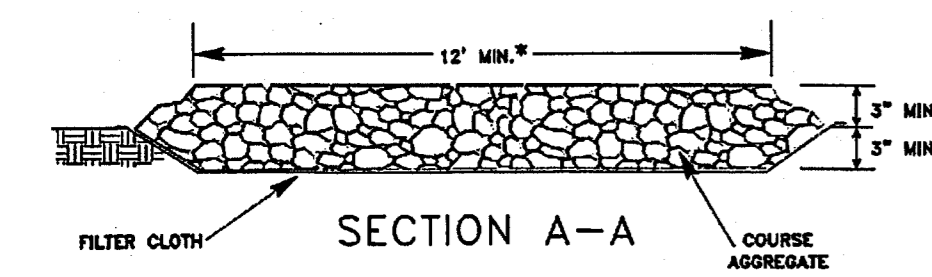
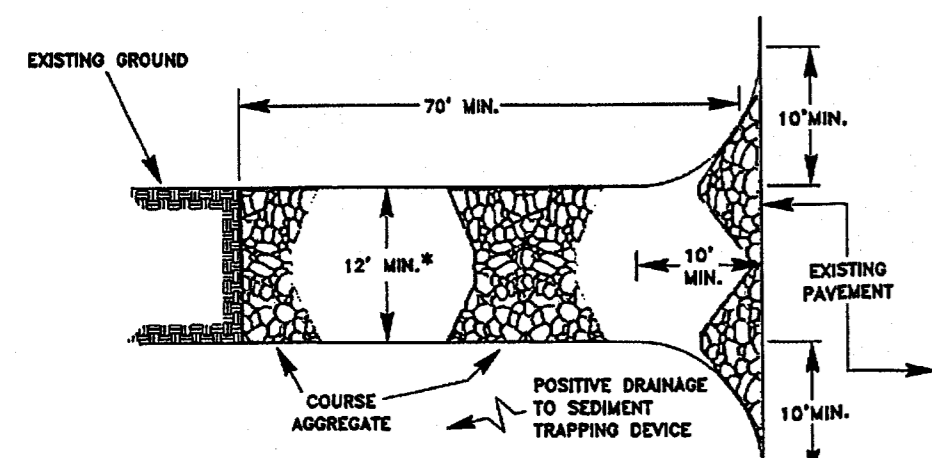
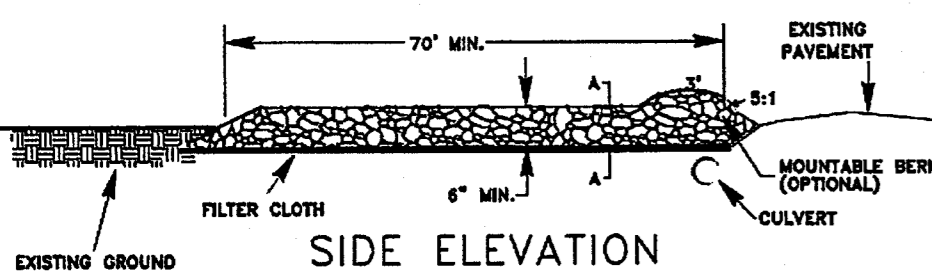
Disclaimer:

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. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.
 WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.

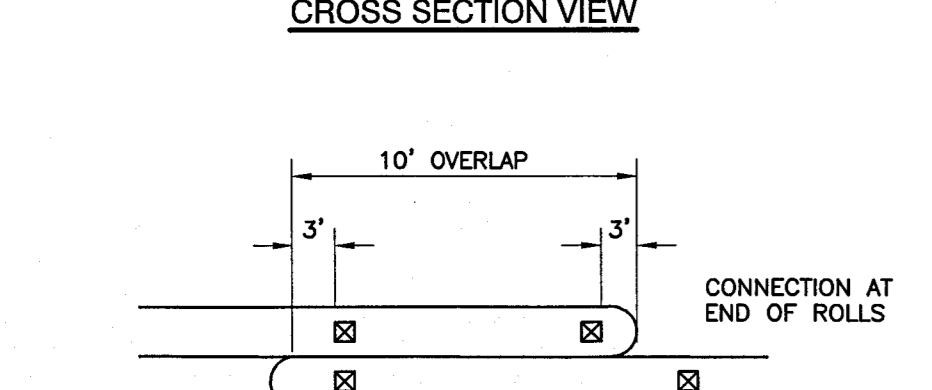
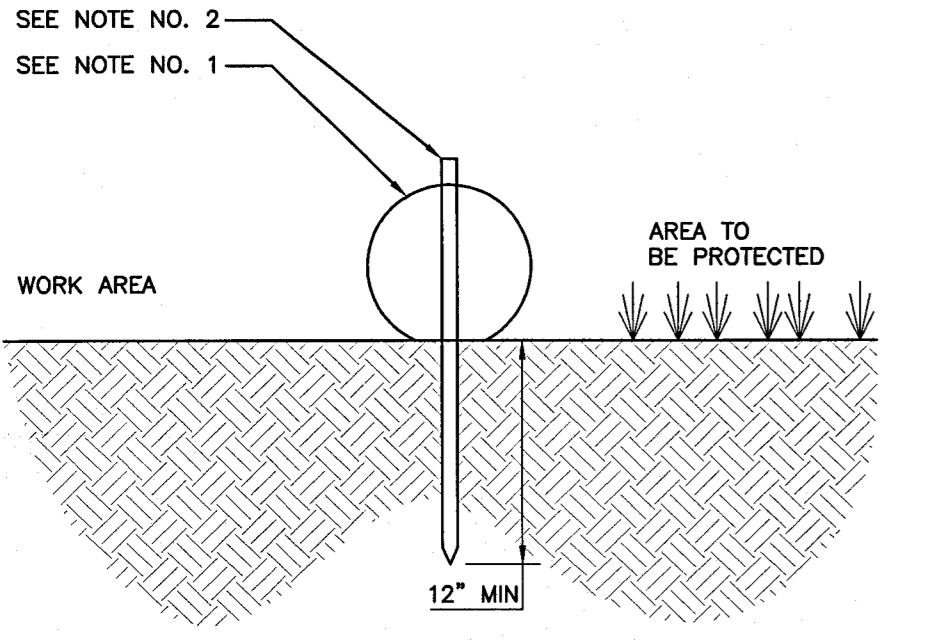


