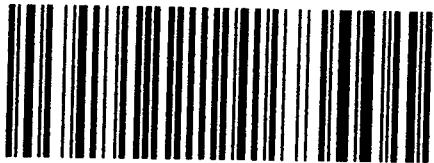
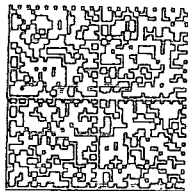


**CERTIFIED MAIL®**

George Eidel  
Doddridge County OEM/Floodplain Mngr  
108 Court St. Ste 1  
West Union, WV 26456



7015 3430 0001 1569 6685



HASLER

\$006.74<sup>00</sup>

08/08/2016 ZIP 26456  
012E14643162

US POSTAGE

*Delivered  
8-11-16  
8-17  
8-26*

Wilma C. Polan  
HC 68 Box 23

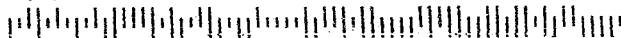
V NIXIE 250 DE 1 0009/11/16

RETURN TO SENDER  
UNCLAIMED  
UNABLE TO FORWARD

UNC

BC: 26456209501 \*0271-06148-09-44

264562095012 11008



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT

**SENDER: COMPLETE THIS SECTION**

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

**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

Wilma C. Polan  
 HC 68 Box 23  
 West Union, WV 26456

16-429

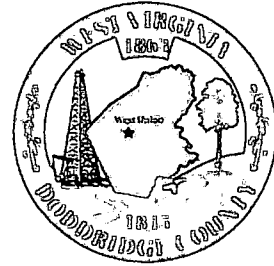


9590 9402 1601 5362 0136 42

2. Article Number (*Transfer from service label*)

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

Doddridge County Office of  
Emergency Management/Floodplain Management  
108 Court Street Suite 1  
Tel 304-873-1343  
doddridgecountyfpm@gmail.com



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,

George Eidel

A handwritten signature in cursive script, appearing to read "George Eidel", is written over the printed name.

Doddridge County Floodplain Manager

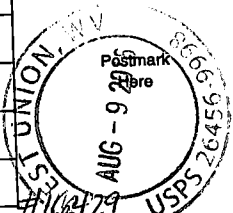


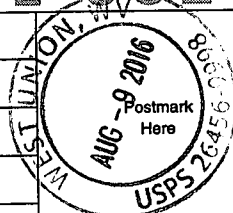
## Doddridge County Floodplain Permits

(Week of Aug 8 , 2016 )

Please take notice that on the 5th day of August, 2016, Kleinfelder Group on behalf of Energy Transfer Company (ETC) has filed an application for a Floodplain Permit (#16-429) to develop land located at or about Eibs Camp Rd. 39.256498°, -80.707736°. The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by September 6, 2016 (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. This project is to improve 1.1 miles of road

7014 0150 0001 7356 7962

|  |                |
|--|----------------|
| <b>U.S. Postal Service™</b><br><b>CERTIFIED MAIL™ RECEIPT</b><br><i>(Domestic Mail Only; No Insurance Coverage Provided)</i> |                |
| For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>                                 |                |
| OFFICIAL USE   |                |
| Postage  | \$ .49         |
| Certified Fee  | 3.45           |
| Return Receipt Fee<br><small>(Endorsement Required)</small>  | 2.80           |
| Restricted Delivery Fee<br><small>(Endorsement Required)</small>   |                |
| <b>Total Postage &amp; Fees</b>  | <b>\$ 6.74</b> |
|   |                |
| Sent To  |                |
| Street, Apt. No.; or PO Box No.  |                |
| City, State, ZIP+4   |                |
| PS Form 3800, August 2006 <span style="float: right;">See Reverse for Instructions</span>                                    |                |

|  |                |
|--|----------------|
| <b>U.S. Postal Service™</b><br><b>CERTIFIED MAIL™ RECEIPT</b><br><i>(Domestic Mail Only; No Insurance Coverage Provided)</i> |                |
| For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>                                 |                |
| OFFICIAL USE   |                |
| Postage  | \$ .49         |
| Certified Fee  | 3.45           |
| Return Receipt Fee<br><small>(Endorsement Required)</small>  | 2.80           |
| Restricted Delivery Fee<br><small>(Endorsement Required)</small>   |                |
| <b>Total Postage &amp; Fees</b>  | <b>\$ 6.74</b> |
|   |                |
| Sent To  |                |
| Street, Apt. No.; or PO Box No.  |                |
| City, State, ZIP+4   |                |
| PS Form 3800, August 2006 <span style="float: right;">See Reverse for Instructions</span>                                    |                |

