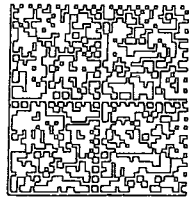


**CERTIFIED MAIL**

Doddridge County FPM  
118 East Court ST STE 102  
West Union, WV 26456-1262



914 9213



015H14161808	
HASLER	\$6.48
08/08/14	
Mailed From 26456	

US POSTAGE

A C S  
 INSUFFICIENT ADDRESS  
 ATTEMPTED NOT KNOWN  
 NO SUCH NUMBER/ STREET  
 NOT DELIVERABLE AS ADDRESSED  
 - UNABLE TO FORWARD  
 OTHER

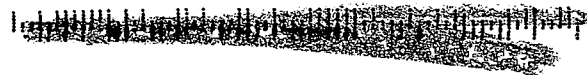
*Deceased*



#14-253  
Mary H. Holland  
PO Box 425  
West Union, WV 26456

1ST NOTICE 8-9  
2ND NOTICE \_\_\_\_\_  
RETURN \_\_\_\_\_

2645680425 B004



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-253  
 Mary H. Holland  
 PO Box 425  
 West Union, WV 26456

2. Article Number  
 (Transfer from service label)

7013 2250 0001 6914 9213

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

- Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes



Doddridge County FPM  
118 East Court Street, Suite 102  
West Union, WV 26456

Dear Sir or Ma'am,

You are receiving this letter because you have been identified as a land surface and/or mineral rights owner for property or adjacent property related to the proposed development project identified by the following page.

No action is required of you. This letter is simply to inform you of the proposed development.

If you would like to comment on this proposed project, or would like additional information, you may contact the Doddridge County Floodplain Manager at the above address.

Respectfully yours,

Edwin L. Wriston  
Doddridge County Floodplain Manager  
304.873.2631  
[doddridgecountyfpm@gmail.com](mailto:doddridgecountyfpm@gmail.com)

Legal Advertisement:

Doddridge County

Floodplain Permit Application

Please take notice that on the 1<sup>st</sup> day of August, 2014

**Cone Gathering LLC**

filed an application for a Floodplain Permit to develop land located at or about:

**39.39.257067N / 80.713276W**

**Permit #14-253 Meathouse Fork – OX11 Waterline**

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 **August 23, 2014**, delivered to:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-253  
Haessly Hardwood Lumber Co.  
Route 1 Box 185  
Marietta, OH 45750

2. Article Number  
(Transfer from service label)

7013 2250 0001 6914 9220

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Garland Valentine*

- Agent  
 Addressee

B. Received by (Printed Name)

Garland Valentine

C. Date of Delivery

8-11-14

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

3. Service Type

- Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

**SENDER: COMPLETE THIS SECTION**

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

1. Article Addressed to:

#14-253  
Robert Gayle Maxwell  
Route 1 Box 28A  
New Milton, WV 26411

2. Article Number  
(Transfer from service label)

7013 2250 0001 6914 9169

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Robert Maxwell*

- Agent  
 Addressee

B. Received by (Printed Name)

ROBERT MAXWELL

C. Date of Delivery

8-9-14

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

3. Service Type

- Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

**SENDER: COMPLETE THIS SECTION**

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

1. Article Addressed to:

#14-253  
I.L. Ike Morris  
PO Box 397  
Greenville, WV 26351

2. Article Number  
(Transfer from service label)

7013 2250 0001 6914 9190

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Jackie Swiger*

- Agent  
 Addressee

B. Received by (Printed Name)

Jackie Swiger

C. Date of Delivery

8-11-14

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

3. Service Type

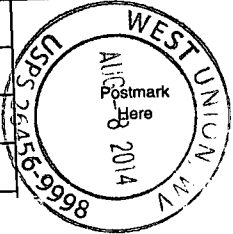
- Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes

9213 2250 0000 0522 ETOL

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only, No Insurance Coverage Provided)  
For delivery information visit our website at www.usps.com

Postage	\$ .49
Certified Fee	3.30
Return Receipt Fee (Endorsement Required)	2.70
Restricted Delivery Fee (Endorsement Required)	



#14-253  
Denise Donahoe  
RR 1 Box 25DD  
New Milton, WV 26411  
*6.49*  
See Reverse for Instructions

5476 4769 1000 0522 ETOL

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only, No Insurance Coverage Provided)  
For delivery information visit our website at www.usps.com

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

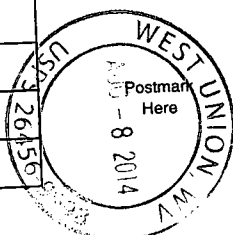


#14-253  
Timothy & Rebecca Clyne  
HC 68 Box 14  
West Union, WV 26456  
See Reverse for Instructions

2576 4769 1000 0522 ETOL

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only, No Insurance Coverage Provided)  
For delivery information visit our website at www.usps.com

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

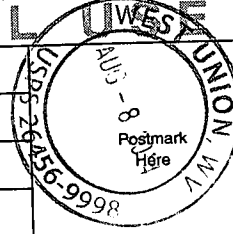


#14-253  
Lewis Frederick Maxwell  
Route 1 Box 26B  
New Milton, WV 26411  
See Reverse for Instructions

6976 4769 1000 0522 ETOL

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only, No Insurance Coverage Provided)  
For delivery information visit our website at www.usps.com

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

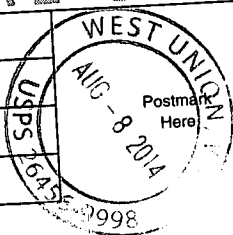


#14-253  
Robert Gayle Maxwell  
Route 1 Box 28A  
New Milton, WV 26411  
See Reverse for Instructions

7013 2250 0000 0522 ETOL

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only, No Insurance Coverage Provided)  
For delivery information visit our website at www.usps.com

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

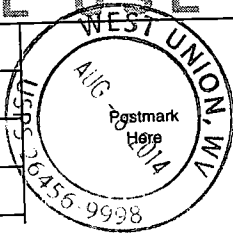


#14-253  
Sue Ann Spiker  
166 Linden Lane  
Jane Lew, WV 26378  
See Reverse for Instructions

9213 2250 0000 0522 ETOL

U.S. Postal Service  
**CERTIFIED MAIL RECEIPT**  
(Domestic Mail Only, No Insurance Coverage Provided)  
For delivery information visit our website at www.usps.com

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	



#14-253  
Greg Adrian et al.  
Route 1 Box 95A  
New Milton, WV 26411  
See Reverse for Instructions

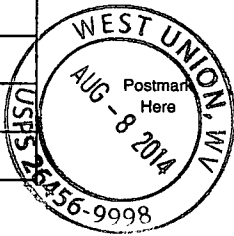
7013 2250 0001 6914 9190

U.S. Postal Service  
CERTIFIED MAIL RECEIPT  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	



#14-253  
I.L. Ike Morris  
PO Box 397  
Glenville, WV 26351

PS Form 3800, August 2009 See Reverse for Instructions

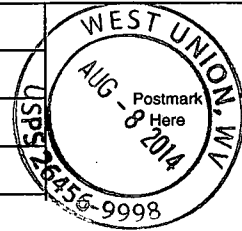
7026 6914 9206

U.S. Postal Service  
CERTIFIED MAIL RECEIPT  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	



#14-253  
Justin Henderson  
PO Box 476  
West Union, WV 26456

PS Form 3800, August 2009 See Reverse for Instructions

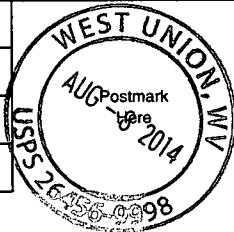
7013 2250 0001 6914 9220

U.S. Postal Service  
CERTIFIED MAIL RECEIPT  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	



#14-253  
Haessly Hardwood Lumber Co.  
Route 1 Box 185  
Marietta, OH 45750

PS Form 3800, August 2009 See Reverse for Instructions

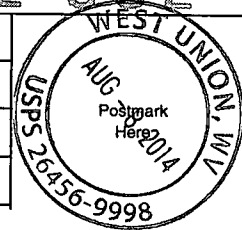
7026 6914 9213

U.S. Postal Service  
CERTIFIED MAIL RECEIPT  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	



#14-253  
Mary H. Holland  
PO Box 425  
West Union, WV 26456

PS Form 3800, August 2009 See Reverse for Instructions

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-253  
 Lewis Frederick Maxwell  
 Route 1 Box 26B  
 New Milton, WV 26411

2. Article Number  
 (Transfer from service label)

7013 2250 0001 6914 9152

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Lewis F. Maxwell*  Agent  
 Addressee

B. Received by (Printed Name)

LEWIS F. MAXWELL  Agent  
 Addressee

C. Date of Delivery

8.9.14

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

3. Service Type

- Certified Mail®  Priority Mail Express™  
 Registered  Return Receipt for Merchandise  
 Insured Mail  Collect on Delivery

4. Restricted Delivery? (Extra Fee)  Yes



UNITED STATES POSTAL SERVICE

CHARTERED

WV 250

11 AUG 14



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

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



#14-

Doddridge County FPM

118 East Court St STE 102

West Union, WV 26456-1262

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-253  
 Timothy & Rebecca Clyne  
 HC 68 Box 14  
 West Union, WV 26456

2. Article Number

*(Transfer from service label)***COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X   Agent  
 Addressee

B. Received by *(Printed Name)*

C. Date of Delivery

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

3. Service Type

- Certified Mail®  Priority Mail Express™
- Registered  Return Receipt for Merchandise
- Insured Mail  Collect on Delivery

4. Restricted Delivery? *(Extra Fee)* Yes

7013 2250 0001 6914 9145

UNITED STATES POSTAL SERVICE

CHARLESTON  
WV 250  
10 AUG '14  
PM 2 11



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

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



#14-  
Doddridge County FPM  
118 East Court St STE 102  
West Union, WV 26456-1262

DODDRIDGE COUNTY, WV

REGGERS  
ALEX  
COUNTY, WV

10 AUG 11 AM 11:09

FILED

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-253

Sue Ann Spiker  
166 Linden Lane  
Jane Lew, WV 26378

2. Article Number

*(Transfer from service label)*

7013 2250 0001 6914 9176

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X 

 Agent AddresseeB. Received by *(Printed Name)*

Sue Ann Spiker

C. Date of Delivery

8-9-14

D. Is delivery address different from item 1?  Yes

If YES, enter delivery address below:

 No

3. Service Type

 Certified Mail® Priority Mail Express™ Registered Return Receipt for Merchandise Insured Mail Collect on Delivery4. Restricted Delivery? *(Extra Fee)* Yes

CHARLESTON  
WV 250  
09 AUG '14  
PM 2:1

UNITED STATES POSTAL SERVICE



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

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



#14-

Doddridge County FPM  
118 East Court St STE 102  
West Union, WV 26456-1262

ROGERS  
VICERY  
COUNTY, WV

2014 AUG 11 AM 11:09

FILED

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- 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:

#14-253

Denise Donahoo

RR 1 Box 25DD

New Milton, WV 26411

2. Article Number

*(Transfer from service label)*

7013 2250 0001 6914 9138

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

*Kelly Ann* Agent Addressee

B. Received by (Printed Name)

*Kelly Ann*

C. Date of Delivery

*8-9-14*D. Is delivery address different from item 1?  YesIf YES, enter delivery address below:  No

3. Service Type

 Certified Mail® Priority Mail Express™ Registered Return Receipt for Merchandise Insured Mail Collect on Delivery

4. Restricted Delivery? (Extra Fee)

 Yes

UNITED STATES POSTAL SERVICE

CHARLESTON

WV 253

2014 AUG 14



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

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



#14-

Doddridge County FPM  
118 East Court St STE 102  
West Union, WV 26456-1262

DODD  
H. A. ROGERS  
MAIL CLERK  
DODDRIDGE COUNTY, WV

2014 AUG 14 AM 11:09

FILED

**SENDER: COMPLETE THIS SECTION**

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

1. Article Addressed to:

#14-253

Greg Adrian et al.

Route 1 Box 95A

New Milton, WV 26411

2. Article Number


*(Transfer from service label)*

7013 2250 0001 6914 9183

PS Form 3811, July 2013

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature


 Agent  
 Addressee

B. Received by (Printed Name)

Dorothy Adrien

C. Date of Delivery

8-15-14

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

3. Service Type

- 
- Certified Mail®
- 
- Priority Mail Express™
- 
- 
- Registered
- 
- Return Receipt for Merchandise
- 
- 
- Insured Mail
- 
- Collect on Delivery

4. Restricted Delivery? (Extra Fee)

 Yes

Domestic Return Receipt



UNITED STATES POSTAL SERVICE



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

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

FILED

2011 MAR 11: 26

2011 MAR 11: 26  
#14878  
DODDRIDGE COUNTY CLERK  
DODDRIDGE COUNTY

Doddridge County FPM  
8 East Court St STE 102  
West Union, WV 26456-1262

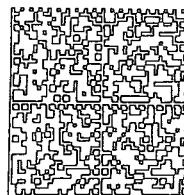


**CERTIFIED MAIL™**

Doddridge County FPM  
118 East Court ST STE 102  
West Union, WV 26456-1262



7013 2250 0001 6914 9206



HASLER	015H14161808	US POSTAGE
	<b>\$6.48</b>	
	08/08/14	
Mailed From 26456		

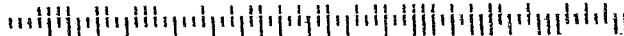


#14-253  
Justin Henderson  
PO Box 476  
West Union, WV 26456

NIXIE 250 F2 1700 0008/11/14

RETURN TO SENDER  
NOT DELIVERABLE AS ADDRESSED  
UNABLE TO FORWARD

264560476 DC BC: 26456126227 \*2271-01578-08-44  
26456@1262



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

**SENDER: COMPLETE THIS SECTION**

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

1. Article Addressed to:

#14-253  
 Justin Henderson  
 PO Box 476  
 West Union, WV 26456

2. Article Number  
(Transfer from service label)

7013 2250 0001 6914 9206

PS Form 3811, July 2013

Domestic Return Receipt

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
 Addressee  
**X**

B. Received by (*Printed Name*)

C. Date of Delivery

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

3. Service Type

- Certified Mail®  Priority Mail Express™
- Registered  Return Receipt for Merchandise
- Insured Mail  Collect on Delivery

4. Restricted Delivery? (*Extra Fee*)  Yes



Doddridge County FPM  
118 East Court Street, Suite 102  
West Union, WV 26456

Dear Sir or Ma'am,

You are receiving this letter because you have been identified as a land surface and/or mineral rights owner for property or adjacent property related to the proposed development project identified by the following page.

No action is required of you. This letter is simply to inform you of the proposed development.

If you would like to comment on this proposed project, or would like additional information, you may contact the Doddridge County Floodplain Manager at the above address.

Respectfully yours,

Edwin L. Wriston  
Doddridge County Floodplain Manager  
304.873.2631  
[doddridgecountyfpm@gmail.com](mailto:doddridgecountyfpm@gmail.com)

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 1<sup>st</sup> day of August, 2014

**Cone Gathering LLC**

filed an application for a Floodplain Permit to develop land located at or about:

**39.39.257067N / 80.713276W**

**Permit #14-253 Meathouse Fork – OX11 Waterline**

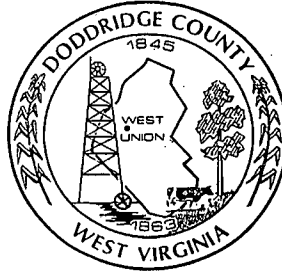
The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **August 27, 2014**, delivered to:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager



# Commercial/Industrial Floodplain Development Permit

## Doddridge County, WV Floodplain Management

This permit has been issued to **Cone Gathering, LLC**, and is for the approved commercial and/or industrial development project associated with this permit 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: #14-253 ~ Cone Gathering, LLC ~  
Meathouse Fork to OX11 Waterline**

**Date Approved: 12/31/2014**

**Expires: 12/31/2015**

**Issued to: Cone Gathering, LLC**

**POC: Greg Linder  
304.933.3119**

**Company Address: 99 Cambridge Place  
Bridgeport, WV 26330**

**District: New Milton**

**Lat/Long: 39.257067N/80.713276W**

**Purpose of development: Waterline construction.**

**Issued by: Edwin L. "Bo" Wriston, Doddridge County FPM (or designee)**

**Date: 12/31/2014**

---

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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Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 1<sup>st</sup> day of August, 2014

**Cone Gathering LLC**

filed an application for a Floodplain Permit to develop land located at or about:

**39.39.257067N / 80.713276W**

**Permit #14-253 Meathouse Fork – OX11 Waterline**

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 **August 27, 2014**, delivered to:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

Edwin L. "Bo" Wriston. Doddridge County Flood Plain Manager

CNX Gas Company LLC  
P. O. Box 305  
Canonsburg, PA 15317-0305  
Phone: 724-485-4031

DODDRIDGE COUNTY COMMISSION

Vendor No. 824536  
Check No. 2780029798

Invoice Number	Invoice Date	Invoice Amount	Discount Amount	Net Amount
OXFD11 WATERLINE	07/21/2014	500.00	0.00	500.00
		<b>Check Total.....</b>		<b>\$ 500.00</b>

### Doddridge County, West Virginia

RECEIPT NO: 2696

DATE: 2014/08/06

FROM: CNX GAS COMPANY

AMOUNT: \$ 500.00

FIVE HUNDRED DOLLARS AND 00 CENTS

FOR: #14-253 MEATHOUSE FORK OX11 WATERLINE

02780029798 FP-BUILDING PERMITS

020-318

TOTAL: \$500.00

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

# 14-253			
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THIS CHECK IS TENDERED IN FULL SETTLEMENT OF YOUR INVOICES LISTED HEREON.

PLEASE DETACH REMITTANCE BEFORE CASHING.





CREATION † COMPLETION

**Meathouse Fork-OX11  
Waterline**

Doddridge County  
Floodplain Permit Application  
and Fees

HELEN A. HOGGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

2014 JUL 32 PM 12:18

**FILED**



**NATALIE HOOTON, M.S.**

*Staff Biologist*

(412) 221-2236

(412) 639-2231 Cell, (412) 221-2267 Fax

hooton@cesoinc.com

www.cesoinc.com

*800 Bursca Drive, Suite 804  
Bridgeville, Pennsylvania 15017-1451*



CREATION TO COMPLETION

*Engineering • Architecture • Survey  
Construction Mgt • Environmental*



800 Bursca Drive, Suite 804  
 Bridgeville, Pennsylvania 15017-1451  
 (412) 221-2236  
 www.cesoinc.com

July 31, 2014

Mr. Edwin "Bo" Wriston  
 Doddridge County Floodplain Manager  
 118 East Court Street  
 West Union, WV 26456

14-253

2014 JUL 31 PM 12:18  
 BETH A. ROGERS  
 COUNTY CLERK  
 DODDRIDGE COUNTY, WV

FILED

**RE: Meathouse Fork-OX11 Aboveground Waterline  
 Doddridge County Floodplain Permit**

Dear Mr. Wriston:

CESO, Inc. is pleased to submit this information for a Doddridge County Floodplain Permit, for the proposed Meathouse Fork-OX11 Aboveground Waterline. **Cone Gathering, LLC** (Cone), is proposing to construct a new temporary water transport system and associated construction access roads within a portion of Doddridge County, West Virginia. The proposed new waterline will be approximately 8.3 miles long with a temporary withdrawal point located southwest of the intersection of State Route 18 and County Route 40, near Blandville, West Virginia. From the withdrawal point, the waterline will transport water southeast to the OX11 well pad.

CESO, Inc. has identified a total of twenty-two (22) named and unnamed waterways crossings in Doddridge County as a result of this project. The Doddridge County Development Permit Application further describing project characteristics is presented in Attachment 1. According to the FEMA Flood Insurance Rate Maps, two waterways within the project area, South Fork Hughes River and Meathouse Fork, occur within the FEMA 100-year floodplain. A map depicting the proposed alignment location as well as a table and map identifying stream crossings are also provided.

Waterway crossings associated with waterline installation will include the use of six (6) existing culverts and/or bridges. Additionally, the project will result in two (2) temporary timber mat bridges and fourteen (14) waterline crossings using cribbing and temporary timber mat bridges. However, all waterways will be returned to their pre-disturbance plan, profile, and dimension after the pipe has been installed. In addition, proper construction sequencing and implementation of an approved erosion and sediment control plan will ensure water quality impacts are minimized throughout the project area and the proposed activities are in compliance with Nationwide Permit General Conditions and Regional General Conditions.

Should you have any questions or comments please don't hesitate to contact me at 412-221-2236 ext. 2009 or through email at [hooton@cesoinc.com](mailto:hooton@cesoinc.com).

Sincerely,

CESO, Inc.

Natalie Hooton  
 Staff Biologist



MEATHOUSE FORK TO OX 1 1 WATERLINE  
DODDRIDGE FLOODPLAIN PERMIT APPLICATION:  
STREAM CROSSING TABLES

Table 1. Stream Crossings with No Impacts (use of existing culverts or bridges)

Stream Field ID	Stream Category	Stream Name or Tributary Of	Project Activity	Coordinates (NAD 83) (dd)	Width (feet)
G28	Perennial	UNT Lick Run	Access Road	39.2553914, - 80.711857	10.0
G62	Ephemeral	UNT Lick Run	Access Road	39.208589, -80.753596	1.5
G67	Ephemeral	UNT Dry Run	Access Road	39.192948, -80.778871	1.5
G66	Ephemeral	UNT Dry Run	Access Road	39.191821, -80.780310	1.5
G65	Ephemeral	UNT Dry Run	Access Road	39.190652, -80.780713	1.5
CF	Intermittent	UNT Dry Run	Access Road	39.196457, -80.775522	1.5

39.257067  
↳ 80.713276



**MEATHOUSEFORKTOOX11 WATERLINE  
DODDRIDGE FLOODPLAIN PERMIT APPLICATION:  
STREAM CROSSING TABLES**

**Table 2. Stream Crossings by Pipeline Activity**

<b>Stream Field ID</b>	<b>Stream Category</b>	<b>Stream Name OR Tributary Of</b>	<b>Project Activity</b>	<b>Type of Crossing</b>	<b>Coordinates (NAD83) (dd)</b>	<b>Width (feet)</b>	<b>Crossing Size (linear feet)</b>
<b>G30</b>	Ephemeral	UNT Lick Run	Aboveground Waterline	Cribbed and Timber Matted	39.203093, -80.759273	1.5	28
<b>G31</b>	Intermittent	UNT Lick Run	Aboveground Waterline	Cribbed and Timber Matted	39.20286, -80.758531	3.0	30
<b>G32</b>	Intermittent	UNT Lick Run	Aboveground Waterline	Cribbed and Timber Matted	39.206562, -80.756797	3.5	26
<b>G36</b>	Intermittent	UNT Lick Run	Aboveground Waterline	Cribbed and Timber Matted	39.207095, -80.756547	3.0	30
<b>G41</b>	Intermittent	UNT Bluestone Creek	Aboveground Waterline	Cribbed and Timber Matted	39.211893, -80.756394	3.0	34
<b>G44</b>	Intermittent	UNT Lick Run	Aboveground Waterline	Cribbed and Timber Matted	39.220242, -80.746651	4.0	26
<b>G48</b>	Intermittent	UNT Lick Run	Aboveground Waterline	Cribbed and Timber Matted	39.223403, -80.744074	3.0	29
<b>G50</b>	Perennial	UNT Lick Run	Aboveground Waterline	Cribbed and Timber Matted	39.227935, -80.738117	6.0	28
<b>G52</b>	Intermittent	UNT Lick Run	Aboveground Waterline	Cribbed and Timber Matted	39.232640, -80.734112	7.0	25
<b>G53</b>	Ephemeral	UNT Lick Run	Aboveground Waterline	Cribbed and Timber Matted	39.237701, -80.729793	1.0	26
<b>CC</b>	Perennial	Cain Run	Aboveground Waterline	Cribbed and Timber Matted	39.190895, -80.762141	3.0	29
<b>ZA</b>	Perennial	UNT South Fork Hughes River	Aboveground Waterline	Cribbed and Timber Matted	39.177298, -80.76441	5.0	26
<b>ZZ</b>	Perennial	South Fork Hughes River	Aboveground Waterline	Cribbed and Timber Matted	39.183197, -80.766435	10.0	33
<b>6</b>	Ephemeral	Right Hand Fork Lick Run	Aboveground Waterline	Cribbed and Timber Matted	39.242649, -80.728801	2.0	25



**MEATHOUSE FORK TO OX11 WATERLINE  
STREAM ACTIVITY APPLICATION:  
STREAM CROSSING TABLES**

**Table 3. Stream Crossings by Access Road Activity**

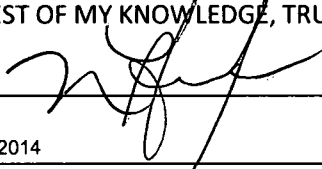
<b>Stream Field ID</b>	<b>Stream Category</b>	<b>Stream Name or Tributary Of</b>	<b>Project Activity</b>	<b>Type of Impact</b>	<b>Coordinates (dd)</b>	<b>Width (feet)</b>	<b>Crossing Sizw (linear feet)</b>
G68	Perennial	Dry Run	Access Road	Temporary Timber Mat Bridge	39.194580, - 80.777114	3.0	25
G64	Perennial	Dry Run	Access Road	Temporary Timber Mat Bridge	39.189451, --80.781161	3.0	30

DODDRIDGE COUNTY  
FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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 \_\_\_\_\_

 for CESO, Inc

DATE 07/31/2014

SECTION 2: PROPOSED DEVELOPMENT (TO BE COMPLETED BY APPLICANT).

IF THE APPLICANT IS NOT A NATURAL PERSON, THE NAME, ADDRESS, AND TELEPHONE NUMBER OF A NATURAL PERSON WHO SHALL BE APPOINTED BY THE APPLICANT TO RECEIVE NOTICE PURSUANT TO ANY PROVISION OF THE CURRENT DODDRIDGE COUNTY FLOODPLAIN ORDINANCE.

APPLICANT'S NAME: Cone Gathering, LLC  
ADDRESS: c/o Adam White, One Energy Drive PO Box 1248 Jane Lew, WV 26378  
TELEPHONE NUMBER: 724.627.1300

CONTRACTOR NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_  
TELEPHONE # \_\_\_\_\_  
WV CONTRACTOR LICENCE # \_\_\_\_\_

ENGINEER'S NAME: CESO, Inc.  
ADDRESS: 2800 Corporate Exchange Drive, Suite 160, Columbus, OH 43231  
TELEPHONE NUMBER: 614.794.7080

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Attachment A.

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Attachment A.

DISTRICT: Please see Attachment A.

LAND BOOK DESCRIPTION: Please see Attachment A.

DEED BOOK REFERENCE: Please see Attachment A.

TAX MAP REFERENCE: Please see Attachment A.

EXISTING BUILDINGS/USES OF PROPERTY: Please see Attachment A.

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Please see Attachment A.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Please see Attachment A.

To avoid delay in processing the application, please provide enough information to easily identify the project location.

Cone Gathering, LLC (Cone), is proposing to construct new temporary aboveground waterline and associated construction access roads within a portion of southwestern Doddridge County, West Virginia to support non-conventional gas exploration. The temporary withdrawal point will be located southwest of the intersection of State Route 18 and County Route 40, near Blandville, West Virginia. The approximate coordinates of the withdrawal point are 39.257269N latitude, -80.713153 W longitude (NAD83). From the withdrawal point, the waterline will transport water southeast to the OX11 well pad (39.170959 N Latitude, 80.762926 W Longitude (NAD83)).

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

ACTIVITY	STRUCTURAL TYPE
<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:

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

C. STANDARD SITE PLAN OR SKETCH

1. SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED (ENGINEERING PLANS MUST BE SIGNED AND SEALED).

2. IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED:

SKETCH ON A SEPARATE 8 ½ X 11 INCH SHEET OF PAPER THE SHAPE AND LOCATION OF THE LOT. SHOW THE LOCATION OF THE INTENDED CONSTRUCTION OR LAND USE INDICATING BUILDING SETBACKS, SIZE & HEIGHT. IDENTIFY EXISTING BUILDINGS, STRUCTURES OR LAND USES ON THE PROPERTY.



3. SIGN AND DATE THE SKETCH. Please see Attachment B and Attachment C.

ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT/ PROPOSED CONSTRUCTION PROJECT WITHIN THE FLOODPLAIN \$ \$85,750.00

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

1. NAME AND ADDRESS OF ALL OWNERS OF SURFACE TRACTS ADJACENT TO THE AREA OF THE SURFACE TRACT (UP & DOWN STREAM) UPON WHICH THE PROPOSED ACTIVITY WILL OCCUR AND ALL OTHER SURFACE OWNERS UP & DOWN STREAM) WHO OWN PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY (IF ONE HAS BEEN COMPLETED.

NAME: Please see Attachment D.  
ADDRESS: Please see Attachment D.

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

1. NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON ANY ADJACENT PROPERTY AT THE TIME THE FLOODPLAIN PERMIT APPLICATION IS FILED AND THE NAME AND ADDRESS OF AT LEAST ONE ADULT RESIDING IN ANY HOME ON ANY PROPERTY THAT MAY BE AFFECTED BY FLOODING AS IS DEMONSTRATED BY A FLOODPLAIN STUDY OR SURVEY.

NAME: Refer to Attachment D.  
ADDRESS: \_\_\_\_\_

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

E. CONFIRMATION FORM

THE APPLICANT ACKNOWLEDGES, AGREES, AND CONFIRMS THAT HE/IT WILL PAY WITHIN 30 DAYS OF RECEIPT OF INVOICE BY THE COUNTY FOR ALL EXPENSES RELATIVE TO THE PERMIT APPLICATION PROCESS GREATER THAN THE REQUIRED DEPOSIT FOR EXPENSES INCLUDING:

- (A) PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE RATES PERMITTED BY LAW FOR SUCH SERVICE.
- (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.
- (C) PUBLICATION.
- (D) COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.
- (E) CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY FLOODPLAIN ADMINISTRATOR/MANAGER OR FLOODPLAIN APPEALS BOARD FOR REVIEW OF MATERIALS AND/OR TESTIMONY REGARDING THE EFFICACY OF GRANTING OR DENYING THE APPLICANT'S FLOODPLAIN PERMIT.

NAME (PRINT): Natalie Hooton (for CESO, Inc)

SIGNATURE:  \_\_\_\_\_

DATE: 07/31/2014

After completing SECTION 2, APPLICANT should submit form and fees to Clerk of Doddridge County Court or his/her representative for review.

**SECTION 3: FLOODPLAIN DETERMINATION (to be completed by Floodplain Administrator/Manager or his/her representative)**

THE PROPOSED DEVELOPMENT:

THE PROPOSED DEVELOPMENT IS LOCATED ON:

FIRM Panel: \_\_\_\_\_

Dated: \_\_\_\_\_

Is NOT located in a Specific Flood Hazard Area (Notify applicant that the application review is complete and NO FLOODPLAIN DEVELOPMENT PERMIT IS REQUIRED).

Is located in Special Flood Hazard Area.  
FIRM zone designation \_\_\_\_\_  
100-Year flood elevation is \_\_\_\_\_ NGVD .  
Stream name \_\_\_\_\_  
Profile # \_\_\_\_\_

Unavailable

The proposed development is located in a floodway.

See section 4 for additional instructions.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

**SECTION 4: ADDITIONAL INFORMATION REQUIRED FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA (To be completed by Floodplain Administrator/Manager or his/her representative)**

The applicant must submit the documents checked below before the application can be processed.

A plan showing the location of all existing structures, water bodies, adjacent roads and proposed development.

Development plans, drawn to scale, and specifications, including where applicable: details for anchoring structures, storage tanks, proposed elevation of lowest floor, (including basement or crawl space), types of water resistant materials used below the first floor, details of flood proofing of utilities located below the first floor and details of enclosures below the first floor.

Also \_\_\_\_\_

Subdivision or other development plans (If the subdivision or development exceeds 10 lots or 2 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).

Plans showing the extent of watercourse relocation and/or landform alterations.

Top of new fill elevation \_\_\_\_\_ Ft. NGVD.

For floodproofing structures applicant must attach certification from registered engineer or architect.

Certification from a registered engineer that the proposed activity in a regulatory floodway will not result in any increase in the height of the 100-year flood. A copy of all data and calculations supporting this finding must also be submitted.

Manufactured homes located in a Flood Hazard Area must have a West Virginia Contractor's License and a Manufactured Home Installation License as required by the Federal Emergency Management Agency (FEMA).

Other: \_\_\_\_\_

**SECTION 5: PERMIT DETERMINATION (To be completed by Floodplain Administrator/Manager or his/her representative)**

I have determined that the proposed activity (type is or is not) in conformance with provisions of the Floodplain Ordinance adopted by the County Commission of Doddridge County on May 21, 2013. The permit is issued subject to the conditions attached to and made part of this permit.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

If the Floodplain Administrator/Manager found that the above was not in conformance with the provisions of the Doddridge County Floodplain Ordinance and/or denied that application, the applicant may appeal.

APPEALS:      Appealed to the County Commission of Doddridge County?       Yes     No  
Hearing Date: \_\_\_\_\_  
County Commission Decision - Approved       Yes     No

CONDITIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SECTION 6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Compliance is issued).**

The following information must be provided for project structures. This section must be completed by a registered professional engineer or a licensed land surveyor (or attach a certification to this application).

COMPLETE 1 OR 2 BELOW:

1      Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space is \_\_\_\_\_ FT. NGVD.

2      Actual (As Built) elevation of floodproofing is \_\_\_\_\_ FT. NGVD.

Note: Any work performed prior to submittal of the above information is at risk of the applicant.  
SECTION 7: COMPLIANCE ACTION (To be completed by the Floodplain Administrator/Manager or his/her representative).

The Floodplain Administrator/Manager or his/her representative will complete this section as applicable based on inspection of the project to ensure compliance with the Doddridge County Floodplain Ordinance.

INSPECTIONS:

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
DEFICIENCIES ? Y/N

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SECTION 8: CERTIFICATE OF COMPLIANCE (To be completed by Floodplain Administrator/Manager or his/her representative).

Certificate of Compliance issued: DATE: \_\_\_\_\_ BY: \_\_\_\_\_

CERTIFICATE OF COMPLIANCE  
FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA (OWNER MUST RETAIN)

PERMIT NUMBER: \_\_\_\_\_  
PERMIT DATE: \_\_\_\_\_

PURPOSE –

CONSTRUCTION LOCATION: \_\_\_\_\_

OWNER'S ADDRESS: \_\_\_\_\_

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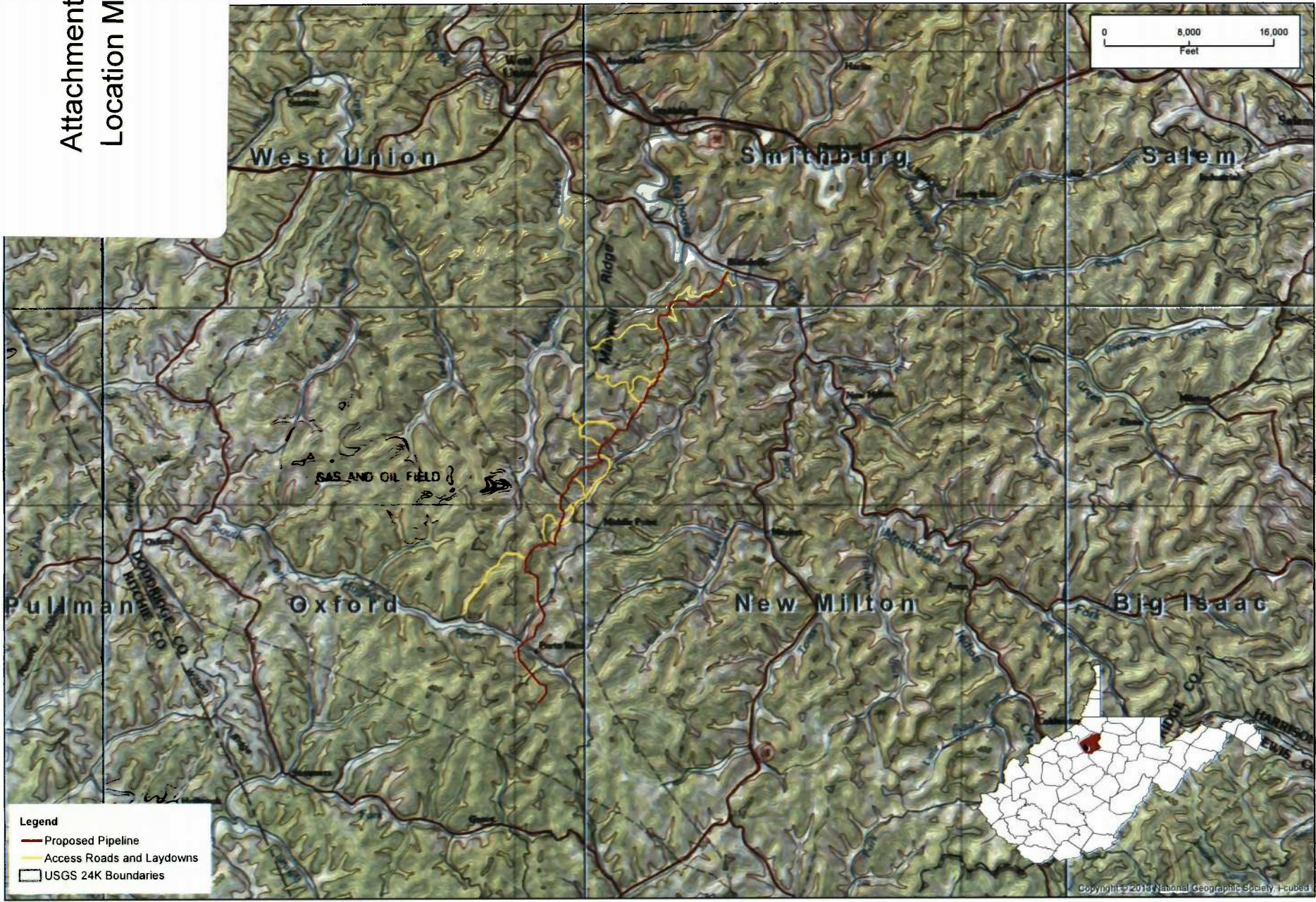
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THE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN ADMINISTRATOR/MANAGER OR HIS/HER AGENT.

COMPLIANCE IS HEREBY CERTIFIED WITH THE REQUIREMENT OF THE FLOODPLAIN ORDINANCE ADOPTED BY THE COUNTY COMMISSION OF DODDRIDGE COUNTY ON MAY 21, 2013.

SIGNED \_\_\_\_\_ DATE \_\_\_\_\_

Attachment B-  
Location Map



**CESA**  
CREATION TO COMPLETION

**CONSOLENERGY**

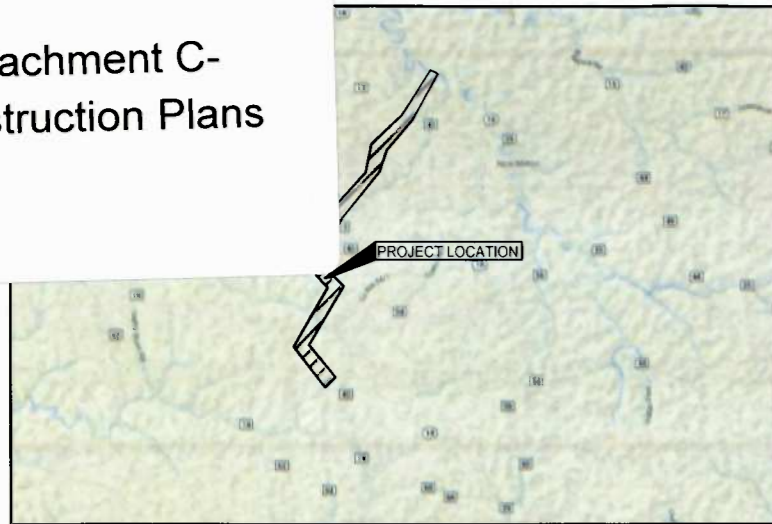
**Meathouse to OX11 Waterline**  
Location Map  
Oxford, New Milton, Smithburg WV Quads  
Doddridge County, West Virginia

Date: 07/15/2014  
By: G. Bergquist

Attachment C-  
Construction Plans

# MEATHOUSE TO OX11 WATERLINE

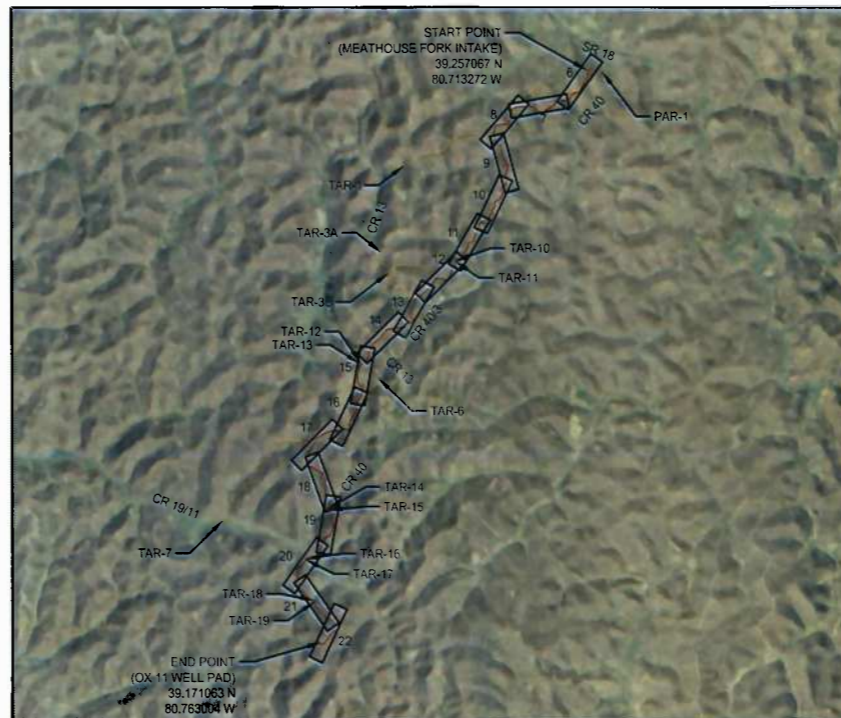
DODDRIDGE COUNTY, WEST VIRGINIA



VICINITY MAP  
NOT TO SCALE

APPROX. START POINT: STA 0+00  
(NAD 83) LAT: 39.257067 N / LONG: 80.713272 W  
(UTM) (ZONE 17) NORTHING: 278064.45 / EASTING: 1624954.86

APPROX. END POINT: STA 448+73  
(NAD 83) LAT: 39.171063 N / LONG: 80.763004 W  
(UTM) (ZONE 17) NORTHING: 246936.98 / EASTING: 1610433.50



PROJECT AREA MAP



**NOTES:**

- THIS PLAN DOES NOT PURPORT TO BE A COMPREHENSIVE REPRESENTATION OF EXISTING UTILITIES IN THE PROJECT AREA. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY, BASED ON SURFACE FEATURES OBSERVED IN THE FIELD. CESO, INC. MAKES NO GUARANTEE TO THEIR ACCURACY AND/OR COMPLETENESS. FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WV811) AT 1-800-245-4848. THE CONTRACTOR SHALL ALSO NOTIFY ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THE PROJECT AREA AND ARE NON-MEMBERS OF WV811.
- QUANTITIES LISTED ARE BASED ON SLOPE LENGTH. CONTRACTOR SHALL VERIFY ALL QUANTITIES.

**UTILITY OWNERS**

- NOTES:**
- CONTRACTOR SHALL CALL THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WV811) AT 1-800-245-4848 72 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
  - UTILITIES SHOWN ARE TAKEN FROM THE SURVEY AND RECORDS OF RESPECTIVE UTILITY COMPANIES AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND UTILITIES ADJACENT TO OR UPON SITE SHOWN ON PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE.