For Tax Purposes Only 		Legend	Revisions	<table border="1" style="margin: auto;"> <tr><td>16</td><td>17</td></tr> <tr><td>19</td><td>20</td></tr> <tr><td>23</td><td></td></tr> </table>	16	17	19	20	23		STATE OF WEST VIRGINIA DODDRIDGE COUNTY Office of Assessor	District GRANT SHEET NO: 19 <small>Date, Aerial Photography _____ Date, Map _____</small> <small>Photo No. _____ Scale: 1" = 400'</small>									
		16	17																		
19	20																				
23																					
--- Original Lot Line --- Property --- Hydrolog --- Road and Railroad R/W --- Road Easement --- Road Right of Way Route Number: H Lot Number: L Parcel Number: P Parcel Hook: H District: D	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>1</td><td>2-14-13</td><td>7</td></tr> <tr><td>2</td><td>1/2014</td><td>8</td></tr> <tr><td>3</td><td></td><td>9</td></tr> <tr><td>4</td><td></td><td>10</td></tr> <tr><td>5</td><td></td><td>11</td></tr> <tr><td>6</td><td></td><td>12</td></tr> </table>	1	2-14-13	7	2	1/2014	8	3		9	4		10	5		11	6		12		
1	2-14-13	7																			
2	1/2014	8																			
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5		11																			
6		12																			