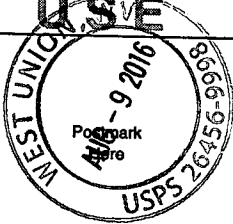
7014 0150 0001 7356 7979

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

For delivery information visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

|   |                |
|---|----------------|
| Postage   | \$ .49         |
| Certified Fee                                     | 3.45           |
| Return Receipt Fee<br>(Endorsement Required)      | 2.80           |
| Restricted Delivery Fee<br>(Endorsement Required) |                |
| <b>Total Postage &amp; Fees</b>                   | <b>\$ 6.74</b> |



Sent To \_\_\_\_\_  
 Street, Apt. No., or PO Box No. \_\_\_\_\_  
 City, State, ZIP+4® \_\_\_\_\_

PS Form 3800, August 2006 See Reverse for Instructions

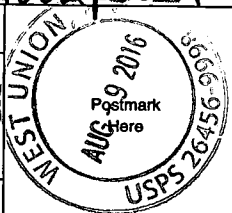
7015 3430 0001 1569 6685

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

|   |                |
|---|----------------|
| Certified Mail Fee  | \$ 3.45        |
| Extra Services & Fees (check box, add fee as appropriate)     |                |
| <input checked="" type="checkbox"/> Return Receipt (hardcopy) | \$ 2.80        |
| <input type="checkbox"/> Return Receipt (electronic)          | \$             |
| <input type="checkbox"/> Certified Mail Restricted Delivery   | \$             |
| <input type="checkbox"/> Adult Signature Required             | \$             |
| <input type="checkbox"/> Adult Signature Restricted Delivery  | \$             |
| Postage   | \$ .49         |
| <b>Total Postage and Fees</b>                                 | <b>\$ 6.74</b> |



Sent To \_\_\_\_\_  
 Street and Apt. No., or PO Box No. \_\_\_\_\_  
 City, State, ZIP+4® \_\_\_\_\_

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

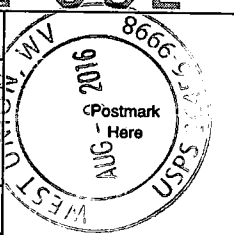
7015 3430 0001 1569 6661

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

|   |                |
|---|----------------|
| Certified Mail Fee  | \$ 3.45        |
| Extra Services & Fees (check box, add fee as appropriate)     |                |
| <input checked="" type="checkbox"/> Return Receipt (hardcopy) | \$ 2.80        |
| <input type="checkbox"/> Return Receipt (electronic)          | \$             |
| <input type="checkbox"/> Certified Mail Restricted Delivery   | \$             |
| <input type="checkbox"/> Adult Signature Required             | \$             |
| <input type="checkbox"/> Adult Signature Restricted Delivery  | \$             |
| Postage   | \$ .49         |
| <b>Total Postage and Fees</b>                                 | <b>\$ 6.74</b> |



Sent To \_\_\_\_\_  
 Street and Apt. No., or PO Box No. \_\_\_\_\_  
 City, State, ZIP+4® \_\_\_\_\_

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

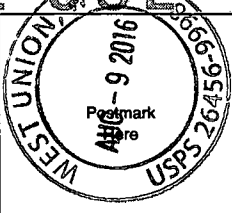
7015 3430 0001 1569 6676

U.S. Postal Service™  
**CERTIFIED MAIL® RECEIPT**  
*Domestic Mail Only*

For delivery information, visit our website at [www.usps.com](http://www.usps.com).

**OFFICIAL USE**

|   |                |
|---|----------------|
| Certified Mail Fee  | \$ 3.45        |
| Extra Services & Fees (check box, add fee as appropriate)     |                |
| <input checked="" type="checkbox"/> Return Receipt (hardcopy) | \$ 2.80        |
| <input type="checkbox"/> Return Receipt (electronic)          | \$             |
| <input type="checkbox"/> Certified Mail Restricted Delivery   | \$             |
| <input type="checkbox"/> Adult Signature Required             | \$             |
| <input type="checkbox"/> Adult Signature Restricted Delivery  | \$             |
| Postage   | \$ .49         |
| <b>Total Postage and Fees</b>                                 | <b>\$ 6.74</b> |



Sent To \_\_\_\_\_  
 Street and Apt. No., or PO Box No. \_\_\_\_\_  
 City, State, ZIP+4® \_\_\_\_\_