CONSOL ENERGY ONE ENERGY DRIVE JANE LEW, WV 26378 ADAM WHITE 240-506-7299 AdamWhite@consolenergy.com	DOMINION TRANSMISSION 445 W MAIN STREET CLARKSBURG, WV 26301 STEVEN D. GUM 304-782-5024 Steven.D.Gum@dom.com	EQT P.O. BOX 1550 ROUTE 19 SOUTH AT OAKMOUND RD CLARKSBURG, WV 26301 304-624-9527
ECA / EAE 501 56th STREET SOUTH EAST CHARLESTON, WV 25304 304-925-6100	ARMSTRONG TELEPHONE 600 EAST NORTH STREET HARRISVILLE, WV 26362 1-877-277-5711	ANTERO RESOURCES 981 E WASHINGTON AVE ELLENBORO, WV 26346 304-869-3405 RYAN BAKER RBAKER@ANTERORESOURCES.COM
KEY OIL COMPANY 22 GARTON PLAZA WESTON, WV 304-289-7102	PENNZOIL 1-800-344-8601	



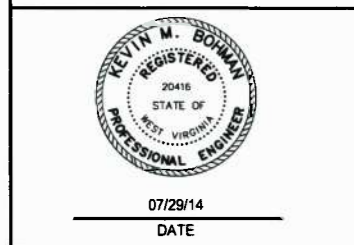
APPROVED BY CONSOL:

REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

DRAWING INDEX	
DESCRIPTION	SHEET NUMBER
COVER SHEET	1
SWPPP NOTES	2-3
SWPPP DETAILS	4-6
WATERLINE PLAN	6-22
ROAD CROSSING DETAILS	23-25
ACCESS ROAD PLAN AND PROFILES	26-49
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**VERTICAL DATUM NOTE**  
VERTICAL CONTROL IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1983 (NAVD 83).

**PLAN REPRODUCTION WARNING**  
THE PLANS HAVE BEEN CREATED ON ANSI D (22" x 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE.  
THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.  
\*\*WARNING\*\* INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.



SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	46230 LF	18" HDPE WATERLINE					
2	152 EA	Elbow, 45° Segmentable Fitting					



MEATHOUSE TO OX11 WATERLINE

COVER SHEET

STATION(S): N/A



DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	1 of 57

**CONTRACTOR NOTES**

1. THIS PLAN DOES NOT PURPORT TO BE A COMPREHENSIVE REPRESENTATION OF EXISTING UTILITIES IN THE PROJECT AREA. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY. BASED ON SURFACE FEATURES OBSERVED IN THE FIELD, CESO, INC. MAKES NO GUARANTEE TO THEIR ACCURACY AND/OR COMPLETENESS. FORTY EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WV811) AT 1-800-245-4848. THE CONTRACTOR SHALL ALSO NOTIFY ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THE PROJECT AREA AND ARE NON-MEMBERS OF WV811.
2. ALL CONTRACTORS/SUBCONTRACTORS PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM THEIR OPERATIONS. SAID EXISTING IMPROVEMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO, BERMS, DITCHES, FENCES AND PLANTS. ANY REMOVAL OR DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTORS TO EXISTING OR BETTER CONDITIONS, AT THEIR EXPENSE, AND SHALL BE APPROVED BY THE OWNER.
3. ALL CONSTRUCTION, TESTING AND MATERIALS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE "PERMITTING ENTITY" AND LOCAL, STATE AND FEDERAL REGULATIONS.
4. ALL NECESSARY TESTING SHALL BE PERFORMED BY AN APPROVED LABORATORY AT THE EXPENSE OF THE CONTRACTOR.
5. PRIOR TO CONSTRUCTION, ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS AND ALL OTHER NECESSARY DETAILS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL STANDARDS OR SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
6. THE CONTRACTOR SHALL HAVE IN THEIR POSSESSION, PRIOR TO CONSTRUCTION, ALL NECESSARY PERMITS, LICENSES, BONDS, INSURANCE, ETC. CONTRACTORS SHALL EACH HAVE AT LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS ON-SITE AT ALL TIMES.
7. IN THE EVENT THAT AN ITEM IS NOT SPECIFICALLY COVERED IN THE PERTINENT AGENCIES CONSTRUCTION STANDARDS AND SPECIFICATIONS AND DETAILS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND PROJECT ENGINEER. THE OWNER SHALL HAVE THE FINAL DECISION ON ALL CONSTRUCTION MATERIALS, METHODS AND PROCEDURES.
8. THE CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA AS SHOWN ON THE PLANS. NO ENCROACHMENTS OUTSIDE OF THE SPECIFIED AREAS SHALL BE ALLOWED. ANY DAMAGE RESULTING THERE FROM SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
9. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES OR LINE LOCATION SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL ASSUME FULL LIABILITY TO THOSE COMPANIES FOR ANY DAMAGES CAUSED TO THEIR FACILITIES.
10. TRENCH BEDDING SHALL BE AS PER WVDH CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST EDITION.
11. TOP OF NATURAL GAS PIPELINE SHALL BE A MINIMUM OF 3'-0" BELOW THE FINISHED GROUND ELEVATION IN ALL VEGETATED AREAS, EXCEPT IN AGRICULTURAL FIELDS, WHICH THE DEPTH SHALL BE 4'-0". MINIMUM BURY UNDER ROADWAYS AND OTHER PAVED AREAS SHALL BE PER THE PERMITTING AUTHORITIES SPECIFICATIONS AND THE ASSOCIATED PERMIT & DRAWINGS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH STANDARD TRENCH SAFETY GUIDELINES AND THE U.S. DEPARTMENT OF LABOR AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
13. THESE PLANS DO NOT CONSTITUTE A BOUNDARY SURVEY. BOUNDARY LINES AS SHOWN HEREON ARE BASED ON TAX MAPS AS PROVIDED BY OWNER.
14. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE PROJECT MANAGER FOR ANY DEVIATION FOUND RELATIVE TO THE PROJECT.
15. EXISTING EASEMENTS AND/OR RIGHT-OF-WAYS WERE NOT RESEARCHED AND SURVEYED DURING THIS PROJECT, OTHER THAN THOSE SHOWN WITHIN THE PLANS.
16. FENCE LINES ENCOUNTERED DURING CONSTRUCTION SHOULD BE RELOCATED AND REPLACED PER LANDOWNER AND OWNER'S REPRESENTATIVE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE GOVERNING AUTHORITIES PRIOR TO ALL ROAD CROSSINGS. MAINTENANCE OF TRAFFIC IS TO BE IMPLEMENTED AS NECESSARY TO ENSURE THAT THE ROAD HAS CONTINUAL ACCESS. MAINTENANCE OF TRAFFIC SHALL BE PER THE LATEST EDITION OF THE WVDH TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS MANUAL.

**GENERAL CONSTRUCTION SEQUENCE**

- THE PIPELINE PROJECT CONSISTS OF ONE GENERAL CONSTRUCTION PHASE. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THE WEST VIRGINIA DEPARTMENT OF NATURAL RESOURCES (WVDNR) AND WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP) EROSION AND SEDIMENT CONTROL FIELD MANUAL.
- THE CONSTRUCTION SEQUENCE IS INTENDED AS A GENERAL COURSE OF ACTION TO COMPLY WITH WVDNR AND WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP) EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL MEASURES NECESSARY TO MEET APPLICABLE RULES AND REGULATIONS ARE INSTALLED, MEASURES AS SHOWN ON THESE PLANS MAY BE ALTERED TO BETTER MEET SITE SPECIFIC CONDITIONS AT THE DISCRETION OF THE CONTRACTOR.
- BMP DETAILS AND CONSTRUCTION SPECIFICATIONS CAN BE FOUND ON THE STANDARD DETAIL SHEETS.
1. A COPY OF THE FOR CONSTRUCTION PLANS MUST BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES.
  2. AT LEAST THREE DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITY, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL NOTIFY THE WEST VIRGINIA ONE CALL SYSTEM BEFORE STARTING ANY CONSTRUCTION ACTIVITIES.
  3. PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, CONTRACTOR SHALL CLEARLY DELINEATE SENSITIVE AREAS, RIPARIAN FOREST BUFFER BOUNDARIES, THE LIMITS OF CLEARING, AND TREES THAT ARE TO BE CONSERVED WITHIN THE PROJECT SITE, AND INSTALL APPROPRIATE BARRIERS WHERE EQUIPMENT MAY NOT BE PARKED, STAGED, OPERATED OR LOCATED FOR ANY PURPOSE. APPROPRIATE BMP'S SHOULD BE INSTALLED AND FUNCTIONING.
  4. CONSTRUCTION FENCE SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS. CONSTRUCTION FENCE SHALL BE CHECKED REGULARLY FOR WEATHER RELATED OR OTHER DAMAGE. ANY NECESSARY REPAIRS SHALL BE MADE IMMEDIATELY.
  5. INSTALLATION OF STONE CONSTRUCTION ENTRANCES AT ALL ACCESS LOCATIONS SHALL BE THE FIRST STEP OF CONSTRUCTION AND SHALL BE FOLLOWED BY INSTALLATION OF BMP'S FOR ALL AREAS DESIGNATED FOR EQUIPMENT AND MATERIAL STAGING.
  6. INSTALL ROCK CHECK DAMS AT LOCATIONS SHOWN ON THE PLANS. INSPECT EACH CHECK DAM AT A MINIMUM ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIODS. CHECK TO SEE IF WATER HAS FLOWED AROUND THE EDGE OF THE STRUCTURE. REPLACE STONE AND REPAIR DAM AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT AND CONFIGURATION. SEDIMENT SHALL BE REMOVED FROM BEHIND THE CHECK DAMS WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE DAM.
  7. INSTALL PERIMETER BMP'S (SILT FENCING OR FILTER SOCKS) WHERE NECESSARY ALONG CLEARING AND GRUBBING BOUNDARIES.
  8. BEGIN LAND CLEARING AND GRADING (IF NECESSARY) ONLY AFTER ALL DOWNSLOPE BMP'S HAVE BEEN INSTALLED. IF POSSIBLE, MINIMIZE CLEARING AND GRADING AT STREAM CROSSINGS UNTIL THE TIME OF CROSSING.
  9. APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS REACHED FINAL GRADE, HAS BEEN DELAYED OR OTHERWISE TEMPORARILY SUSPENDED.
  10. INSTALL TEMPORARY WATERBARS AT LOCATIONS SHOWN ON THE DRAWINGS. WATERBARS WILL BE INSTALLED WITH FILTER SOCKS AT THE DISCHARGE TO HELP CONTROL THE VOLUME AND SPEED OF STORMWATER.
  11. INSTALL BMP'S FOR TEMPORARY ROAD CROSSINGS OF WETLANDS AND WATER BODIES WITHIN THE PIPELINE ROW AS NECESSARY. FOLLOW STREAM AND WETLAND CROSSING DETAILS FOR ACCESS ROAD CROSSINGS OF THESE FEATURES. FILTER SOCKS SHALL BE USED AT ALL STREAM CROSSINGS. SEE STREAM CROSSING PROCEDURES AND WETLAND CROSSING PROCEDURES FOR ADDITIONAL INFORMATION ON WATER BODY AND WETLAND CROSSINGS.
  12. CONSTRUCTION OF UTILITIES (INSTALL NATURAL GAS PIPELINE), WHEN TRENCH EXCAVATION TAKES PLACE IN AN AGRICULTURAL, WETLAND, OR RESIDENTIAL AREA, THEN SEGREGATION OF TOPSOIL AND SUBSOIL WILL BE PERFORMED. FOLLOW STREAM AND WETLAND CROSSING DETAILS LOCATED ON THE EROSION AND SEDIMENT CONTROL DRAWINGS FOR UTILITY CROSSINGS OF THESE FEATURES. SEE STREAM CROSSING PROCEDURES AND WETLAND CROSSING PROCEDURES FOR ADDITIONAL INFORMATION ON WATER BODY AND WETLAND CROSSING. DURING CONSTRUCTION, INSTALL AND MAINTAIN ANY ADDITIONAL EROSION AND SEDIMENT CONTROL BMP'S AND IMPLEMENT STRUCTURAL POST CONSTRUCTION STORMWATER BMP'S (PERMANENT WATERBARS) THAT MAY BE REQUIRED. SEE UTILITY LINE INSTALLATION REQUIREMENTS NOTES FOR LIMITS OF WORK.
  13. ANY WATER ENCOUNTERED WITHIN THE EXCAVATION AREAS DURING CONSTRUCTION SHALL BE REMOVED BY USING PUMPS, HOSES, AND PUMPED WATER FILTER BAGS WHICH SHALL BE DISCHARGED INTO UNDISTURBED WELL-VEGETATED UPLAND AREAS.
  14. BACKFILL AREAS EXCAVATED FOR THE INSTALLATION OF UTILITIES WITH SUITABLE EXCAVATED MATERIAL. IN AREAS WHERE TOPSOIL HAS BEEN SEGREGATED, THE SUBSOIL SHALL BE REPLACED FIRST, FOLLOWED BY THE TOPSOIL BEING SPREAD OVER THE AREA FROM WHICH IT WAS REMOVED. FINAL GRADES SHALL BE THE SAME AS PRE-CONSTRUCTION CONTOURS.
  15. AFTER CONSTRUCTION IS COMPLETE, FINAL SEEDING AND MULCHING OF ALL DISTURBED AREAS NOT YET STABILIZED SHALL BE COMPLETED. INSTALL EROSION CONTROL BLANKETING ON SLOPES WHICH ARE 3:1 OR STEEPER. STABILIZE AND SEED ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS.
  16. REMOVAL OF ALL TEMPORARY BMP'S CAN BE PERFORMED UPON ACHIEVEMENT OF A UNIFORM 70 PERCENT PERENNIAL VEGETATIVE COVER WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION FOR ALL AREAS WHICH WOULD CONTRIBUTE RUNOFF TO THE BMP'S. STABILIZE ANY DISTURBANCES ASSOCIATED WITH THE REMOVAL OF THE BMP'S.

**STREAM CROSSING (TEMPORARY) CONSTRUCTION SEQUENCE - ACCESS ROADS**

1. ALL IN STREAM DISTURBANCE ACTIVITY SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH WVDEP, THE WEST VIRGINIA OFFICE OF LAND AND STREAMS (WVOLS), THE WVDNR, AND THE U.S. ARMY CORPS OF ENGINEERS (USACE) RULES AND REGULATIONS.
2. STREAM CROSSING SHALL MEET THE REQUIREMENTS OF THE WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL CHAPTER 3.21.
3. INSTALL TIMBER MATS AS SHOWN ON PLANS
4. INSTALL ACCESS ROAD TEMPORARY CROSSING AS SHOWN ON PLANS.
5. REMOVE COFFERDAM AND STABILIZE ANY REMAINING DISTURBED AREAS.

**UTILITY LINE INSTALLATION REQUIREMENTS**

1. THE CONTRACTOR SHALL LIMIT TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT AND BACKFILL THAT CAN BE INSTALLED IN ONE DAY.
2. THE CONTRACTOR SHALL GRADE TO FINAL CONTOURS, INSTALL REQUIRED EROSION CONTROL MEASURES, AND SEED AND MULCH ALL DISTURBED AREAS AT THE END OF EACH WEEK.
3. DEWATER ALL TRENCHES PRIOR TO PIPE INSTALLATION AND BACKFILLING. ALL WATER TO BE PUMPED INTO A SEDIMENT FILTER BAG.
4. ALL TRENCH EXCAVATION MATERIAL TO BE PLACED ON DOWNHILL SIDE OF TRENCH.
5. IN THE EVENT THAT THESE REQUIREMENTS CANT BE MET DUE TO FIELD CONDITION, THE CONTRACTOR SHALL COORDINATE ALTERNATE REQUIREMENTS WITH OWNER'S REPRESENTATIVE.

**UTILITY RIGHT-OF-WAY RESTRICTIONS**

1. CONSTRUCTION VEHICLES, VEHICLES WITH BOOMS AND EQUIPMENT OPERATING WITHIN OR ADJACENT TO A UTILITY RIGHT-OF-WAY MUST BE PROPERLY GROUNDING.
2. CHANGES TO GRADE ELEVATION WITHIN THE UTILITY RIGHT-OF-WAY ARE NOT PERMITTED.
3. GROUND DISTURBANCE OR EXCAVATIONS ARE NOT PERMITTED WITHIN 50 FEET OF ANY UTILITY STRUCTURES (POLES, TOWERS, GUYS, ETC.)
4. EXPLOSIVES OR COMBUSTIBLE LIQUIDS, SUBSTANCES, OR MATERIALS ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY. PROHIBITED MATERIALS INCLUDE BUT ARE NOT LIMITED TO FUEL, WOOD CHIPS, MULCH, BRUSH, AND TIRES.

**IFC**

07/29/14

DATE

**SUMMARY OF MATERIALS**

MRKR #	QTY.	DESCRIPTION

**REFERENCE DRAWINGS**

DWG.	DESCRIPTION

**REVISIONS**

NO.	DATE	DESCRIPTION



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MEATHOUSE TO OX11 WATERLINE

SWPPP NOTES

STATION(S): N/A

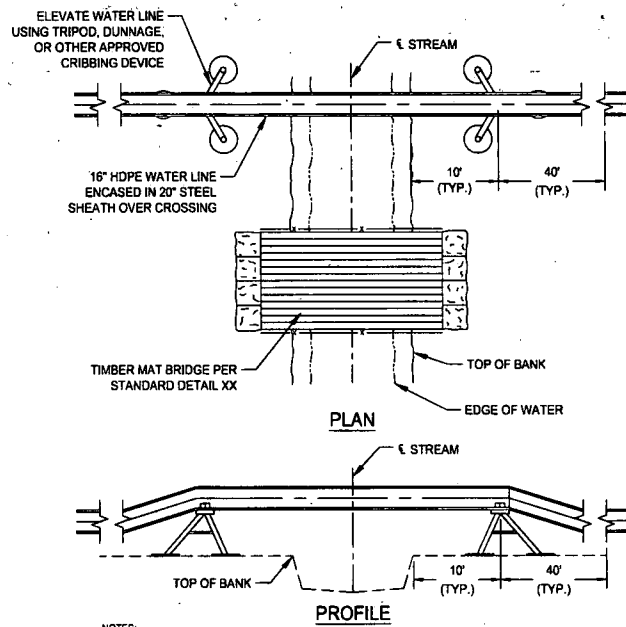


200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	

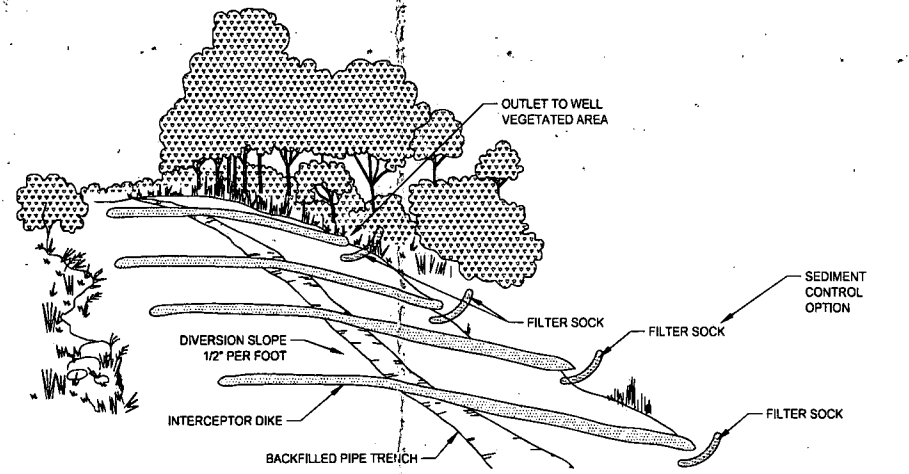
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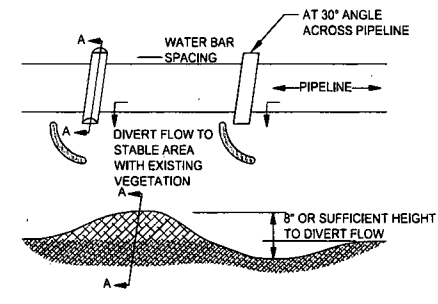


- NOTES:
- KEEP ALL VALVES AND PIPE CONNECTIONS OUTSIDE THE FLOODWAY (50 FEET FROM TOP OF BANK).
  - CRIBBING DEVICE SHALL BE TRIPOD, DUNNAGE, OR APPROVED EQUAL.
  - PLACE CRIBBING DEVICE A MINIMUM OF 10 FEET FROM TOP OF BANK TO CENTER OF CRIBBING DEVICE.
  - WATER LINE SHALL REMAIN ELEVATED A MINIMUM OF 50' FROM TOP OF BANK.
  - WATER LINE MUST BE PLACED ABOVE THE 25-YEAR STORM EVENT ELEVATION.

**(A) CRIBBING**  
NOT TO SCALE



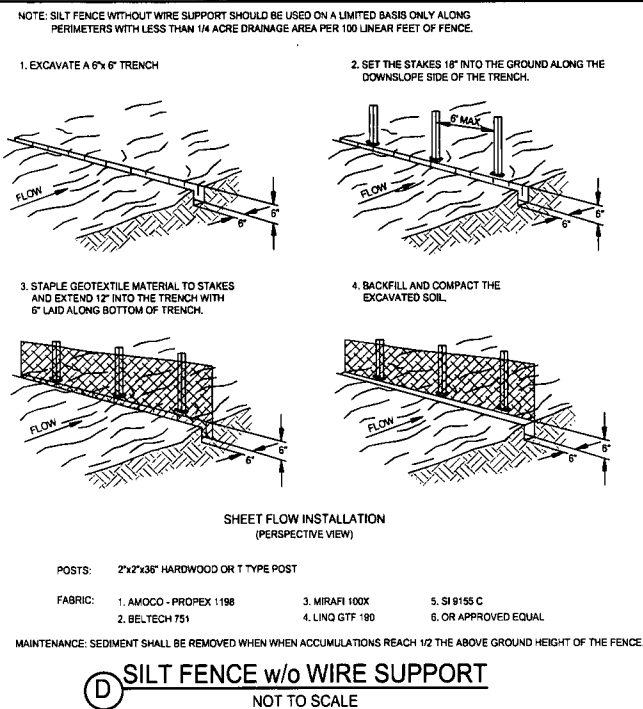
- THE MINIMUM WATER BAR DIMENSIONS SHALL BE: TOP WIDTH OF BERM/DIKE - 2 FEET MINIMUM. HEIGHT/DEPTH - 8 INCHES UNLESS OTHERWISE NOTED ON PLANS.
  - THE SPACING BETWEEN WATER BARS SHALL BE AS NOTED:
- | PIPELINE GRADE (%) | >200' FROM STREAMS | <200' FROM STREAMS |
|--------------------|--------------------|--------------------|
| 2-5                | 400                | 200                |
| 6-12               | 300                | 150                |
| 13-21              | 200                | 100                |
| 22-34              | 100                | 50                 |
| 35-50              | 50                 | 25                 |
- THE FIELD LOCATION SHALL BE ADJUSTED AS NEEDED TO PROVIDE A STABILIZED SAFE OUTLET.
  - THE DIVERTED RUNOFF SHALL BE DIRECTED ONTO AN UNDISTURBED VEGETATION AREA, TO A SETTLEMENT TRAP OR BASIN OR TRAP IF CONTRIBUTING AREA IS STABLE.
  - DIVERSION DIKES SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT DURING CONSTRUCTION.
  - THE WATER BAR SHALL BE ANGLED SLIGHTLY DOWN SLOPE ACROSS THE CENTERLINE OF THE PIPELINE RIGHT OF WAY.
  - DIVERSION DIKES SHALL BE MAINTAINED FOR MAINTENANCE PROCEDURES.
  - UNTIL AREA IS STABILIZED, USE SEDIMENT CONTROL OPTIONS SHOWN.
  - REMOVE ALL SEDIMENT CONTROL OPTIONS ONCE SITE IS STABILIZED.



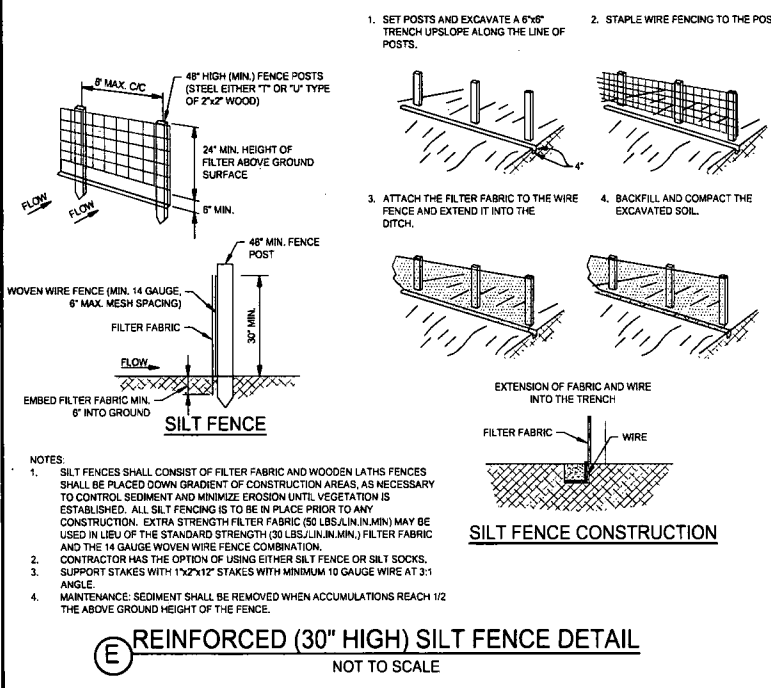
- NOTES:
- THIS TYPE OF BRIDGE IS GENERALLY USED FOR SMALL STREAM CROSSINGS LESS THAN 20 FEET IN WIDTH IN COMBINATION WITH A PROPER STREAM BANK CONFIGURATION.
  - BRIDGE WILL BE TEMPORARILY REMOVED IF HIGH WATER RENDERS IT UNSAFE FOR CROSSING.
  - BRIDGE TO REMAIN IN PLACE UNTIL THE COMPLETION OF FINAL RESTORATION.
  - SILT FENCE, SAND BAGS, DRIVEABLE BERMS, OR OTHER APPROPRIATE EROSION CONTROL MAY BE USED INTERCHANGEABLY.
  - A "SKIRT" FORMED OF SILT FENCE, GEOTEXTILE FABRIC, OR EQUIVALENT SHALL BE PLACED ON THE SIDES AND BOTTOM OF THE BRIDGE TO TRAP SEDIMENT AS NECESSARY.
  - INDIVIDUAL MATS SHALL BE ANCHORED AND BUTTED TIGHTLY TO MINIMIZE THE INTRODUCTION OF SEDIMENT TO THE WATERBODY.

**(C) STANDARD CONSTRUCTION DETAIL - TIMBER MAT BRIDGE**  
NOT TO SCALE

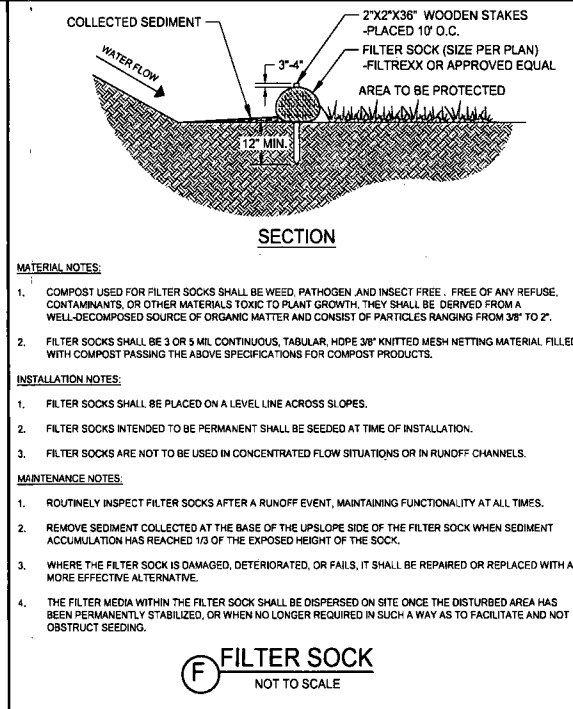
**(B) STANDARD WATER BAR DETAIL**  
NOT TO SCALE



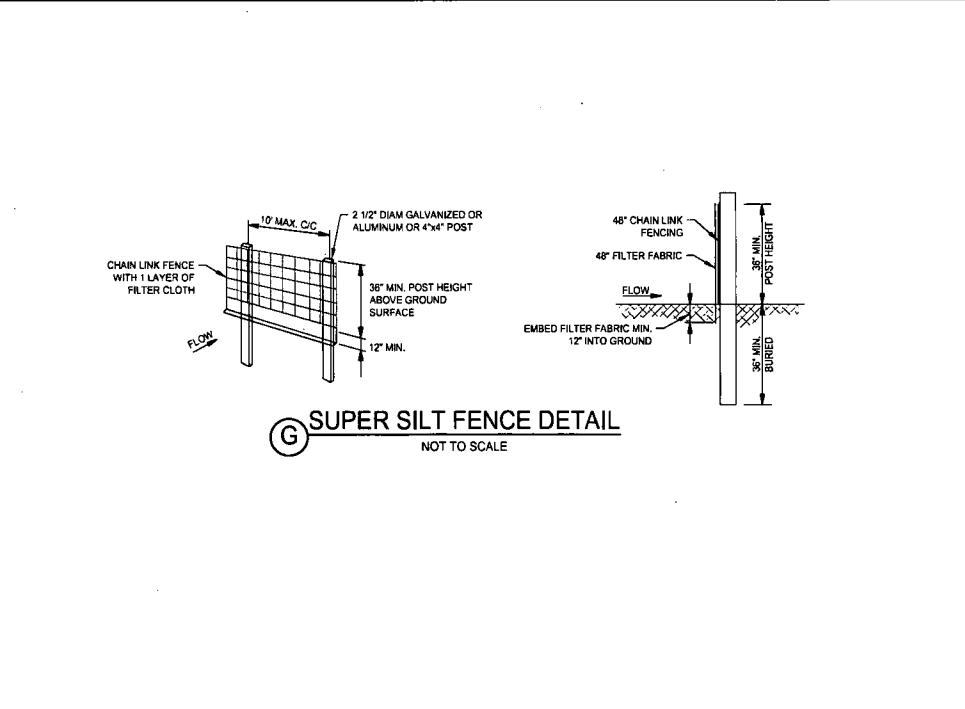
**(D) SILT FENCE w/o WIRE SUPPORT**  
NOT TO SCALE



**(E) REINFORCED (30" HIGH) SILT FENCE DETAIL**  
NOT TO SCALE



**(F) FILTER SOCK**  
NOT TO SCALE



**(G) SUPER SILT FENCE DETAIL**  
NOT TO SCALE

**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

**CESO**

CREATION TO COMPLETION

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MEATHOUSE TO OX11 WATERLINE

SWPPP DETAILS

STATION(S): N/A

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE: 07/29/14

JOB NO.: 750589

DESIGN: BEM

DRAWN: BEM

CHECKED: BJM

SHEET NO.

**4 of 57**

**EROSION AND SEDIMENT CONTROL NARRATIVE:**

PLAN DESIGNER: CESO, INC. 2800 CORPORATE EXCHANGE DRIVE, SUITE 160 COLUMBUS, OH 43231  
 CONTACT: BENJAMIN J. MILLER, PE P: 614-794-7080 E: MILLER@CESOINC.COM  
 OWNER: CNX GAS COMPANY, LLC ONE ENERGY DRIVE JANE LEW, WV 26378  
 CONTACT: ADAM WHITE P: 240-506-7299 E: ADAMWHITE@CONSOLENERGY.COM

WV DEP PERMIT #: XXXXXXXX  
 PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF CONSTRUCTING AN ABOVE AROUND WATER LINE IN DODDRIDGE COUNTY, WEST VIRGINIA. 56.35 ACRES TOTAL PROJECT AREA. 0 ACRES PROPOSED IMPERVIOUS AREA. 58.35 ACRES DISTURBED. 10,523 CY CUT/ 10,429 CY FILL (94 CY SPOIL - TO BE SPOILED IN TAR-7 LAY YARD)

EXISTING SITE CONDITIONS: THE TOPOGRAPHY OF THIS SITE CONSISTS OF MANY RIDGES AND VALLEYS. THIS SITE CONSISTS PREDOMINATELY OF WOODS AND OPEN FIELDS. THIS SITE DRAINS TO S FORK HUGHES RIVER, MEATHOUSE FORK, LICK RUN, AND CAIN RUN.

ADJACENT AREAS: ADJACENT AREAS THAT MAY BE AFFECTED BY SITE DISTURBANCE INCLUDE WETLAND G71, STREAM G72, STREAM G73, WETLAND A, WETLAND B, WETLAND C, STREAM 3, STREAM 4, STREAM 5, WETLAND G 54, STREAM G54, STREAM G51, STREAM G49, STREAM G47, STREAM G46, STREAM G45, STREAM G43, STREAM G40, STREAM G39, STREAM G38, WETLAND G37, WETLAND G34, WETLAND G33, WETLAND CA, WETLAND CB, STREAM EH, WETLAND EM, STREAM EJ, STREAM EH, WETLAND G29, STREAM G60, WETLAND G61, WETLAND G63, STREAM CE, CR 13/3, MAXWELL RIDGE RD (CR 13), CAIN RUN RD (CR 40), AND S FORK HUGHES RIVER ROAD (CR 19/11).

THE DRAINAGE PATH LEADING FROM THE SITE TO THE RECEIVING BODY OF WATER CONSISTS OF VEGETATED SWALES, EXISTING EROSIONAL FEATURES, AND TRIBUTARIES OF STREAMS.

CRITICAL AREAS: PIPELINE: STREAM 1 (MEATHOUSE FORK), WETLAND E, STREAM 6, STREAM G53, STREAM G52, STREAM G50, STREAM G46, STREAM G44, STREAM G41, STREAM G36, STREAM G32, STREAM G31, STREAM G30, STREAM CC, STREAM ZZ, STREAM ZA, STREAM G62, STREAM G64, STREAM G65, STREAM G66, STREAM G67, STREAM G68, AND STREAM CF.

REQUIREMENTS FOR WORKING IN OR NEAR CRITICAL AREAS CAN BE FOUND ON SHEETS 2-5.

**SOILS:**

Soil name	Soil Mapping Unit	Erodibility (K Factor, Whole Soil)	Settleability (Unavailable)	Permeability	Depth (cm)	Texture	Soil Structure (Unavailable)
CHAGRIN SILT LOAM	Ch	0.37	-	Well drained	>200	Silt loam	-
GILPIN-PEABODY COMPLEX, 25 TO 35 PERCENT SLOPES	GpE	0.43	-	Well drained	69	Silt loam	-
GILPIN-PEABODY COMPLEX, 15 TO 35 PERCENT SLOPES, VERY STONY	GpF	0.37	-	Well drained	84	Silt loam	-
GILPIN-PEABODY COMPLEX, 35 TO 70 PERCENT SLOPES, VERY STONY	GpF	0.37	-	Well drained	84	Silt loam	-
GILPIN UPSHUR COMPLEX, 8 TO 15 PERCENT SLOPES	GuC	0.43	-	Well drained	84	Silt loam	-
GILPIN UPSHUR COMPLEX, 15 TO 25 PERCENT SLOPES	GuD	0.43	-	Well drained	84	Silt loam	-
MONONGAHELA SILT LOAM, 8 TO 15 PERCENT SLOPES	MoC	0.43	-	Moderately well drained	56	Silt loam	-
SENSABAUGH SILT LOAM	Se	0.37	-	Well drained	>200	Silt loam	-
SENSABAUGH SILT LOAM, 3 TO 8 PERCENT SLOPES, RARELY FLOODED	SeB	0.37	-	Well drained	>200	Silt loam	-
VANDALIA SILT LOAM, 15 TO 25 PERCENT SLOPES	VaD	0.32	-	Well drained	>200	Silt loam	-
VANDALIA SILT LOAM, 25 TO 35 PERCENT SLOPES	VaE	0.49	-	Well drained	>200	Silt loam	-
VANDALIA SILT LOAM, 15 TO 35 PERCENT SLOPES, VERY STONY	VaE	0.49	-	Well drained	>200	Silt loam	-

\*Data obtained from NRCS-USDA Web Soil Survey

EROSION PROBLEM AREAS: POTENTIAL EROSION PROBLEMS ON THIS SITE EXIST ALONG STEEP SLOPES WHERE THE PIPELINE WILL BE LAID.

CONSTRUCTION STORMWATER POLLUTION PREVENTION: THE SEDIMENT CONTROL PLAN SHOWS ALL CLEARING LIMITS AND PROPOSED SEDIMENT CONTROLS. THE GENERAL NOTES ADDRESS THE STABILIZATION OF SOILS, SLOPE PROTECTION, CONTROL OF OTHER POLLUTANTS, DEWATERING CONTROL, MAINTENANCE OF BMPs, MANAGEMENT OF THE PROJECT, AND STABILIZATION. TYPES OF BMPs USED ON THIS PROJECT INCLUDE FILTER SOCKS, WATER BARS, SUPER SILT FENCE AND SILT FENCE. REFER TO SHEETS 6-49 FOR LOCATIONS.

CONSTRUCTION PHASING AND SCHEDULE: THE CONSTRUCTION SEQUENCE FOR THIS PROJECT CAN BE FOUND ON SHEET 2. WET SEASON CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO CLEARING, EROSION & SEDIMENT CONTROL INSTALLATION, ACCESS ROAD CONSTRUCTION, TRENCH EXCAVATION, UTILITY PLACEMENT, BACKFILLING, AND OPEN CUTTING OF STREAMS. CONSTRUCTION RESTRAINTS FOR ENVIRONMENTALLY CRITICAL AREAS CAN BE FOUND ON SHEET 2.

ENGINEERING CALCULATIONS: ENGINEERING CALCULATIONS ARE NOT REQUIRED FOR THIS PROJECT.

**TEMPORARY SEEDING CHART**

Common Name	Scientific Name	Planting Dates	PLS Lbs/Acre
Annual Ryegrass	Lolium multiflorum	2/16-5/15, 8/1-11/1	40
Field Bromegrass	Bromus ciliatus	3/1-6/15, 8/1-9/15	40
Spring Oats	Avena sativa	3/1-6/15	100
Winter Rye	Secale cereale	8/15-2/28	170
Winter Wheat	Triticum aestivum	8/18-2/28	180
Japanese Millet	Echinochloa crusgalli	5/15-8/15	30
Redtop	Agrostis alba	3/1-6/15	10
Annual Ryegrass and Spring Oats	Lolium multiflorum, Avena sativa	3/1-6/15	30, 70
German, Foxtail Millet	Setaria italica	5/1-8/1	40
Hairy Vetch	Vicia villosa	8/15-4/1	60

**PERMANENT SEEDING CHART**

Seed Mix	Common Name	Scientific Name	PLS Lbs/Acre
O	Perennial Ryegrass	Lolium perenne	40
	Birdsfoot Trefoil	Lotus corniculatus	15
	Redtop	Agrostis alba	5
p	Serecia Lespedeza	Lespedeza cunata	40
	Orchardgrass	Dactylis glomerata	30
	Redtop	Agrostis alba	5

- ALL PERMANENT SEEDING SHALL CONFORM TO WV DEP EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, SECTION 3.10-1.
- SEED MIX O OR P SHALL BE USED FOR PERMANENT SEEDING.

- PRIOR TO SEEDING, INSTALL NECESSARY EROSION CONTROL PRACTICES SUCH AS DIKES, WATERWAYS, AND BASINS.
- SEED SHALL BE EVENLY APPLIED WITH A BROADCAST SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5 INCHES DEEP. SMALL SEEDS, SUCH AS ANNUAL RYE, SHALL BE PLANTED NO MORE THAN A QUARTER INCH DEEP. OTHER GRASSES AND LEGUMES SHALL BE PLANTED NO MORE THAN A HALF INCH DEEP.
- TEMPORARY SEEDING CONDUCTED IN FALL FOR WINTER COVER AND DURING HOT AND DRY SUMMER MONTHS SHALL BE MULCHED WITH STRAW AND HAY ACCORDING TO THE STANDARD FOR MULCHING, HYDROMULCHES (FIBER MULCH) MAY NOT PROVIDE ADEQUATE TEMPERATURE AND MOISTURE CONTROL.

**EROSION & SEDIMENT CONTROL PLAN NOTES**

- ALL EROSION AND SEDIMENTATION CONTROL SHALL BE PERFORMED ACCORDING TO THIS PLAN; WEST VIRGINIA GENERAL WATER POLLUTION CONTROL PERMIT, ANY AND ALL REQUIRED PERMITS, REPORTS, AND RELATED DOCUMENTS. ALL CONTRACTORS AND SUBCONTRACTORS MUST BECOME FAMILIAR WITH ALL OF THE ABOVE.
- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE EROSION CONTROL PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AND GRADE CHANGES TO THE SITE AT NO ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO THE ENVIRONMENT TO THE MAXIMUM EXTENT POSSIBLE OR AS REQUIRED BY THE GENERAL PERMIT.
- PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING WITHIN SEVEN (7) DAYS FROM THE START OF CLEARING AND GRUBBING, AND SHALL CONTINUE TO FUNCTION UNTIL THE SLOPE DEVELOPMENT AREA IS RESTABILIZED.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
- WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES 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 14 DAYS FROM WHEN ACTIVITIES CEASED, (I.E., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
- AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RESEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
- TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, CHAPTER 3.10.
- PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, CHAPTER 3.11.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. ALL SLOPES 3:1 OR GREATER THAN 3:1 SHALL BE FERTILIZED, SEEDED, AND CURLEX BLANKETS BY AMERICAN EXCELSIOR COMPANY, NORTH AMERICAN GREEN, INC. OR AN APPROVED EQUAL AS SPECIFIED IN THE PLANS SHALL BE INSTALLED ON THE SLOPES.
- NO SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORM WATER RUNOFF. ALL NON-SEDIMENT POLLUTANTS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN DESIGNATED PIT OR DIKED AREAS. WHERE WASHINGS CAN BE REMOVED AND PROPERLY DISPOSED OFF-SITE WHEN THEY HARDEN. STORAGE TANKS SHOULD ALSO BE LOCATED IN PIT OR DIKED AREAS. IN ADDITION, SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS TO CLEAN AND CONTAIN FUEL AND CHEMICAL SPILLS MUST BE KEPT ON SITE.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE STABILIZED CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE MOST OF THE DIRT AND MUD, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. PROVISIONS MUST BE MADE TO INTERCEPT THE WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DISPOSED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE SITE THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- DUST CONTROL USING APPROVED MATERIALS MUST BE PERFORMED AT ALL TIMES. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE ROADWAYS OR INTO THE STORM SEWERS MUST BE REMOVED IMMEDIATELY.

**EROSION & SEDIMENT CONTROL MAINTENANCE NOTES**

- ALL CONTROL MEASURES STATED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY A QUALIFIED PERSON IN ACCORDANCE TO THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED ACCORDING TO THE FOLLOWING:
- ALL SEEDING AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STANDING OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEDED AS NEEDED.
  - SILT FENCES, AND CHECK DAMS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION IF DAMAGED. SEDIMENT ACCUMULATION MUST BE REMOVED WHEN SEDIMENT HEIGHT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE OR CHECK DAM.
  - SEDIMENTATION TRAPS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT MUST BE REMOVED FROM TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 40%.
  - MINIMIZE OFF-SITE SEDIMENT TRACKING OF VEHICLES BY THE USE OF STONE MATERIAL IN ALL CONSTRUCTION ENTRANCES, ALONG WITH REGULARLY SCHEDULED SWEEPING/GOOD HOUSEKEEPING. STABILIZED CONSTRUCTION ENTRANCES TO BE PROPERLY MAINTAINED BY GENERAL CONTRACTOR AND IN GOOD WORKING ORDER AT ALL TIMES; THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE STONE AS CONDITIONS DEMAND.
  - THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE) BY GENERAL CONTRACTOR. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
  - CONTRACTORS AND SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ALL SEDIMENT FROM THE SITE, INCLUDING SEDIMENT TRAPS AND STORM SEWER PIPES. SEDIMENT DEPOSITION DURING SITE STABILIZATION MUST ALSO BE REMOVED.
  - ALL ROCK CHANNEL PROTECTION MUST BE PLACED OVER GEOTEXTILE FILTER.
  - ROCK CHECK DAMS SHOULD BE ROUTINELY CLEANED ONCE SEDIMENT BEGINS TO APPEAR ON THE UPSTREAM SIDE OF THE ROCK.
  - CONTAINERS SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL.
  - AREA SHALL BE DESIGNATED BY CONTRACTOR AND SHOWN ON SWPPP MAP FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME ASPHALT, OR CONCRETE. THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA.
  - EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.
  - A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE, TOTAL ABOVE-GROUND STORAGE OF 1,330 GALLONS OR BELOW-GROUND STORAGE OF 4,200 GALLONS OF FUEL.
  - ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN AN WVDEP APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES.
  - THE CONTRACTOR SHALL CONTACT THE WVDEP, THE LOCAL FIRE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF SHEEN.

**EROSION & SEDIMENT CONTROL MAINTENANCE NOTES**

ALL EROSION AND SEDIMENT CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. ANY REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.