STONE CONSTRUCTION ENTRANCE

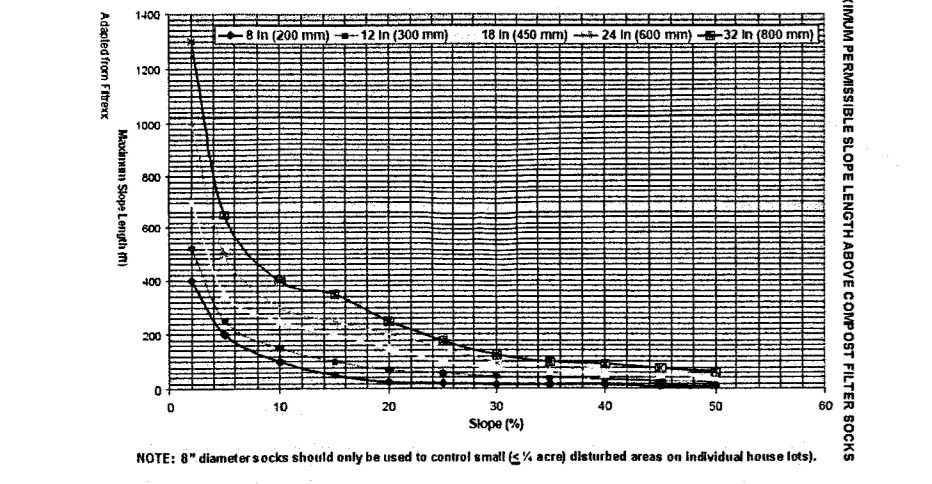


**DETAIL 1
ROCK CONSTRUCTION ENTRANCE/EXIT**
NOT TO SCALE



**COMPOST FILTER SOCK AT OVERLAP
TOP VIEW**

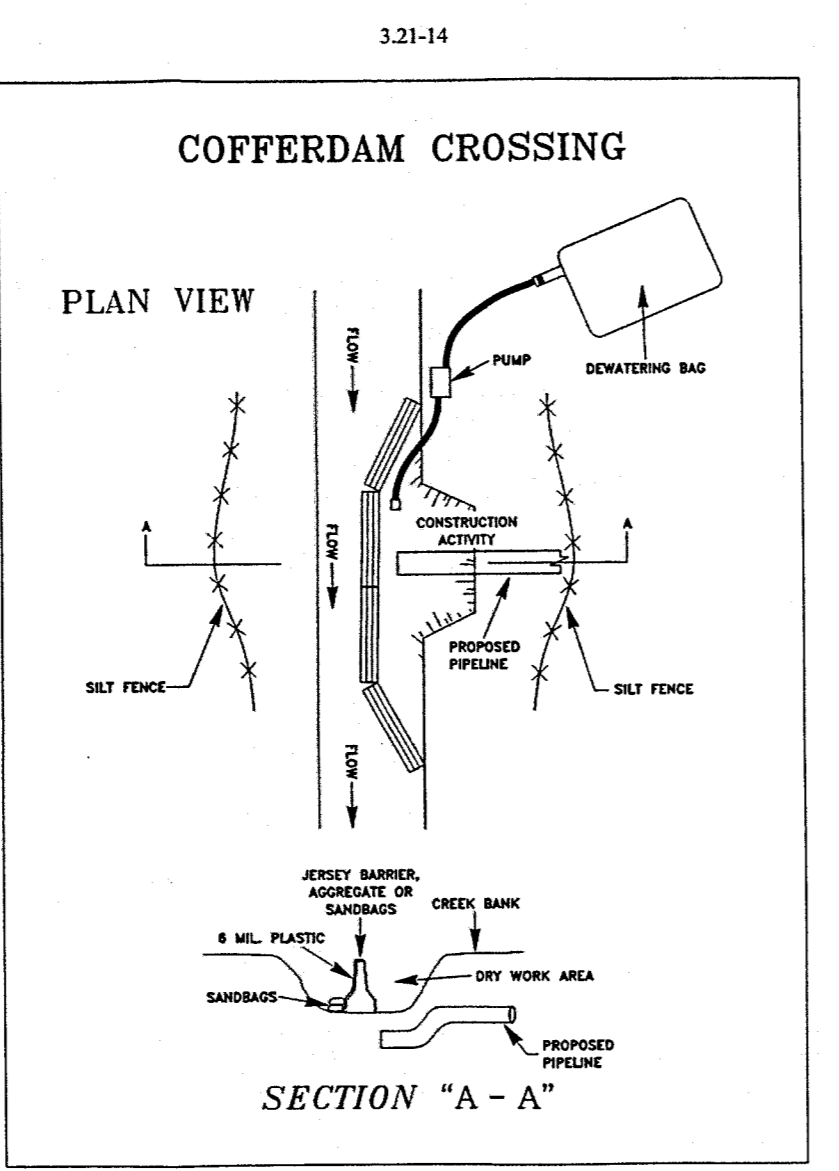
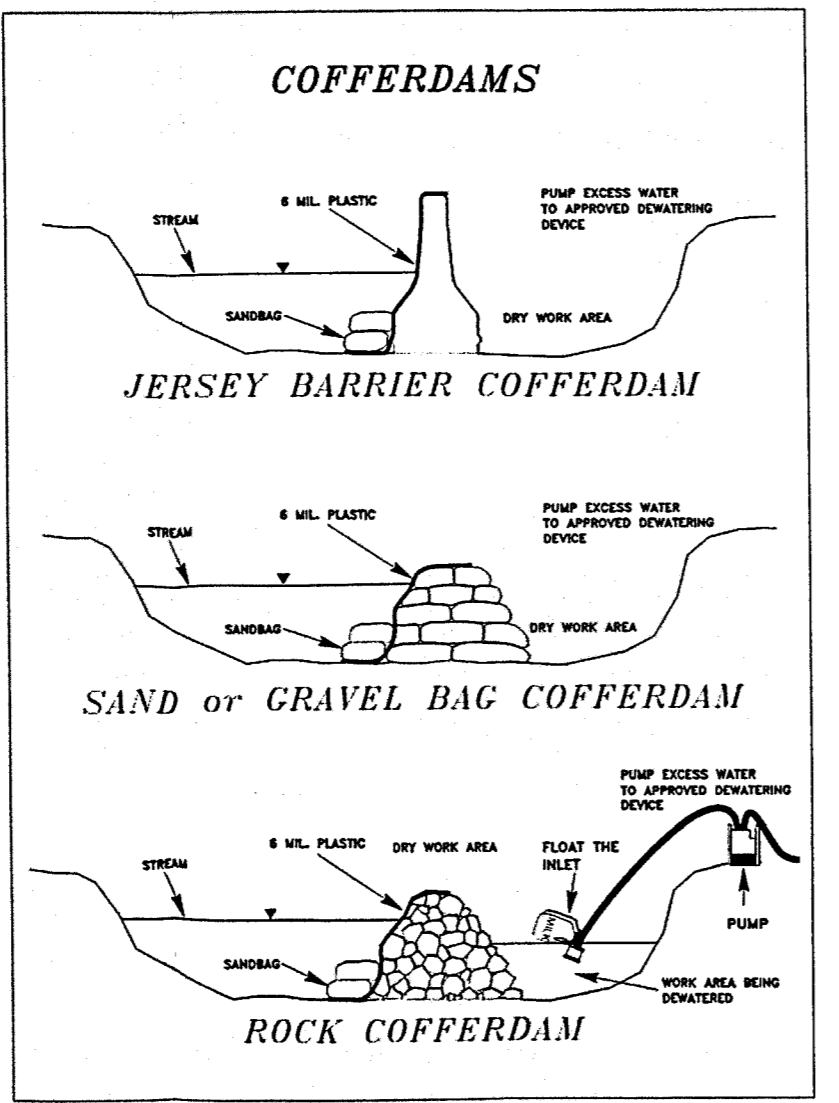
- NOTES:**
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
 2. STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE COMPOST FILTER SOCK ON 10 FOOT CENTERS, USING 2-INCH BY 2-INCH WOODEN STAKES.
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE AS DETERMINED BY ENGINEER.