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

**SENDER: COMPLETE THIS SECTION**

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

**Robert C. & Arlene Bland**  
**4101 WV 18 Rte. S**  
**West Union, WV 26456**



9590 9402 1601 5362 0136 59

2. Article Number (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*\* Robert C Bland*

- Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

8-11-16

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

**3. Service Type**

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

USPS TRACKING#



9590 9402 1601 5362 0136 59

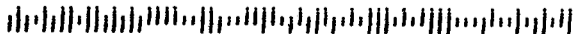


First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

**United States  
Postal Service**

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

George Eidel  
Doddridge County OEM/Floodplain Mngr  
108 Court St. Ste 1  
West Union, WV 26456



**SENDER: COMPLETE THIS SECTION**

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

**Marven E. & Robin E. Travis**  
**67 Eibs Camp Rd**  
**New Milton, WV 26411**



9590 9402 1601 5362 0136 73

2. Article Number (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*X [Handwritten Signature]*

- Agent  
 Addressee

B. Received by (Printed Name)

*realtor [Handwritten Name]*

C. Date of Delivery

*8-18-10*

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

3. Service Type

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



USPS TRACKING #



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

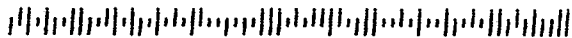
9590 9402 1601 5362 0136 73

**United States  
Postal Service**

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

George Eidel  
Doddridge County OEM/Floodplain Mngr  
108 Court St. Ste 1  
West Union, WV 26456

16-429



**SENDER: COMPLETE THIS SECTION**

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

Carol S. Lowther  
629 Ruby St.  
Belmont, WV 26134



9590 9402 1601 5362 0136 35

2. Article Number (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Carol S. Lowther*  Agent  
 Addressee

Received by (Printed Name)

C. Date of Delivery

8-12-16

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

110-429

3. Service Type

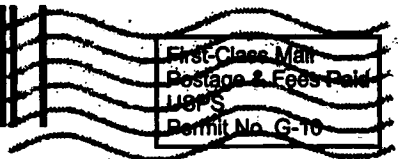
- |  |   |
|--|---|
| <input type="checkbox"/> Adult Signature                               | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery           | <input type="checkbox"/> Registered Mail™                   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

USPS TRACKING #



CHARLESTON WV 25301

10 AUG 2016 PM 1 L



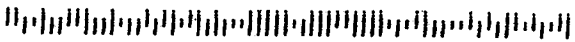
First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

9590 9402 1601 5362 0136 35

**United States  
Postal Service**

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

George Eidel  
Doddridge County OEM/Floodplain Mngr  
108 Court St. Ste 1  
West Union, WV 26456



**SENDER: COMPLETE THIS SECTION**

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

16-429

Winford G. Bowen  
217 Big Lake Dr.  
Andrew, SC 29510



9590 9402 1601 5362 0136 80

2. Article Number (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY****A. Signature**

X


 Agent Addressee**B. Received by (Printed Name)**

W. G. Bowen  
8-12-14

**C. Date of Delivery****D. Is delivery address different from item 1?** Yes

If YES, enter delivery address below:

 No**3. Service Type**

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

USPS TRACKING #



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

9590 9402 1601 5362 0136 80

**United States  
Postal Service**

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

George Eidel  
Doddridge County OEM/Floodplain Mngr  
108 Court St. Ste 1  
West Union, WV 26456

16-429



**SENDER: COMPLETE THIS SECTION**

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

Haessly Hardwood Lumber  
Route #1 Box 185  
Marietta, OH 45750



9590 9402 1601 5362 0136 66

2. Article Number (Transfer from service label)

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

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Garland Valentine*

Agent

Addressee

B. Received by (Printed Name)

*Garland Valentine*

C. Date of Delivery

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

**3. Service Type**

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Insured Mail Restricted Delivery (over \$500)

- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

USPS TRACKING#



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

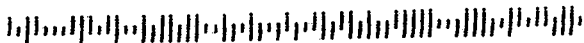
9590 9402 1601 5362 0136 66

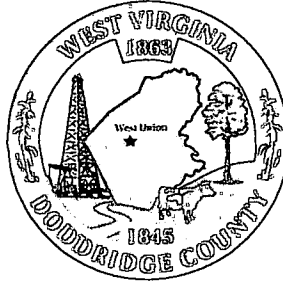
**United States  
Postal Service**

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

George Eidel  
Doddrige County OEM/Floodplain Mngr  
108 Court St. Ste 1  
West Union, WV 26456