IFC	SUMMARY OF MATERIALS		REFERENCE DRAWINGS		REVISIONS		 CREATION TO COMPLETION www.cesoinc.com Engineering • Architecture • Survey • Construction Mgt • Environmental	MEATHOUSE TO OX11 WATERLINE  SWPPP NOTES	 200 EVERGREENE DRIVE WAYNESBURG, PA 15370	DATE: 07/29/14
	MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.				DATE
07/29/14										DESIGN: BEM
DATE										DRAWN: BEM
										CHECKED: BJM
										SHEET NO.
										3 of 57

**NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA**

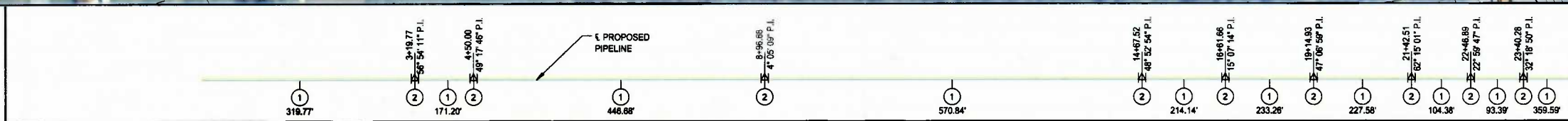
OWNER/PARCEL ID: (1) DONAHO DENISE W 09-06-0003-0007-0001-0000 (2) MAXWELL LEWIS FREDERICK 09-06-0003-0011-0000-0000

ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN
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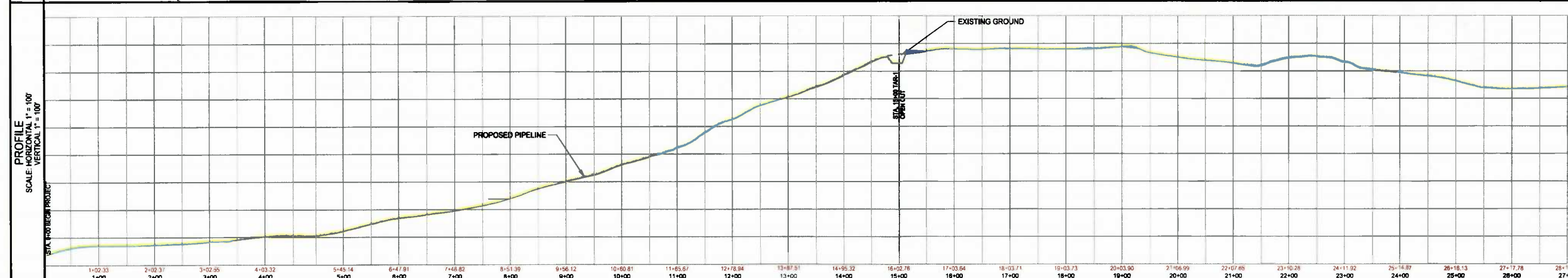
**PIPELINE DATA**  
SCALE: N.T.S.

	PIPE INSTALL BY OPEN CUT
	PIPE INSTALL BY BORE
	SEGMENTAL FITTING
	PIPELINE WARNING SIGNS
	PIPELINE MARKER NUMBER



NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

ANTERO RESOURCES  
981 E WASHINGTON AVE  
ELLENBORO, WV 26346  
304-889-3405  
RYAN BAKER  
RBAKER@ANTERORESOURCES.COM



**WEST VIRGINIA 811**

GRAPHIC SCALE (IN FEET)

**LEGEND**

	PIPE INSTALL BY OPEN CUT		STREAM
	PIPE INSTALL BY BORE		5' FILTER SOCK (FS)
	SEGMENTAL FITTING		5' SUPER SILT FENCE (SSF)
	PIPELINE WARNING SIGNS		SILT FENCE
	PIPELINE MARKER NUMBER		WATER BAR (WB)
			TRENCH PLUG
			PROPOSED PERMANENT ACCESS ROAD
			PROPOSED TEMPORARY ACCESS ROAD
			EASEMENT LINE
			WETLAND
			POTENTIAL ROAD TREE (PRT)

**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2818 LF	18" HDPE WATERLINE				
2	9 EA	Elbow, 45° Segmental Fitting				

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

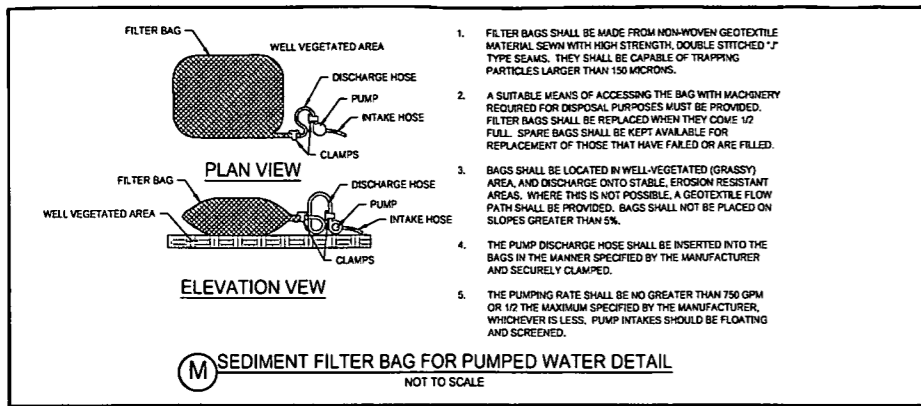
STATION(S): 0+00 TO 27+00

**CONSOL ENERGY**

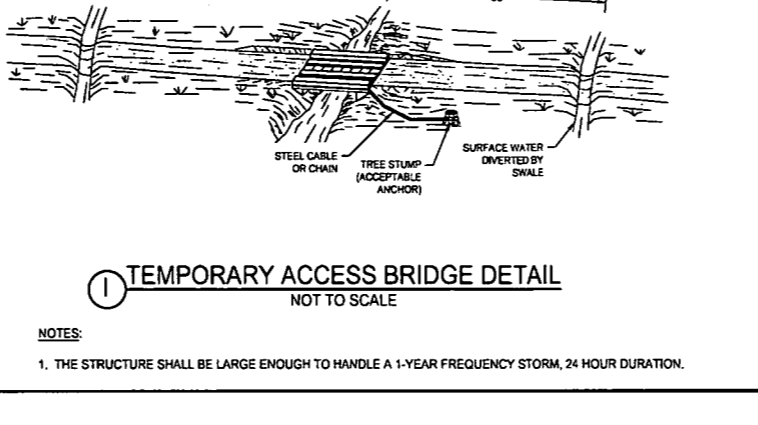
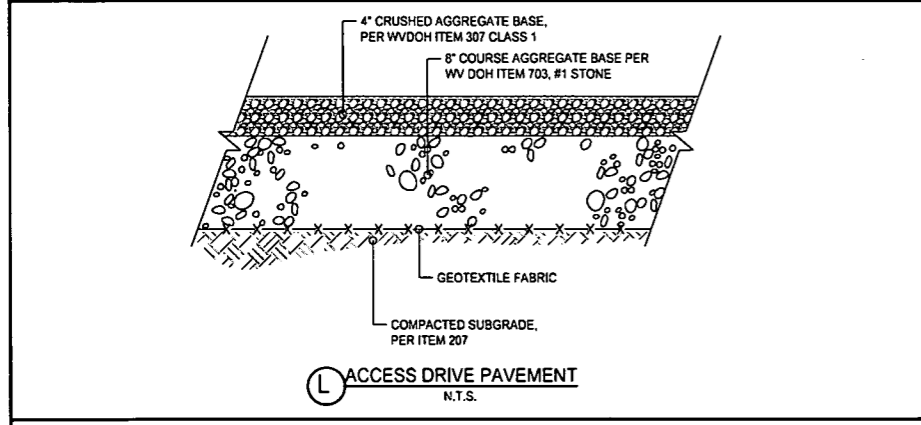
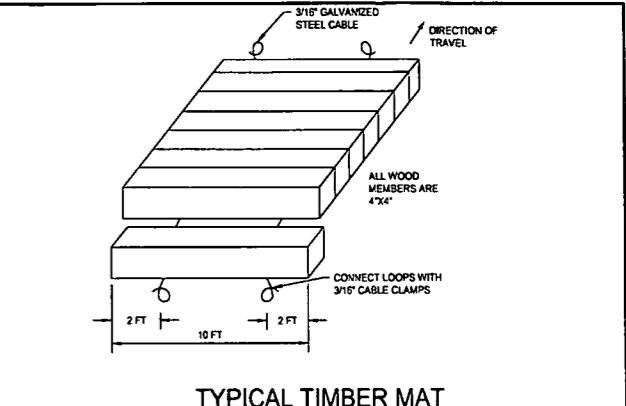
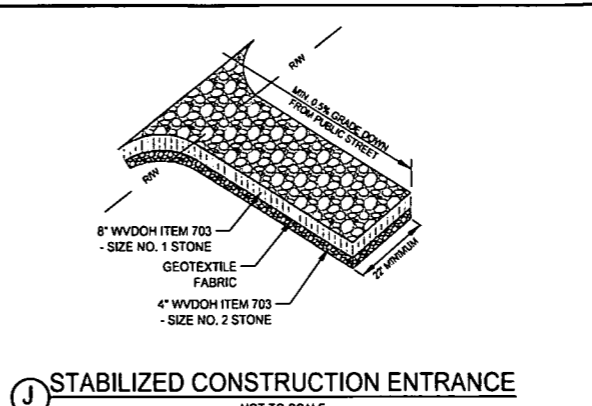
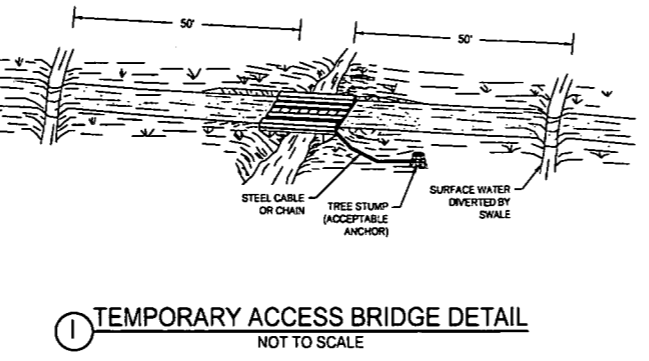
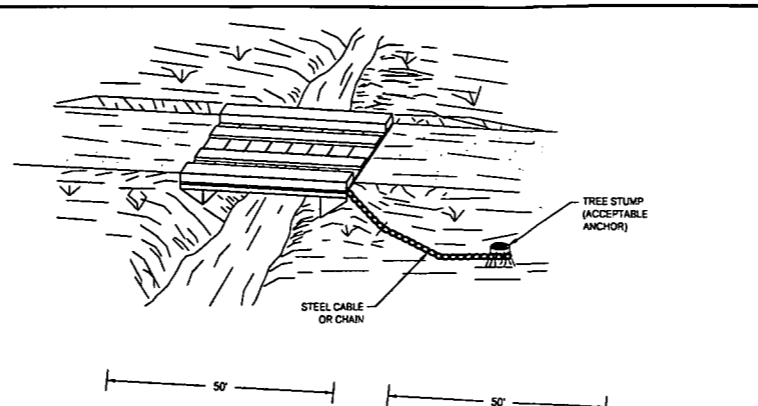
200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	6 of 57

K:\PROJECTS\CONSOL ENERGY\750589-01 - OX11 - MEATHOUSE FORK WATER LINE\03-CIVIL\PLAN\PIPELINE\750589-MEATHOUSE-OX11 IFC.DWG - 7/30/2014 4:33 PM



1. FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY COME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.
4. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
5. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.



**OPTION A**  
\*Wooded Wetland Establishment Seed Mix\* (available from JFNew or Ernst)

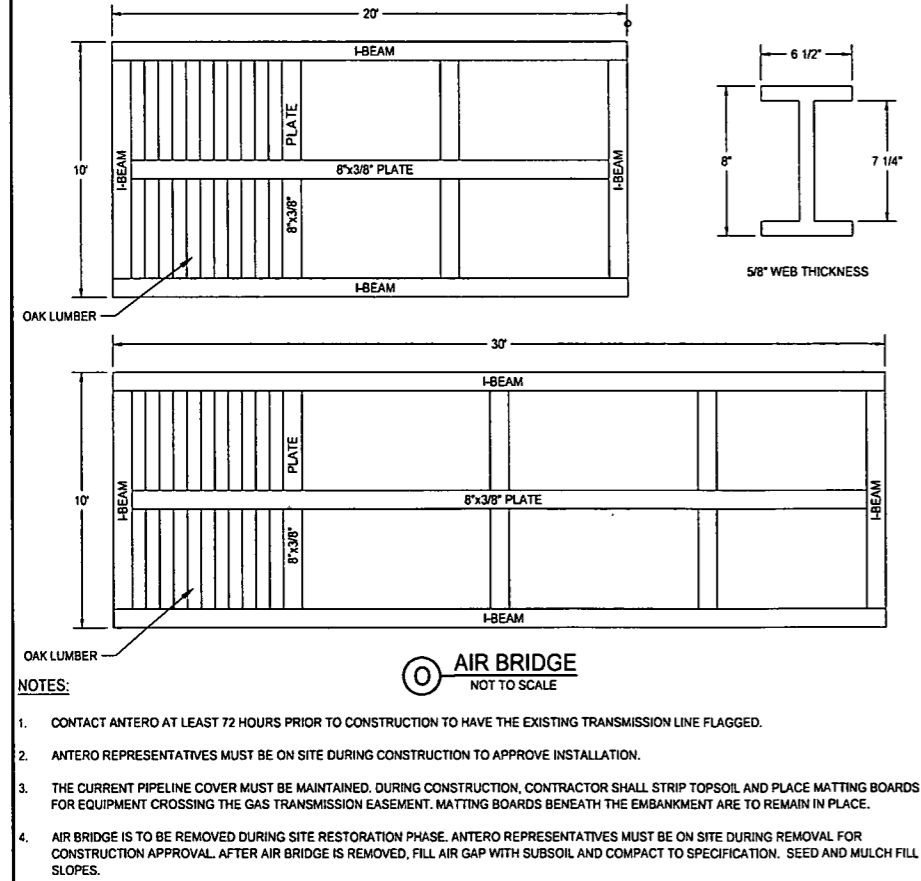
Scientific Name	Common Name	PLS Ounces/Acre
<b>Permanent Grasses/Sedges:</b>		
<i>Calamagrostis canadensis</i>	Bluejoint Grass	1.00
<i>Carex crinita</i>	Fringed Sedge	2.00
<i>Carex lupulina</i>	Common Hop Sedge	4.00
<i>Carex lurida</i>	Bottlebrush Sedge	1.50
<i>Carex frankii</i>	Bristly Cattail Sedge	3.00
<i>Carex squarrosa</i>	Narrow-Leaved Cattail Sedge	1.00
<i>Carex typhina</i>	Common Cattail Sedge	1.00
<i>Carex vulpinoidea</i>	Brown Fox Sedge	4.00
<i>Elymus virginicus</i>	Virginia Wild Rye	20.00
<i>Glyceria striata</i>	Fowl Manna Grass	2.00
<i>Leersia oryzoides</i>	Rice Cut Grass	2.00
<i>Scirpus atrovirens</i>	Dark Green Rush	2.00
<i>Spartina pedinata</i>	Prairie Cord Grass	1.00
<b>Total</b>		<b>44.50</b>

**Temporary Cover:**

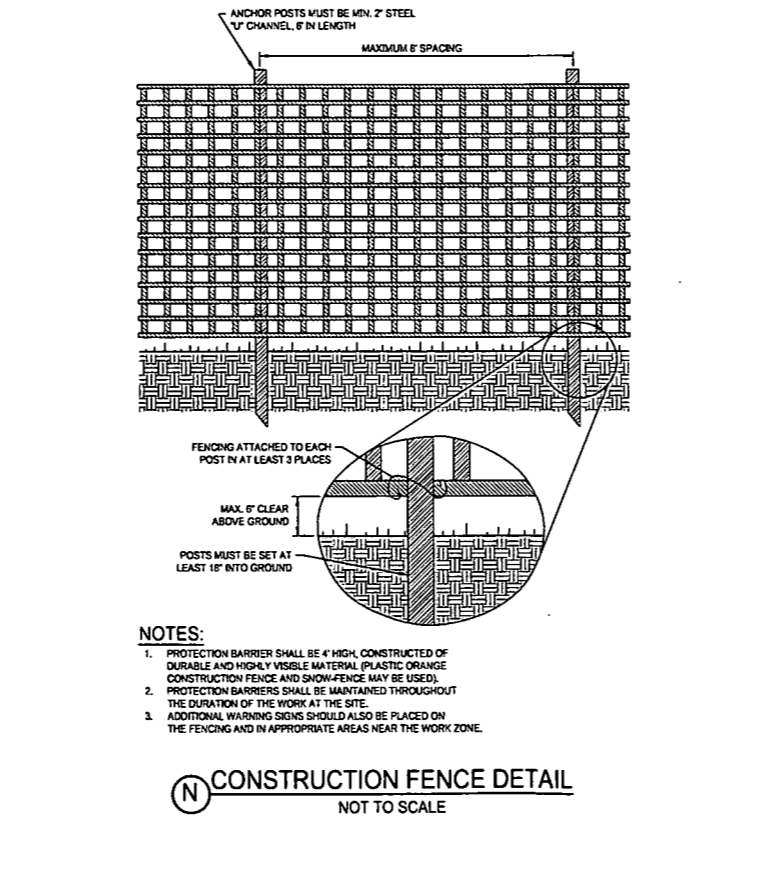
<i>Avena sativa</i>	Common Oat	360.00
<i>Lolium multibrum</i>	Annual Rye	100.00
<b>Total</b>		<b>460.00</b>

**OPTION B**  
Wetland Restoration Mixture

Scientific Name	Common Name	PLS Ounces/Acre
<i>Avena sativa</i>	Common Oat	480.00
<i>Secale cereale</i>	Cereal Rye	480.00
<i>Panicum virgatum</i>	Switch Grass	32.00
<i>Panicum clandestinum</i>	Deer-tongue Grass	32.00
<i>Elymus riparius</i>	Riverbank Wild Rye	32.00
<i>Poa patustris</i>	Marsh Bluegrass	32.00
<i>Sorghastrum nutans</i>	Indian Grass	16.00
<i>Glyceria striata</i>	Fowl Manna Grass	6.00
<i>Carex crinita</i>	Fringe Sedge	6.00
<i>Carex lurida</i>	Bottlebrush Sedge	6.00
<i>Scirpus atrovirens</i>	Dark Green Rush	6.00
<i>Polygonum pensylvanicum</i>	Pinkweed	6.00
<i>Verbena hastata</i>	Blue Vervain	6.00
<i>Verbena alternifolia</i>	Wingstem	6.00
<i>Senna hebecarpa</i>	Wild Senna	6.00
<b>Total</b>		<b>1168.00</b>



- NOTES:**
1. CONTACT ANTERO AT LEAST 72 HOURS PRIOR TO CONSTRUCTION TO HAVE THE EXISTING TRANSMISSION LINE FLAGGED.
  2. ANTERO REPRESENTATIVES MUST BE ON SITE DURING CONSTRUCTION TO APPROVE INSTALLATION.
  3. THE CURRENT PIPELINE COVER MUST BE MAINTAINED. DURING CONSTRUCTION, CONTRACTOR SHALL STRIP TOPSOIL AND PLACE MATTING BOARDS FOR EQUIPMENT CROSSING THE GAS TRANSMISSION EASEMENT. MATTING BOARDS BENEATH THE EMBANKMENT ARE TO REMAIN IN PLACE.
  4. AIR BRIDGE IS TO BE REMOVED DURING SITE RESTORATION PHASE. ANTERO REPRESENTATIVES MUST BE ON SITE DURING REMOVAL FOR CONSTRUCTION APPROVAL. AFTER AIR BRIDGE IS REMOVED, FILL AIR GAP WITH SUBSOIL AND COMPACT TO SPECIFICATION. SEED AND MULCH FILL SLOPES.

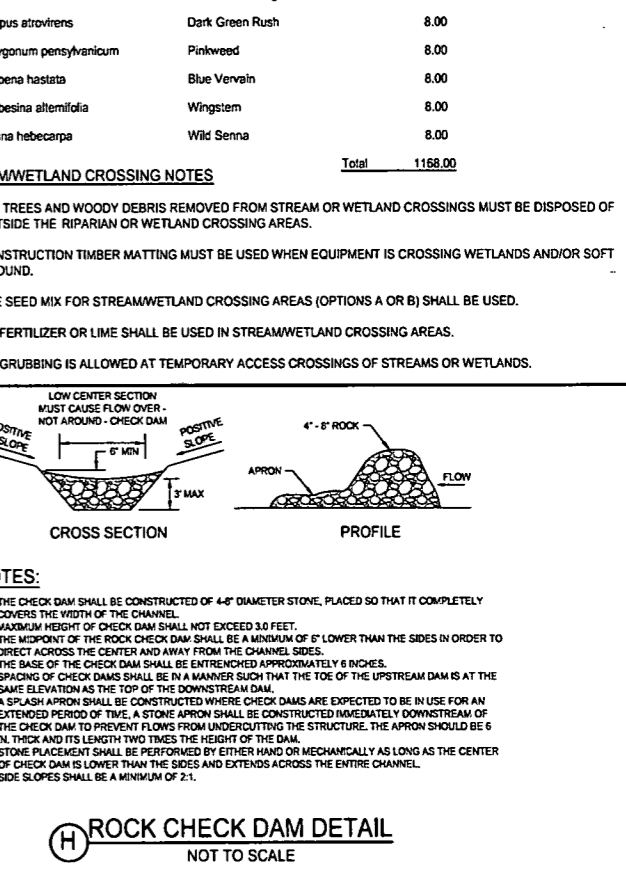


- NOTES:**
1. PROTECTION BARRIER SHALL BE 4' HIGH, CONSTRUCTED OF DURABLE AND HIGHLY VISIBLE MATERIAL. PLASTIC ORANGE CONSTRUCTION FENCE AND SNOW-FENCE MAY BE USED.
  2. PROTECTION BARRIERS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE WORK AT THE SITE.
  3. ADDITIONAL WARNING SIGNS SHOULD ALSO BE PLACED ON THE FENCING AND IN APPROPRIATE AREAS NEAR THE WORK ZONE.

**Temporary Cover:**

<i>Alisma spp.</i>	Water Plantain Mix	3.00
<i>Angelica atropurpurea</i>	Great Angelica	1.00
<i>Aster puniceus</i>	Bristly Aster	0.75
<i>Aster umbellatus</i>	Flat-Top Aster	2.50
<i>Bidens cernua</i>	Nodding Bur Marigold	2.25
<i>Cephalanthus occidentalis</i>	Buttonbush	0.50
<i>Campanula americana</i>	Tall Bellflower	0.25
<i>Helianthus autumnale</i>	Sneezeweed	2.00
<i>Heracleum lanatum</i>	Cow Parsnip	0.75
<i>Hibiscus moscheutos</i>	Swamp Rose Mallow	2.00
<i>Lobelia siphilitica</i>	Great Blue Lobelia	1.50
<i>Lycopus americanus</i>	Common Water Horehound	0.25
<i>Mimulus ringens</i>	Monkey Flower	1.25
<i>Penthorum sedoides</i>	Ditch Stonecrop	0.50
<i>Polygonum spp.</i>	Pinkweed mix	0.50
<i>Rudbeckia laciniata</i>	Wild Golden Glow	0.75
<i>Verbena alternifolia</i>	Wingstem	2.00
<b>Total</b>		<b>19.75</b>

**NOTE:** APPLY AT 32.8 PLS POUNDS PER ACRE.



- STREAM/WETLAND CROSSING NOTES:**
1. ALL TREES AND WOODY DEBRIS REMOVED FROM STREAM OR WETLAND CROSSINGS MUST BE DISPOSED OF OUTSIDE THE RIPARIAN OR WETLAND CROSSING AREAS.
  2. CONSTRUCTION TIMBER MATTING MUST BE USED WHEN EQUIPMENT IS CROSSING WETLANDS AND/OR SOFT GROUND.
  3. THE SEED MIX FOR STREAM/WETLAND CROSSING AREAS (OPTIONS A OR B) SHALL BE USED.
  4. NO FERTILIZER OR LIME SHALL BE USED IN STREAM/WETLAND CROSSING AREAS.
  5. NO GRUBBING IS ALLOWED AT TEMPORARY ACCESS CROSSINGS OF STREAMS OR WETLANDS.
- NOTES:**
1. THE CHECK DAM SHALL BE CONSTRUCTED OF 4-6" DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WIDTH OF THE CHANNEL.
  2. MAXIMUM HEIGHT OF CHECK DAM SHALL NOT EXCEED 3.0 FEET.
  3. THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF 6" LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES.
  4. THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 6 INCHES.
  5. SPACING OF CHECK DAMS SHALL BE IN A MANNER SUCH THAT THE TOE OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.
  6. A SPLASH APRON SHALL BE CONSTRUCTED WHERE CHECK DAMS ARE EXPECTED TO BE IN USE FOR AN EXTENDED PERIOD OF TIME. A STONE APRON SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CHECK DAM TO PREVENT FLOWS FROM UNDERCUTTING THE STRUCTURE. THE APRON SHOULD BE 6 IN. THICK AND ITS LENGTH TWO TIMES THE HEIGHT OF THE DAM.
  7. STONE PLACEMENT SHALL BE PERFORMED BY EITHER HAND OR MECHANICALLY AS LONG AS THE CENTER OF CHECK DAM IS LOWER THAN THE SIDES AND EXTENDS ACROSS THE ENTIRE CHANNEL.
  8. SIDE SLOPES SHALL BE A MINIMUM OF 2:1.

**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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**MEATHOUSE TO OX11 WATERLINE**

**SWPPP DETAILS**

STATION(S): N/A

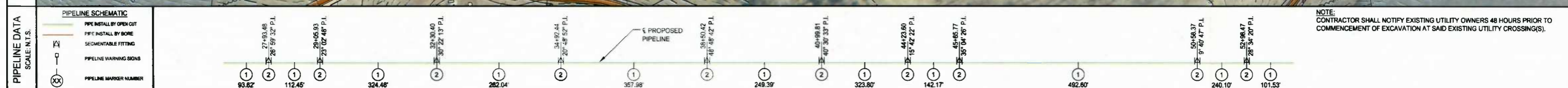
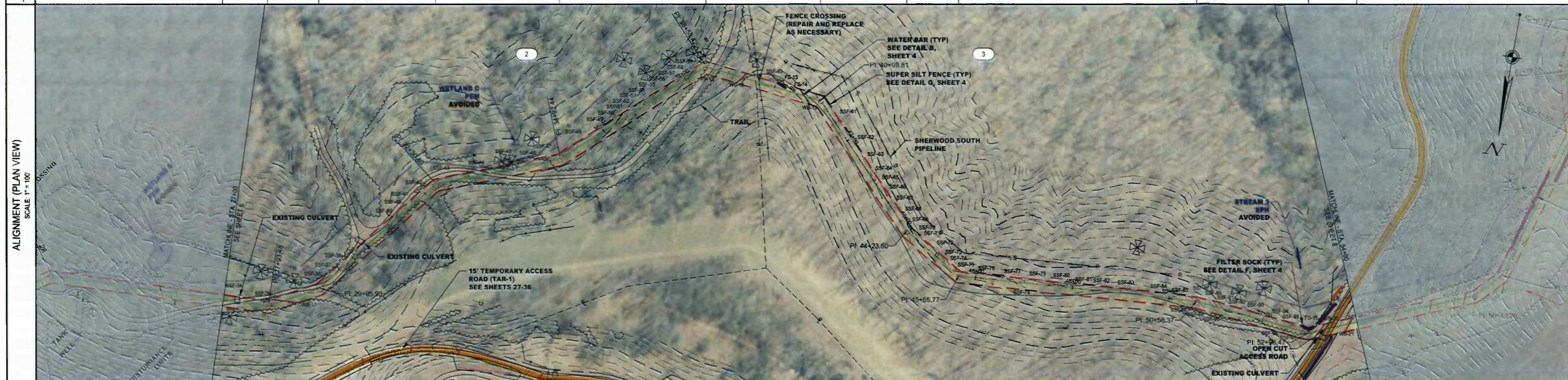
**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

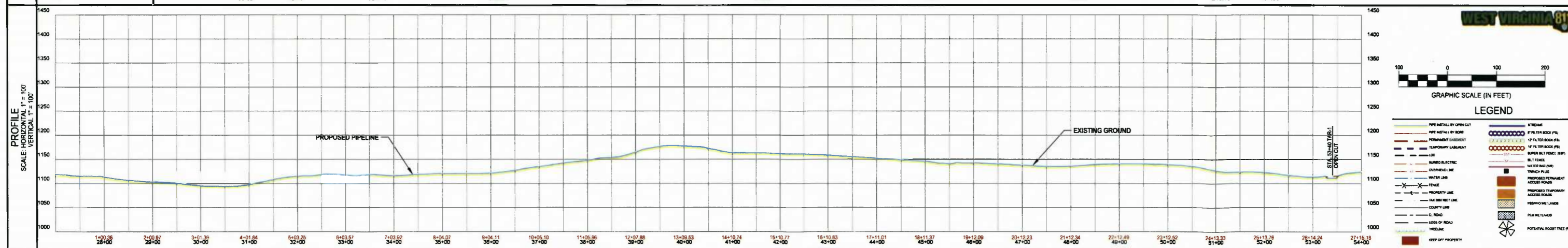
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JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	5 of 57

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE	NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA											
OWNER/PARCEL ID	2 MAXWELL LEWIS FREDERICK 09-06-0003-0011-0000-0000					3 MAXWELL ROBERT G 09-06-0003-0012-0000-0000						
ENVIRONMENTAL	OPEN			WOODS		OPEN		WOODS			OPEN	
STATIONS & TRAVERSE ANGLES	MATCHLINE 27+00	27+93.48 26° 58' 32" LT	29+05.93 23° 02' 48" LT	32+30.40 30° 22' 13" RT	34+92.44 20° 48' 52" LT	38+50.42 48° 48' 42" RT	40+99.81 40° 30' 33" RT	44+23.60 15° 42' 22" LT	45+65.77 35° 04' 26" LT	50+58.37 9° 40' 47" RT	52+98.47 28° 34' 20" LT	MATCHLINE 54+00



NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).



**IFC**  
DATE: 07/29/14

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2715 LF	16" HDPE WATERLINE					
2	10 EA	Elbow, 45° Segmentable Fitting					

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 27+00 TO 54+00

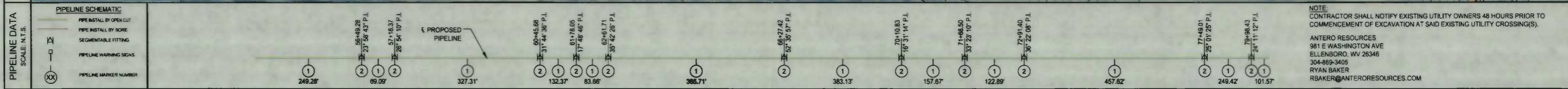
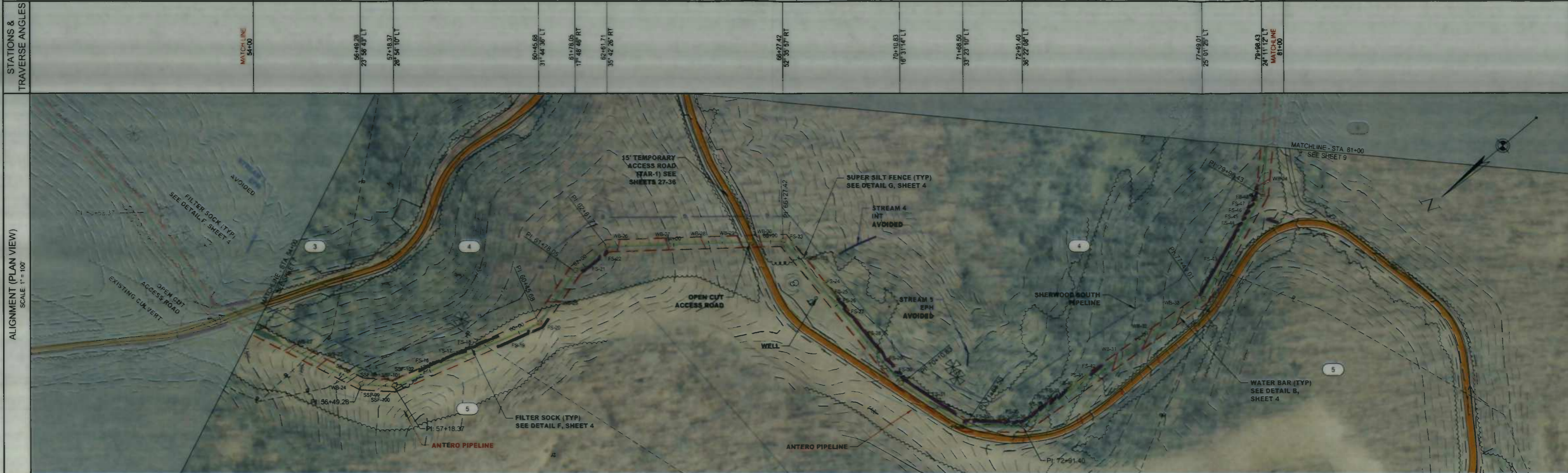
**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	7 of 57

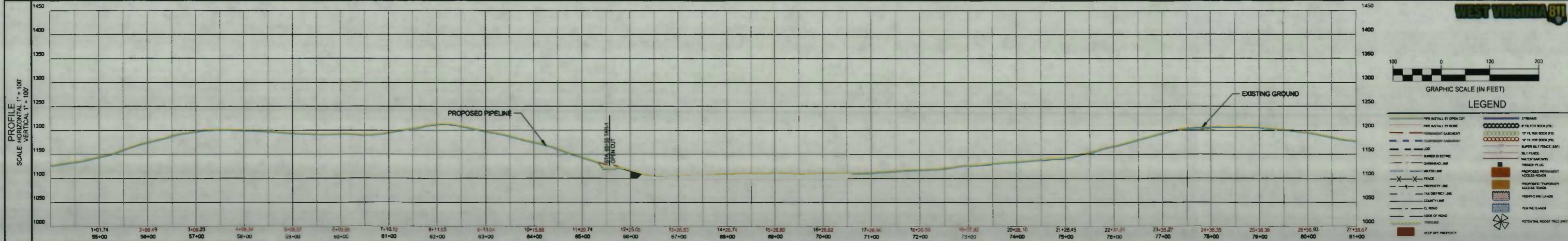
# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE	NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA											
OWNER/PARCEL ID	3 MAXWELL ROBERT G 09-06-0003-0012-0000-0000			4 MAXWELL ROBERT GAYLE 09-06-0003-0012-0001-0000			5 SPIKER SUE ANN 09-06-0003-0001-0000-0000			6 ADRIAN GEORGE ETAL 09-06-0003-0001-0001-0000		
ENVIRONMENTAL	OPEN		WOODS	OPEN		WOODS	OPEN		WOODS	OPEN	WOODS	WOODS



**NOTE:**  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

ANTERO RESOURCES  
981 E WASHINGTON AVE  
ELLENBORO, WV 26346  
304-869-3405  
RYAN BAKER  
RBAKER@ANTERORESOURCES.COM



**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2739 LF	18" HDPE WATERLINE				
2	11 EA	Elbow, 45° Segmentable Fitting				

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 54+00 TO 81+00

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

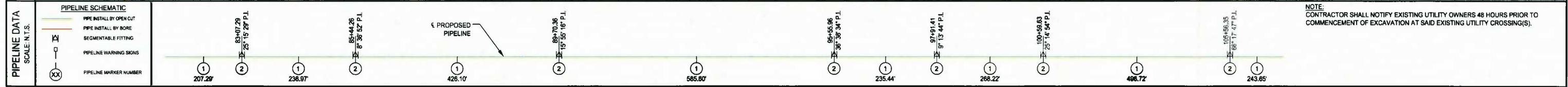
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DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	8 of 57

TOWNSHIP, COUNTY, STATE

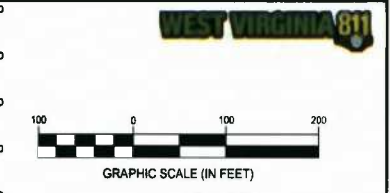
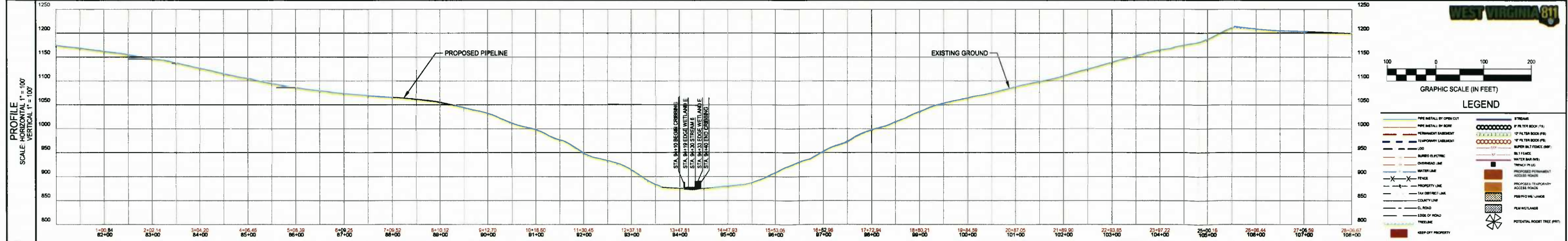
# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

OWNER/PARCEL ID	6 ADRIAN GEORGE ETAL 09-06-0003-0001-0001-0000	4 MAXWELL ROBERT GAYLE 09-06-0003-0012-0001-0000	
ENVIRONMENTAL	WOODS	OPEN	WOODS

STATIONS & TRAVERSE ANGLES	MATCHLINE 81+00	83+07.29 25° 15' 29" RT	85+44.26 8° 38' 52" RT	88+70.36 15° 55' 16" LT	85+55.96 36° 38' 34" RT	97+91.41 9° 13' 44" RT	100+56.83 25° 14' 54" LT	105+56.35 66° 17' 47" RT MATCHLINE 108+00
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NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).