COMPOST FILTER SOCK SIZING TABLE

**DETAIL 2
COMPOST FILTER SOCK**
NOT TO SCALE

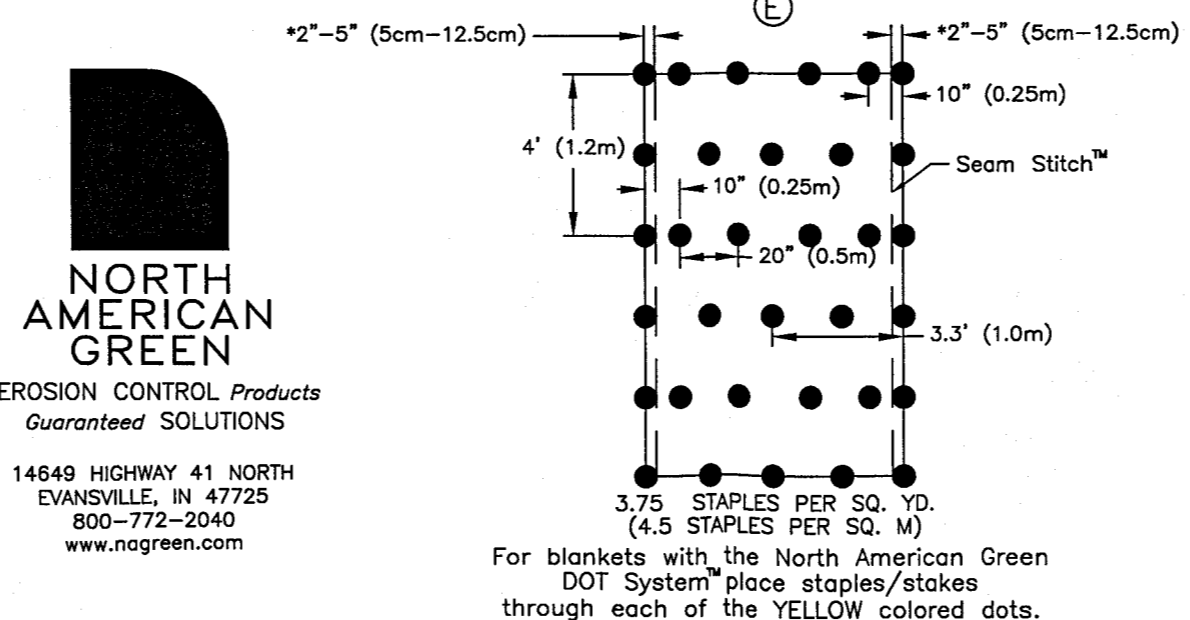
- REFERENCE**
1. EXISTING TOPOGRAPHY FLOWN AND DEVELOPED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. ON MARCH 23, 2016.
 2. STREAM AND WETLANDS DELINEATED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. FROM JULY 2011 - AUGUST 2011, AND MARCH 2014.
 3. EXISTING UTILITIES LOCATED BY CEC AND THE CHAPMAN CORPORATION.