160-429





# Floodplain Development Permit

## Doddridge County, WV Floodplain Management

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

**Permit #: 16-429**

**Date Approved: September 6, 2016**      **Expires: September 6, 2017**

**Issued to: Kleinfelder Group on behalf  
Energy Transfer Company**

**POC: Matt Albright 724-831-5101  
Buffy Thompson 719-989-2844**

**Company Address: 1300 Main Street, Houston, Texas 77002**

**Project Address: Eibs Camp Road**

**Firm:**

**Lat/Long: 39.256498, -80.707736**

**Purpose of development: Improve 1.1 miles of road**

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

**Date: September 6, 2016**

---

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

---



COPY

COPY

GSC/KLEINFELDER  
230 EXECUTIVE DR STE 122  
CRANBERRY TOWNSHIP, PA 16066-6415

2563

8-9/430  
108

DATE 8/4/16

CHECK ARMB

PAY TO THE ORDER OF Dodderidge County Commission

\$ 704.55

Seven-hundred and four 55/100

DOLLARS

Security Features Detail on Back

PNC BANK

PNC Bank, N.A. 001

*[Signature]*

FOR \_\_\_\_\_

⑈002563⑈ ⑆043000096⑆ ⑆022103646⑈

COPY

COPY

# Doddridge County, West Virginia

RECEIPT NO: 7534

DATE: 2016/08/10

FROM: GSC/KLEINFELDER

AMOUNT: \$

704.55

SEVEN HUNDRED FOUR DOLLARS AND 55 CENTS

FOR: #16-429 EIBS CAMP ROAD ROAD IMPROVEMENT

00000002563 FP-BUILDING PERMITS

020-318

TOTAL: \$704.55

MICHAEL HEADLEY

SHERIFF & TREASURER

MEC

CLERK

Customer Copy

**DETAIL SHEET**

**EIBS CAMP ROAD IMPROVEMENT PROJECT**

**ENERGY TRANSFER COMPANY**

| <b>Bid Sheet for Meathouse Fork Floodplain Crossing</b> |                                 |              |                 |                  |                    |
|---|---------------------------------|--------------|-----------------|------------------|--------------------|
| <b>Item</b>   | <b>Pipeline Size &amp; Type</b> | <b>Units</b> | <b>Quantity</b> | <b>Unit Cost</b> | <b>Total</b>       |
| Ground Surface Improvement & Reclamation                | Road Improvement                | Feet         | 695             | \$50.00          | \$34,750.00        |
| Culvert Installation                                    | Road Improvement                | Each         | 3               | \$1,500.00       | \$4,500.00         |
| E&S for Stream Crossing                                 | Road Improvement                | Each         | 1               | \$160.00         | \$160.00           |
| Stabilized Construction Entrance                        | Road Improvement                | Each         | 1               | \$1,500.00       | \$1,500.00         |
| <b>Total Improvement Cost</b>                           |                                 |              |                 |                  | <b>\$40,910.00</b> |

| <b>Doddridge County Floodplain Development Permit Application Fee Calculation (Inside Floodplain)</b> |              |
|---|--------------|
| Estimated Construction Costs  | \$40,910.00  |
| Amount over \$100,000   | -\$59,090.00 |
| Deposit for additional charges  | \$1,000.00   |
| \$5 per \$1,000 over \$100,000  | -\$295.45    |
| Amount Due with application   | \$704.55     |



## **Doddridge County Floodplain Permits**

(Week of Aug 8 , 2016 )

Please take notice that on the **5th** day of **August, 2016**, **Kleinfelder Group on behalf of Energy Transfer Company (ETC)** has filed an application for a Floodplain Permit (**#16-429**) to develop land located at or about **Eibs Camp Rd. 39.256498°, -80.707736°**. The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. Any interested persons who desire to comment shall present the same in writing by **September 6, 2016** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Clerk of the County Court at 108 Court Street Ste. 1, West Union, WV 26456. **This project is to improve 1.1 miles of road**

Property Owner Table - Doddridge County  
 Energy Transfer Company - Eibs Camp Road Improvement Project