**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2807 LF	16" HDPE WATERLINE				
2	7 EA	Elbow, 45° Segmentable Fitting				

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 81+00 TO 108+00

**CONSOL ENERGY**

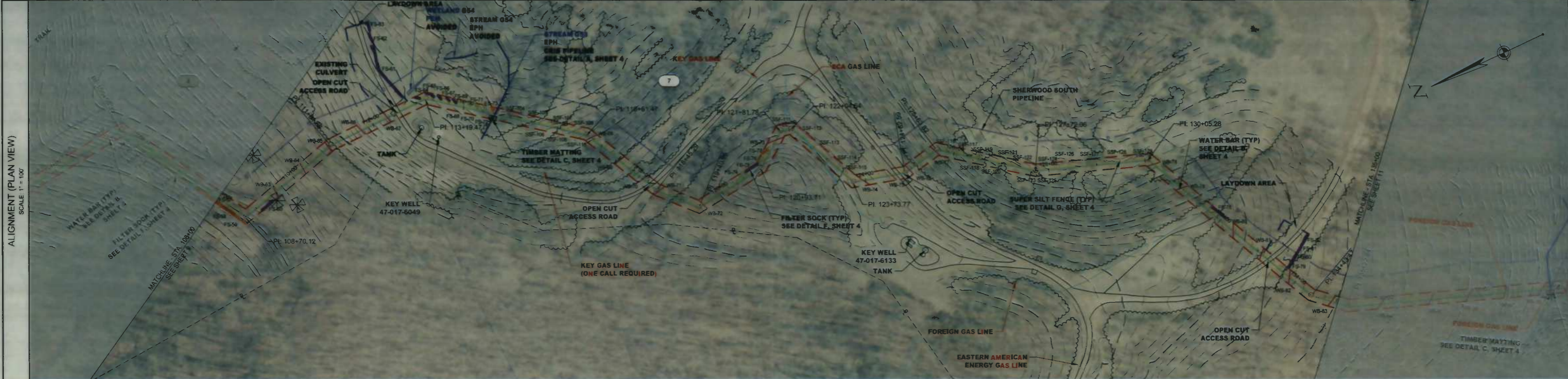
200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

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JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	9 of 57

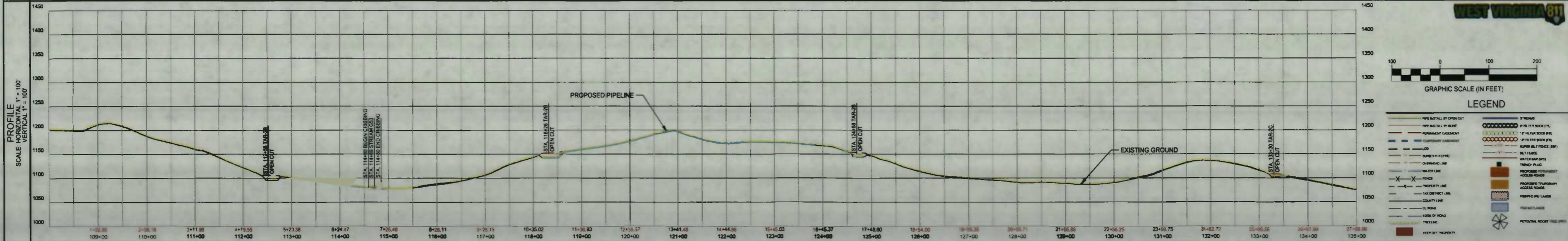
# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE											
OWNER/PARCEL ID	4 MAXWELL ROBERT GAYLE 09-06-0003-0012-0001-0000				7 MORRIS I L I K E 09-06-0007-0001-0000-0000						
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS

STATIONS & TRAVERSE ANGLES	MATCH LINE 108+00	108+70.12 175° 28' 48" LT	111+01.66 14° 10' 28" RT	113+19.47 38° 48' 09" RT	116+61.47 26° 00' 13" RT	118+45.28 16° 10' 25" LT	119+40.96 54° 48' 44" LT	120+83.71 28° 21' 00" LT	121+81.78 48° 40' 40" RT	122+04.64 53° 12' 38" RT	123+73.77 51° 08' 38" LT	124+82.59 28° 31' 43" LT	125+63.82 48° 45' 36" RT	127+72.06 17° 43' 12" LT	130+05.28 45° 31' 12" RT	134+43.47 23° 02' 48" LT	MATCH LINE 135+00
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PIPELINE DATA SCALE: N.T.S.	<p><b>PIPELINE SCHEMATIC</b></p> <ul style="list-style-type: none"> <li>— PIPE INSTALL BY OPEN CUT</li> <li>— PIPE INSTALL BY BORE</li> <li>— SEGMENTABLE FITTING</li> <li>— PIPELINE WARNING SIGNS</li> <li>— PIPELINE MARKER NUMBER</li> </ul>															<p>NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).</p> <p>KEY OIL COMPANY 22 GARTON PLAZA WESTON, WV 304-269-7102</p> <p>ECA / EAE 501 56th STREET SOUTH EAST CHARLESTON, WV 25304 304-925-6100</p>
	70.12	231.54'	217.81'	342.01'	183.82'	95.56'	152.75'	88.07'	22.86'	169.12'	108.83'	81.23'	208.24'	233.22'	438.19'	56.53'



**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2770 LF	16" HOPE WATERLINE					
2	15 EA	Elbow, 45" Sagmentable Fitting					

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 108+00 TO 135+00

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

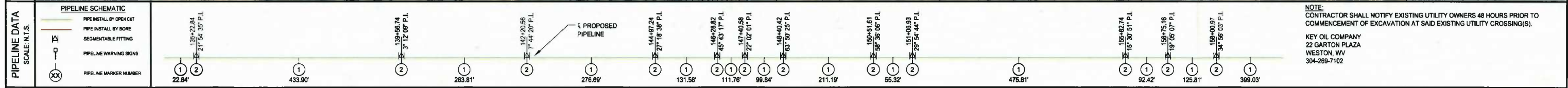
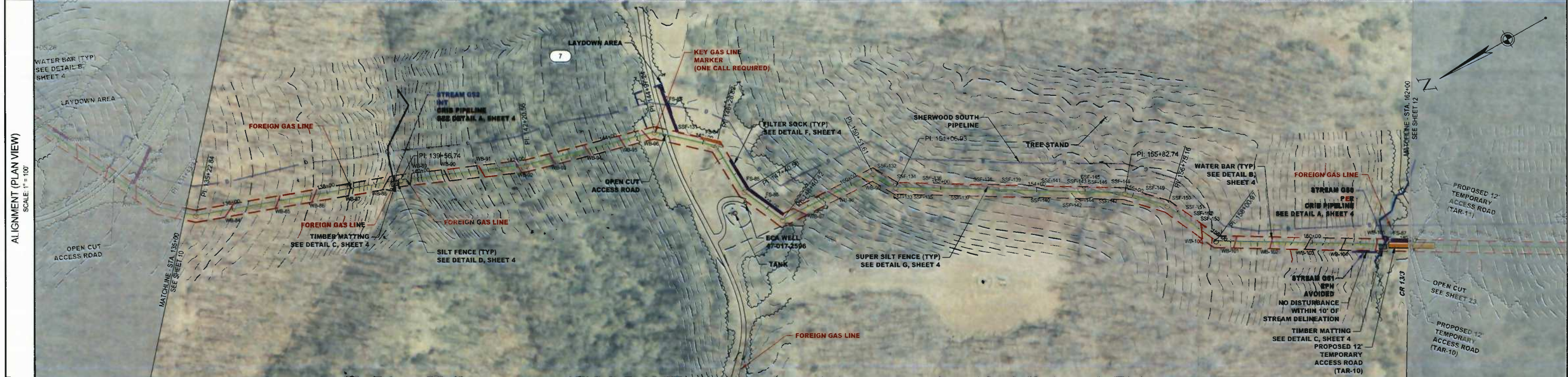
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JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	10 of 57



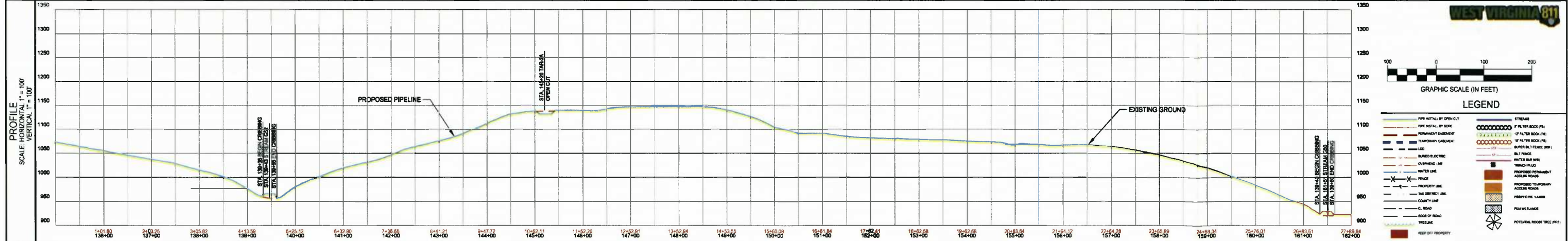
TOWNSHIP, COUNTY, STATE: NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

OWNER/PARCEL ID: MORRIS I L IKE 09-06-0007-0001-0000-0000

ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN
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NOTE:  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).  
KEY OIL COMPANY  
22 GARTON PLAZA  
WESTON, WV  
304-269-7102



**IFC**  
07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2700 LF	18" HDPE WATERLINE					
2	12 EA	Elbow, 45° Segmentable Fitting					

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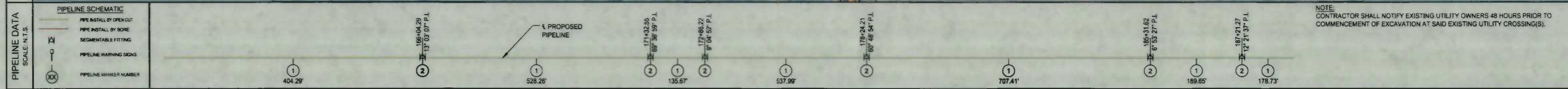
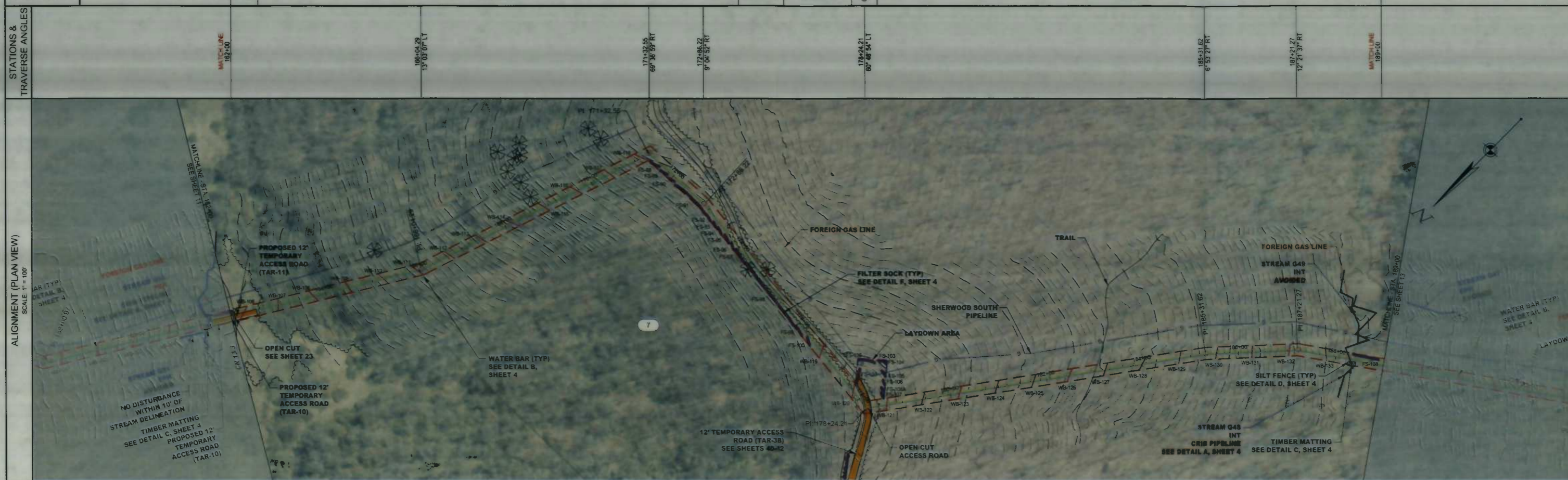
**MEATHOUSE TO OX11 WATERLINE**  
**WATERLINE PLAN**  
STATION(S): 135+00 TO 162+00

**CONSOL ENERGY**  
200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

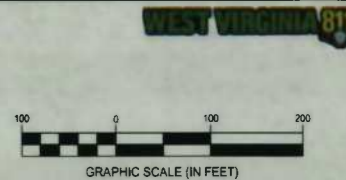
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JOB NO.: 750589  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**11 of 57**

NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE				
OWNER/PARCEL ID	7 MORRIS I L IKE 09-06-0007-0001-0000-0000			
ENVIRONMENTAL	OPEN	WOODS	OPEN	WOODS



NOTE: CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).



PIPE INSTALL BY OPEN CUT	STREAMS
PIPE INSTALL BY SORE	PIPE THE ROCK (P.L.)
SEGMENTABLE FITTING	PIPE THE ROCK (P.L.)
PIPELINE WARNING SIGNS	SUPER SILT FENCE (S.F.)
PIPELINE MARKER NUMBER	WATER BAR AND TRENCH PILES
	PROPOSED TEMPORARY ACCESS ROAD
	PROPOSED TEMPORARY ACCESS ROAD
	PIPE THE ROCK (P.L.)
	POTENTIAL ROOT TREE (PRT)

**IFC**

07/29/14

DATE

SUMMARY OF MATERIALS		REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	
1	2813 LF	16" HDPE WATERLINE			
2	8 EA	Elbow 45° Segmentable Fitting			

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 162+00 TO 189+00

**CONSOL ENERGY**

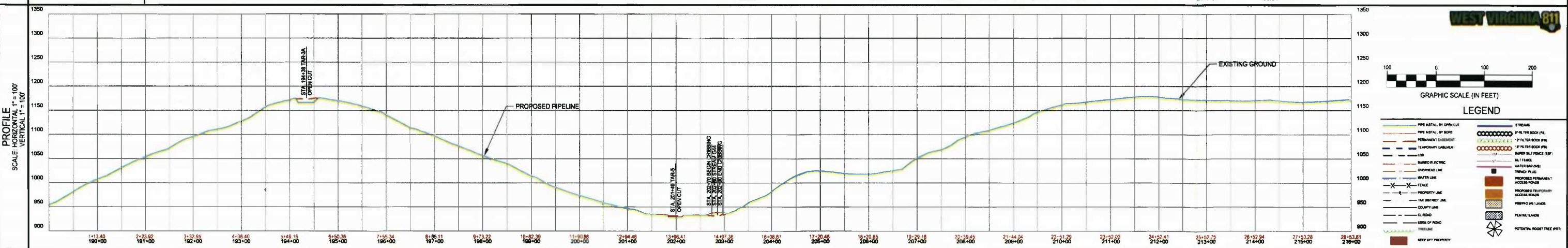
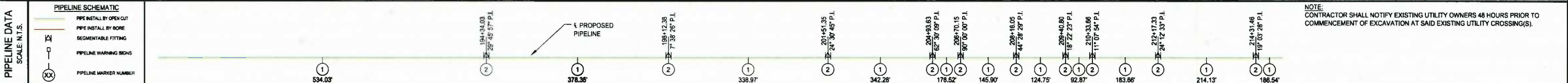
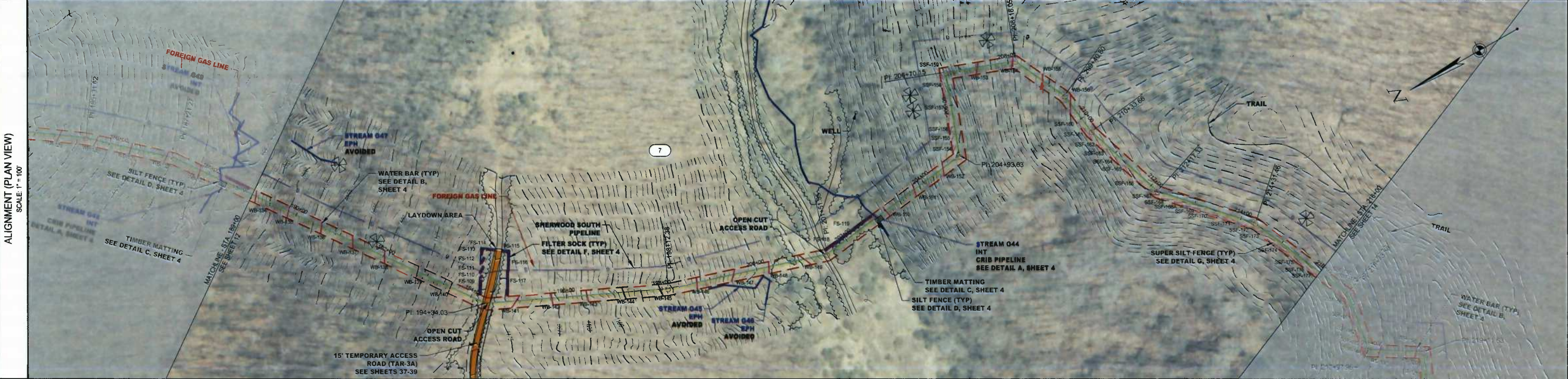
200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	12 of 57

K:\PROJECTS\CONSOL ENERGY\750589-01 - OX11 - MEATHOUSE FORK WATER LINE\03-CV\PLAN\PIPELINE\750589-MEATHOUSE-OX11 IFC.DWG - 7/29/2014 5:14 PM

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP COUNTY, STATE											
OWNER/PARCEL ID	MORRIS I LIKE 09-06-0007-0001-0000-0000										
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	WOODS	WOODS	WOODS	WOODS	WOODS	
STATIONS & TRAVERSE ANGLES	MATCH LINE 189+00	194+34.03 28° 45' 57" LY	198+12.38 7° 38' 26" LY	201+51.35 24° 30' 45" LY	204+93.83 6° 28' 08" LY 206+70.15 80° 00' 00" RT	208+16.05 44° 28' 28" RT	209+40.80 18° 22' 23" RT	210+33.68 11° 07' 54" LY	212+17.33 24° 12' 33" LY	214+31.46 18° 03' 28" RT	MATCH LINE 216+00



**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2854 LF	18" HDPE WATERLINE					
2	10 EA	Elbow, 45° Segmentable Fitting					

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 189+00 TO 216+00

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	13 of 57

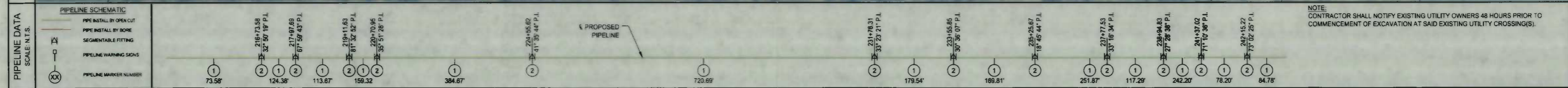
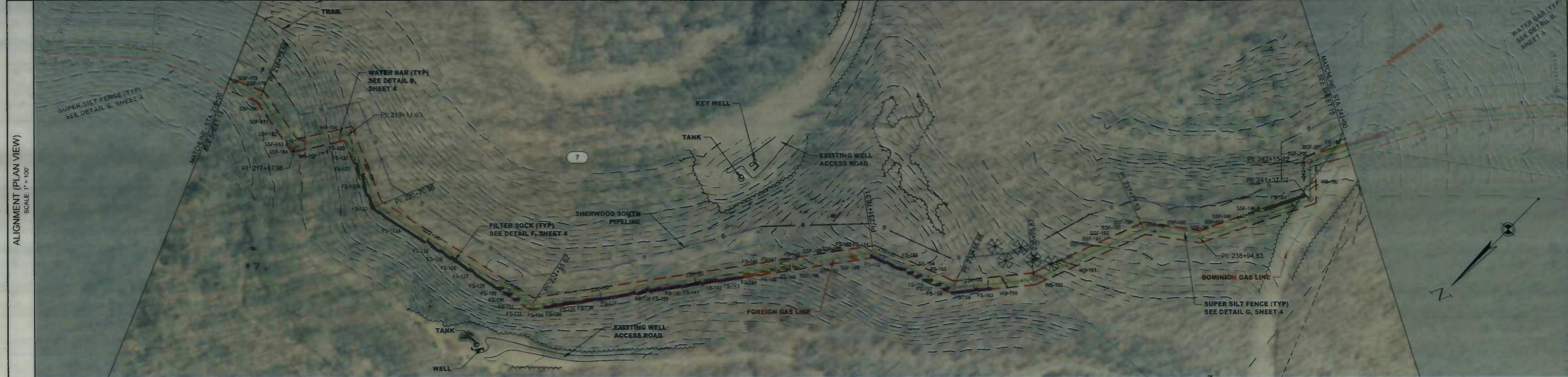
# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

MORRIS I L I K E  
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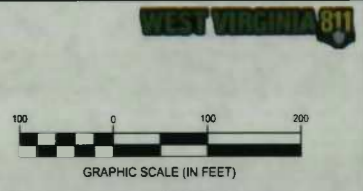
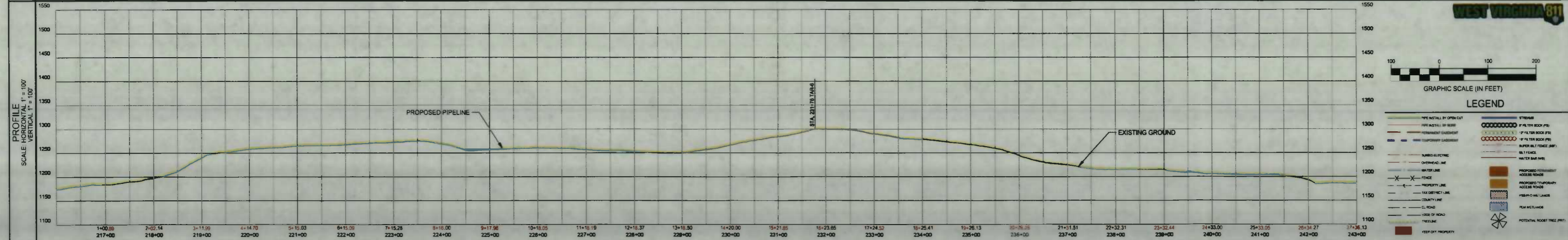
WOODS

OPEN  
WOODS  
OPEN

STATIONS & TRAVERSE ANGLES	MATCHLINE 216+00	216+73.58 32° 50' 19" RT	217+07.69 67° 59' 43" LT	219+11.63 81° 32' 52" RT	220+70.95 35° 51' 28" LT	224+55.62 41° 35' 44" LT	231+76.31 33° 23' 21" RT	233+55.85 30° 36' 07" LT	235+25.67 18° 45' 44" LT	237+77.53 33° 16' 34" RT	238+94.83 27° 28' 38" LT	MATCHLINE 243+00
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NOTE:  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).



**IFC**  
07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2736 LF	16" HDPE WATERLINE					
2	12 EA	Elbow 45° Segmentable Fitting					

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**MEATHOUSE TO OX11 WATERLINE**  
  
**WATERLINE PLAN**  
  
STATION(S): 216+00 TO 243+00

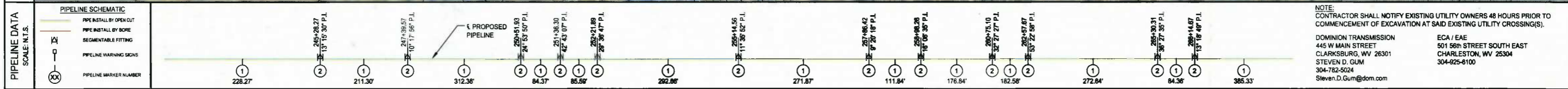
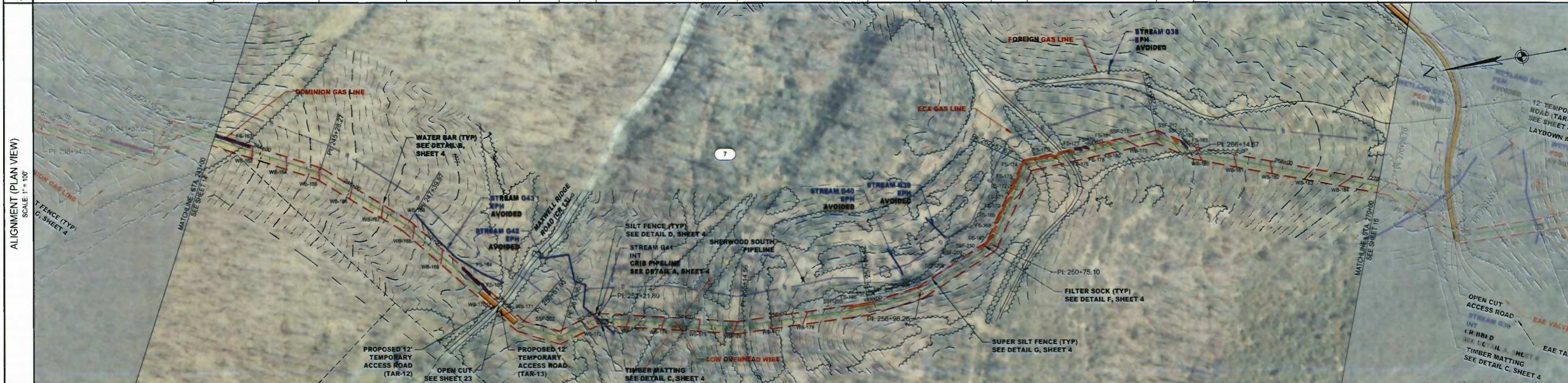
**CONSOL ENERGY**  
200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	14 of 57

# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

MORRIS LIKE  
09-06-0007-0001-0000-0000

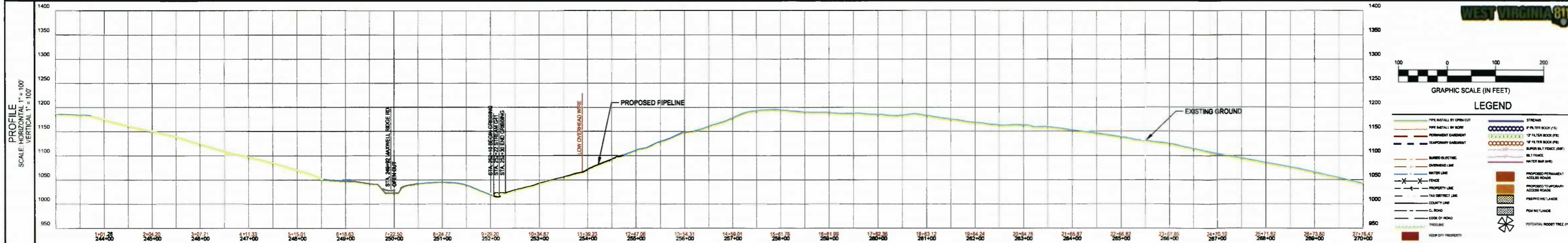
TOWNSHIP																				
COUNTY, STATE																				
OWNER/PARCEL ID																				
ENVIRONMENTAL	OPEN	WOODS				OPEN	WOODS				OPEN	WOODS				OPEN	WOODS			
STATIONS & TRAVERSE ANGLES	MATCHLINE 243+00	245+28.27 13° 15' 30" RT	247+59.57 10° 17' 56" RT	250+51.93 24° 53' 50" LT	251+36.30 42° 43' 07" LT	252+21.89 28° 36' 47" RT	255+14.56 11° 35' 52" LT	257+86.42 9° 20' 18" LT	259+98.26 16° 06' 35" LT	260+75.10 32° 27' 27" LT	262+57.67 53° 22' 58" RT	265+30.31 36° 27' 35" RT	268+14.67 13° 18' 48" LT	MATCHLINE 270+00						



NOTE:  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

DOMINION TRANSMISSION  
445 W MAIN STREET  
CLARKSBURG, WV 26301  
STEVEN D. GUM  
304-782-5024  
Steven.D.Gum@dom.com

ECA / EAE  
501 56th STREET SOUTH EAST  
CHARLESTON, WV 25304  
304-925-6100



**WEST VIRGINIA 811**

GRAPHIC SCALE (IN FEET)

LEGEND

PIPE INSTALL BY OPEN CUT	STREAM
PIPE INSTALL BY BORE	12" FILTER SOCK (FS)
SEGMENTABLE FITTING	12" FILTER SOCK (FS)
PIPELINE WARNING SIGNS	12" FILTER SOCK (FS)
PIPELINE MARKER NUMBER	BARBED ELECTRIC FENCE (BEF)
	WATER BAR (WB)
	PROPOSED PERMANENT ACCESS ROAD
	PROPOSED TEMPORARY ACCESS ROAD
	PROPOSED LAWN
	PIN WETLANDS
	POTENTIAL ROOT TREE (PRT)

**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2776 LF	18" HDPE WATERLINE					
2	12 EA	Elbow, 45° Segmentable Fitting					

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 243+00 TO 270+00

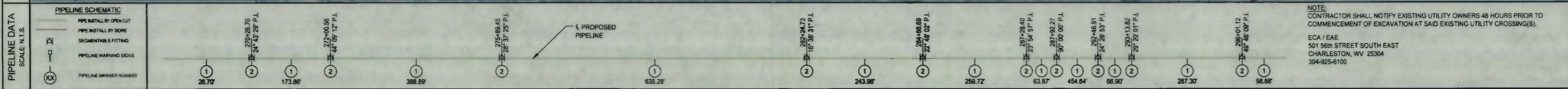
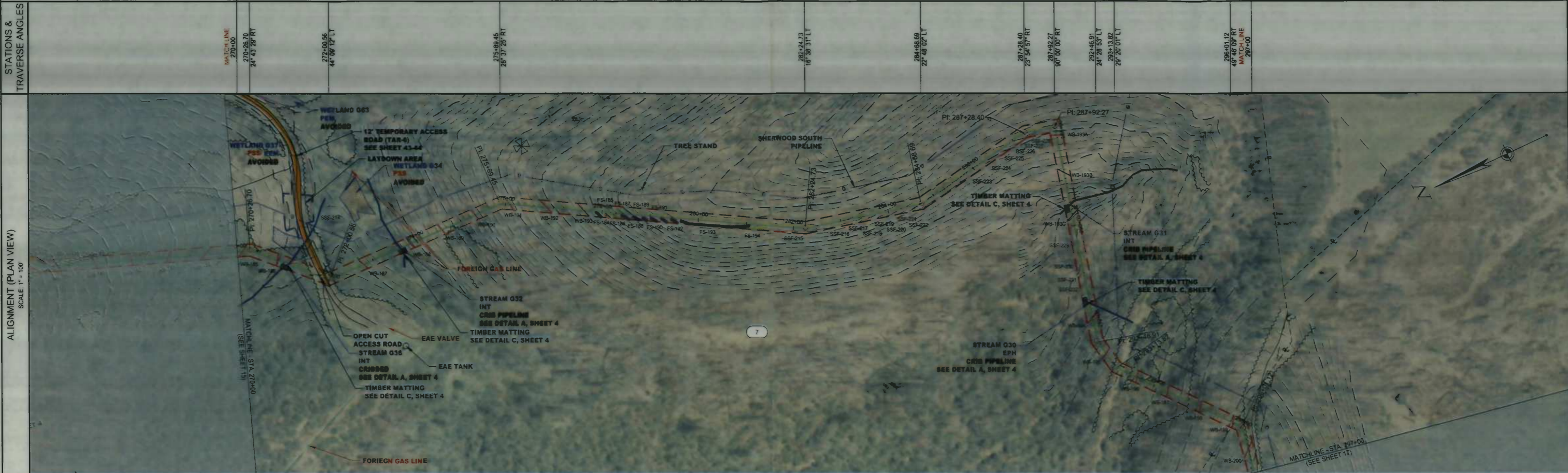
**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	15 of 57

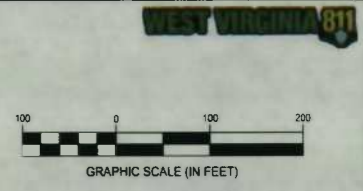
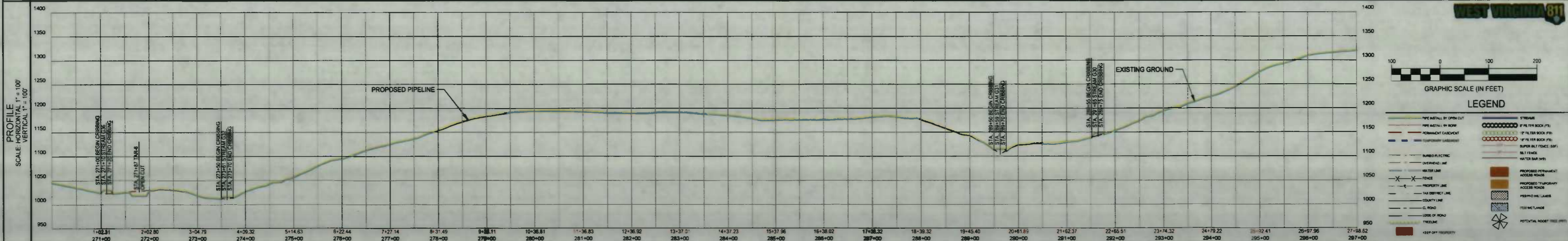
# NEW MILTON DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE			
OWNER/PARCEL ID	(7)	MORRIS I L I KE	09-06-0007-0001-0000-0000
ENVIRONMENTAL	WOODS	OPEN	WOODS



NOTE:  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

ECA / EAE  
501 56th STREET SOUTH EAST  
CHARLESTON, WV 25304  
304-925-6100



IFC
07/29/14
DATE

SUMMARY OF MATERIALS		REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO. DATE
1	2799 LF	16" HDPE WATERLINE			
2	10 EA	Elbow 45° Segmentable Fitting			

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## MEATHOUSE TO OX11 WATERLINE

### WATERLINE PLAN

STATION(S): 270+00 TO 297+00

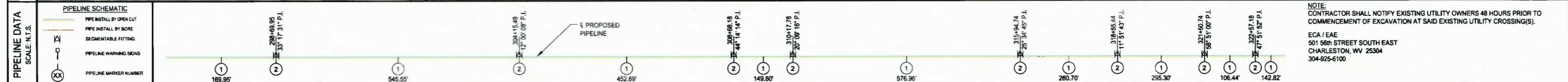
**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	16 of 57

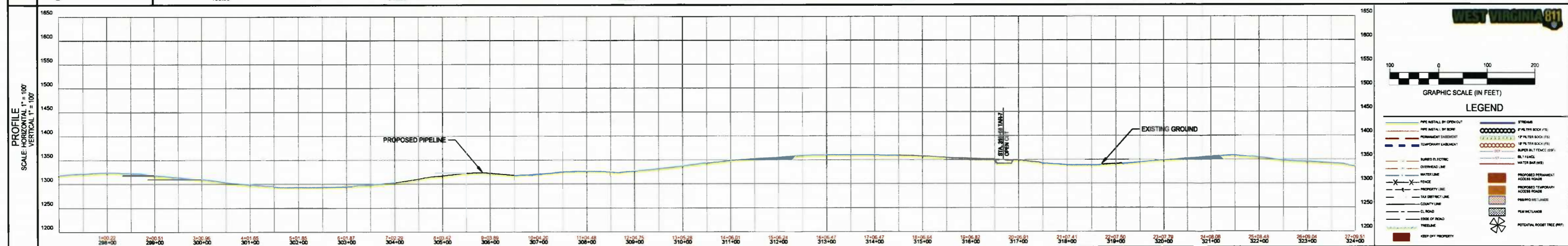
# SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP COUNTY, STATE														
OWNER/PARCEL ID	7 MORRIS I L I K E 09-06-0007-0001-0000-0000							8 MORRIS I L I K E 09-07-0010-0002-0000-6001						
ENVIRONMENTAL	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	WOODS	OPEN	WOODS	OPEN	WOODS	WOODS	OPEN	WOODS
STATIONS & TRAVERSE ANGLES	MATCHLINE 297+00	298+68.95 33° 17' 31" LT		304+15.49 12° 00' 08" LT		308+88.18 44° 14' 14" LT	315+94.74 25° 34' 45" LT	318+55.44 11° 51' 43" LT	321+50.74 58° 51' 00" RT	322+57.18 47° 51' 52" LT	MATCHLINE 324+00			



**NOTE:**  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

ECA / EAE  
501 58th STREET SOUTH EAST  
CHARLESTON, WV 25304  
304-925-6100



**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2710 LF	18" HDPE WATERLINE					
2	8 EA	Elbow, 45° Segmentable Fitting					

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 297+00 TO 324+00

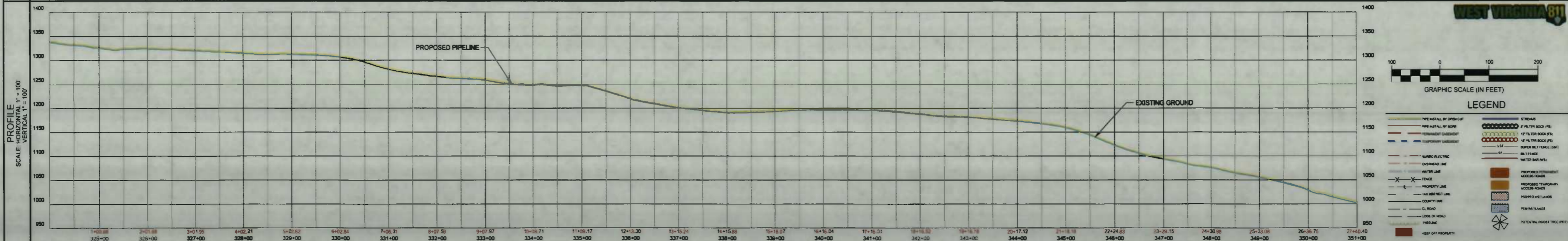
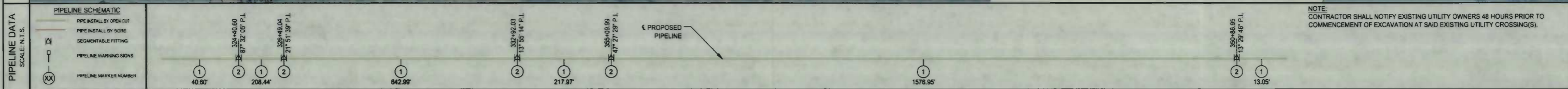
**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE: 07/29/14  
JOB NO.: 750589  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**17 of 57**

# SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

TOWNSHIP, COUNTY, STATE			
OWNER/PARCEL ID	8	MORRIS I. IKE 09-07-0010-0002-0000-6001	
ENVIRONMENTAL	WOODS OPEN WOODS	OPEN	



**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	2740 LF	16" HDPE WATERLINE					
2	5 EA	Elbow, 45° Segmentable Fitting					

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 324+00 TO 351+00

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

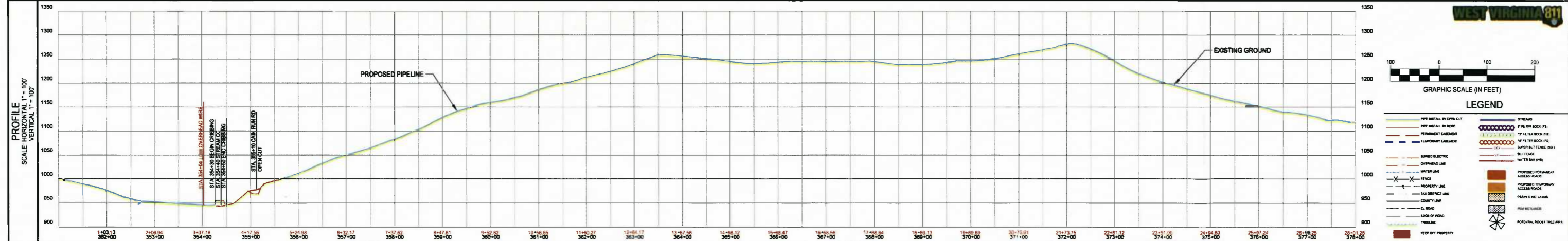
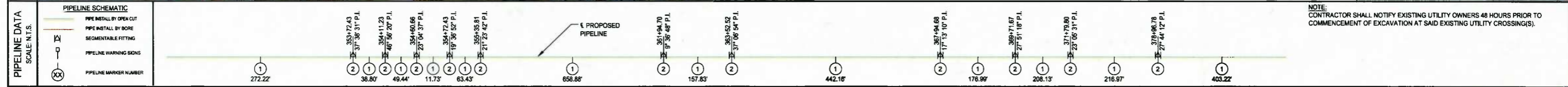
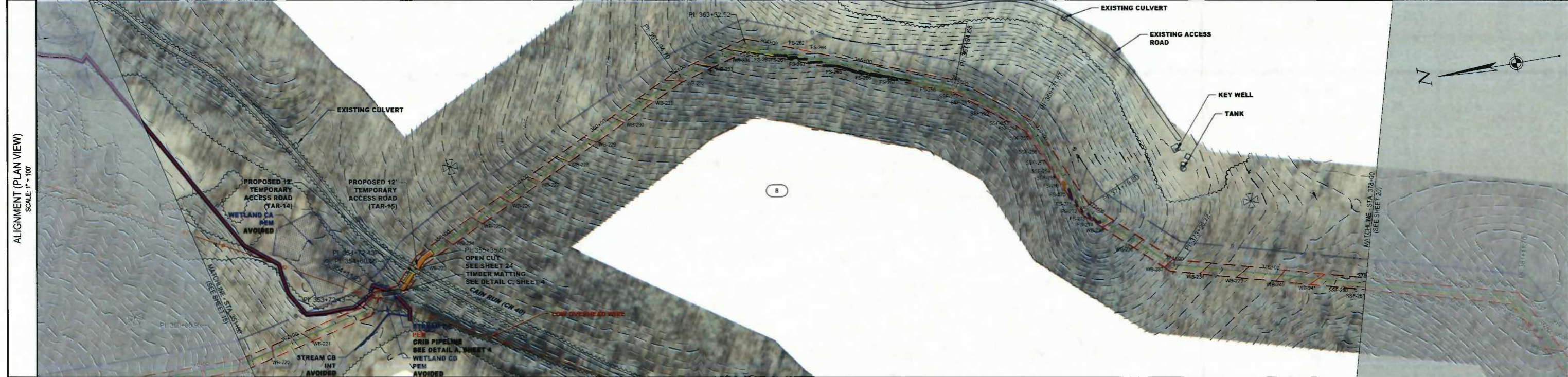
DATE: 07/29/14  
JOB NO.: 750589  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**18 of 57**



# SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

(8) MORRIS I L I K E  
09-07-0010-0002-0000-6001

TOWNSHIP COUNTY, STATE													
OWNER/PARCEL ID													
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS								
STATIONS & TRAVERSE ANGLES	MATCHLINE 351+00	353+72.43 37° 36' 31" L	354+11.23 46° 56' 20" RT	354+60.66 23° 04' 37" L	354+72.43 19° 36' 52" L	355+35.81 21° 23' 42" RT	361+94.70 9° 38' 48" RT	363+52.52 37° 06' 54" RT	367+94.68 17° 13' 10" RT	369+71.67 27° 51' 18" RT	371+79.80 23° 05' 31" L	378+96.78 27° 44' 12" L	MATCHLINE 378+00



**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2801 LF	18" HDPE WATERLINE				
2	11 EA	Elbow, 45° Segmentable Fitting				

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 351+00 TO 378+00

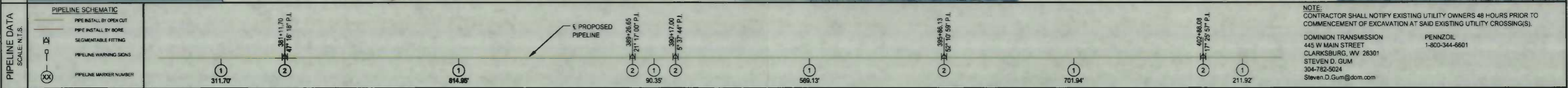
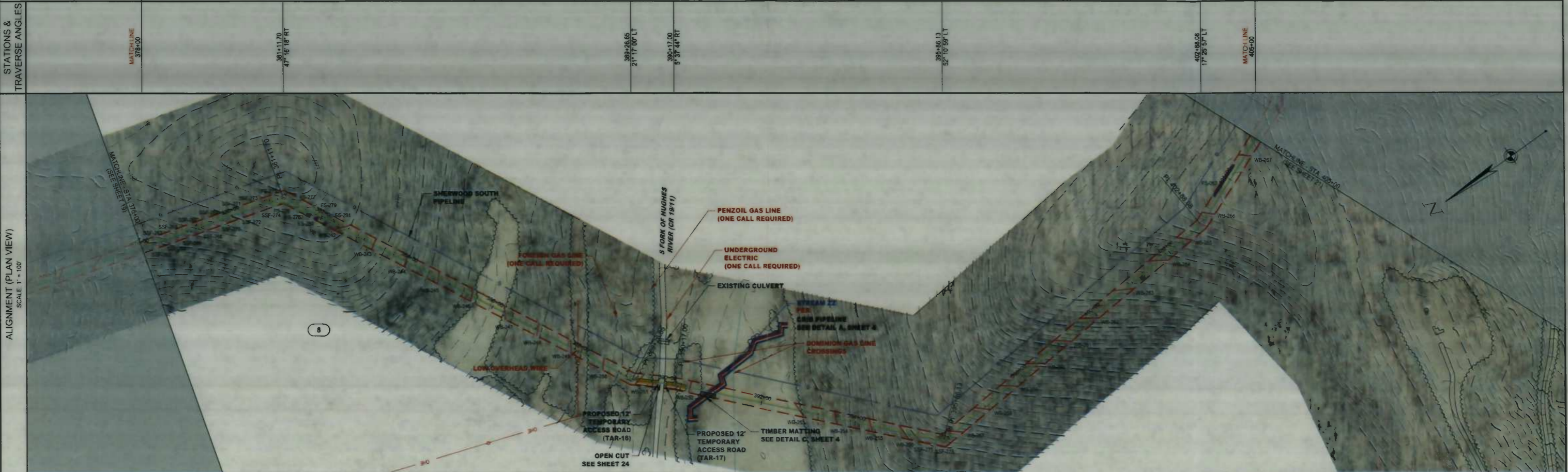
**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE: 07/29/14  
JOB NO.: 750589  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**19 of 57**

# SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

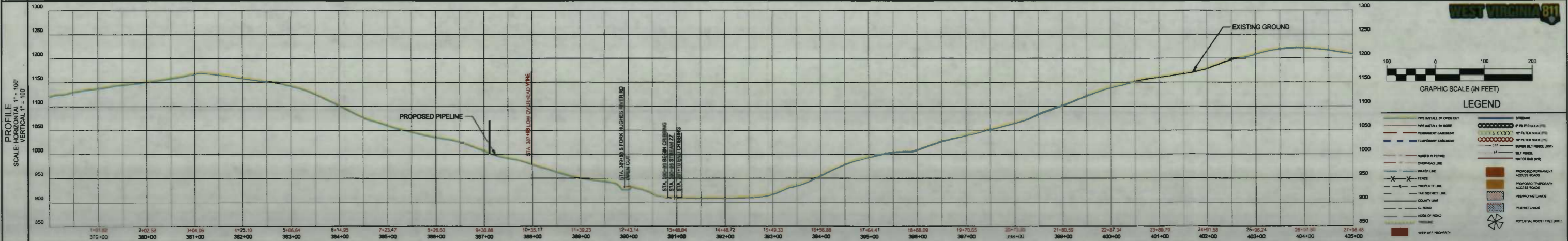
TOWNSHIP, COUNTY, STATE										
OWNER/PARCEL ID	MORRIS I L I K E 09-07-0010-0002-0000-6001									
ENVIRONMENTAL	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN	WOODS	OPEN



**NOTE:**  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

**DOMINION TRANSMISSION**  
445 W MAIN STREET  
CLARKSBURG, WV 26301  
STEVEN D. GUM  
304-782-5024  
Steven.D.Gum@dom.com

**PENNZOIL**  
1-800-344-6601



**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2798 LF	16" HDPE WATERLINE				
2	5 EA	Elbow 45° Segmentable Fitting				

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**MEATHOUSE TO OX11 WATERLINE**

**WATERLINE PLAN**

STATION(S): 378+00 to 405+00

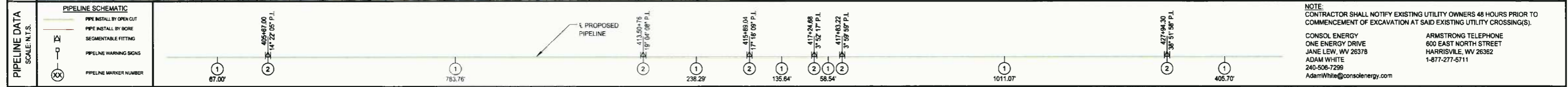
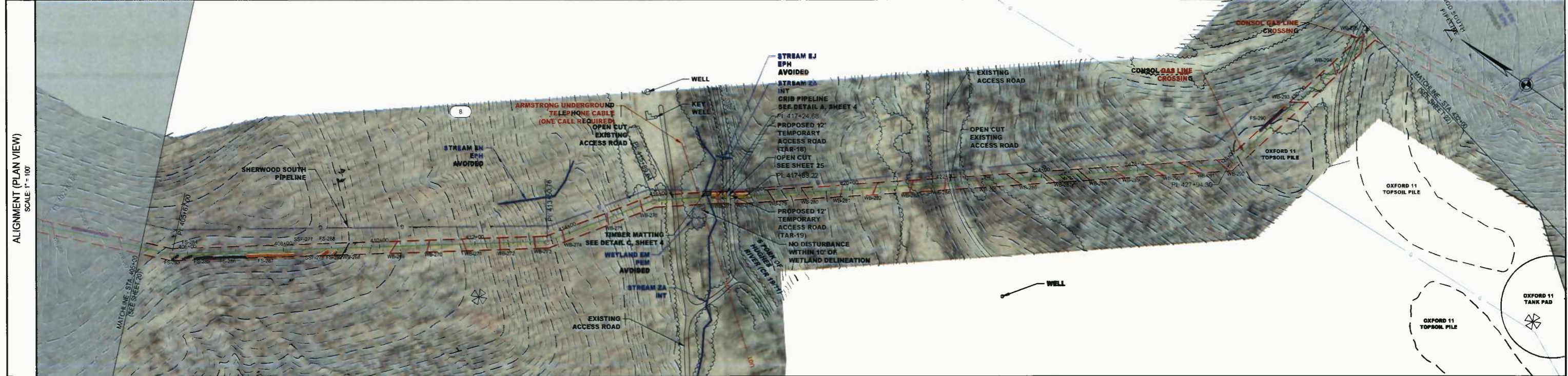
**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	20 of 57