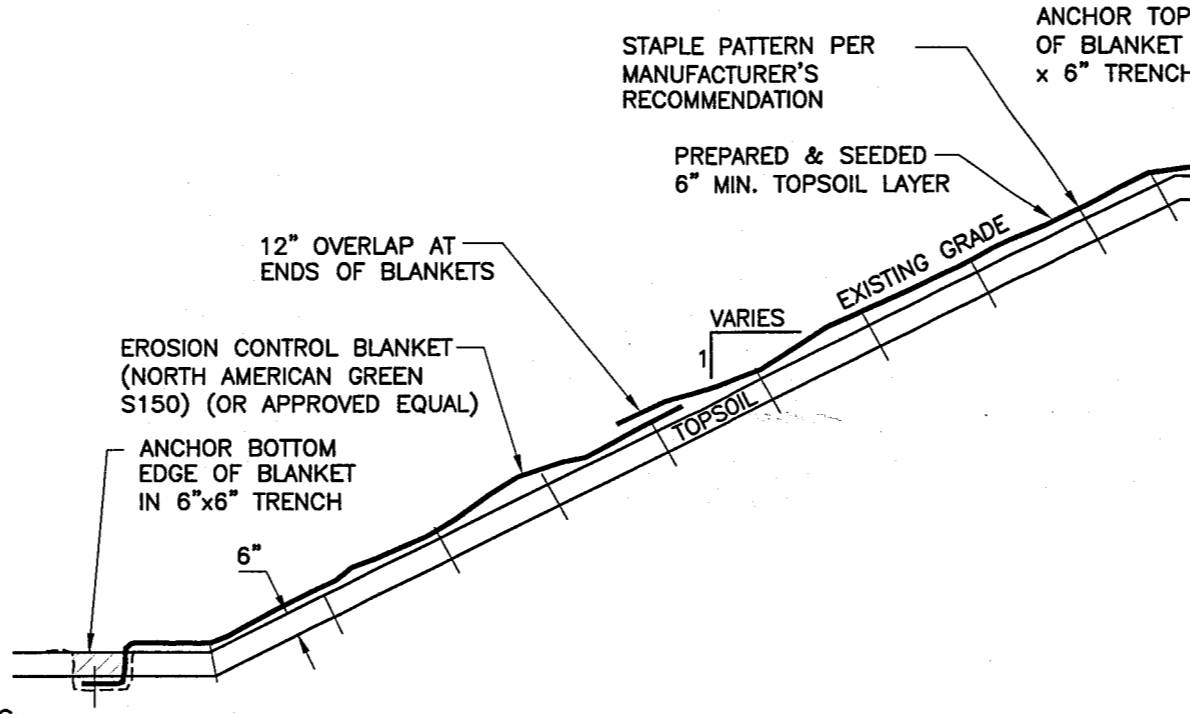
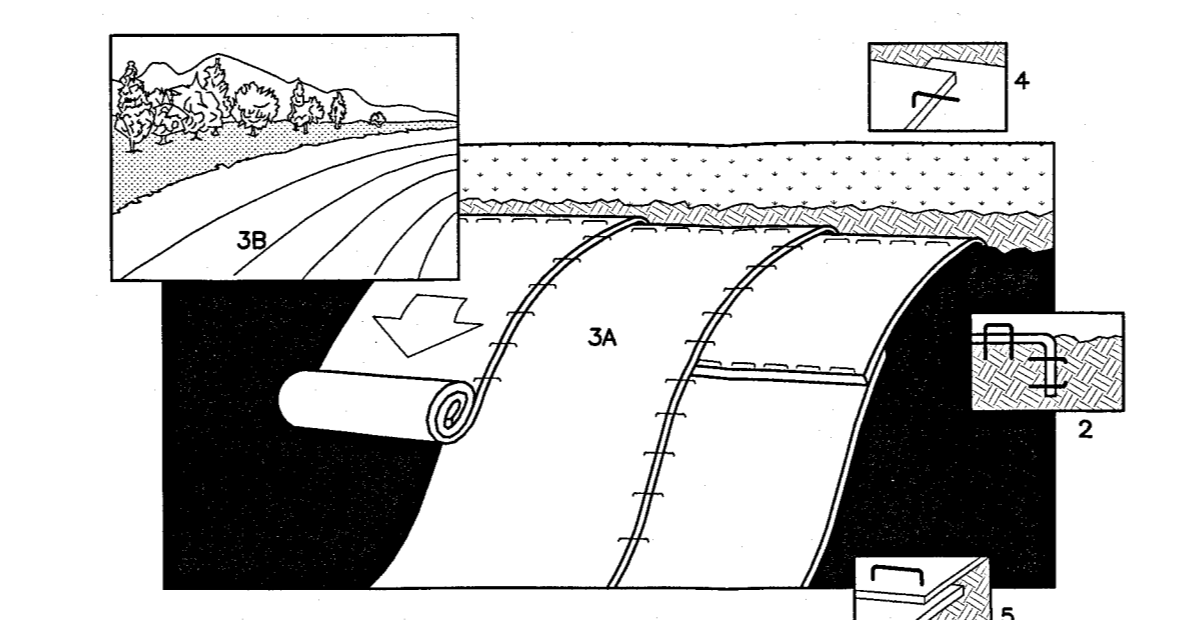
- NOTES:**
1. CONSTRUCTION SHOULD BE PERFORMED IN LOW FLOW PERIODS.
 2. CROSSING SHALL BE ACCOMPLISHED IN A MANNER THAT WILL NOT INHIBIT THE FLOW OF THE STREAM.
 3. DEWATERING TO BE ACCOMPLISHED IN ACCORDANCE WITH SECTION FOR DEWATERING. SEE THE WEST VIRGINIA EROSION AND SEDIMENTATION CONTROL BEST MANAGEMENT PRACTICES MANUAL 2006.
 4. COFFERDAMS SHOULD NOT EXTEND BEYOND 2/3 THE WIDTH OF THE STREAMBED TO ALLOW FOR STREAM FLOWS.
 5. AS WITH ALL UTILITY LINE CROSSINGS, APPROACH AREAS SHOULD BE CONTROLLED WITH PERIMETER MEASURES (SILT FENCE, DIVERSIONS, ETC.).
 6. FORM A COFFERDAM BY PLACING STONE OR SANDBAGS, JERSEY BARRIERS (OR OTHER NON-ERODIBLE MATERIALS), COVERED BY AN IMPERVIOUS MATERIAL IN A SEMICIRCLE ALONG THE SIDE OF THE STREAM IN WHICH THE UTILITY INSTALLATION WILL BEGIN. IT MUST BE SURROUNDED AND UNDERLAIN WITH FILTER CLOTH AS SHOWN IN THE DRAWING. THE HEIGHT OF AND AREA WITHIN THE DAM WILL DEPEND UPON THE SIZE OF THE WORK AREA AND THE AMOUNT OF STREAM FLOW. STACK MATERIALS AS HIGH AS WILL BE NECESSARY TO KEEP WATER FROM OVERTOPPING THE DAM AND FLOODING THE WORK AREA.
 7. COFFERDAMS SHOULD BE NO MORE THAN ONE HALF THE HEIGHT OF THE STREAM BANK PLUS ONE-FOOT.
 8. WHEN THE STREAM FLOW IS SUCCESSFULLY DIVERTED BY THE COFFERDAM, DEWATER THE WORK AREA INTO A DEWATERING STRUCTURE.
 9. STABILIZATION OF THE CROSSING, STREAMBANKS, AND APPROACHES SHOULD OCCUR IMMEDIATELY FOLLOWING COMPLETION OF THE CROSSING.