# SOUTH WEST DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA

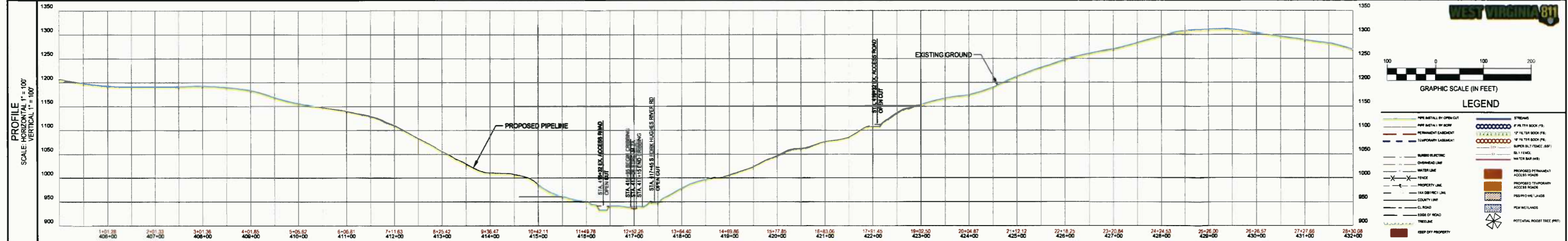
TOWNSHIP COUNTY, STATE												
OWNER/PARCEL ID	MORRIS I L I K E 09-07-0010-0002-0000-6001											
ENVIRONMENTAL	WOODS			OPEN	WOODS		OPEN	WOODS		OPEN	WOODS	
STATIONS & TRAVERSE ANGLES	MATCH LINE 405+00	405+67.00 14° 22' 05" LT	413+60.78 18° 04' 08" LT	415+88.04 17° 16' 08" RT	417+24.68 3° 52' 17" RT	417+83.22 3° 59' 58" LT	427+94.30 38° 51' 58" LT	MATCH LINE 432+00				



**NOTE:**  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

CONSOL ENERGY  
ONE ENERGY DRIVE  
JANE LEW, WV 26378  
ADAM WHITE  
240-506-7298  
Adam.White@consolenergy.com

ARMSTRONG TELEPHONE  
600 EAST NORTH STREET  
HARRISVILLE, WV 26382  
1-877-277-5111



**WEST VIRGINIA 811**

GRAPHIC SCALE (IN FEET)

100 0 100 200

**LEGEND**

— PIPE INSTALL BY OPEN CUT	— STREAMS
— PIPE INSTALL BY BORE	— 6" FILTER BOCK (FS)
— SEGMENTABLE FITTING	— 12" FILTER BOCK (FL)
— PIPELINE WARNING SIGNS	— 18" FILTER BOCK (FL)
— PIPELINE MARKER NUMBER	— SANDER BOLT (SANDER BOLT)
	— 3" FENCE
	— WATER BAR (WB)
	— PROPOSED PERMANENT ACCESS ROAD
	— PROPOSED TEMPORARY ACCESS ROAD
	— PROPOSED LANDS
	— PUMP WELLS
	— POTENTIAL ROOST TREE (PRT)
	— KEEP OFF PROPERTY

**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MRK#	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE
1	2830 LF	18" HDPE WATERLINE				
2	8 EA	Elbow, 45° Segmentable Fitting				

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**MEATHOUSE TO OX11 WATERLINE**

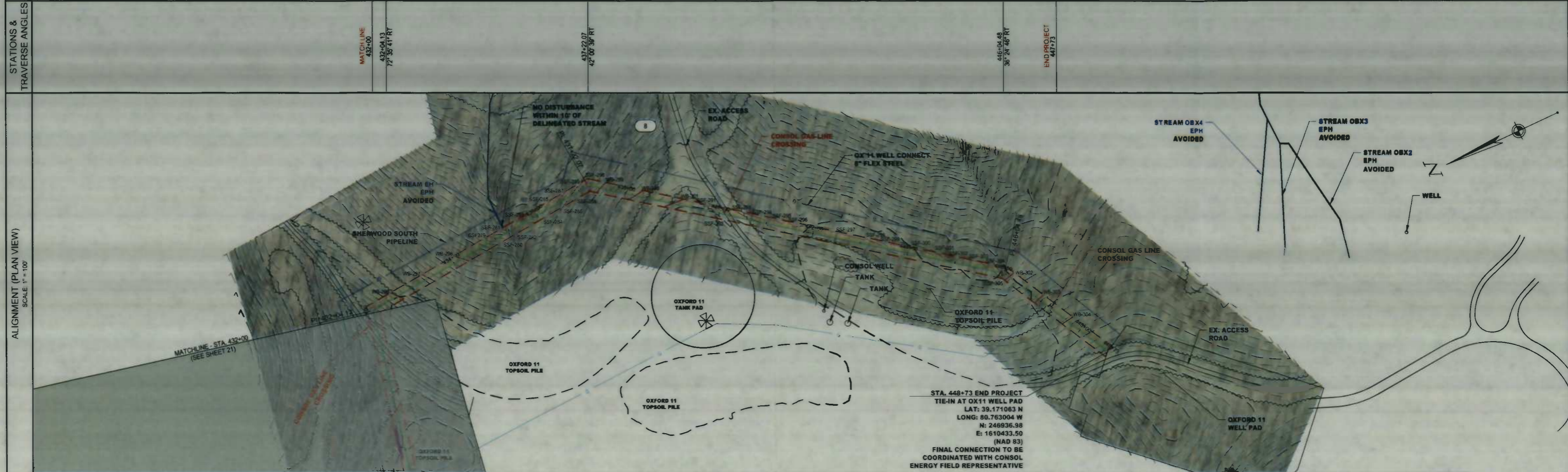
**WATERLINE PLAN**

STATION(S): 405+00 TO 432+00

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

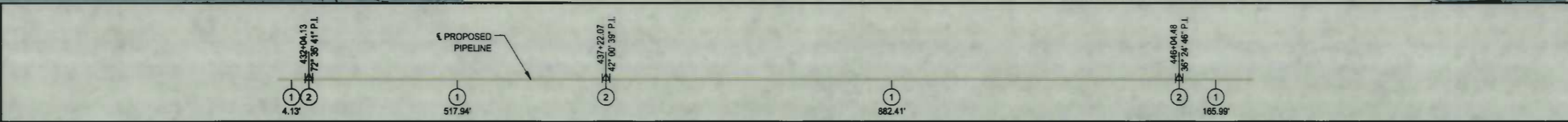
DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	21 of 57



**PIPELINE DATA**  
SCALE N.T.S.

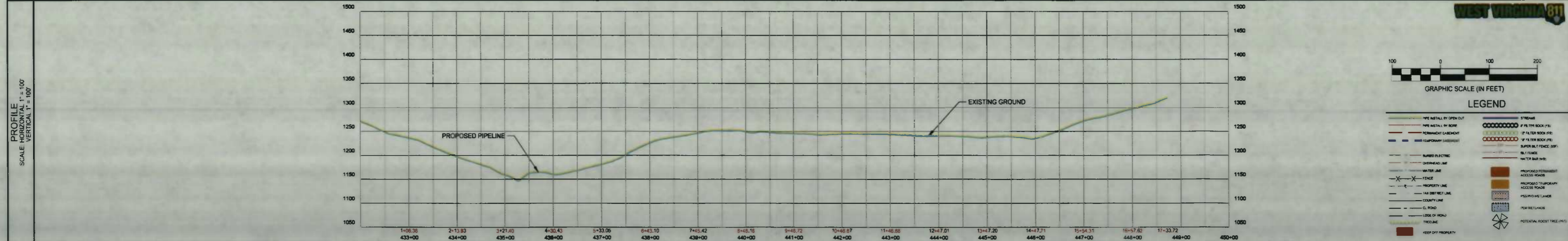
**PIPELINE SCHEMATIC**

- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY SORE
- SEGMENTABLE FITTING
- PIPELINE WARNING SIGNS
- PIPELINE MARKER NUMBER



NOTE:  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSING(S).

CONSOL ENERGY  
ONE ENERGY DRIVE  
JANE LEW, WV 26378  
ADAM WHITE  
240-506-7299  
AdamWhite@consolenergy.com



**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	1734 LF	18" HDPE WATERLINE					
2	3 EA	Elbow, 45° Segmentable Fitting					

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**MEATHOUSE TO OX11 WATERLINE**

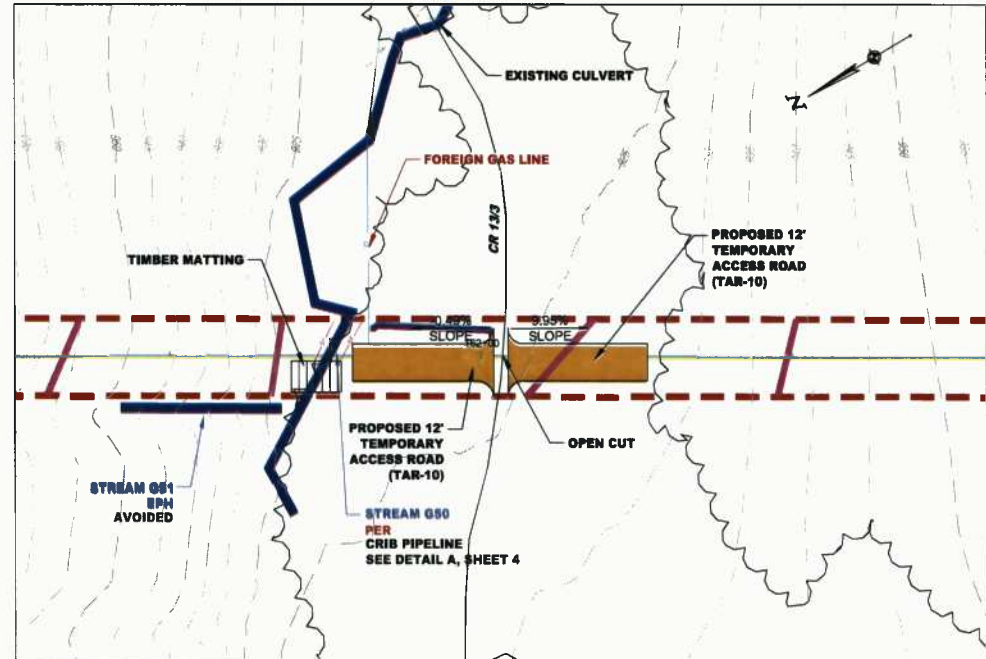
**WATERLINE PLAN**

STATION(S): 432+00 TO 448+73

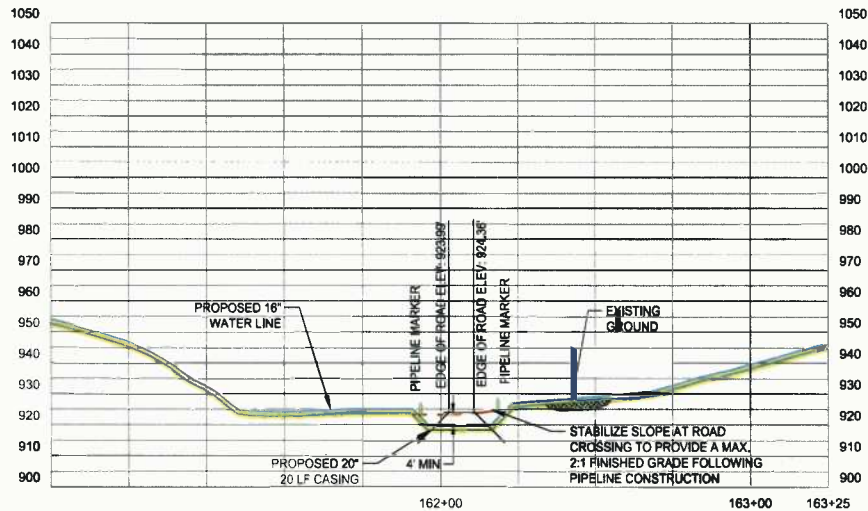
**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	22 of 57



PLAN VIEW  
SCALE 1"=30'



Meathouse-OX11 PROFILE  
Scale: 1" = 30' Horiz.; 1" = 30' Vert.

**LEGEND**

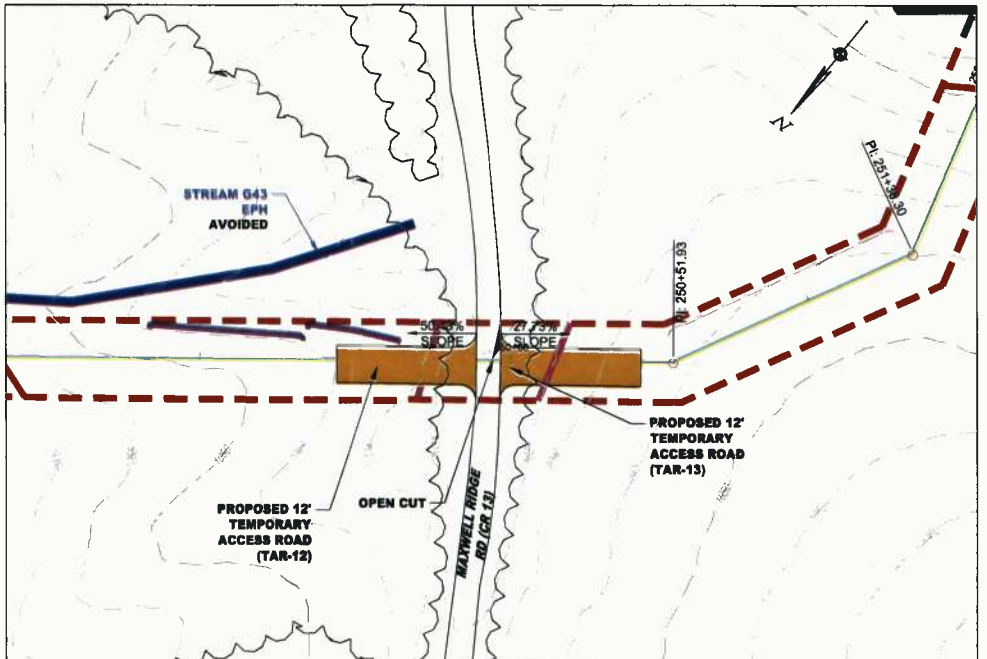
- PIPE METAL BY OPEN CUT
- PIPE METAL BY SORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- PROPERTY LINE
- CL ROAD
- EDGE OF ROAD
- STREAMS
- TREELINE

**GRAPHIC SCALE**  
1 inch = 30 ft.

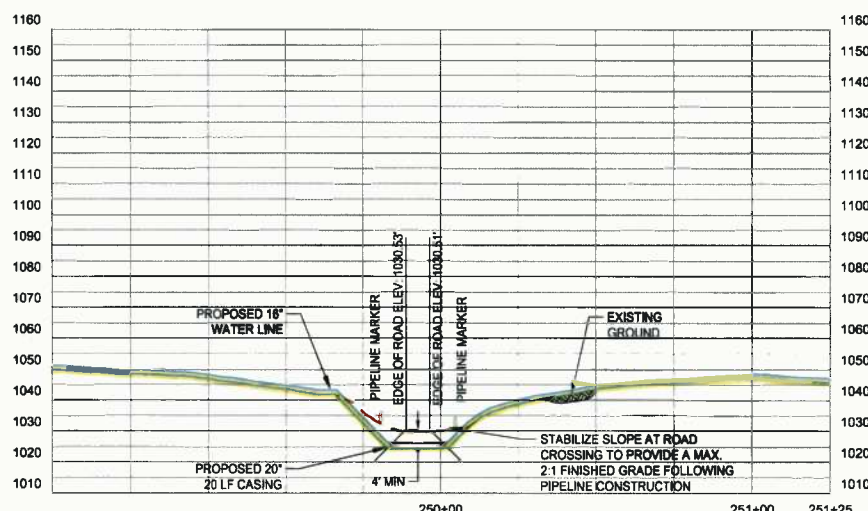
**OPEN CUT PROFILE**  
SCALE 1"=30' HORIZ., 1"=30' VERT.

NO.	DESCRIPTION	DATE	DESIGNED BY

**MEATHOUSE TO OX11 WATERLINE**  
NEW MILTON DISTRICT  
DODDORGE COUNTY  
WEST VIRGINIA  
PROJECT NO. 750589  
SHEET NO. 1 of 5  
www.cesoinc.com



PLAN VIEW  
SCALE 1"=30'



Meathouse-OX11 PROFILE  
Scale: 1" = 30' Horiz.; 1" = 30' Vert.

**LEGEND**

- PIPE METAL BY OPEN CUT
- PIPE METAL BY SORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- PROPERTY LINE
- CL ROAD
- EDGE OF ROAD
- STREAMS
- TREELINE

**GRAPHIC SCALE**  
1 inch = 30 ft.

**OPEN CUT PROFILE**  
SCALE 1"=30' HORIZ., 1"=30' VERT.

NO.	DESCRIPTION	DATE	DESIGNED BY

**MEATHOUSE TO OX11 WATERLINE**  
NEW MILTON DISTRICT  
DODDORGE COUNTY  
WEST VIRGINIA  
PROJECT NO. 750589  
SHEET NO. 2 of 5  
www.cesoinc.com

**IFC**  
07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

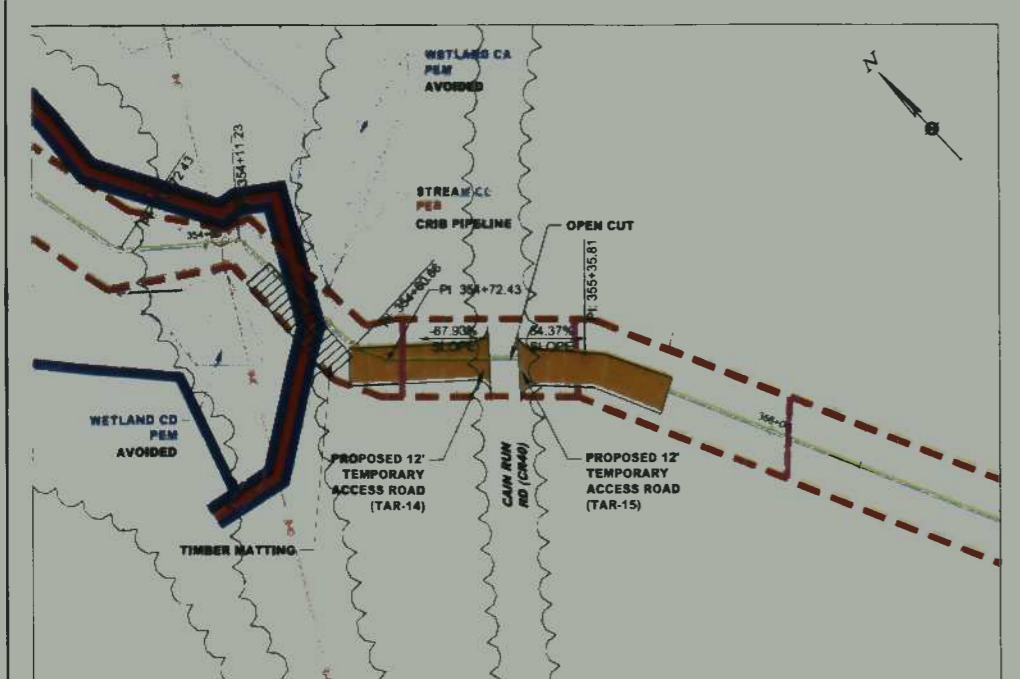
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**MEATHOUSE TO OX11 WATERLINE**  
**ROAD CROSSING DETAILS**  
STATION(S): N/A

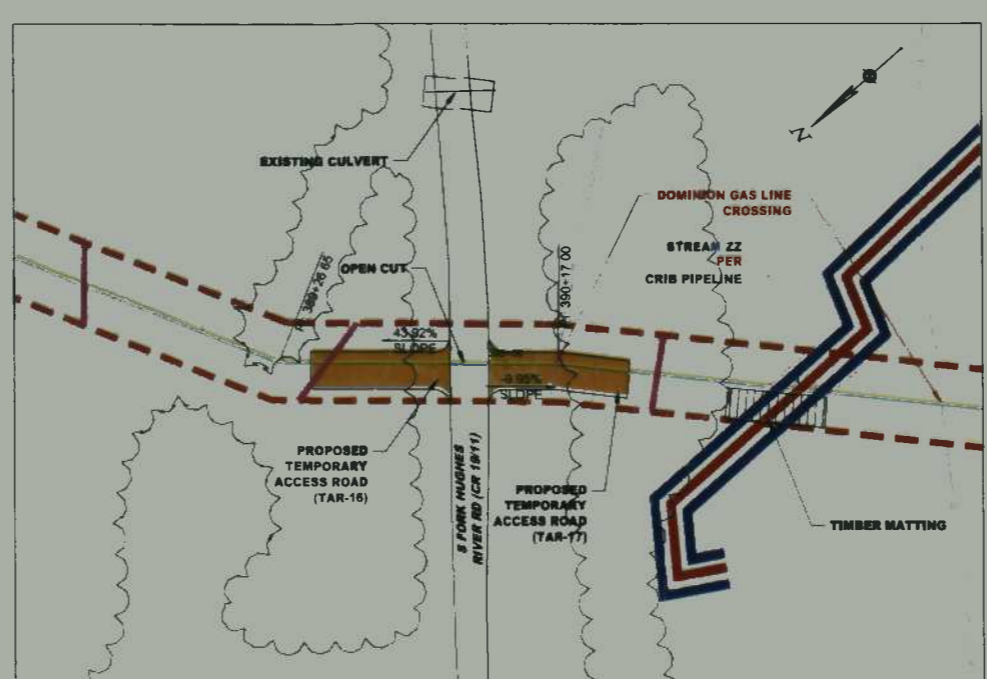
**CONSOL ENERGY**  
200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE: 07/29/14  
JOB NO.: 750589  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**23 of 57**

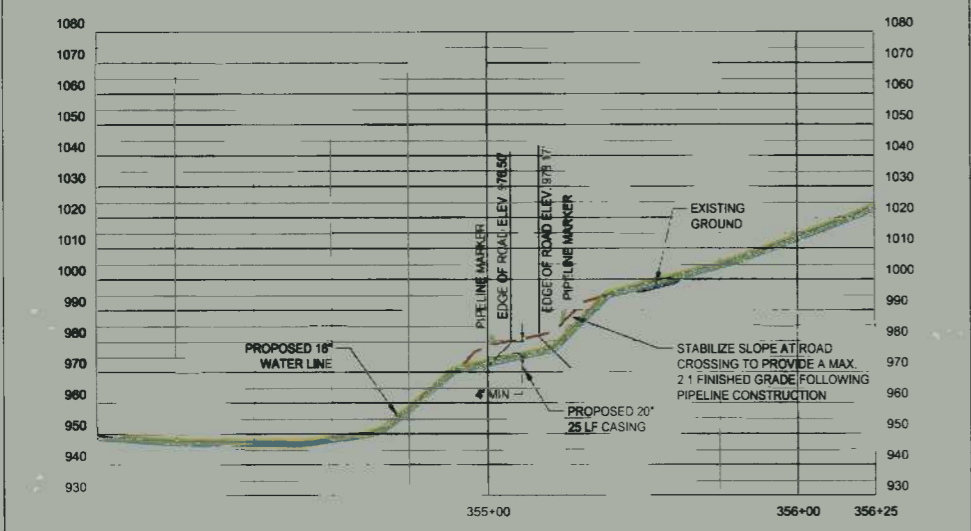
K:\PROJECTS\CONSOL ENERGY\750589-01 - OX11 - MEATHOUSE FORK WATERLINE\CIVIL\PLAN\PIPELINE\ROAD CROSSING DETAILS.DWG - 7/29/2014 3:56 PM



PLAN VIEW  
SCALE 1"=30'



PLAN VIEW  
SCALE 1"=30'



Meathouse-OX11 PROFILE  
Scale: 1" = 30' Horiz.; 1" = 30' Vert.

**LEGEND**

- PIPE METAL BY OPEN CUT
- PIPE METAL BY SORE
- PERMANENT EMBANKMENT
- TEMPORARY EMBANKMENT
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- PROPERTY LINE
- CL ROAD
- EDGE OF ROAD
- STREAM
- WETLINE

**GRAPHIC SCALE**  
1 inch = 30 ft.

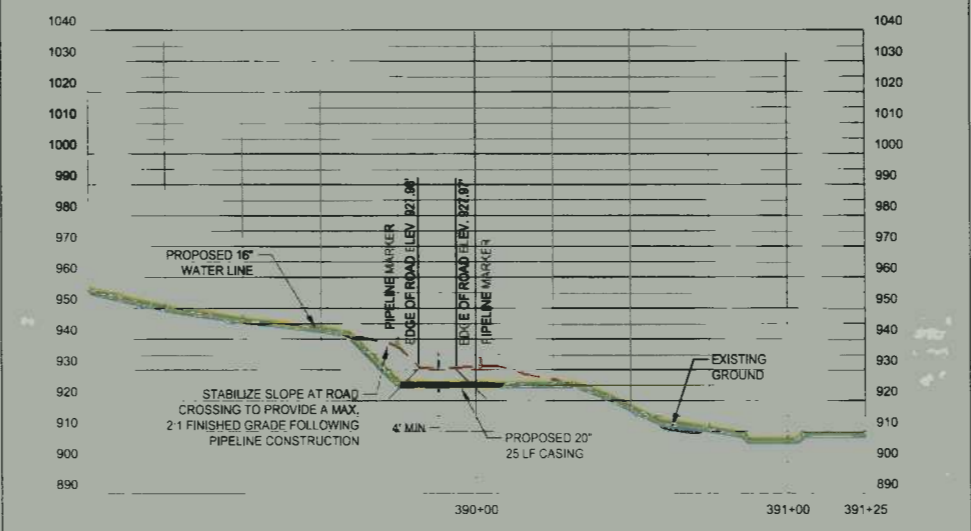
**OPEN CUT PROFILE**  
SCALE 1"=30' HORIZ., 1"=30' VERT.

**OPEN CUT DETAIL**  
CAIN RUN ROAD (CR 40)

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED	07/29/14	BEM	BEM

MEATHOUSE TO OX11 WATERLINE  
NEW MILTON DISTRICT  
DOUGHERT COUNTY  
WEST VIRGINIA  
PROJECT NO. 750589  
SHEET NO. 3 OF 5

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Meathouse-OX11 PROFILE  
Scale: 1" = 30' Horiz.; 1" = 30' Vert.

**LEGEND**

- PIPE METAL BY OPEN CUT
- PIPE METAL BY SORE
- PERMANENT EMBANKMENT
- TEMPORARY EMBANKMENT
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- PROPERTY LINE
- CL ROAD
- EDGE OF ROAD
- STREAM
- WETLINE

**GRAPHIC SCALE**  
1 inch = 30 ft.

**OPEN CUT PROFILE**  
SCALE 1"=30' HORIZ., 1"=30' VERT.

**OPEN CUT DETAIL**  
S FORK HUGHES RIVER ROAD (CR 1911)

NO.	REVISION	DATE	BY	CHKD.
1	ISSUED	07/29/14	BEM	BEM

MEATHOUSE TO OX11 WATERLINE  
NEW MILTON DISTRICT  
DOUGHERT COUNTY  
WEST VIRGINIA  
PROJECT NO. 750589  
SHEET NO. 4 OF 5

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IFC

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

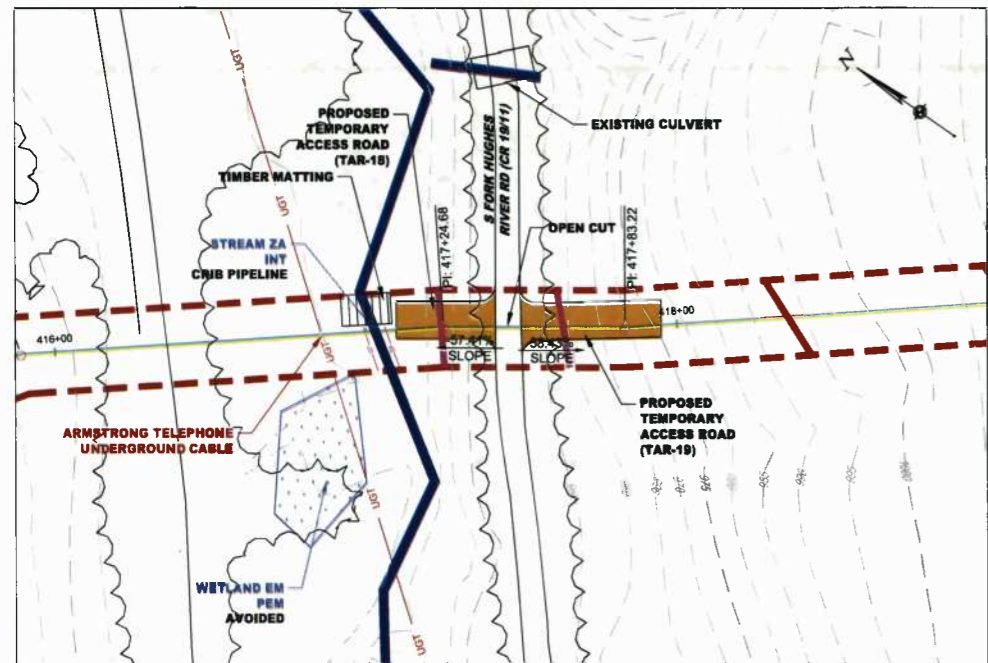
**ceso**  
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MEATHOUSE TO OX11 WATERLINE  
ROAD CROSSING DETAILS

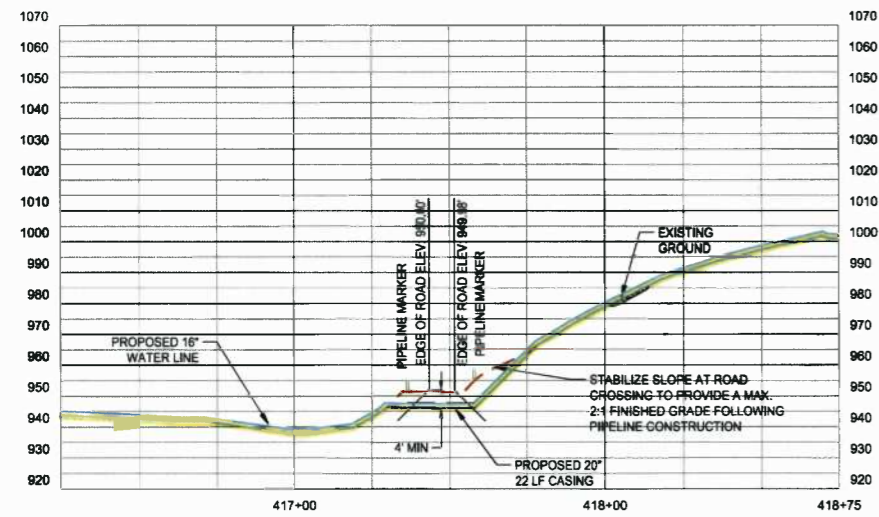
STATION(S): N/A

**CONSOL ENERGY**  
200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	24 of 57



PLAN VIEW  
SCALE 1"=30'



Meathouse-OX11 PROFILE  
Scale: 1" = 30' Horiz.; 1" = 30' Vert.

**LEGEND**

- PIPE INSTALLED BY OPEN CUT
- PIPE INSTALLED BY SIDE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- PROPERTY LINE
- CL ROAD
- TOP OF ROAD
- STREAM
- TRAILLINE

**GRAPHIC SCALE**  
(IN FEET)  
1 inch = 30 ft

**OPEN CUT PROFILE**  
SCALE: 1"=30'(H); 1"=30'(V)

**OPEN CUT DETAIL**  
S FORK HUGHES RIVER ROAD (CR 19/11)

NO.	REVISION	DATE	PROJECTED BY

**MEATHOUSE TO OX11 WATERLINE**

NEW MILTON DISTRICT  
DODDRIDGE COUNTY  
WEST VIRGINIA

PROJECT NO. 750589  
SHEET NO. 5 OF 5

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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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**MEATHOUSE TO OX11 WATERLINE**

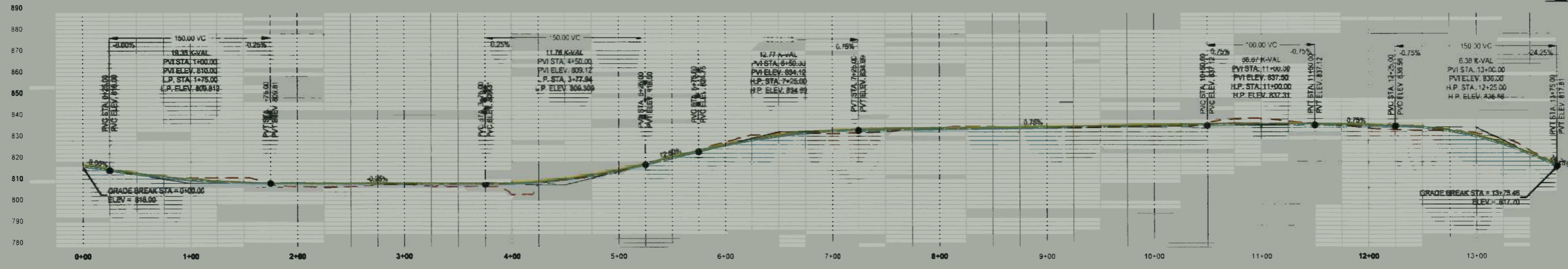
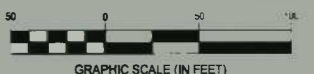
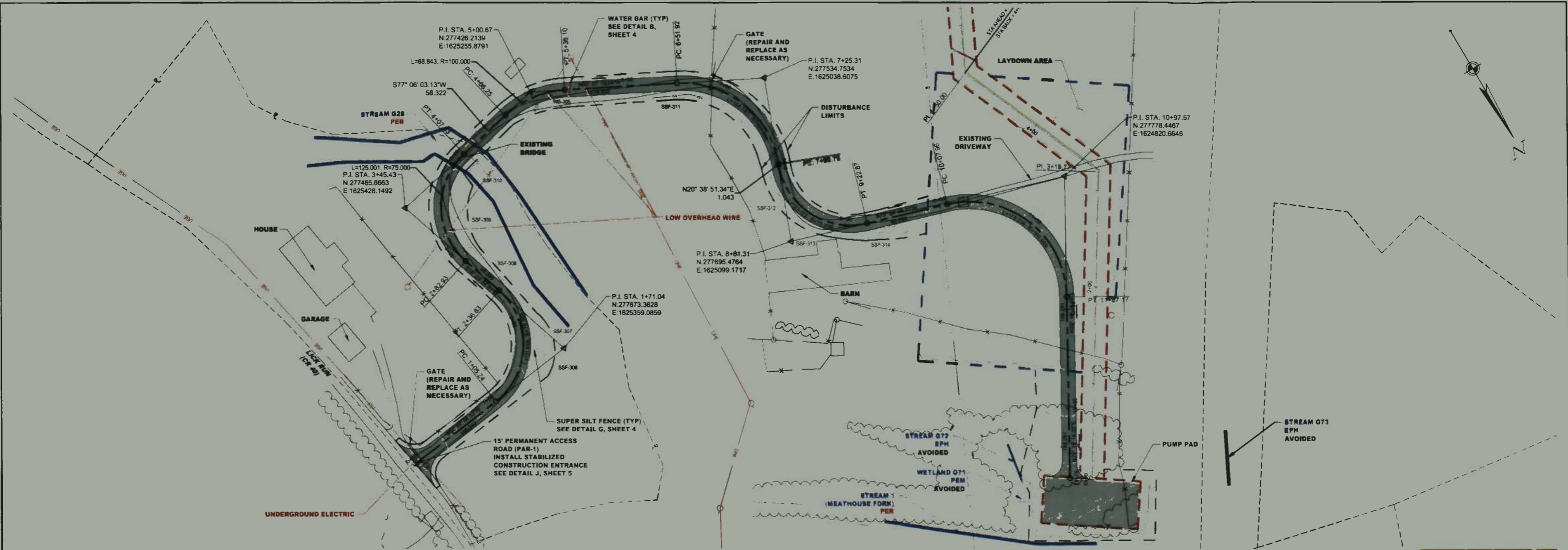
**ROAD CROSSING DETAILS**

STATION(S): N/A

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200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
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SHEET NO.	25 of 57



PAR-1 PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**LEGEND**

- PIPE INSTALL BY OTHER
- PERMANENT EASEMENT
- PROPOSED EASEMENT
- ROAD
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY BOUNDARY
- TAX DISTRICT
- UTILITY LINE
- CL. ROAD
- EDGE OF ROAD
- TITLELINE
- STRIPES
- 12" FILTER BODY (PS)
- 18" FILTER BODY (PS)
- SUBPA 18" (HOLE) (PS)
- 18" FENCE
- WETLAND BOUNDARY
- TRENCH PLUG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PERMANENT EASEMENT
- PERM WETLAND
- KEEP OFF PROPERTY
- UTILITY ROADWAY

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MEATHOUSE TO OX11 WATERLINE

PAR-1 PLAN AND PROFILE

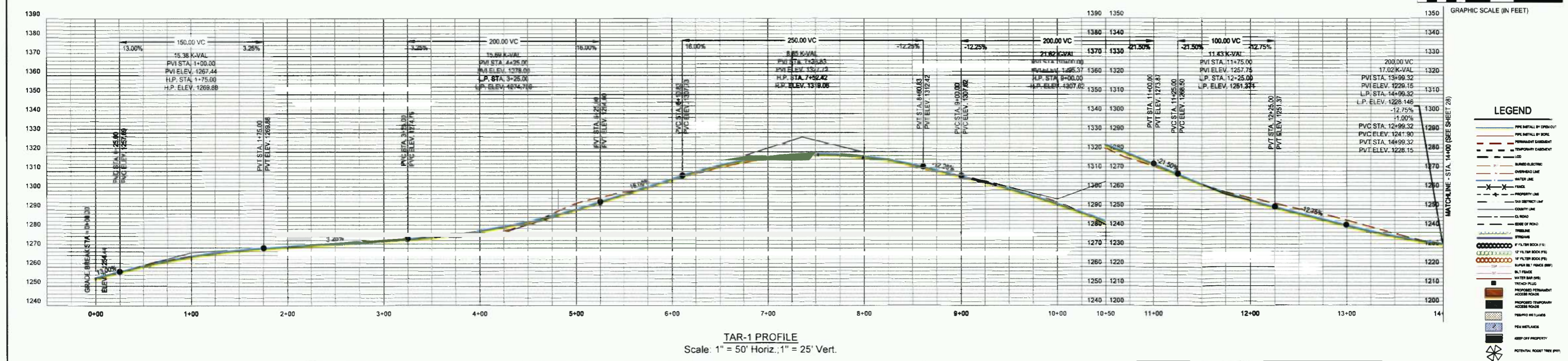
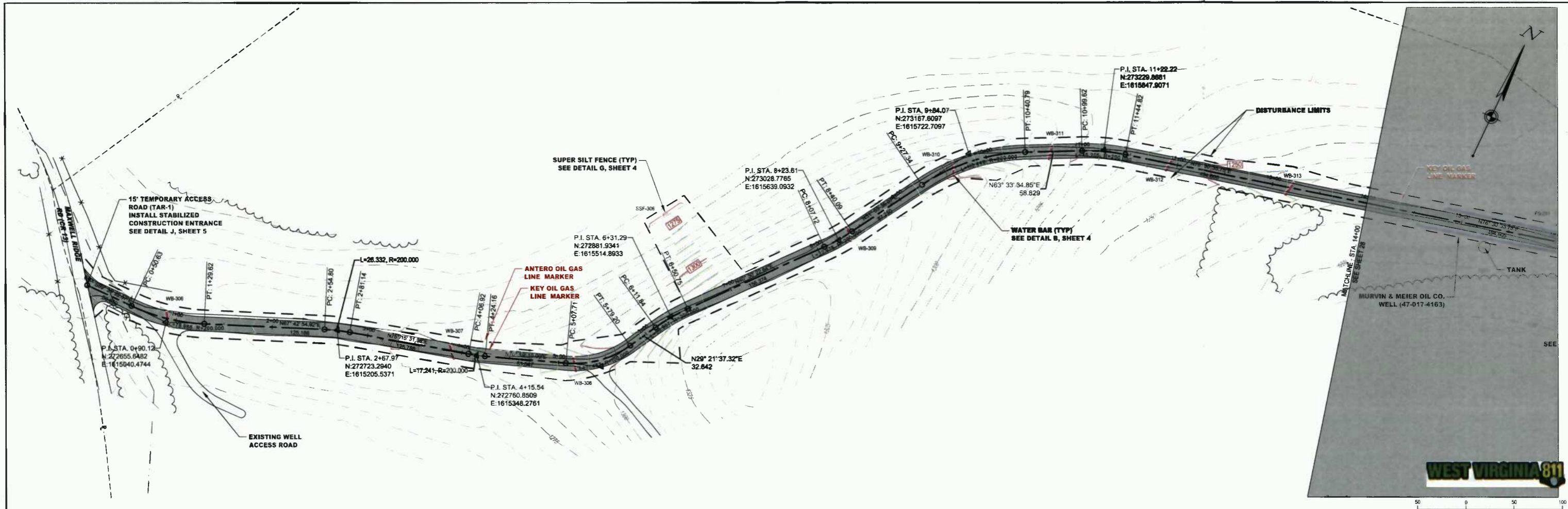
STATION(S): 0+00 TO 12+77

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SHEET NO.:	26 of 57





TAR-1 PROFILE  
Scale: 1" = 50' Horiz.; 1" = 25' Vert.

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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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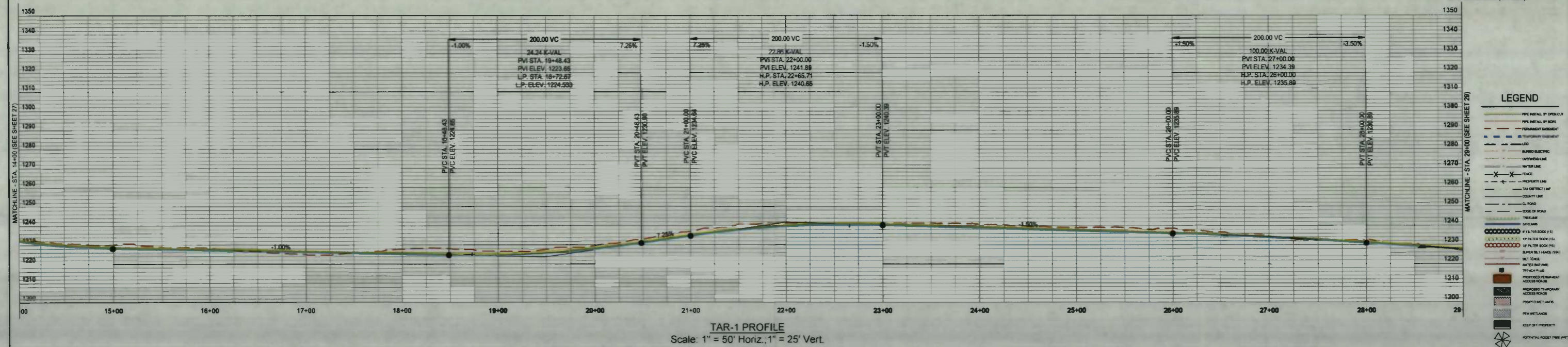
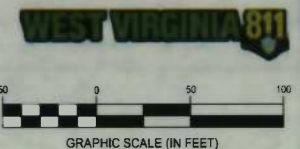
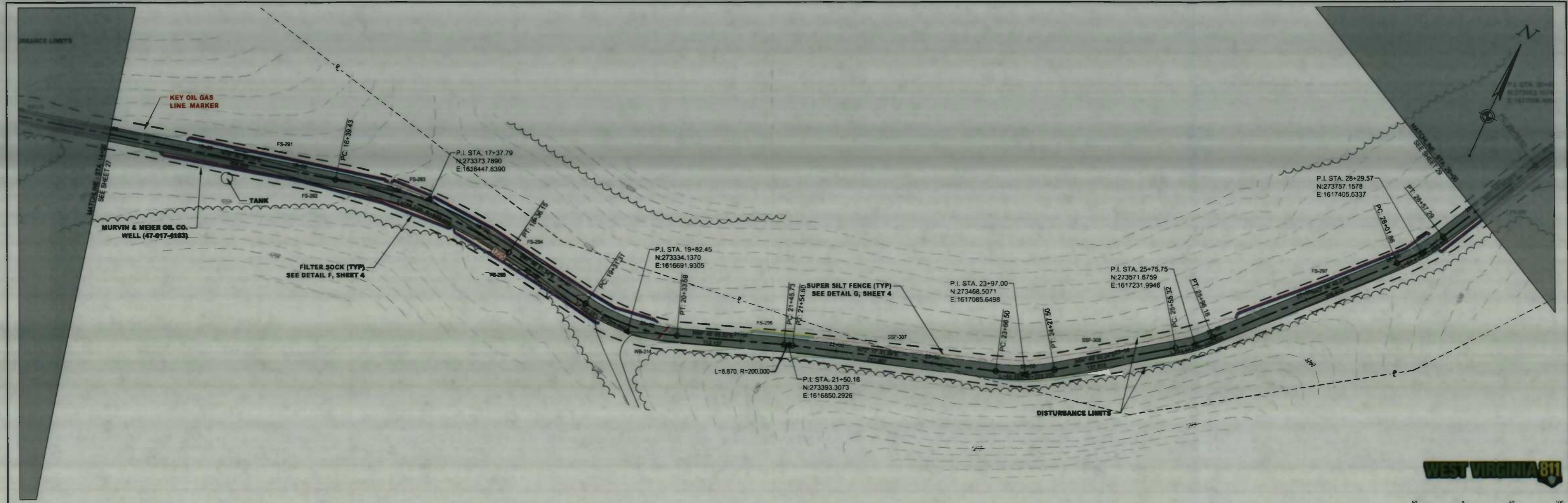
TAR-1 PLAN AND PROFILE

STATION(S): 0+00 TO 14+00

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SHEET NO.	27 of 57



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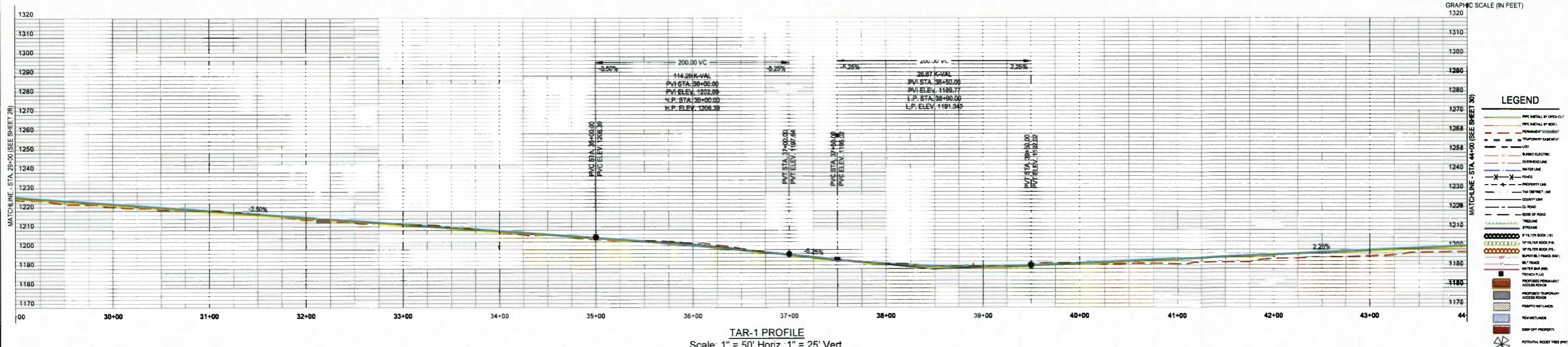
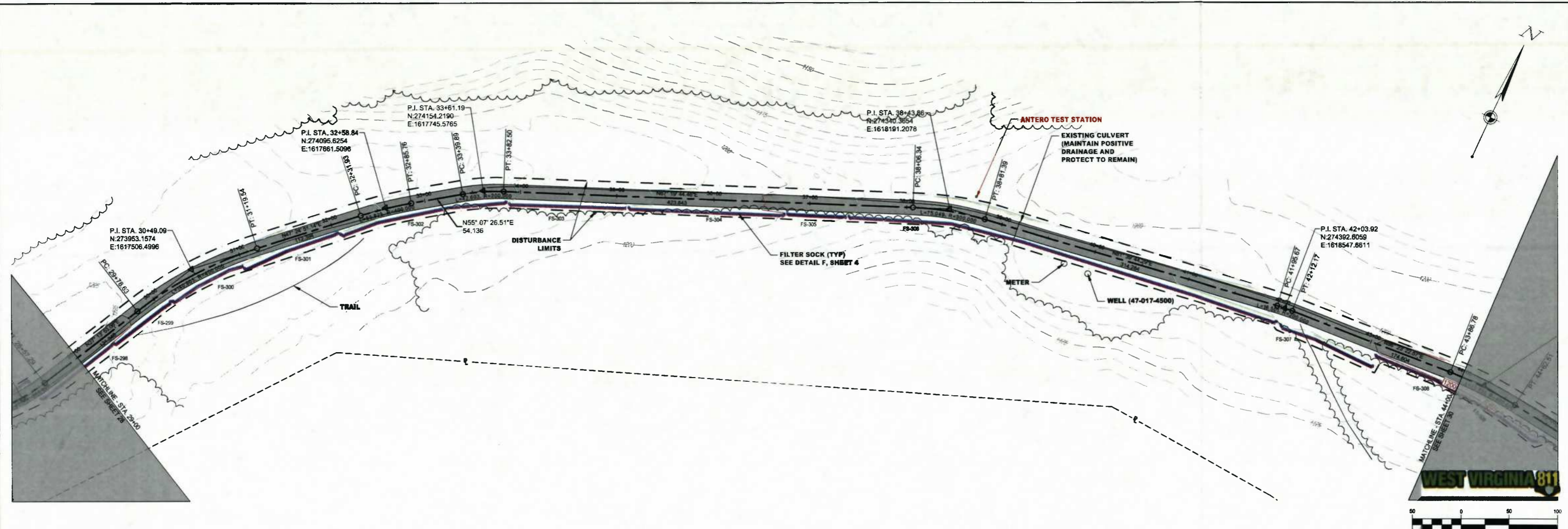
SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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MEATHOUSE TO OX11 WATERLINE  
TAR-1 PLAN AND PROFILE  
STATION(S): 14+00 TO 29+00

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**28 of 57**



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MEATHOUSE TO OX11 WATERLINE

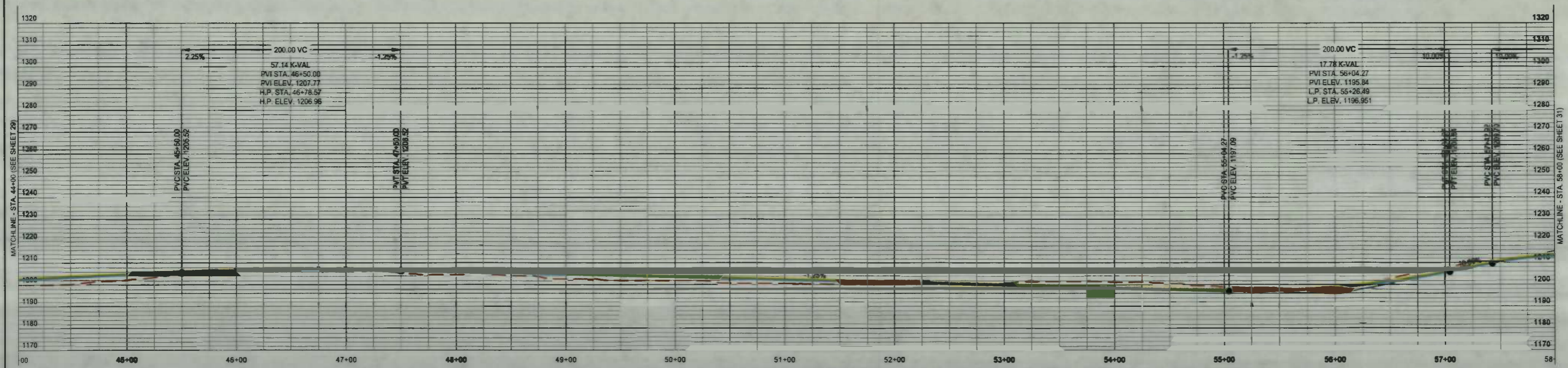
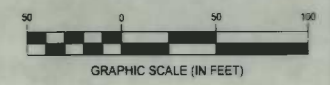
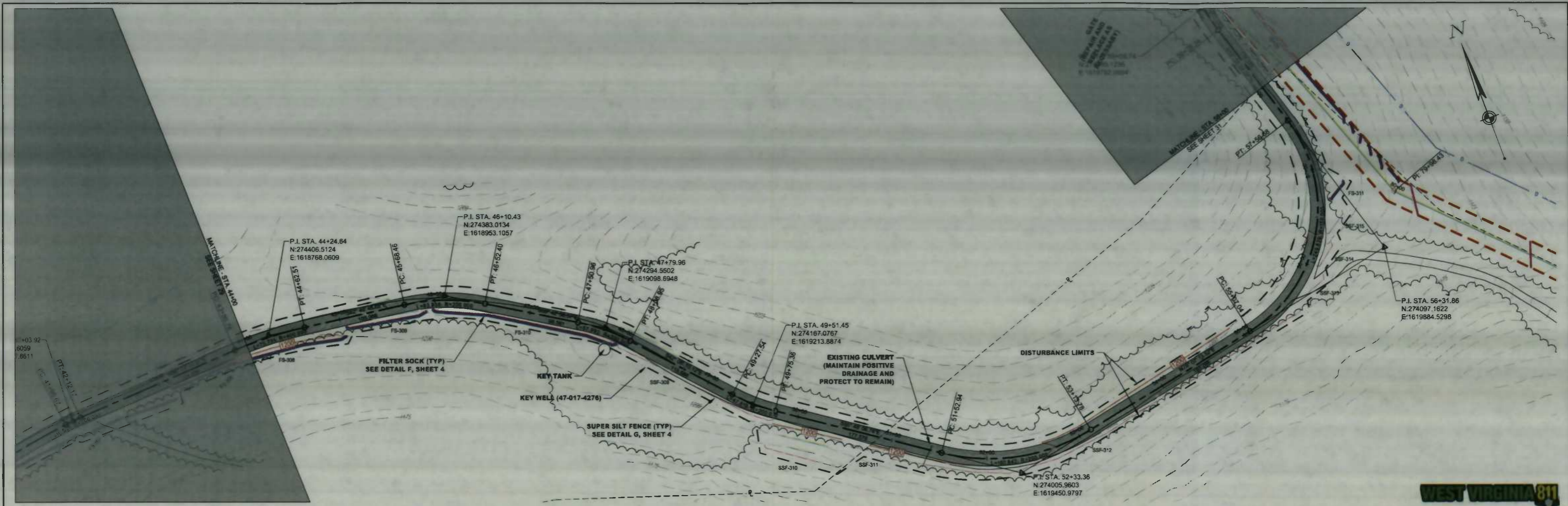
TAR-1 PLAN AND PROFILE

STATION(S): 29+00 TO 44+00

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DATE: 07/29/14  
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DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
29 of 57



TAR-1 PROFILE  
Scale: 1" = 50' Horiz.; 1" = 25' Vert.

**LEGEND**

- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY BOX
- PERMANENT BASEMENT
- TEMPORARY BASEMENT
- LOD
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPOSED LINE
- TAX DISTRICT LINE
- PROPERTY LINE
- CL. ROAD
- EDGE OF ROAD
- TREELINE
- STICKS
- IF FULL BUCK (FS)
- IF FULL BUCK (PS)
- IF FILTER SOCK (PS)
- SUPER SILT FENCE (SB)
- SB FENCE
- KEY TANK
- KEY WELL
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- RESERVED METALANCE
- NEW METALANCE
- KEEP OFF PROPERTY
- POTENTIAL ROCKET TREE (PT)

**IFC**

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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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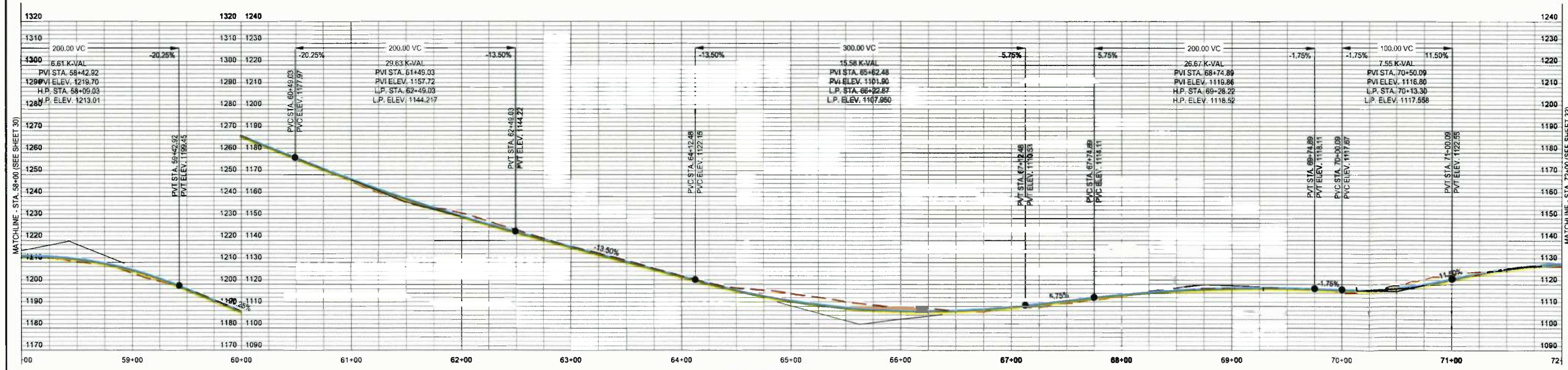
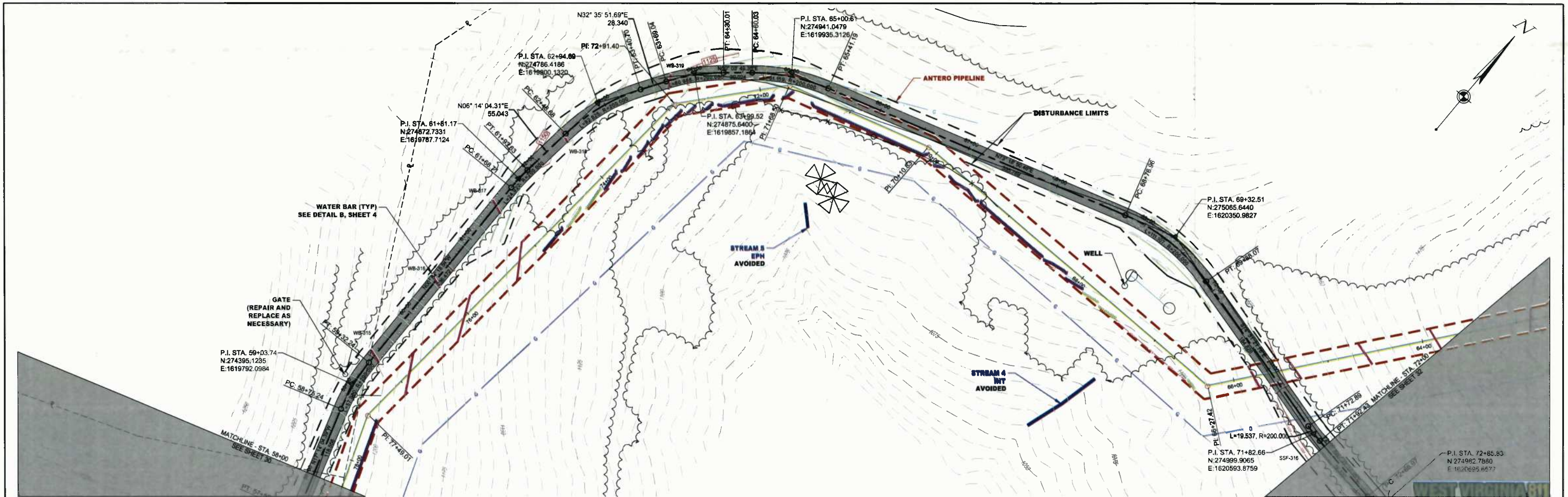
**TAR-1 PLAN AND PROFILE**

STATION(S): 44+00 to 58+00

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SHEET NO.	30 of 57



- LEGEND**
- PIPE METAL BY OPEN
  - PIPE METAL BY BOX
  - PERMANENT EASEMENT
  - TEMPORARY EASEMENT
  - ROAD
  - BURIED ELECTRIC
  - OVERHEAD LINE
  - WATER LINE
  - STREAM
  - PROPERTY LINE
  - TAX DISTRICT LINE
  - COUNTY LINE
  - CL ROAD
  - SIDE OF ROAD
  - TREELINE
  - IF FILTER BOOD (F.S.)
  - IF FILTER BOOD (F.S.)
  - IF FILTER BOOD (F.S.)
  - IF FILTER BOOD (F.S.)
  - MULTI-PURPOSE
  - WATER BAR (TYP)
  - TRUCK PULL
  - PROPOSED PERMANENT ACCESS ROAD
  - PROPOSED TEMPORARY ACCESS ROAD
  - PROPOSED WE LANE
  - NEW STRUCTURE
  - KEEP OFF PROPERTY
  - POTENTIAL ROOTS TREE (PRT)

TAR-1 PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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**MEATHOUSE TO OX11 WATERLINE**

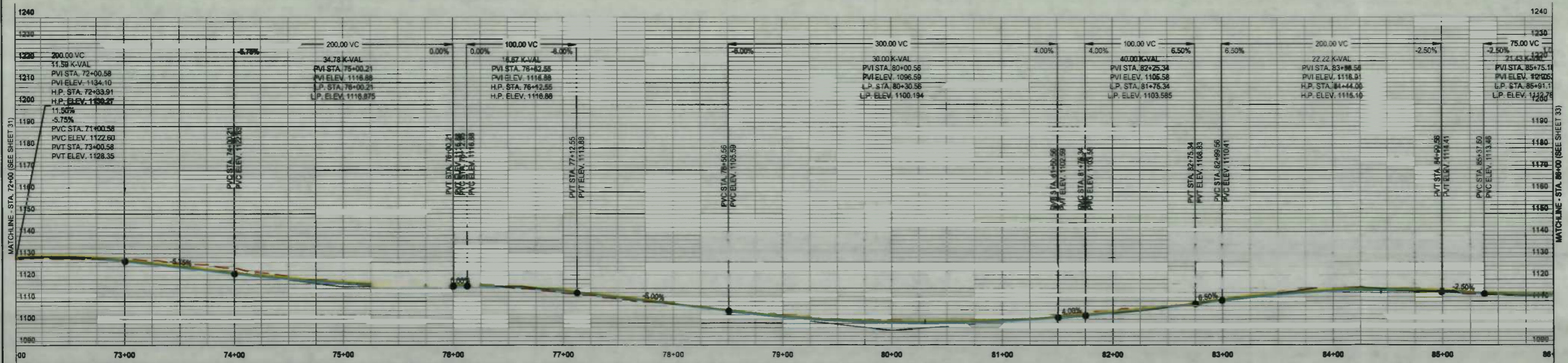
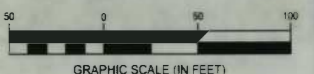
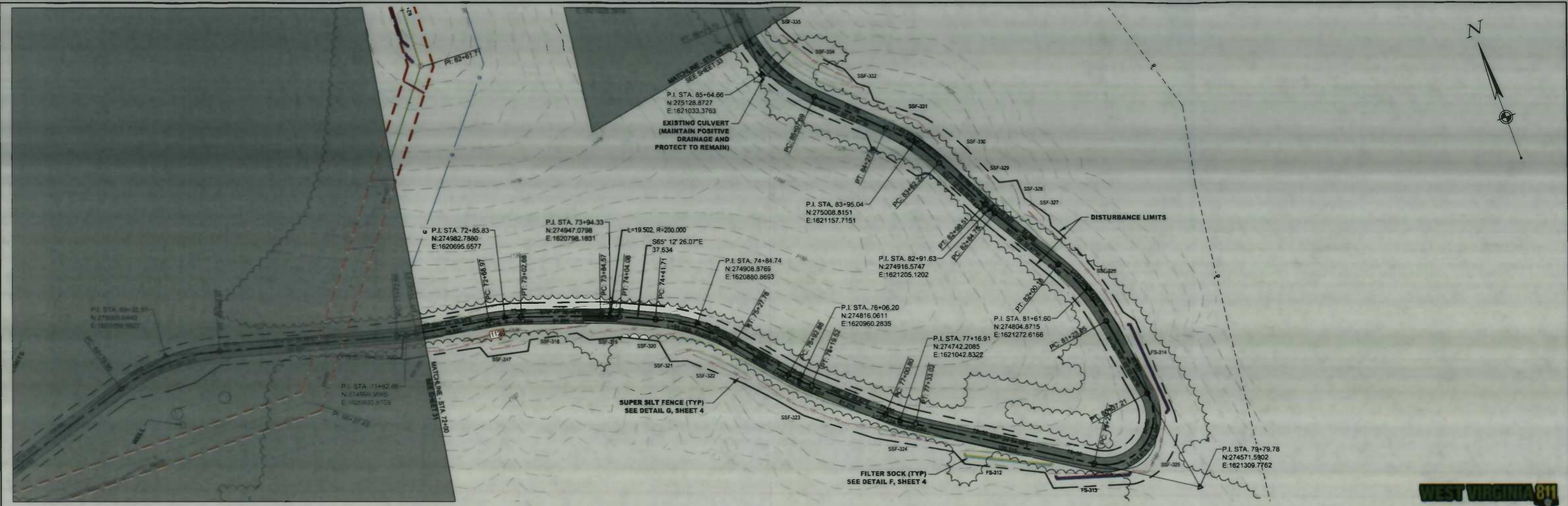
**TAR-1 PLAN AND PROFILE**

STATION(S): 58+00 TO 72+00

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WAYNESBURG, PA 15370

DATE: 07/29/14  
JOB NO.: 750589  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**31 of 57**

K:\PROJECTS\CONSOL ENERGY\750589-01 - OX11 - MEATHOUSE FORK WATER LINE-03-CM\PLAN\PIPELINE\750589-MEATHOUSE-OX11 ACCESS.DWG - 7/30/2014 3:28 PM



**LEGEND**

- PIPE INSTALL BY OPEN CUT
- PIPE INSTALL BY TRENCH
- PERMANENT GAS/VENT
- TEMPORARY FENCE
- LOD
- BURIED ELECTRIC
- OVERHEAD ELECTRIC
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX OBJECT LINE
- COUNTY LINE
- C-ROAD
- EDGE OF ROAD
- TRAILER
- SCREENS
- UP FILTER SOCK (FS)
- UP FILTER SOCK (FS)
- UP FILTER SOCK (FS)
- SUPER SILT FENCE (SFF)
- SFF
- 8FT FENCE
- WATER BAR LINE
- WATER BAR LINE
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED WETLAND
- PEW WETLAND
- KEEP OFF PROPERTY
- POST AND RAIL FENCE (PRF)

**IFC**

07/29/14  
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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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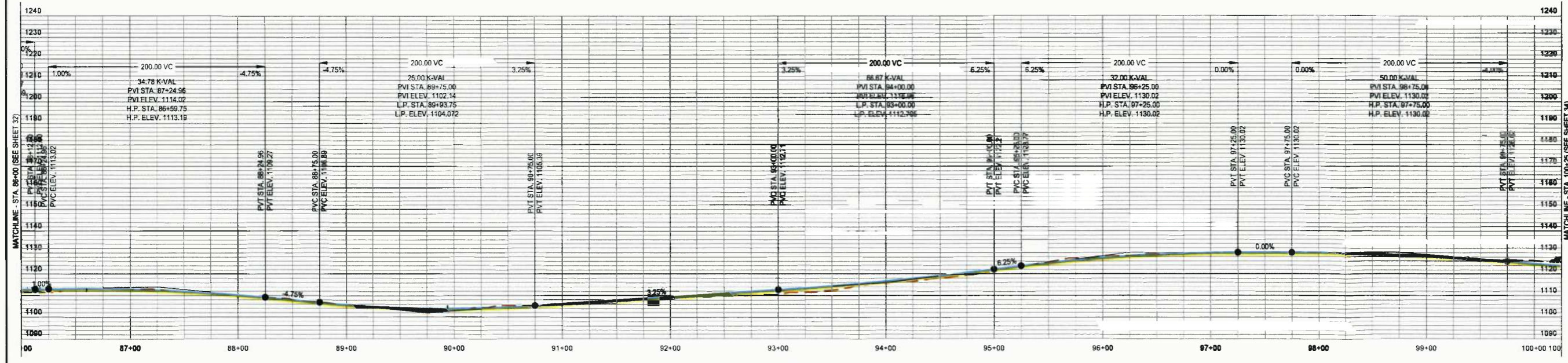
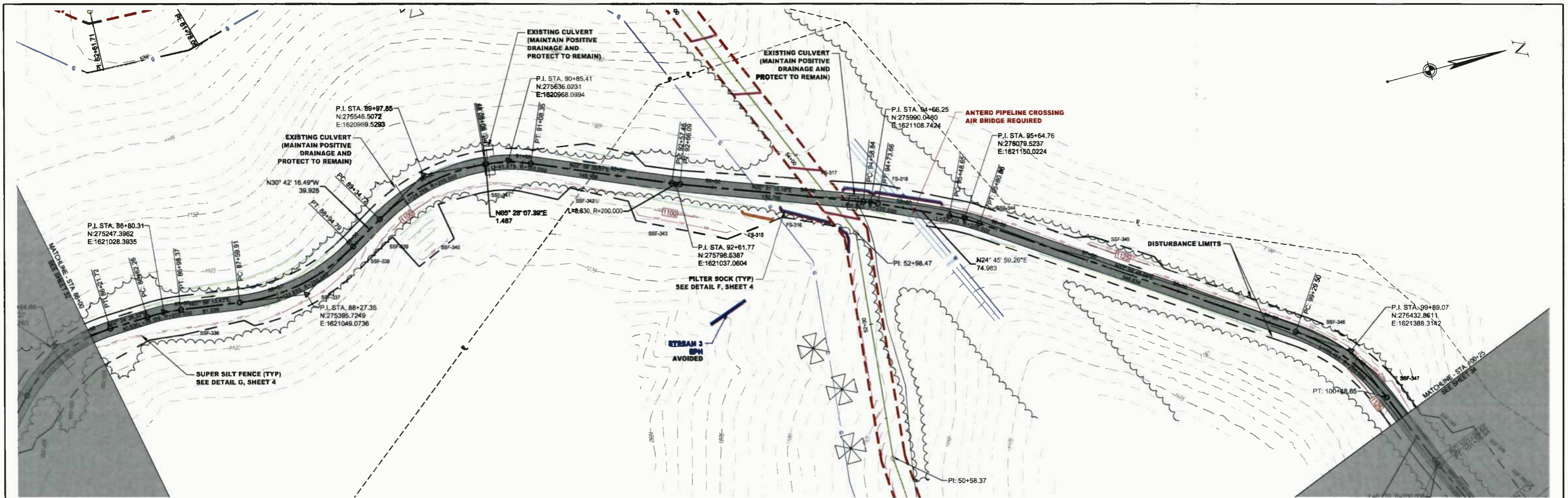
**TAR-1 PLAN AND PROFILE**

STATION(S): 72+00 TO 86+00

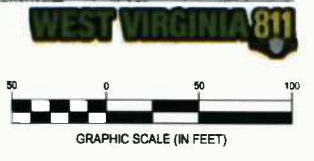
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SHEET NO.	32 of 57



TAR-1 PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.



**LEGEND**

- PIPE METAL BY OPEN CUT
- PIPE METAL BY BORE
- PERMANENT GASBURNET
- TEMPORARY GASBURNET
- LOD
- BURIED ELECTRIC OVERHEADLINE
- WATERLINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL. ROAD
- EDGE OF ROAD
- TRAILLINE
- STREAM
- IF FILTER SOCK (P)
- IF FILTER SOCK (B)
- BURIED ELECTRIC (B)
- SILT FENCE
- WATER BAR (P)
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PERFO. WALL/SLAB
- NEW WEI/LAND
- KEEP OFF PROPERTY
- POTENTIAL ROAD TREE (PRT)

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07/29/14  
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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION



MEATHOUSE TO OX11 WATERLINE

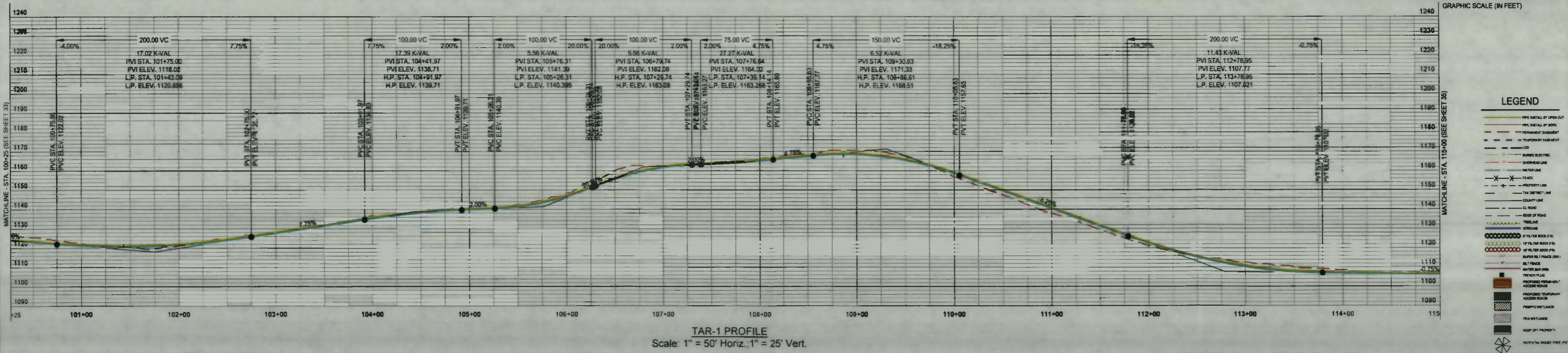
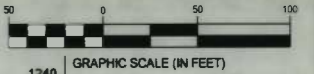
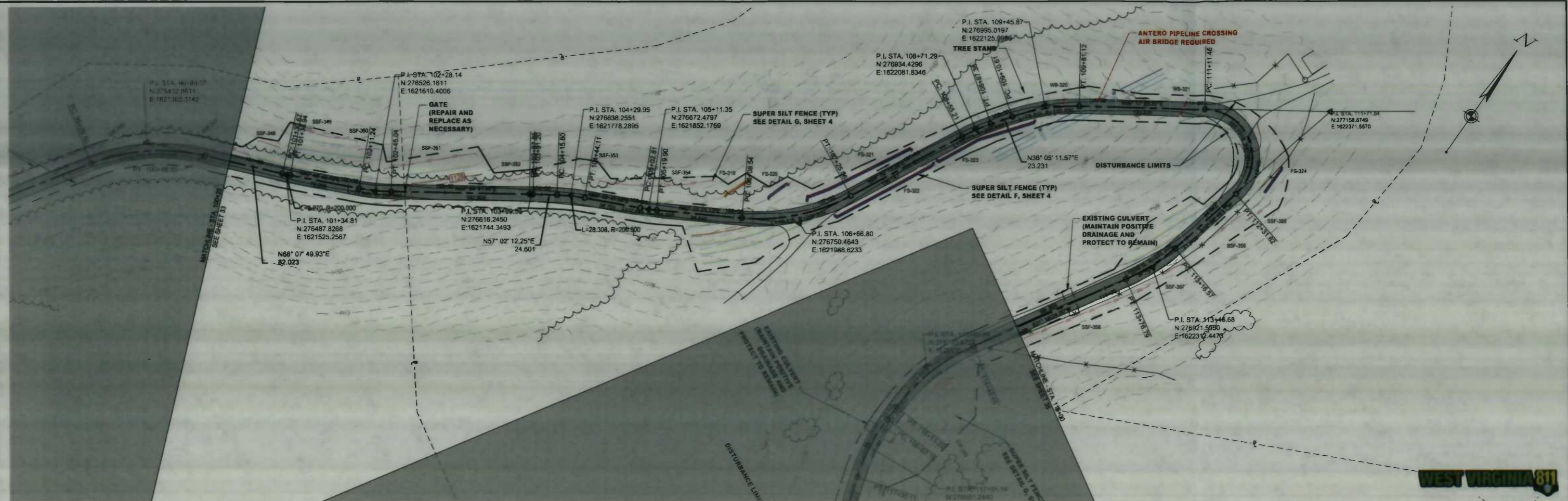
TAR-1 PLAN AND PROFILE

STATION(S): 86+00 TO 100+25



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SHEET NO.	33 of 57



TAR-1 PROFILE  
Scale: 1" = 50' Horiz.; 1" = 25' Vert.

**LEGEND**

- PIPE METAL BY OPEN CUT
- PIPE METAL BY BORING
- PERMANENT DRAINAGE
- TEMPORARY FENCE/STAKE
- EXISTING ROAD
- BURIED ELECTRIC
- OVERHEAD ELECTRIC
- WATER LINE
- FENCE
- PROPERTY LINE
- TAX SUBJECT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TRAILLINE
- STRIKES
- 1" FILTER BODY (PS)
- 1/2" FILTER BODY (PS)
- 1/4" FILTER BODY (PS)
- SUPER SILT FENCE (SSF)
- SILT FENCE
- TRENCH PLUG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PERMITS/BLANKS
- PERMITS/LANDS
- KEEP OFF PROPERTY
- NOT TO SCALE (SEE SHEET 33)

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MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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TAR-1 PLAN AND PROFILE

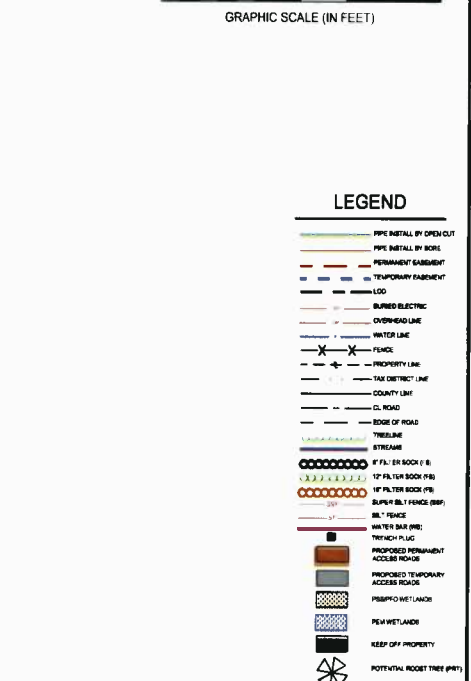
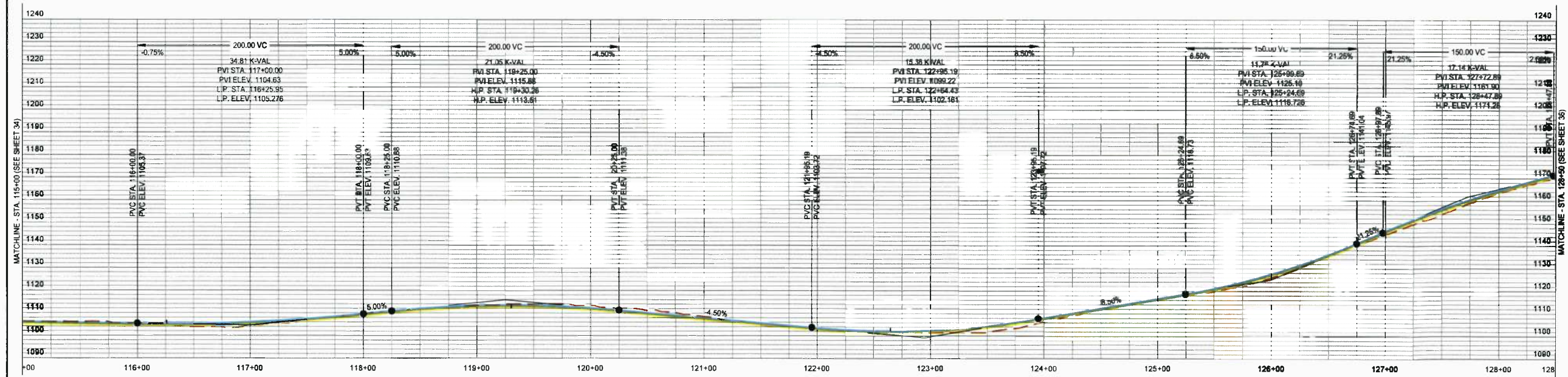
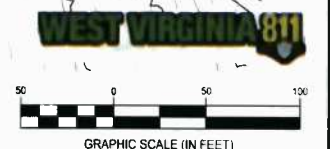
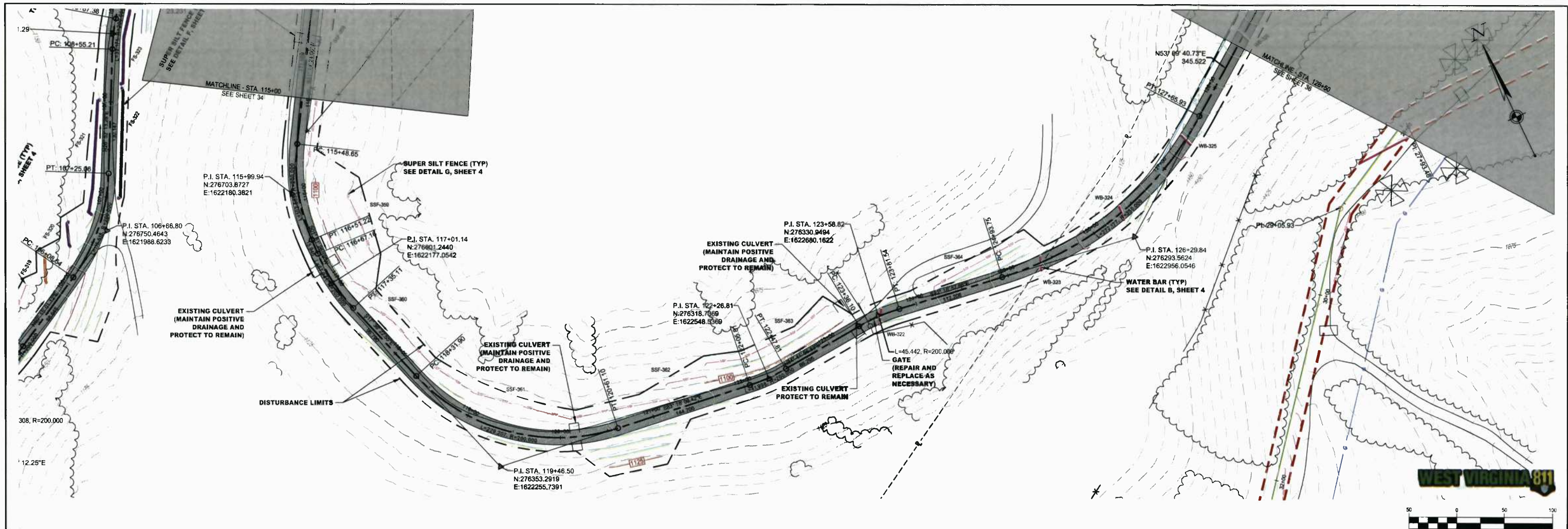
STATION(S): 100+25 TO 115+00

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**TAR-1 PROFILE**  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION



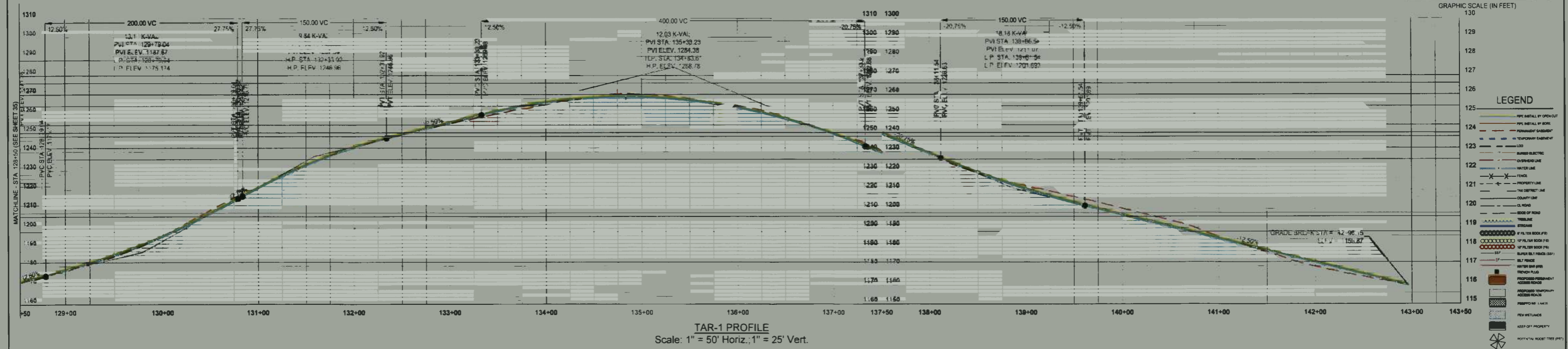
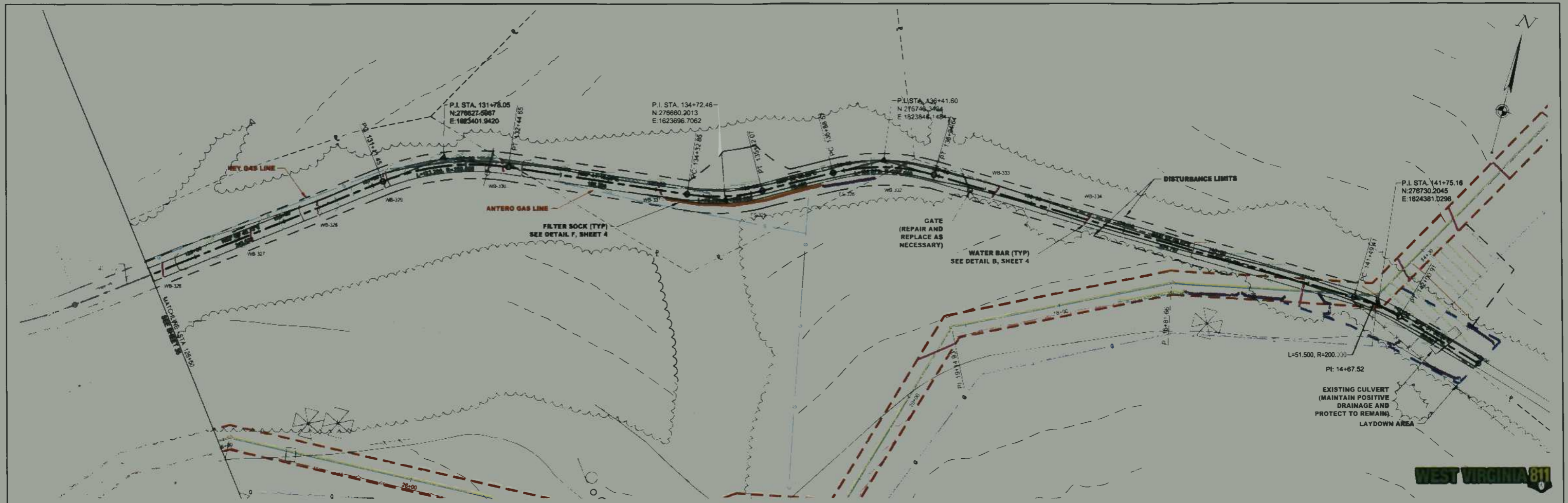
**MEATHOUSE TO OX11 WATERLINE**