**DETAIL 3
COFFER DAM AND DEWATERING PUMP**
NOT TO SCALE

**DOT SYSTEM™
STAPLE PATTERN GUIDE**

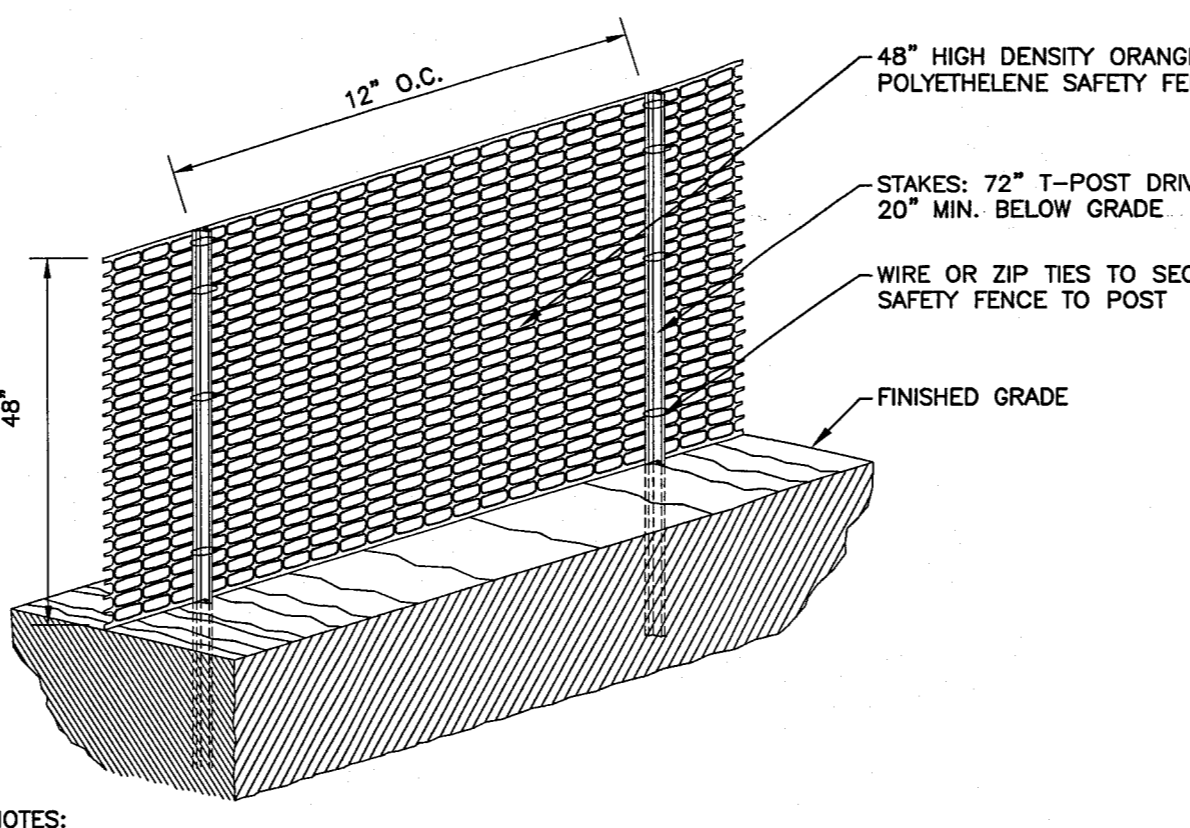


**DETAIL 4
EROSION CONTROL BLANKET STAPLE PATTERN**
NOT TO SCALE



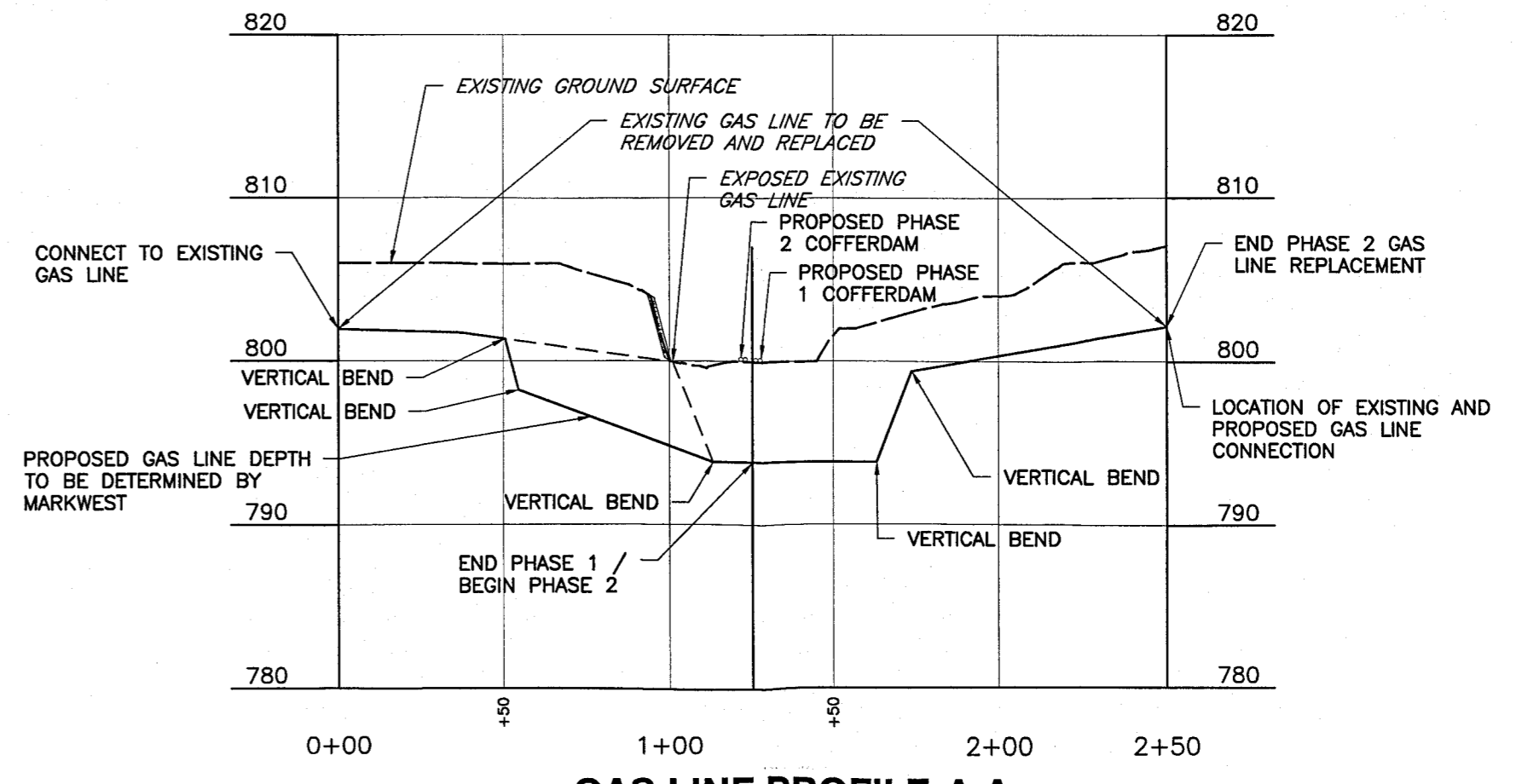
- NOTES:**
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED.
 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE.
 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
 5. WHEN BLANKETS MUST BE SPICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 12" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
 6. EROSION CONTROL BLANKETS SHALL BE INSTALLED ON ALL 3:1 OR STEEPER SLOPES.
 7. REFER TO DETAIL 4, THIS SHEET FOR STAPLE PATTERN.