**TAR-1 PLAN AND PROFILE**

STATION(S): 115+00 TO 128+50



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MEATHOUSE TO OX11 WATERLINE

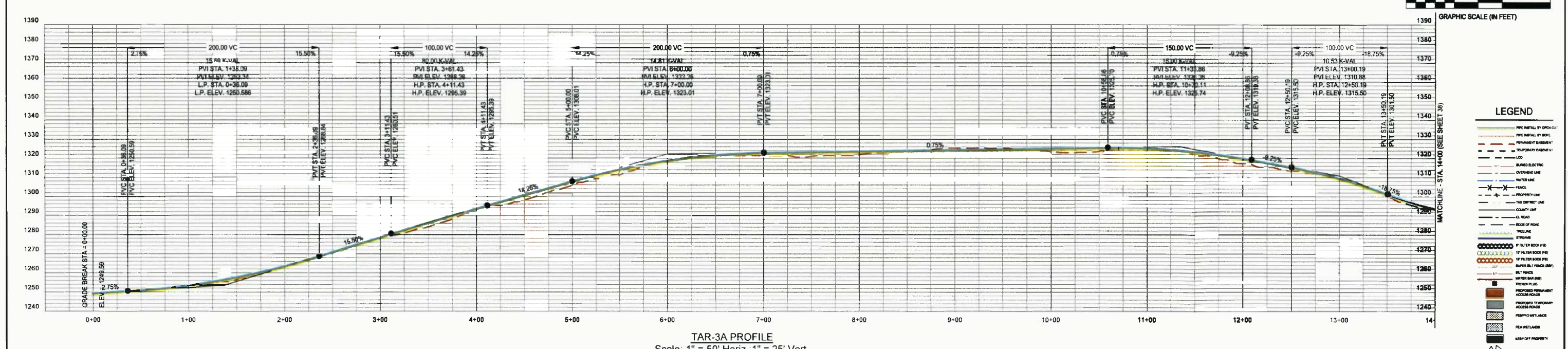
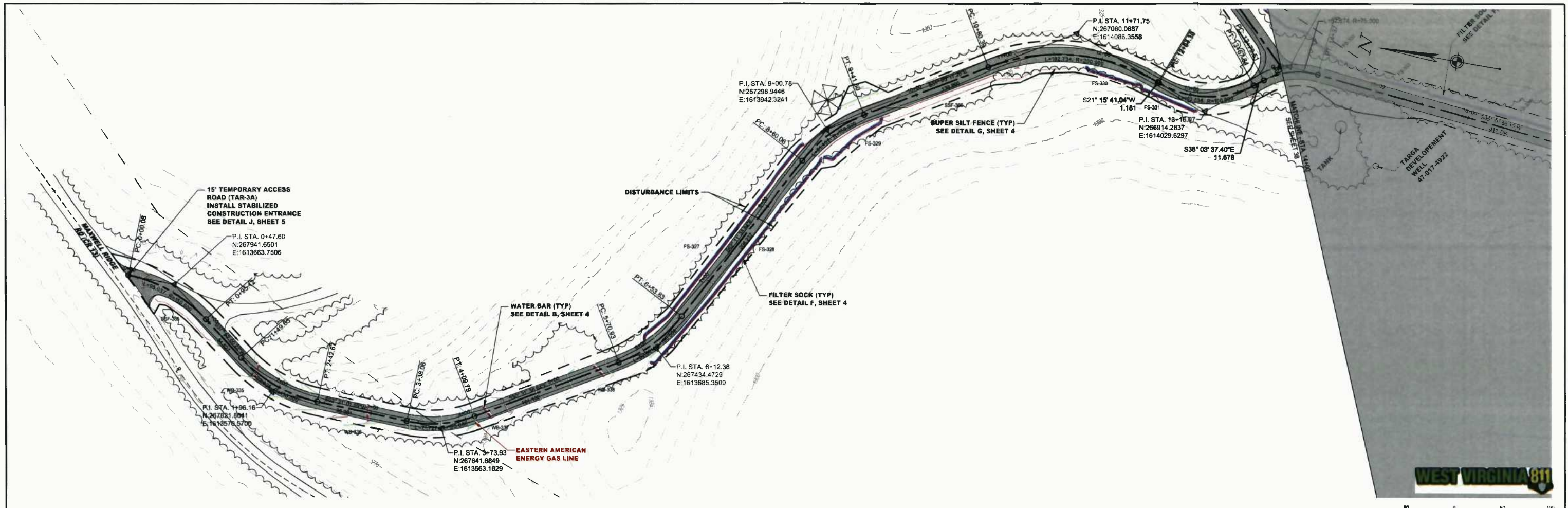
TAR-1 PLAN AND PROFILE

STATION(S): 128+50 TO 142+83

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MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

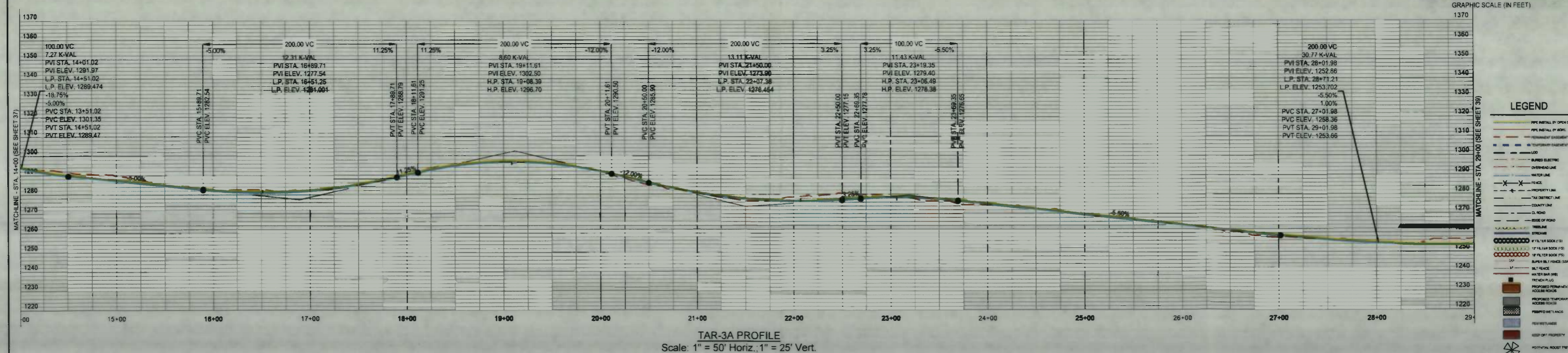
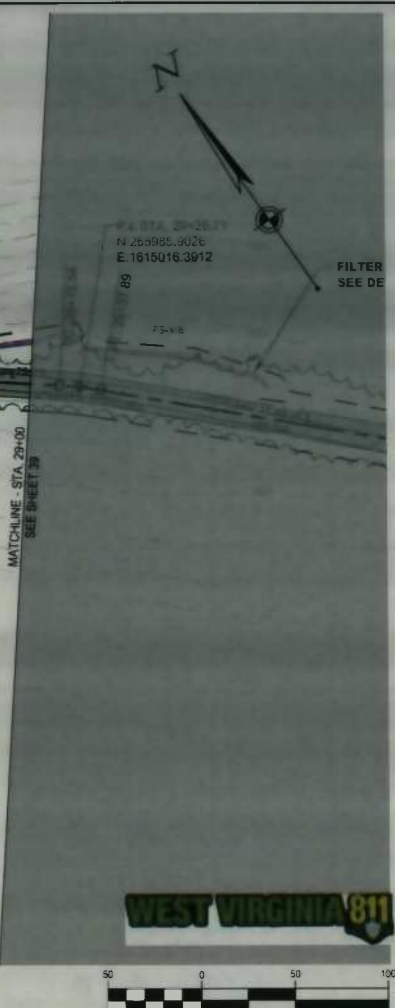
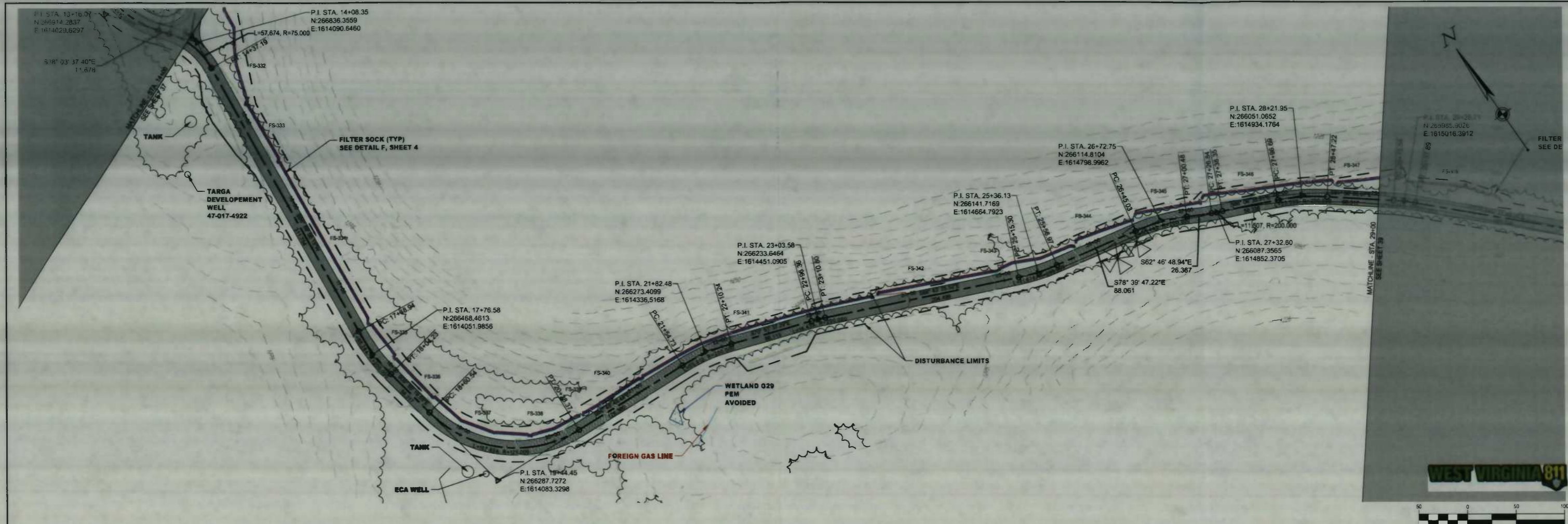
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**MEATHOUSE TO OX11 WATERLINE**  
**TAR-3A PLAN AND PROFILE**  
STATION(S): 0+00 TO 14+00

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JOB NO.: 750589  
DESIGN: BEM  
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CHECKED: BJM  
SHEET NO.  
**37 of 57**

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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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**MEATHOUSE TO OX11 WATERLINE**

TAR-3A PLAN AND PROFILE

STATION(S): 14+00 TO 29+00

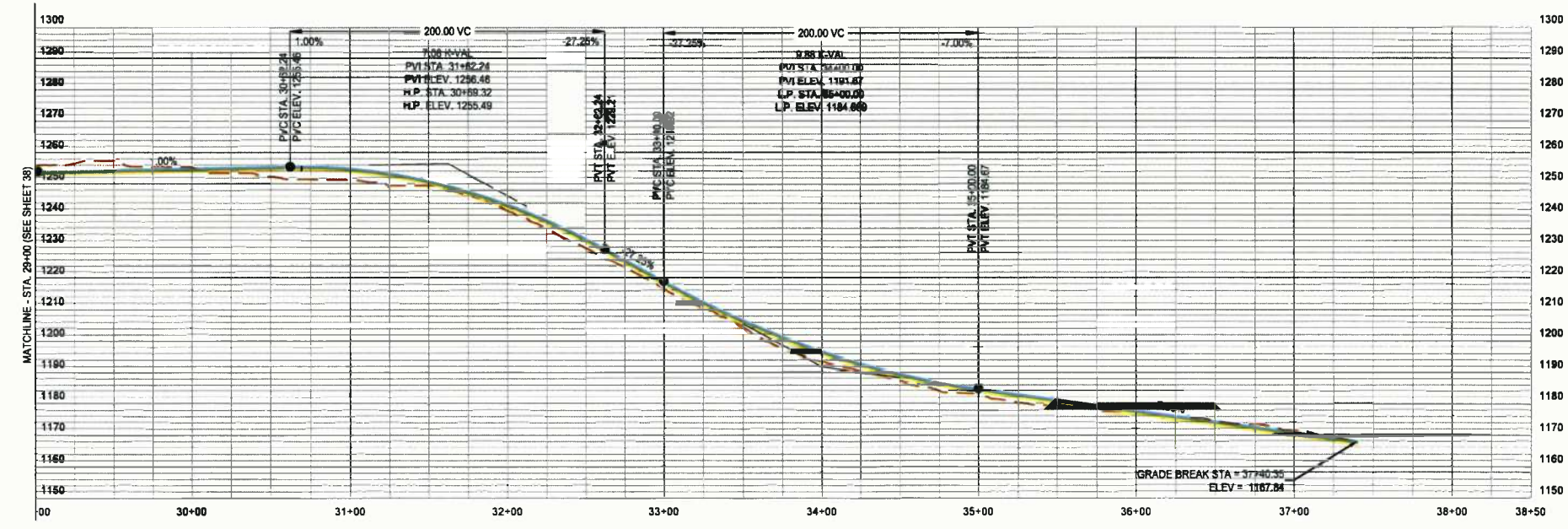
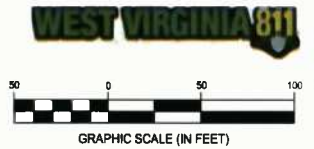
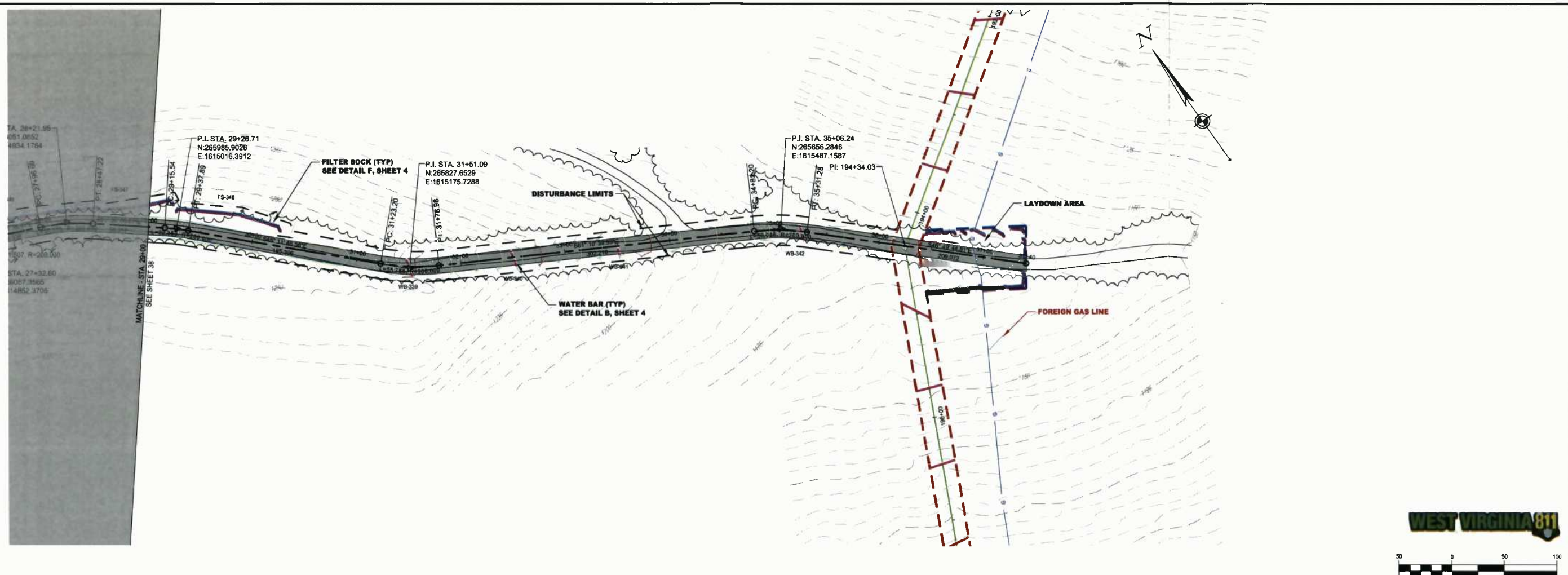
**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE: 07/29/14  
JOB NO.: 750589  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.

**38 of 57**

- LEGEND**
- PIPE METALL BY OPEN CUT
  - PIPE METALL BY TRENCH
  - TEMPORARY EROSION CONTROL
  - TEMPORARY EROSION CONTROL
  - BLIND ELECTRIC
  - OVERHEAD LINE
  - WATER LINE
  - FENCE
  - PROPERTY LINE
  - 1/4" DISTRICT LINE
  - COUNTY LINE
  - CL ROAD
  - EDGE OF ROAD
  - TITLELINE
  - STRIPING
  - 6" FILTER SOCK (FS)
  - 12" FILTER SOCK (FS)
  - 18" FILTER SOCK (FS)
  - SUPER BILT FENCE (SBF)
  - BILT FENCE
  - WATER BARRIERS
  - TRENCH PLUG
  - PROPOSED TEMPORARY ACCESS ROAD
  - PROPOSED TEMPORARY ACCESS ROAD
  - PERMITS
  - EXISTING PROPERTY
  - POTENTIAL ROOST FREE ZONE



**LEGEND**

- PPC METAL BY OPEN CUT
- PPC METAL BY BORE
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- LOD
- BURIED ELECTRIC
- OVERHEAD LINE
- WATERLINE
- FENCE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TRAILLINE
- STICELINE
- 4" FILTER BOCK (F4)
- 12" FILTER BOCK (F12)
- 18" FILTER BOCK (F18)
- SURF BEL. (S18) (S24)
- LD
- WATER BAR (WB)
- FRENCH RIG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PERMITS BE LANDS
- PERMITS LANDS
- KEEP OFF PROPERTY
- POTENTIAL ROCKET TRAFF. (PT)

TAR-3A PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

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DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION



**MEATHOUSE TO OX11 WATERLINE**

**TAR-3A PLAN AND PROFILE**

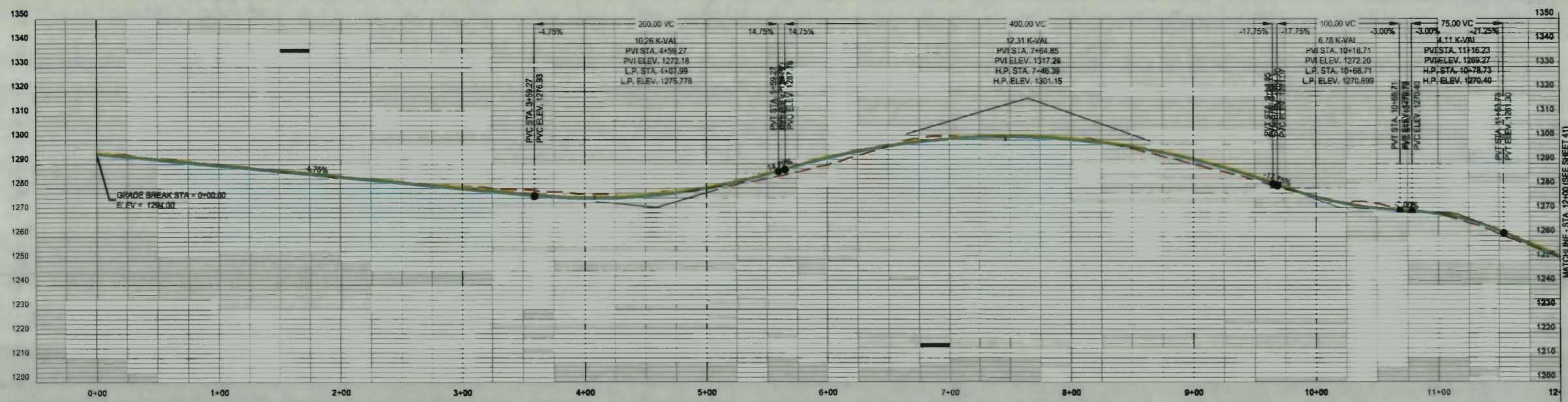
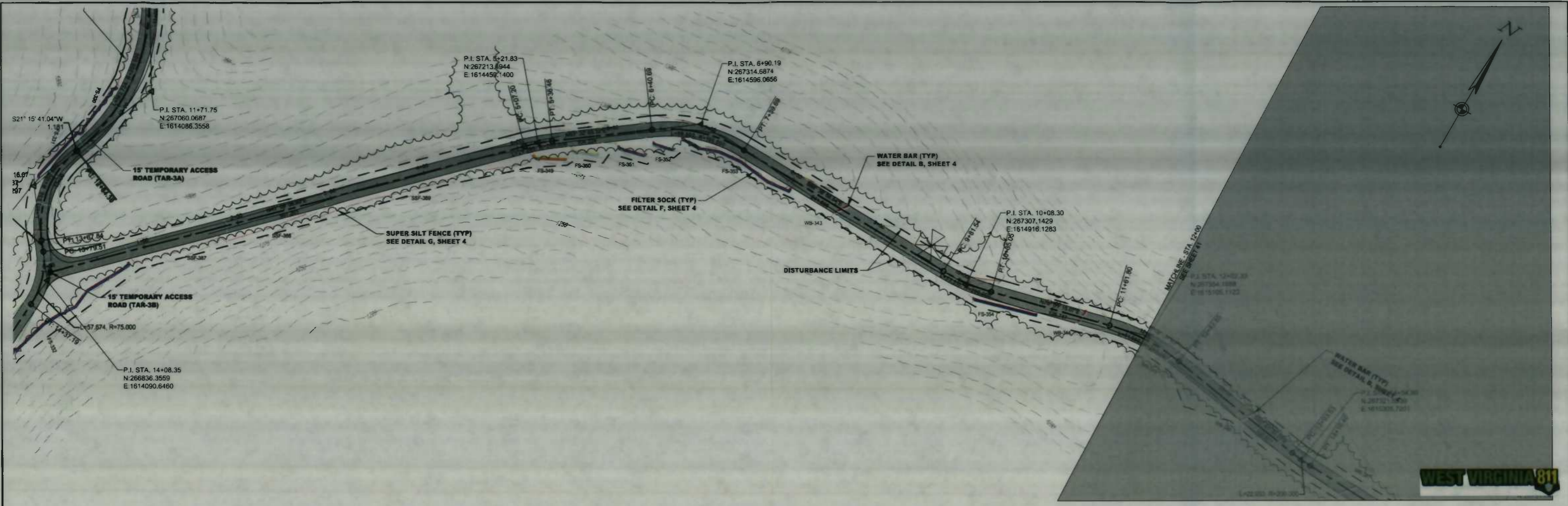
STATION(S): 29+00 TO 37+40

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
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TAR-3B PROFILE  
Scale: 1" = 50' Horiz., 1" = 25' Vert.

**LEGEND**

- PIPE METAL BY OPEN CUT
- PIPE METAL BY BORING
- PERMANENT BASEMENT
- TEMPORARY BASEMENT
- LOAD
- BURIED ELECTRIC
- OVERHEAD LINE
- WATER LINE
- FENCE
- PROPERTY LINE
- ADJACENT LINE
- COUNTY LINE
- EL. ROAD
- EDGE OF ROAD
- TREELINE
- STRIPES
- 12" FILTER SOCK (FS)
- 18" FILTER SOCK (FS)
- 18" FILTER SOCK (FS)
- SUPER SILT FENCE (SBF)
- SILT FENCE
- WETLANDS
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- WETLANDS
- KEEP OFF PROPERTY
- POTENTIAL ROOT TREE (PRT)

**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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MEATHOUSE TO OX11 WATERLINE

TAR-3B PLAN AND PROFILE

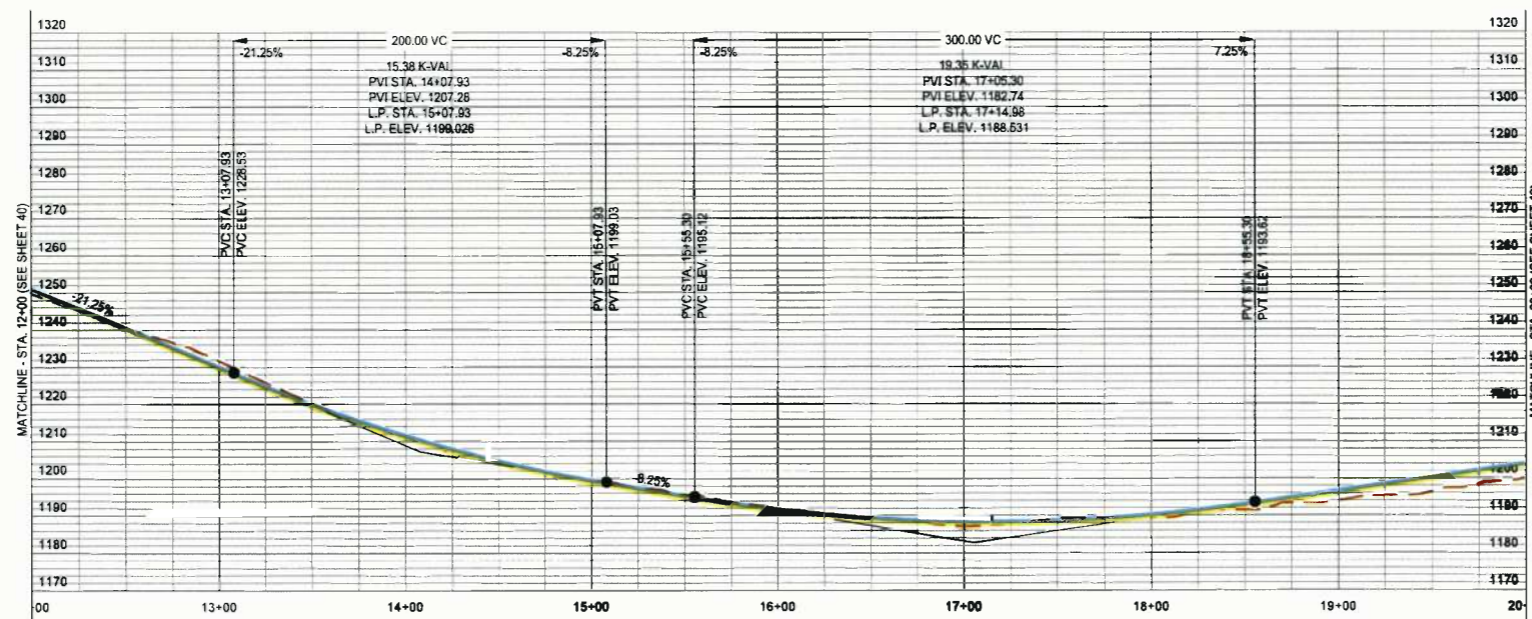
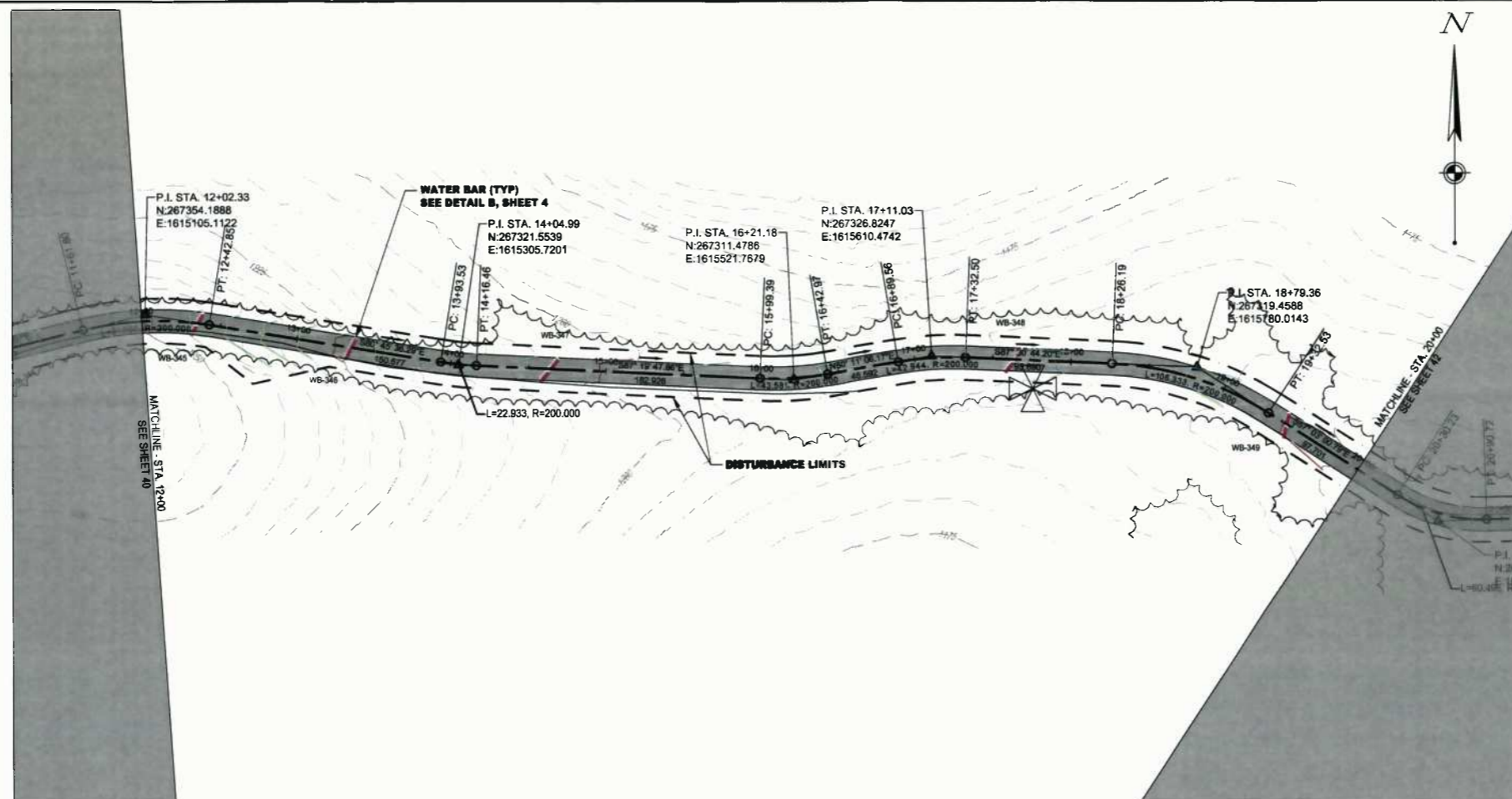
STATION(S): 0+00 TO 12+00

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	40 of 57

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TAR-3B PROFILE  
Scale: 1" = 50' Horiz.; 1" = 25' Vert.

LEGEND

- PVC METAL BY OPEN CUT
- PVI METAL BY BOIL
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- LOD
- BURIED ELECTRIC
- OVERHEAD ELECTRIC
- WATER LINE
- FENCE
- TAX DISTRICT LINE
- PROPERTY LINE
- TAX DISTRICT LINE
- COUNTY LINE
- CL ROAD
- EDGE OF ROAD
- TROUBLE
- STAKE
- 8" FILTER BOCK (1:8)
- 12" FILTER BOCK (1:8)
- 18" FILTER BOCK (1:8)
- 24" FILTER BOCK (1:8)
- BELT FENCE
- WATER BAR (TYP)
- TRENCH FLAG
- PROPOSED PERMANENT ACCESS ROAD
- PROPOSED TEMPORARY ACCESS ROAD
- PAVING AS LANE
- PEW METAL/SHIELD
- KEEP OFF PROPERTY
- POTENTIAL ROOT TREE (PRT)

IFC

07/29/14  
DATE

SUMMARY OF MATERIALS

MIRKR #	QTY.	DESCRIPTION

REFERENCE DRAWINGS

DWG.	DESCRIPTION

REVISIONS

NO.	DATE	DESCRIPTION



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MEATHOUSE TO OX11 WATERLINE

TAR-3B PLAN AND PROFILE

STATION(S): 12+00 TO 20+00



200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE: 07/29/14

JOB NO.: 750589

DESIGN: BEM

DRAWN: BEM

CHECKED: BJM

SHEET NO.

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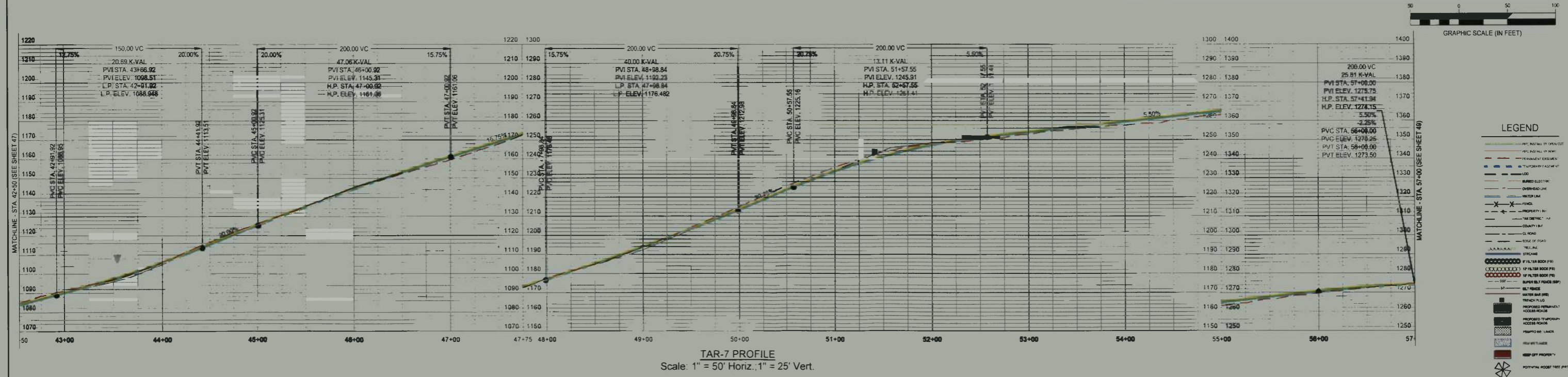
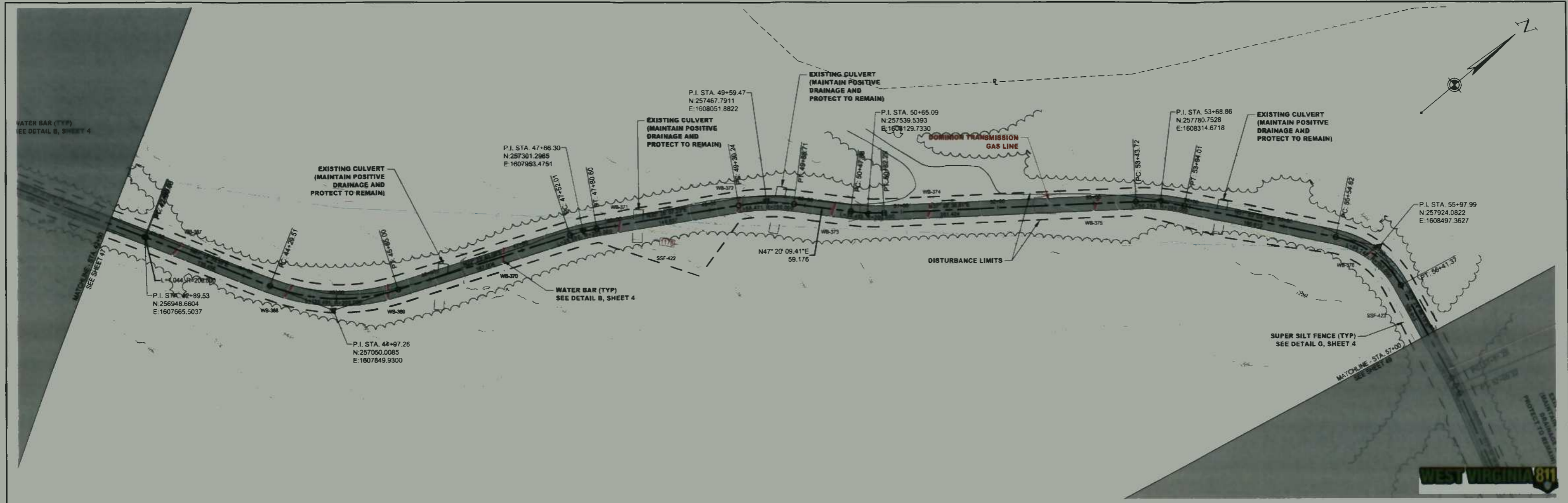












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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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MEATHOUSE TO OX11 WATERLINE

TAR-7 PLAN AND PROFILE

STATION(S): 42+50 TO 57+00

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE: 07/29/14  
JOB NO.: 750589  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
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MEATHOUSE-OX11 WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-101	8	14	45	140	37	177+50
FS-102	8	24	32	80	37	177+50
FS-103	8	24	43	40	9	177+75
FS-104	8	26	53	60	13	177+75
FS-105	8	26	39	60	17	178+00
FS-106	8	28	31	60	14	178+00
FS-106A	8	17	32	100	12	178+50
FS-107	8	10	29	200	14	178+50
FS-108	8	10	30	201	58	188+50
FS-109	8	10	31	202	32	194+20
FS-110	8	10	32	203	8	194+20
FS-111	8	10	33	204	16	194+20
FS-112	8	10	34	205	15	194+20
FS-113	8	10	35	206	16	194+20
FS-114	8	10	36	207	24	194+40
FS-115	8	10	37	208	31	194+75
FS-116	8	10	38	209	26	194+75
FS-117	8	10	39	210	52	194+75
FS-118	8	10	40	211	35	201+75
FS-119	8	10	41	212	88	202+00
FS-120	12	29	62	75	20	219+30
FS-121	12	27	62	75	34	219+50
FS-122	8	25	59	80	26	220+00
FS-122A	8	23	58	80	45	220+50
FS-123	8	21	64	80	41	220+75
FS-123A	8	21	52	80	119	221+00
FS-124	8	17	48	100	34	222+00
FS-125	8	18	44	100	28	222+50
FS-126	8	15	40	140	45	223+00
FS-127	8	14	33	140	22	223+25
FS-128	8	14	34	140	44	223+50
FS-129	8	19	32	100	19	223+75
FS-130	8	24	42	80	20	224+00

MEATHOUSE-OX11 WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-131	8	30	51	60	16	224+25
FS-132	12	34	61	60	14	224+40
FS-133	12	38	63	60	34	224+60
FS-134	8	35	57	60	15	224+80
FS-135	8	30	54	60	25	225+00
FS-136	8	26	53	60	45	225+50
FS-137	8	20	49	100	111	226+00
FS-138	8	24	49	80	28	227+00
FS-139	8	28	48	60	26	227+20
FS-140	8	31	46	60	44	227+50
FS-141	8	34	47	60	41	228+00
FS-142	8	30	53	60	33	228+25
FS-143	8	32	65	60	55	228+75
FS-144	18	30	77	90	18	229+00
FS-145	18	29	90	90	13	229+25
FS-146	18	31	90	80	21	229+50
FS-147	18	31	90	80	23	229+70
FS-148	18	31	90	80	20	230+00
FS-149	18	31	89	80	14	230+25
FS-150	18	24	104	110	18	231+25
FS-151	12	24	88	100	16	231+50
FS-152	8	23	74	80	36	232+00
FS-153	8	22	68	80	46	232+50
FS-154	8	22	67	80	15	232+70
FS-155	8	27	67	60	14	232+90
FS-156	8	28	59	60	21	233+00
FS-157	8	26	60	60	15	233+25
FS-158	8	25	55	80	15	233+50
FS-159	8	22	31	80	59	234+00
FS-160	8	6	11	200	29	234+50
FS-161	8	13	108	140	88	241+00
FS-162	12	21	118	100	47	242+50
FS-163	8	21	41	80	77	243+50

MEATHOUSE-OX11 WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-164	8	28	30	60	51	249+00
FS-165	8	16	16	100	31	249+50
FS-166	18	29	81	90	55	258+00
FS-167	18	30	78	90	43	260+75
FS-168	18	32	77	80	17	261+00
FS-169	18	36	79	80	23	261+30
FS-170	18	35	79	80	22	261+60
FS-171	18	37	77	80	22	261+80
FS-172	18	36	81	80	23	262+00
FS-173	18	30	90	90	24	262+25
FS-174	18	25	104	110	57	262+50
FS-175	18	30	90	90	27	263+00
FS-176	18	30	90	90	41	263+50
FS-177	8	28	41	60	17	263+70
FS-178	8	29	49	60	13	263+85
FS-179	12	29	66	75	13	264+00
FS-180	18	29	84	90	12	264+25
FS-181	18	25	106	110	13	264+50
FS-182	18	21	135	110	19	265+70
FS-183	8	21	100	80	19	265+90
FS-184	8	48	60	40	17	278+00
FS-185	18	46	59	55	13	278+15
FS-186	12	39	63	75	13	278+25
FS-187	8	34	60	60	21	278+50
FS-188	8	31	52	60	16	278+65
FS-189	8	30	49	60	15	278+85
FS-190	8	27	42	60	17	279+00
FS-191	8	22	42	80	16	279+30
FS-192	8	23	43	80	19	279+60
FS-193	8	17	62	100	147	280+00
FS-194	12	25	86	100	34	281+25
FS-195	8	7	67	200	99	298+00
FS-196	8	8	71	200	22	298+60
FS-197	8	22	39	80	38	300+50

\*WATER BAR SPACING IS BASED ON THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL TABLE II-8: SPACING OF RIGHT OF WAY DIVERSIONS. SOME WATER BARS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.

\*FILTER SOCK DESIGN BASED ON THE TABLE FOUND IN THE FILTREXX LOW IMPACT DESIGN MANUAL, VERSION 8, SECTION 1: EROSION & SEDIMENT CONTROL, PAGE 324.

**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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**MEATHOUSE TO OX11 WATERLINE**

**EROSION AND SEDIMENT CONTROL TABLES**

STATION(S): N/A

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
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SHEET NO.	51 of 57

MEATHOUSE-0X11 WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-198	8	18	34	100	31	301+00
FS-199	8	17	30	100	39	301+50
FS-200	8	12	22	140	133	302+00
FS-201	8	3	18	400	29	303+50
FS-202	8	19	36	100	77	306+00
FS-203	8	21	61	80	24	308+25
FS-204	8	22	73	80	64	308+50
FS-205	8	19	54	100	29	307+00
FS-206	8	15	37	140	20	307+40
FS-207	8	9	30	200	15	307+80
FS-208	8	1	15	600	45	308+00
FS-209	8	11	18	140	45	308+40
FS-210	8	17	48	100	37	308+70
FS-211	8	11	67	140	18	309+00
FS-212	8	11	64	140	19	309+30
FS-213	8	12	72	140	13	309+50
FS-214	8	8	161	200	15	318+75
FS-215	8	9	94	200	30	317+00
FS-216	8	6	88	200	39	317+25
FS-217	8	10	85	200	20	317+60
FS-218	8	9	89	200	80	318+00
FS-219	8	1	14	600	119	318+00
FS-220	8	5	21	400	29	319+00
FS-221	8	7	94	200	121	319+00
FS-222	8	11	86	140	101	323+00
FS-223	8	12	53	140	106	328+00
FS-224	8	17	42	100	46	329+00
FS-225	8	11	26	140	50	329+50
FS-226	8	32	29	60	30	330+00
FS-227	8	13	416	140	28	324+40
FS-228	8	22	51	80	97	324+40
FS-229	8	18	62	100	46	324+40
FS-230	8				17	324+50

MEATHOUSE-0X11 WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-231	8	19	89	100	22	324+70
FS-232	8	21	94	80	17	324+90
FS-233	18	25	105	110	21	325+00
FS-234	12	32	75	75	45	329+50
FS-235	8	33	57	80	38	330+00
FS-236	8	37	51	80	18	330+25
FS-237	8	32	51	80	15	330+40
FS-238	8	33	48	80	10	330+80
FS-239	8	21	41	80	26	331+75
FS-240	8	17	42	100	24	332+00
FS-241	8	15	47	140	34	332+40
FS-242	8	16	49	100	41	332+75
FS-243	8	17	51	100	20	333+00
FS-244	8	23	58	80	17	333+25
FS-245	8	24	66	80	20	333+50
FS-246	8	27	73	86	14	333+80
FS-247	8	11	30	140	20	337+75
FS-248	8	10	29	200	49	338+00
FS-249	8	5	28	400	61	338+50
FS-250	8	12	61	140	111	340+00
FS-251	8	7	73	200	86	341+00
FS-252	8	7	81	200	18	341+25
FS-253	8	8	75	200	21	341+50
FS-254	8	9	79	200	17	341+75
FS-255	8	10	82	200	19	342+00
FS-256	8	11	70	140	16	342+25
FS-257	8	8	65	200	26	342+50
FS-258	8	5	41	400	43	343+00
FS-259	12	51	43	50	30	363+80
FS-260	12	42	44	50	30	364+00
FS-261	8	35	43	60	29	364+25
FS-262	8	30	38	60	22	364+50
FS-263	8	31	38	60	23	364+75

MEATHOUSE-0X11 WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-264	8	33	41	80	30	365+00
FS-265	8	36	40	80	74	365+50
FS-266	8	36	42	80	26	366+00
FS-267	8	36	42	80	85	367+00
FS-268	12	43	50	50	80	368+00
FS-269	18	41	61	80	20	371+00
FS-270	8	39	55	60	27	371+50
FS-271	8	37	48	80	19	371+65
FS-272	8	33	42	80	15	371+80
FS-273	8	28	21	80	12	372+00
FS-274	8	12	34	140	22	372+20
FS-275	12	29	75	75	15	380+90
FS-276	12	29	63	75	22	381+00
FS-277	12	29	65	75	18	381+40
FS-278	12	29	65	75	20	381+50
FS-279	8	25	63	80	11	381+75
FS-280	8	19	62	100	11	381+90
FS-281	8	16	65	100	10	382+10
FS-282	8	11	40	200	78	404+00
FS-283	8	19	73	100	19	405+75
FS-284	8	19	80	100	24	406+00
FS-285	8	19	80	100	40	406+25
FS-286	8	20	92	100	72	407+00
FS-287	18	23	110	110	100	408+00
FS-288	18	20	140	140	18	408+80
FS-289	18	19	138	140	13	409+10
FS-290	8	4	30	400	68	429+00

\*WATER BAR SPACING IS BASED ON THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL TABLE II-B: SPACING OF RIGHT OF WAY DIVERSIONS. SOME WATER BARS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.

\*FILTER SOCK DESIGN BASED ON THE TABLE FOUND IN THE FILTREX LOW IMPACT DESIGN MANUAL, VERSION 8, SECTION 1: EROSION & SEDIMENT CONTROL, PAGE 324.

**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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**MEATHOUSE TO OX11 WATERLINE**

**EROSION AND SEDIMENT CONTROL TABLES**

STATION(S):                      N/A

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE: 07/29/14  
JOB NO.: 750589  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BJM  
SHEET NO.  
**52 of 57**

TAR-1 WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-291	8	3	20	400	216	16+00
FS-292	8	2	21	401	315	16+50
FS-293	8	3	22	402	88	17+25
FS-294	8	3	23	403	271	18+50
FS-295	8	3	24	404	180	19+00
FS-296	12	27	65	75	70	21+50
FS-297	8	13	54	140	223	27+50
FS-298	8	1	33	600	96	29+00
FS-299	8	6	50	200	77	29+75
FS-300	8	5	48	400	86	30+50
FS-301	8	9	60	200	107	31+50
FS-302	8	4	37	400	180	33+00
FS-303	8	1	41	600	123	34+50
FS-304	8	1	47	600	165	36+00
FS-305	8	2	33	600	63	37+00
FS-306	8	11	75	140	459	40+00
FS-307	8	12	70	140	108	42+50
FS-308	8	8	75	200	193	44+00
FS-309	8	6	72	200	87	45+50
FS-310	8	9	66	200	196	47+00
FS-311	8	15	55	140	28	56+75
FS-312	12	18	120	125	95	78+25
FS-313	8	15	59	140	82	79+25
FS-314	8	16	95	100	105	80+50
FS-315	18	23	105	110	93	93+50
FS-316	8	15	66	140	58	94+00
FS-317	8	10	40	200	34	94+50
FS-318	8	1	25	600	76	95+00
FS-319	18	28	85	90	32	106+00
FS-320	8	22	54	80	29	106+50
FS-321	8	1	16	600	125	107+50
FS-322	8	8	14	200	119	107+50
FS-323	8	4	23	400	113	109+00

TAR-1 WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-324	8	20	132	100	33	112+00
FS-325	18	28	91	90	168	135+00
FS-326	8	4	77	400	57	136+00

TAR-3A WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-327	8	9	10	11	267	7+00
FS-328	8				283	7+00
FS-329	8	10	43	200	79	9+00
FS-330	8	8	40	200	60	12+00
FS-331	8	9	34	200	67	13+00
FS-332	8	16	88	100	155	14+00
FS-333	8	10	64	200	70	15+00
FS-334	8	7	61	200	194	16+50
FS-335	8	1	46	600	48	17+75
FS-336	8	5	45	400	57	18+25
FS-337	8	4	48	400	114	19+00
FS-338	8	3	41	400	57	20+00
FS-339	8	6	44	200	23	20+50
FS-340	8	3	42	400	52	21+00
FS-341	8	20	91	100	256	22+50
FS-342	8	14	43	140	128	24+25
FS-343	8	5	33	400	64	25+50
FS-344	8	4	35	400	66	26+25
FS-345	8	11	28	140	73	26+75
FS-346	8	15	26	140	140	28+00
FS-347	8	3	30	400	72	29+00
FS-348	8	4	24	400	107	29+75

TAR-3B WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-349	18	25	109	110	38	5+25
FS-350	12	25	90	100	30	5+75
FS-351	8	22	70	100	32	6+25
FS-352	8	19	57	100	26	6+50
FS-353	8	11	41	140	129	7+50
FS-354	8	5	29	400	70	10+50
FS-355	8	5	56	400	67	25+50
FS-356	8	5	57	400	66	28+00
FS-357	8	5	58	400	41	28+50
FS-358	8	5	59	400	61	29+00

TAR-7 WATERLINE FILTER SOCK SIZING CHART*						
SOCK #	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION
FS-359	8	29	43	60	109	65+25
FS-360	8	1	27	600	172	66+50
FS-361	8	5	104	400	275	71+00

\*WATER BAR SPACING IS BASED ON THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL TABLE II-8: SPACING OF RIGHT OF WAY DIVERSIONS. SOME WATER BARS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.

\*FILTER SOCK DESIGN BASED ON THE TABLE FOUND IN THE FILTREXX LOW IMPACT DESIGN MANUAL, VERSION 8, SECTION 1: EROSION & SEDIMENT CONTROL, PAGE 324.

 07/29/14 DATE	<b>SUMMARY OF MATERIALS</b> <table border="1"> <thead> <tr> <th>MRKR #</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	MRKR #	QTY.	DESCRIPTION																																		<b>REFERENCE DRAWINGS</b> <table border="1"> <thead> <tr> <th>DWG.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DWG.	DESCRIPTION																							<b>REVISIONS</b> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION																																		 CREATION to COMPLETION www.cesoinc.com Engineering • Architecture • Survey • Construction Mgt • Environmental	<b>MEATHOUSE TO OX11 WATERLINE</b>  <b>EROSION AND SEDIMENT CONTROL TABLES</b>  STATION(S):                      N/A	  200 EVERGREENE DRIVE WAYNESBURG, PA 15370	DATE: 07/29/14 JOB NO.: 750589 DESIGN: BEM DRAWN: BEM CHECKED: BJM SHEET NO. <b>53 of 57</b>
	MRKR #	QTY.	DESCRIPTION																																																																																																				
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MEATHOUSE-OX11 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
4+61	4+76	16	100
5+63	5+72	18	100
6+67	6+68	18	100
7+64	7+69	28	75
8+39	8+42	28	75
9+12	9+14	29	75
9+85	9+89	29	75
10+55	10+63	29	75
11+33	11+36	50	75
12+07	12+10	50	75
12+83	12+84	40	75
13+49	13+61	40	75
14+24	14+32	40	75
15+44	15+48	7	75
19+28	19+64	33	75
22+69	22+87	25	75
28+04	28+57	10	175
39+21	39+35	16	100
40+51	40+80	13	175
53+08	53+35	17	100
53+72	53+96	17	100
54+75	54+92	17	100
55+51	55+62	30	75
56+21	56+34	30	75
60+90	61+07	18	100
62+82	62+87	26	75
63+82	62+87	26	75
64+55	64+65	26	75
65+30	65+42	26	75
65+75	65+82	26	75
75+06	75+39	25	75
75+83	76+28	25	75
76+68	77+06	25	75

MEATHOUSE-OX11 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
80+12	80+32	15	125
81+48	81+60	15	125
82+74	82+80	15	125
83+99	84+16	20	100
85+03	85+14	20	100
86+06	86+18	11	125
87+49	87+74	11	125
88+82	88+04	15	125
89+53	89+86	15	125
90+39	90+45	31	75
91+16	91+20	42	75
91+92	91+94	42	75
92+67	92+77	42	75
93+45	93+50	54	75
94+98	95+29	15	125
95+85	95+97	45	75
96+59	96+65	45	75
97+31	97+39	45	75
98+02	98+14	38	75
98+73	98+90	38	75
99+38	99+64	26	75
100+07	100+39	26	75
100+91	101+07	24	75
101+54	101+84	24	75
102+15	102+55	27	75
102+94	103+29	27	75
103+70	103+98	27	75
104+41	104+69	31	75
105+16	105+38	31	75
109+47	109+54	32	75
110+22	110+28	32	75
110+94	110+95	32	75
111+67	111+75	38	75

MEATHOUSE-OX11 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
112+27	112+34	38	75
116+68	116+79	34	75
117+45	117+51	34	75
118+07	118+14	16	100
118+45	118+60	16	100
119+48	119+54	20	100
121+44	121+73	25	75
123+80	124+06	19	100
124+44	124+82	19	100
124+91	124+94	33	75
125+56	125+74	33	75
130+13	130+29	26	75
130+90	131+05	26	75
132+25	132+46	20	100
133+06	133+16	19	100
133+77	133+94	19	100
134+83	134+92	19	100
135+83	136+05	19	100
136+89	137+04	25	75
137+66	137+81	25	75
138+44	138+54	25	75
139+16	139+36	40	75
139+76	139+82	37	75
140+49	140+58	37	75
141+23	141+33	37	75
141+99	142+10	37	75
142+73	142+81	30	75
143+48	143+57	30	75
144+23	144+30	30	75
144+73	144+86	30	75
148+73	148+91	27	75
149+52	149+67	27	75
150+22	150+40	27	75

MEATHOUSE-OX11 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
157+52	157+74	26	75
158+38	158+44	26	75
159+12	159+18	38	75
159+85	159+98	38	75
160+61	160+71	38	75
161+32	161+36	38	75
162+14	162+36	26	75
162+96	163+02	26	75
163+67	163+81	26	75
164+44	164+53	26	75
165+14	165+30	26	75
165+84	166+03	26	75
166+61	166+76	33	75
167+35	167+49	33	75
168+04	168+25	40	75
168+80	168+96	40	75
169+55	169+72	40	75
170+34	170+46	40	75
171+03	171+24	40	75
176+70	176+84	14	125
177+71	177+92	14	125
178+63	178+70	30	75
179+37	179+48	30	75
180+13	180+24	38	75
180+90	181+02	23	75
181+66	181+79	23	75
182+40	182+55	35	75
183+16	183+29	25	75
183+90	184+09	25	75
184+72	184+81	25	75
185+51	185+59	38	75
186+28	186+28	38	75
187+01	187+06	38	75
187+76	187+83	44	75

MEATHOUSE-OX11 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
189+04	189+11	50	75
189+79	189+84	50	75
190+53	190+61	50	75
191+23	191+36	42	75
191+96	192+08	38	75
192+74	192+79	38	75
193+51	193+53	38	75
194+86	195+05	29	75
195+69	195+72	29	75
196+42	196+46	42	75
197+17	197+25	42	75
197+93	198+02	42	75
198+72	198+75	42	75
199+44	199+57	42	75
200+24	200+30	25	75
200+94	201+15	25	75
203+03	203+05	47	75
203+72	203+81	47	75
204+44	204+56	47	75
207+31	207+40	50	75
208+05	208+13	50	75
208+76	208+95	32	75
209+44	209+76	25	75
218+17	218+24	42	75
218+92	218+97	42	75
234+57	234+69	22	75
235+18	235+49	22	75
235+90	236+17	22	75
241+59	241+75	24	75
243+80	243+85	24	75
244+52	244+61	24	75
245+23	245+36	24	75
246+00	246+09	27	75
246+74	246+86	27	75

\*WATER BAR SPACING IS BASED ON THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL TABLE II-8: SPACING OF RIGHT OF WAY DIVERSIONS. SOME WATER BARS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.  
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**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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**MEATHOUSE TO OX11 WATERLINE**

**EROSION AND SEDIMENT CONTROL TABLES**

STATION(S): N/A

200 EVERGREENE DRIVE  
 WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	<b>54 of 57</b>

MEATHOUSE-0X11 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
247+50	247+86	14	125
248+27	248+44	14	125
249+70	249+77	14	125
250+09	250+19	14	125
251+91	251+99	31	75
252+84	252+89	33	75
253+56	253+61	33	75
254+33	254+34	33	75
255+05	255+13	33	75
255+80	255+87	39	75
256+49	256+63	29	75
264+60	264+90	14	125
266+13	266+34	21	75
266+96	267+07	21	75
267+72	267+82	21	75
268+48	268+63	21	75
269+20	269+47	21	75
270+01	270+21	21	75
270+84	270+86	21	75
272+71	272+83	25	75
273+80	273+88	37	75
274+51	274+59	37	75
275+26	275+34	37	75
275+96	276+19	29	75
276+70	276+98	29	75
277+47	277+74	29	75
288+09	288+13	44	75
288+80	289+00	44	75
289+72	289+91	24	75
291+89	292+08	24	75
292+74	292+84	40	75
293+59	293+64	39	75
294+27	294+35	39	75

MEATHOUSE-0X11 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
295+02	295+11	39	75
295+77	295+85	39	75
296+36	296+68	10	175
298+78	299+25	9	175
303+97	304+09	14	125
304+92	305+30	14	125
309+57	309+87	13	125
311+37	311+62	8	175
315+39	315+61	4	300
330+88	331+15	14	125
335+18	335+41	25	75
335+97	336+17	25	75
336+76	337+00	25	75
343+33	343+65	9	175
345+17	345+35	28	75
345+97	346+07	28	75
346+71	346+84	19	100
347+76	347+79	19	100
348+48	348+61	24	75
349+23	349+38	24	75
350+02	350+10	24	75
350+76	350+89	24	75
351+54	351+60	25	75
352+26	352+44	25	75
354+77	354+77	50	75
355+32	355+39	50	75
356+02	356+11	34	75
356+76	356+86	34	75
357+48	357+61	34	75
358+20	358+36	38	75
358+93	359+08	38	75
359+64	359+79	38	75
360+35	360+50	27	75

MEATHOUSE-0X11 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
381+05	381+27	27	75
381+69	382+04	27	75
382+37	382+72	30	75
383+08	383+44	30	75
372+32	372+44	45	75
373+10	373+16	45	7
373+85	373+91	45	75
374+55	374+78	25	75
375+32	375+56	25	75
376+13	376+31	21	75
376+85	377+15	21	75
382+35	382+62	17	100
383+22	383+24	41	75
383+96	383+99	41	75
384+89	384+78	41	75
385+47	385+56	26	75
386+21	386+37	26	75
387+02	387+10	26	75
387+76	387+89	26	75
388+54	388+64	26	75
389+33	389+52	22	75
390+48	390+50	37	75
392+68	392+95	31	75
393+52	393+64	31	75
394+26	394+38	31	75
394+88	395+16	31	75
396+04	396+28	28	75
396+78	397+02	28	75
397+50	397+77	28	75
398+21	398+50	37	75
398+96	399+23	37	75
399+66	399+98	37	75
400+57	400+93	20	100

MEATHOUSE-0X11 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
401+53	401+85	20	100
402+28	402+52	30	75
403+08	403+19	15	125
404+49	404+62	15	125
409+23	409+38	21	75
410+22	410+39	21	75
411+00	411+06	30	75
411+74	411+82	30	75
412+51	412+52	54	75
413+24	413+26	54	75
413+86	413+89	38	75
414+84	414+89	38	75
415+60	415+64	38	75
417+24	417+25	36	75
417+61	417+65	36	75
418+29	418+42	36	75
419+00	419+14	36	75
419+80	419+87	36	75
420+48	420+60	33	75
421+25	421+34	33	75
421+98	422+01	33	75
422+63	422+77	30	75
423+28	423+59	30	75
424+01	424+29	31	75
424+76	425+01	31	75
425+43	425+76	31	75
426+17	426+56	31	75
426+89	427+30	31	75
427+68	427+94	31	75
429+76	430+02	18	100
430+86	430+97	18	100
431+54	431+88	18	100
432+53	432+71	37	75
433+29	433+45	37	75

MEATHOUSE-0X11 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
434+06	434+28	37	75
437+40	437+55	50	75
438+10	438+35	20	100
438+83	439+22	20	100
446+14	446+20	30	75
446+92	446+96	30	75
447+64	447+73	30	75

PAR-1 WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
5+39	5+41	14	125

TAR-1 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
0+88	0+95	5	300
3+85	3+93	14	125
5+16	5+19	14	125
8+34	8+40	12	125
9+62	9+66	20	100
10+65	10+69	15	125
11+89	11+94	15	125
13+15	13+21	15	125
20+15	20+24	7	175
59+40	59+45	20	100
60+41	60+46	20	100
61+41	61+48	20	100
62+44	62+50	14	125
63+69	63+76	14	125
109+58	109+66	14	125
110+85	110+91	20	100
123+56	123+65	9	175
125+35	125+40	18	100
126+33	126+39	18	100

\*WATER BAR SPACING IS BASED ON THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL TABLE II-8: SPACING OF RIGHT OF WAY DIVERSIONS. SOME WATER BARS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.  
\*FILTER SOCK DESIGN BASED ON THE TABLE FOUND IN THE FILTREXX LOW IMPACT DESIGN MANUAL, VERSION 8, SECTION 1: EROSION & SEDIMENT CONTROL, PAGE 324.

<b>IFC</b> <small>07/29/14 DATE</small>	<b>SUMMARY OF MATERIALS</b>	<b>REFERENCE DRAWINGS</b>	<b>REVISIONS</b>	<b>cesco</b> CREATION TO COMPLETION <a href="http://www.cesoinc.com">www.cesoinc.com</a> <small>Engineering • Architecture • Survey • Construction Mgt • Environmental</small>	<b>MEATHOUSE TO OX11 WATERLINE</b>  <b>EROSION AND SEDIMENT CONTROL TABLES</b>  STATION(S): <span style="float:right">N/A</span>	 <b>CONSOL ENERGY</b>  200 EVERGREENE DRIVE WAYNESBURG, PA 15370	DATE: 07/29/14					
	<small>MRKR #</small>	<small>QTY.</small>	<small>DESCRIPTION</small>				<small>DWG.</small>	<small>DESCRIPTION</small>	<small>NO.</small>	<small>DATE</small>	<small>DESCRIPTION</small>	<small>DESIGN:</small> BEM
												<small>DRAWN:</small> BEM
								<small>CHECKED:</small> BJM				
								<small>SHEET NO.</small>				
								55 of 57				

PAR-1 WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
5+38	5+41	14	125

TAR-1 WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
0+88	0+95	5	300
3+85	3+93	14	125
5+18	5+19	14	125
8+34	8+40	12	125
9+82	9+86	20	100
10+85	10+89	15	125
11+89	11+94	15	125
13+15	13+21	15	125
20+15	20+24	7	175
59+40	59+45	20	100
80+41	80+46	20	100
81+41	81+48	20	100
82+44	82+50	14	125
83+88	83+78	14	125
109+58	109+66	14	125
110+85	110+91	20	100
123+58	123+65	9	175
125+35	125+40	18	100
128+33	128+39	18	100
127+38	127+40	15	125
128+60	128+65	15	125
129+60	129+65	25	75
130+35	130+39	25	75
131+10	131+14	15	125
132+35	132+40	10	175
133+99	134+08	10	175
136+58	136+65	19	100
137+59	137+64	19	100
138+59	138+65	19	100

TAR-3A WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
1+87	1+74	14	125
2+94	2+99	14	125
4+22	4+27	13	125
5+45	5+52	13	125
31+48	31+54	20	100
32+49	32+53	20	100
33+48	33+51	20	100
35+24	35+30	10	175

TAR-3B WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
8+54	8+63	5	300
11+29	11+35	19	100
12+32	12+38	19	100
13+32	13+38	19	100
14+58	14+68	10	175
17+58	17+69	2	300
19+43	19+49	6	175
22+09	22+14	18	100
23+10	23+14	18	100
24+14	24+14	24	75
24+86	24+91	24	75
26+10	26+18	16	100
27+36	27+40	16	100
29+31	29+38	8	175

TAR-7 WATERLINE WATER BAR SPACING*			
STATION BEGIN	STATION END	% SLOPE (AVERAGE)	WATER BAR SPACING (FT)
2+37	2+45	12	125
3+83	3+88	12	125
4+88	4+94	10	175
6+60	6+69	3	300
9+55	9+69	1	300
37+21	37+28	17	100
38+22	38+28	17	100
39+48	39+52	14	125
40+75	40+78	14	125
41+99	42+05	12	125
43+22	43+28	12	125
44+48	44+53	19	100
45+52	45+55	15	125
46+76	46+82	15	125
48+02	48+06	15	125
49+27	49+32	22	75
50+28	50+31	22	75
51+27	51+32	7	175
53+00	53+06	7	175
55+91	55+98	2	300
62+33	62+38	15	125
63+58	63+62	15	125
67+92	67+98	18	100
69+15	69+21	18	100

\*WATER BAR SPACING IS BASED ON THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL FIELD MANUAL TABLE II-8: SPACING OF RIGHT OF WAY DIVERSIONS. SOME WATER BARS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.  
 \*FILTER SOCK DESIGN BASED ON THE TABLE FOUND IN THE FILTREXX LOW IMPACT DESIGN MANUAL, VERSION 8, SECTION 1: EROSION & SEDIMENT CONTROL, PAGE 324.

**IFC**

07/29/14  
DATE

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION

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**MEATHOUSE TO OX11 WATERLINE**

**EROSION AND SEDIMENT CONTROL TABLES**

STATION(S): N/A

**CONSOL ENERGY**

200 EVERGREENE DRIVE  
WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	56 of 57

EROSION AND SEDIMENT CONTROL BMP PRACTICES		
BMP	UNITS	QUANTITY
8" COMPOST FILTER SOCK	FT	15,890
12" COMPOST FILTER SOCK	FT	1,173
18" COMPOST FILTER SOCK	FT	1,215
SUPER SILT FENCE	FT	22,529
SILT FENCE	FT	568
STABILIZED CONSTRUCTION ENTRANCE	EA	15
TEMPORARY WATERBARS	EA	383
TIMBER MATS (10 FT WIDTH, ASSUME 8 FT SECTION LENGTHS)	LF	344
STREAM CROSSING - CRIBBING (SEE DETAIL SHEET #4)	EA	14
TOB TO TOB (PIPELINE)	LF	56
TOB TO TOB (ACCESS ROADS)	LF	6

PAR-1 EARTHWORK SUB-SUMMARY		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	368	CY
RAW FILL (EXIST. TO FINISHED GRADE)	532	CY
TOTAL DRIVE EARTHWORK	166 (IMPORT)	CY

TAR-3B EARTHWORK SUB-SUMMARY		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	957	CY
RAW FILL (EXIST. TO FINISHED GRADE)	964	CY
TOTAL DRIVE EARTHWORK	6 (IMPORT)	CY

TAR-1 EARTHWORK SUB-SUMMARY		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	5394	CY
RAW FILL (EXIST. TO FINISHED GRADE)	5229	CY
TOTAL DRIVE EARTHWORK	114 (SPOIL)	CY

TAR-6 EARTHWORK SUB-SUMMARY		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	331	CY
RAW FILL (EXIST. TO FINISHED GRADE)	274	CY
TOTAL DRIVE EARTHWORK	57 (SPOIL)	CY

TAR-3A EARTHWORK SUB-SUMMARY		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	1012	CY
RAW FILL (EXIST. TO FINISHED GRADE)	1080	CY
TOTAL DRIVE EARTHWORK	68 (IMPORT)	CY

TAR-7 EARTHWORK SUB-SUMMARY		
DESCRIPTION	QUANTITY	UNITS
ACCESS DRIVE		
RAW CUT (EXIST. TO FINISHED GRADE)	2463	CY
RAW FILL (EXIST. TO FINISHED GRADE)	2350	CY
TOTAL DRIVE EARTHWORK	113 (SPOIL)	CY

STREAM CROSSINGS - PIPELINE				
STREAM ID	TOB	TOB	LENGTH (LF)	TIMBER MAT LENGTH (LF)
STREAM 6	94+25	94+27	2	24
STREAM G53	114+64	114+65	1	16
STREAM G52	139+40	139+47	7	16
STREAM G50	161+49	161+55	6	16
STREAM G48	188+25	188+28	3	16
STREAM G44	202+76	202+80	4	16
STREAM G41	252+22	252+25	3	24
STREAM G36	271+07	271+10	3	16
STREAM G32	273+58	273+62	4	16
STREAM G31	289+53	289+56	3	16
STREAM G30	291+65	291+67	2	16
STREAM CC	354+31	354+34	3	40
STREAM ZZ	390+85	390+95	10	32
STREAM ZA	417+01	417+06	5	16
		TOTAL:	56	280

STREAM CROSSINGS - ACCESS ROADS				
STREAM ID	TOB	TOB	LENGTH (LF)	TIMBER MATS
STREAM G64 (TAR-7)	1+74	1+77	3	2X16'
STREAM G68 (TAR-7)	24+61	24+64	3	2X16'
		TOTAL:	6	64


WETLAND CROSSINGS - PIPELINE				
WETLAND ID	EDGE	EDGE	LENGTH (LF)	TIMBER MAT LENGTH (LF)
WETLAND E	94+18	94+35	17	24
		TOTAL:	17	24

ROAD CROSSINGS - PIPELINE				
ROAD	EOP	EOP	LENGTH (LF)	PAVED / UNPAVED
CR 13/3	162+04	162+08	4	UNPAVED
MAXWELL RIDGE RD (CR 13)	249+89	249+96	7	UNPAVED
CAIN RUN RD (CR 40)	355+05	355+15	10	UNPAVED
S FORK HUGHES RIVER RD (CR 19/11)	389+82	389+94	12	UNPAVED
S FORK HUGHES RIVER RD (CR 19/11)	417+41	417+49	8	UNPAVED
		TOTAL:	41	

<p><b>IFC</b></p> <p>07/29/14 DATE</p>	SUMMARY OF MATERIALS		REFERENCE DRAWINGS		REVISIONS	
	MRKR #	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO. DATE DESCRIPTION


  
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**MEATHOUSE TO OX11 WATERLINE**
  
**EARTHWORK AND QUANTITIES**
  
 STATION(S): N/A


  
 200 EVERGREENE DRIVE
   
 WAYNESBURG, PA 15370

DATE:	07/29/14
JOB NO.:	750589
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.	57 of 57



Edwin Wriston <doddridgecountyfpm@gmail.com>

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**FW: Floodplain Permit Application Status- Meathouse Fork-OX11 (Email 1 of 2)**

1 message

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**Natalie Hooton** <hooton@cesoinc.com>  
To: Edwin Wriston <doddridgecountyfpm@gmail.com>

Fri, Dec 19, 2014 at 1:47 PM

Good afternoon Mr. Wriston. With the holidays quickly approaching, I wanted to confirm that you had received the e-mails regarding the Meathouse Fork-OX11 project. We previously applied for the Doddridge County floodplain permit on July 31, 2014 and recently received all the necessary permits. The permits were originally e-mailed to you on December 11, 2014.

Could you please let us know if you require any additional information in order to provide a floodplain permit? Thank you for your assistance.

Hope you have a Merry Christmas!

Natalie

Natalie Hooton



CESO, Inc.

800 Bursca Dr. Suite 804

Bridgeville, PA 15017

P: (412) 221-2236 x 2009 | F: (412) 221-2267

Email: hooton@cesoinc.com | Website: www.cesoinc.com



---

**From:** Natalie Hooton  
**Sent:** Thursday, December 11, 2014 3:42 PM  
**To:** 'Edwin Wriston'  
**Subject:** FW: Floodplain Permit Application Status- Meathouse Fork-OX11 (Email 1 of 2)

Mr. Wriston- Please see the attached approved permits for Meathouse Fork-OX11. These are all of the permits requested for this project. Because this project is within the Limits of Disturbance of the EQTOX11 and Sherwood South projects, a separate USFWS approval was not needed; therefore, I have attached a copy of the USFWS approval for EQTOX11 and Sherwood South.

The DOH permits were too large to all fit in this email (and could not be optimized to a smaller size). The remaining permit will be sent in a separate e-mail directly following this one.

Please let me know if you need any further information or clarification. Additionally, we anticipate USACE for the EQTOX11 and Sherwood South lines before the end of the year.

Thank you!

Natalie

Natalie Hooton



CESO, Inc.

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Email: hooton@cesoinc.com | Website: www.cesoinc.com

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**From:** Natalie Hooton

**Sent:** Thursday, December 11, 2014 11:43 AM

**To:** 'Edwin Wriston'

**Subject:** RE: Floodplain Permit Application Status- Red-Orange Waterline

Good morning Mr. Wriston. I wanted to update you on the status of our three outstanding projects. We just received approval for EQT-OX11 and Sherwood South from the USFWS. We have submitted this approval to the USACE and are waiting for their approval. Additionally, the clients have decided to construct the Meathouse Fork-OX11 line within the Limits of Disturbance of the EQT-OX11 and Sherwood South projects which eliminates the need for separate USFWS approval for that project. We appreciate your patience and will get you the approvals as soon as possible.

Thank you for your understanding.

Natalie Hooton



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Email: hooton@cesoinc.com | Website: www.cesoinc.com

---

**From:** Natalie Hooton  
**Sent:** Thursday, November 13, 2014 9:54 AM  
**To:** 'Edwin Wriston'  
**Subject:** RE: Floodplain Permit Application Status- Red-Orange Waterline

Mr. Wriston- We are still waiting on approval from at least two agencies for EQT-OX11 and Meathouse Fork. I'll send everything to you as soon as I get them.

Thanks again,

Natalie Hooton



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800 Bursca Dr. Suite 804

Bridgeville, PA 15017

P: (412) 221-2236 x 2009 | F: (412) 221-2267

Email: hooton@cesoinc.com | Website: www.cesoinc.com

**From:** Edwin Wriston [mailto:doddridgecountyfpm@gmail.com]  
**Sent:** Thursday, November 13, 2014 9:48 AM  
**To:** Natalie Hooton  
**Subject:** Re: Floodplain Permit Application Status- Red-Orange Waterline

Natalie,

Perfect! You will have the approved permit within the hour!

Any word on the EQT to OX 11 and/or the Meathouse Fork to OX11 Waterline project permits? Those two projects are still pending as well...

On Thu, Nov 13, 2014 at 9:37 AM, Natalie Hooton <hooton@cesoinc.com> wrote:

Mr. Wriston- We have provided you with copies of all the required permits for this particular project. It is my understanding that the floodplain permit for Doddridge County is the only outstanding permit for the Red-Orange waterline project.

Thank you,

Natalie Hooton



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Email: hooton@cesoinc.com | Website: www.cesoinc.com

**From:** Edwin Wriston [mailto:doddridgecountyfpm@gmail.com]  
**Sent:** Thursday, November 13, 2014 9:28 AM  
**To:** Natalie Hooton  
**Subject:** Re: Floodplain Permit Application Status- Red-Orange Waterline

Natalie,

Are these all the additional needed permits? Any still outstanding other than the floodplain permit?

V/R,

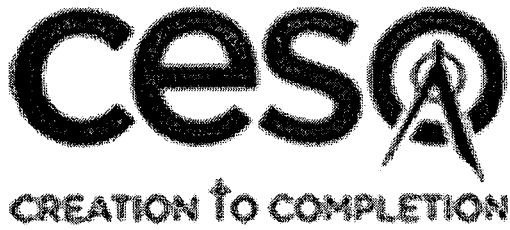
On Thu, Nov 13, 2014 at 8:40 AM, Natalie Hooton <hooton@cesoinc.com> wrote:

Good morning Mr. Wriston.

Per your request, I am attaching letters from the WV DEP, WVDNR (Wildlife Resources Section), WVDNR (Office of Land and Streams), USACE, and the USFWS regarding the Red-Orange line. Originally, a floodplain permit application with associated floodplain fees for this waterline was submitted to your office on July 29, 2014. Please let me know if you will require any additional documentation or if this will satisfy the requirements for you to issue a permit for the Red-Orange waterline.

Thank you for your time and assistance.

Natalie Hooton



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--

Edwin L. "Bo" Wriston, Floodplain Manager

Doddridge County Commission

118 East Court Street

West Union, WV 26456

Work Phone: 1-304-873-2631

Mobile Phone: 1-304-629-3735

Fax: 1-304-873-1840

[doddridgecountyfpm@gmail.com](mailto:doddridgecountyfpm@gmail.com)

[www.doddridgecounty.wv.gov](http://www.doddridgecounty.wv.gov)

--

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--

Edwin L. "Bo" Wriston, Floodplain Manager

Doddridge County Commission

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**8 attachments**



**2014-07-14 WVDNR RTE Response.pdf**  
77K



**2014-09-09 Meathouse-OX11 - WVDEP Permit #WVR310356 - Approved.pdf**  
68K



**MeathouseForkOX11\_RightofEntry\_LS-14-VI\_09-1138.pdf**  
124K



**MeathouseForkOX11\_RightofEntry\_LS-14-VI\_09-1139.pdf**  
153K



**MeathouseForkOX11\_RightofEntry\_P-14-VI\_09-1137.pdf**  
792K



**USFWS\_Approval\_EQTtoOX11andSherwoodSouthPipelines .pdf**  
699K



**2014-11-21 Meathouse to OX11 Utility approvals (DOH).pdf**  
6420K

 **2014-11-21 Oxford 11 to Meathouse Approach Approvals (2DOH).pdf**  
12275K





**Attachment D- Project Location-  
Adjacent and/or Affected Landowners**

TAX ID: 09-06-0003-0001-0001-0000

NAME OF SURFACE OWNER/OWNERS: George Adrian et al.

ADDRESS OF PROPERTY: Off of Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 95A, New Milton, WV 26411

---

TAX ID: 09-06-0007-0001-0000-0000

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: 3 Route 40 Over, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351

---

TAX ID: 09-07-0006-0001-0000-0000

NAME OF SURFACE OWNER/OWNERS: Justin Henderson

ADDRESS OF PROPERTY: Route 13, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 476, West Union, WV 26456

---

TAX ID: 09-06-0003-0002-0000-6001

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: Route 23, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351

---

TAX ID: 09-08-0023-0002-0000-0000

NAME OF SURFACE OWNER/OWNERS: Mary H. Holland

ADDRESS OF PROPERTY: Route 4, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 425, West Union, WV 26456

---

TAX ID: 09-06-0004-0009-0000-6001

NAME OF SURFACE OWNER/OWNERS: Haessly Hardwood Lumber Co.

ADDRESS OF PROPERTY: Route 18 Blandville, New Milton, WV, 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1Box 185, Marietta, OH 45750



**Attachment D- Project Location-  
Adjacent and/or Affected Landowners**

TAX ID: 09-06-0003-0007-0001-0000

NAME OF SURFACE OWNER/OWNERS: Denise Donahoo

ADDRESS OF PROPERTY: Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: RR 1 Box 25DD, New Milton, WV 26411

---

TAX ID: 09-06-0003-0007-0002-3001

NAME OF SURFACE OWNER/OWNERS: Timothy & Rebecca Clyne

ADDRESS OF PROPERTY: Off Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 14, West Union, WV 26456

---

TAX ID: 09-06-0003-0006-0001-0000

NAME OF SURFACE OWNER/OWNERS: Timothy & Rebecca Clyne

ADDRESS OF PROPERTY: Off Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 14, West Union, WV 26456

---

TAX ID: 09-06-0003-0011-0000-0000

NAME OF SURFACE OWNER/OWNERS: Lewis Frederick Maxwell

ADDRESS OF PROPERTY: Lick Run Route 40, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 26B, New Milton, WV 26411

---

TAX ID: 09-06-0003-0012-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert Gayle Maxwell

ADDRESS OF PROPERTY: Off Route 13/Right Hand Fork Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 28 A, New Milton, WV 26411

---

TAX ID: 09-06-0003-0012-0001-0000

NAME OF SURFACE OWNER/OWNERS: Robert Gayle Maxwell

ADDRESS OF PROPERTY: Off Route 13/Right Hand Fork Road, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 28 A, New Milton, WV 26411

---

TAX ID: 09-06-0003-0001-0000-6001

NAME OF SURFACE OWNER/OWNERS: Sue Ann Spiker

ADDRESS OF PROPERTY: Off Route 18/Meathouse Fork, West Union, WV

ADDRESS OF SURFACE OWNER/OWNERS: 166 Linden Lane, Jane Lew, WV 26378



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0003-0007-0001-0000

NAME OF SURFACE OWNER/OWNERS: Denise Donahoo

ADDRESS OF PROPERTY: Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: RR 1 Box 25DD, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 260/Page 643

TAX MAP REFERENCE: Map 3/ Parcel 7

EXISTING BUILDINGS/USES OF PROPERTY: Residential structure on the northern portion of parcel; remaining land is forested or open fields; Lick Run flows through the property

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

---

TAX ID: 09-06-0003-0007-0002-3001

NAME OF SURFACE OWNER/OWNERS: Timothy & Rebecca Clyne

ADDRESS OF PROPERTY: Off Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 14, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 266/ Page 220

TAX MAP REFERENCE: MAP 3/ Parcel 7

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures, possible access roads, forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0003-0006-0001-0000

NAME OF SURFACE OWNER/OWNERS: Timothy & Rebecca Clyne

ADDRESS OF PROPERTY: Off Route 18/Blandville, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: HC 68 Box 14, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 260/ Page 630

TAX MAP REFERENCE: MAP 3/ Parcel 6

EXISTING BUILDINGS/USES OF PROPERTY: Possible residential structure in northwest corner of the parcel; remaining land open fields or forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

---

TAX ID: 09-06-0003-0011-0000-0000

NAME OF SURFACE OWNER/OWNERS: Lewis Frederick Maxwell

ADDRESS OF PROPERTY: Lick Run Route 40, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 26B, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: BOOK 255/ Page 86

TAX MAP REFERENCE: MAP 3/ Parcel 11

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures; land is forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0003-0012-0000-0000

NAME OF SURFACE OWNER/OWNERS: Robert Gayle Maxwell

ADDRESS OF PROPERTY: Off Route 13/Right Hand Fork Run, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 28 A, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 220/ Page 79

TAX MAP REFERENCE: MAP 3/ Parcel 12

EXISTING BUILDINGS/USES OF PROPERTY: Apparent residential structure on the southern portion of the parcel; Right Hand Fork flows through property; mostly forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

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TAX ID: 09-06-0003-0012-0001-0000

NAME OF SURFACE OWNER/OWNERS: Robert Gayle Maxwell

ADDRESS OF PROPERTY: Off Route 13/Right Hand Fork Road, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 28 A, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 214/ Page 233

TAX MAP REFERENCE: MAP 3/ Parcel 12

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures; forested; Right Hand Fork flows through the property

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0003-0001-0000-6001

NAME OF SURFACE OWNER/OWNERS: Sue Ann Spiker

ADDRESS OF PROPERTY: Off Route 18/Meathouse Fork, West Union, WV

ADDRESS OF SURFACE OWNER/OWNERS: 166 Linden Lane, Jane Lew, WV 26378

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 214/ Page 675

TAX MAP REFERENCE: MAP 3/ Parcel 1

EXISTING BUILDINGS/USES OF PROPERTY: Possible oil wells present; small structure in the northeast corner of the parcel; forested; Georgescamp Run flows through property

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

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TAX ID: 09-06-0003-0001-0001-0000

NAME OF SURFACE OWNER/OWNERS: George Adrian et al.

ADDRESS OF PROPERTY: Off of Route 18, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: Route 1 Box 95A, New Milton, WV 26411

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: BOOK 260/ Page 641

TAX MAP REFERENCE: MAP 3/ Parcel 1

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures; possible oil wells present; forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-0007-0001-0000-0000

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: 3 Route 40 Over, New Milton, WV 26411

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 230/ Page 307

TAX MAP REFERENCE: MAP 7/ Parcel 1

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures on property; access roads and possible oil wells present; forested

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

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TAX ID: 09-07-0006-0001-0000-0000

NAME OF SURFACE OWNER/OWNERS: Justin Henderson

ADDRESS OF PROPERTY: Route 13, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 476, West Union, WV 26456

DISTRICT: New Milton

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: BOOK WB29/ Page 224

TAX MAP REFERENCE: MAP 6/ Parcel 1

EXISTING BUILDINGS/USES OF PROPERTY: No apparent structures; possible oil wells present; Bluestone Creek flows through property

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: There are currently no residential structures on the property.



**Attachment A- Project Location-  
Surface Owner Information**

TAX ID: 09-06-003-0002-0000-6001

NAME OF SURFACE OWNER/OWNERS: I.L. Ike Morris

ADDRESS OF PROPERTY: Route 23, West Union, WV 26456

ADDRESS OF SURFACE OWNER/OWNERS: P.O. Box 397, Glenville, WV 26351

DISTRICT: Southwest

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 230/ Page 307

TAX MAP REFERENCE: MAP 10/ Parcel 2

EXISTING BUILDINGS/USES OF PROPERTY: There are currently several horizontal 6A wells with access roads located on the property. One residential (rented) structure is present on the property. The remaining portions of the parcel are forested and undeveloped.

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown

ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY: Unknown





Edwin Wriston &lt;doddridgecountyfpm@gmail.com&gt;

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**Floodplain Fee Calculations for Projects submitted by CESO**

1 message

Natalie Hooton &lt;hooton@cesoinc.com&gt;

Fri, Aug 1, 2014 at 1:30 PM

To: "doddridgecountyFPM@gmail.com" &lt;doddridgecountyFPM@gmail.com&gt;

Mr. Wriston- Below are the calculations that were made to determine the fees required for the Doddridge County Floodplain permits. Please let me know if additional information is required. Thank you for your assistance. Natalie

**EQT-OX11**

- Pipeline & Waterline Construction – 370 LF \* \$250 = \$92,500
- Timber Matting = \$500
- Access Road Apron – 2 EA \* \$1,000 = \$2,000
- **Total Floodplain Construction Cost = \$95,000**
- Check Amount Required = \$500

**Meathouse Fork-OX11**

- Waterline Construction – 435 LF \*150 = \$65,250
- Timber Matting = \$500
- Temp Pad Intake = \$20,000
- **Total Floodplain Construction Cost = \$85,750**
- Check Amount Required = \$500

**Red to Orange Waterline**

- Pipeline & Waterline Construction – 1,693 LF \* \$150 = \$254,000
- Timber Matting = \$500
- **Total Floodplain Construction Cost = \$254,500**
- Check Amount Required = \$1,000 + (\$5 \* (154,500/1,000)) = \$1,772.50

**Orange to Blue Waterline**

- Waterline Construction – 4,415 LF \*150 = \$662,250
- Timber Matting = \$1,750
- Access Roads – 5 \* \$2,500 = \$12,500
- **Total Floodplain Construction Cost = \$676,500**
- Check Amount Required = \$1,000 + (\$5 \* (576,500/1,000)) = \$3,882.50

Natalie Hooton



CESO, Inc.

800 Bursca Dr. Suite 804

Bridgeville, PA 15017

P: (412) 221-2236 x 2009 | F: (412) 221-2267

Email: [hooton@cesoinc.com](mailto:hooton@cesoinc.com) | Website: [www.cesoinc.com](http://www.cesoinc.com)

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STATE OF WEST VIRGINIA,  
COUNTY OF DODDRIDGE, TO WIT

I, Virginia Nicholson, Editor of THE  
HERALD RECORD, a weekly newspaper  
published regularly, in Doddridge County,  
West Virginia, Do Hereby Certify  
That the Accompanying Legal Notice  
Entitled:

*Floodplain Permit*  
*# 14-253*  
*Ox 11 Waterline Meathouse*  
*Fork*  
was published in said paper for ... *2* .....

successive weeks beginning with the issue  
of ... *August 5<sup>th</sup>* ..... 2014 and  
ending with the issue of

... *August 12<sup>th</sup>* ..... 2014 and

that said notice contains ... *189* .....

WORD SPACE at ... *115* ..... cents a word

amounts to the sum of \$ ... *21.74* .....

FOR FIRST PUBLICATION, SECOND  
PUBLICATION IS 75% OF THE FIRST  
PUBLICATION

\$ *16.31* .....

and each publication thereafter

\$ *38.05* ..... TOTAL

EDITOR  
*Virginia Nicholson*

SWORN TO AND SUBSCRIBED  
BEFORE ME THIS THE ... *14<sup>th</sup>* ..... DAY  
OF ... *August* ..... 2014

NOTARY PUBLIC  
*Laura J Adams*

LEGAL ADVERTISEMENT  
Doddridge County  
Floodplain Permit Application  
Please take notice that on the 15<sup>th</sup> day of August, 2014  
Cone Gathering LLC filed an application for a Floodplain  
Permit to develop land located at or about 39.39 257067N  
/ 80.713276W. Permit #14-253 Meathouse Fork - Ox 11  
Waterline.  
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 August 27,  
2014.  
Delivered to the  
Clerk of the County Court  
118 E. Court Street, West Union, WV 26456  
Beth A. Rogers, Doddridge County Clerk  
Edwin L. "Bo" Wriston, Doddridge County Flood Plain  
Manager  
8-5-2xb