**DETAIL 5
EROSION CONTROL BLANKET**
NOT TO SCALE



- NOTES:**
1. ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
 2. SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE T-POSTS.
 3. THE FENCING MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

**DETAIL 6
ORANGE CONSTRUCTION FENCE DETAIL**
NOT TO SCALE



GAS LINE PROFILE A-A
SCALE H:1"=50'; V:1"=10'



- NOTES:**
1. THE RIVER BANK SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS.
 2. SITE SPECIFIC SEED MIXES, INCLUDING NATIVE GRASSES, SHOULD BE INSTALLED ON THE PREPARED SUBGRADE PRIOR TO INSTALLING THE FLEXAMAT EROSION CONTROL MATERIALS.
 3. THE TOP EDGE OF THE FLEXAMAT SHOULD BE A MINIMUM OF 3' ABOVE THE EXPECTED HIGH WATER ELEVATION OF THE RIVER AND THE BOTTOM EDGE SHOULD BE A MINIMUM OF 4' BELOW THE EXPECTED LOW WATER ELEVATION. FOR APPLICATIONS WHERE WATER DEPTH IS BELOW 4', MAT SHALL EXTEND 2' PAST THE TOE.
 4. FLEXAMAT IS AVAILABLE IN WIDTHS OF 4', 5.5', 6', 10', 12', AND 16'.
4.1 FOR WIDTHS WIDER THAN 16", INSTALL MATS ADJACENT TO ONE ANOTHER. BRIDGE LONGITUDINAL SEAM WITH 48" UNDERLAYMENT. 24" OF UNDERLAYMENT SHALL BE UNDER EACH MAT AND DIRECTLY AGAINST THE SUBGRADE.
4.2 FLIP FLEXAMAT SECTIONS BACK INTO PLACE SO THAT THEY FIT TIGHTLY.
4.3 SECURE FLEXAMAT TO SEAM BY INSTALLING U-ANCHORS IN 3' INCREMENTS THE LENGTH OF THE LONGITUDINAL SEAM. U-ANCHORS CONSIST OF #3 REBAR BENT INTO A U WITH 18" LEGS.
 5. THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO FLOW SHALL BE EMBEDDED 24" VERTICALLY BEYOND THE ANTICIPATED SCOUR POINT. THE ANCHOR TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL OR OTHER.
 6. FOR ADDITIONAL SECTIONS OF MAT, OVERLAP THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25' OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. LIGHTLY SPREAD TOPSOIL OVER INITIAL LEADING EDGE. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED INITIAL LEADING EDGE OF DOWNSTREAM MAT. INSTALL 18" X ANCHORS IN 3' INCREMENTS ACROSS THE OVERLAP. INSTALL ANCHORS DIRECTLY BEHIND BLOCKS. U-ANCHORS CONSIST OF #3 REBAR 10" ANCHOR WITH 18" LEGS.

**DETAIL 7
FLEXAMAT EROSION CONTROL MAT**
NOT TO SCALE

MARKWEST PASTURE BLEND

%	SEED TYPE	ORIGIN	GERM	HARD
21.87%	KENTUCKY BLUEGRASS 85/80	ID	80%	0%
19.99%	TIMOTHY	CN	85%	
19.97%	CALABRIA TET. PERENNIAL RYE	OR	90%	
14.93%	ALFALFA	CN	82%	10%
9.97%	BIRDSFOOT TREFLOIL	CN	74%	11%
4.97%	WHITE CLOVER	NZ	80%	10%
4.97%	LADINO CLOVER	ID	55%	35%
0.32%	OTHER CROP SEED			
3.23%	INERT MATTER			
0.02%	WEED SEED			

**PERMANENT SEEDING MIXTURE
DETAIL 8
SITE STABILIZATION**
NOT TO SCALE

M.U.W.V TICKET NUMBER: 112080274

CALL BEFORE YOU DIG

STATE OF WEST VIRGINIA REGISTERED PROFESSIONAL ENGINEER

17441

1-800-245-4848

MARKWEST LIBERTY MIDSTREAM & RESOURCES, LLC
SHERWOOD FACILITY
TRUCK LOADING GAS LINE REPLACEMENT
DODDRIDGE COUNTY, WEST VIRGINIA

CONTROL PLAN

DRAWING NO: **SP-32.1**

DATE: JUNE 21, 2017
DRAWN BY: TGU
DWG SCALE: 1"=50'
CHECKED BY: ARG
PROJECT NO: 110-911-5001
APPROVED BY: * HAND SIGNATURE ON FILE * GJH

REVISION RECORD

NO	DATE	DESCRIPTION

Civil & Environmental Consultants, Inc.
333 Baldwin Road - Pittsburgh, PA 15205
412-429-2324 - 800-365-2324
www.cecinc.com