| Property Owner Name                         | Mailing Address                        | Parcel ID | Deed Book Reference    | Land Book Description                            |
|---|--|-----------|------------------------|--|
| <b>HOST PROPERTIES - WITHIN FLOODPLAIN</b>  |  |           |                        |  |
| MARVEN E. TRAVIS & ROBIN E. TRAVIS          | 67 Eibs Camp Rd New Milton, WV 26411   | 42290490  | DEED BOOK 261 PAGE 52  | 7014 0150 0001 7356 7993<br>3.06 ACRES PER DEED  |
| MARVEN E. TRAVIS & ROBIN E. TRAVIS          | 67 Eibs Camp Rd New Milton, WV 26411   | 422904035 | DEED BOOK 261 PAGE 52  | 3.06 ACRES PER DEED                              |
| HAESSLY HARDWOOD LUMBER                     | Route #1 Box 185, Marietta, OH 45750   | 422907724 | DEED BOOK 250 PAGE 625 | 7014 0150 0001 7356 7979<br>1.778 ACRES PER DEED |
| WILMA C. POLAN                              | Hc 68 #BX 23, West Union, WV 26456     | 422904136 | DEED BOOK 274 PAGE 14  | 7015 3430 0001 1569 6685<br>23.5 ACRES PER DEED  |
| <b>HOST PROPERTIES - OUTSIDE FLOODPLAIN</b> |  |           |                        |  |
| CAROL S. LOWTHER                            | 629 Ruby St. Belmont, WV 26134         | 422904141 | DEED BOOK 188 PAGE 411 | 7015 3430 0001 1569 6678<br>2.35 ACRES PER DEED  |
| CAROL S. LOWTHER                            | 629 Ruby St. Belmont, WV 26134         | 422904207 | DEED BOOK 188 PAGE 411 | 14.525 ACRES PER DEED                            |
| BLAND ROBERT C & ARLENE                     | 4101 Wv 18 Rte S, West Union, WV 26456 | 422904064 | DEED BOOK 261 PAGE 55  | 7015 3430 0001 1569 6661<br>2.61 ACRES PER DEED  |
| In care of: WINFORD G BOWEN                 | 217 Big Lake Dr. Andrew, SC 29510      | 422904286 | DEED BOOK 257 PAGE 279 | 7014 0150 0001 7356 7962<br>51 ACRES PER DEED    |



August 4, 2016

AUG 5 16 1:22PM

Mr. George Eidel  
Floodplain Coordinator  
Doddridge County Commission  
118 East Court Street  
West Union, WV 26456

**Re: Doddridge County Floodplain Development Permit Application**  
Eibs Camp Road Improvement Project  
Doddridge County, West Virginia  
Energy Transfer Company

Dear Mr. Eidel:

Energy Transfer Company (ETC) is proposing to upgrade the existing 1.1-mile, Eibs Camp Road (County Route 18/6) known as the Eibs Camp Road Improvement Project (Project) in Doddridge County, West Virginia (Figure 1). The Project will widen and realign portions of existing Eibs Camp Road; replace, repair, and clean existing culverts; perform ditch maintenance; and perform berm improvements to support oil and gas development activity in the area. The site can be accessed from West Virginia State Route 18 at 39.256498°, -80.707736°. Kleinfelder, Inc. (Kleinfelder), on behalf of ETC, has enclosed a Doddridge County Floodplain Development Permit Application for your review and approval along with a Permit Fee Detail Sheet and a check in the amount of \$704.55.

A list of property owners located within and immediately adjacent downstream to the Federal Emergency Management Agency (FEMA) 100 year floodplain within the proposed Project are included as Attachment A. Figures 1 and 2 present the Project on USGS Topographic and Aerial Maps, respectively and depict the proposed area-of-interest (AOI) and limit-of-disturbance associated with the Project.

Kleinfelder biologists conducted a stream and wetland investigation and habitat assessment on June 21, 2016 and June 28, 2016 to identify streams and wetlands within a 19.8-acre AOI surrounding the proposed Project. During the site review, fifteen (15) aquatic features were observed within the AOI, including three (3) ephemeral streams, four (4) intermittent streams, one (1) perennial stream and seven (7) palustrine emergent (PEM) wetlands.

Based on the engineered design plans (Attachment B), construction activities will include the upgrade and replacement of two (2) culverts within Eibs Camp Road and the installation of one (1) culvert at a driveway entrance within the designated FEMA regulated flood zone according to FIRM Map # 54017C0140C.

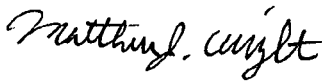
Directions to the Site from West Union, WV: Head south on WV-18 and continue for 4.5 miles. The entrance to the Project will be on your left.

The Floodplain Map (Attachment C) depicts locations where construction activities will enter and exit the floodplain. Approximately 695 feet of the proposed road improvement will be inside the Meathouse Fork floodplain with a construction disturbance of 0.70 acres. Above grade improvements occurring inside the Meathouse Fork floodplain will require less than six inches of stone and therefore will not affect base flood elevations. In addition, the West Virginia Flood Tool Map for this proposed floodplain crossing is included as Attachment E.

Please reference Attachment D for required permits and their status.

We appreciate your timely review of this request. Please contact Matt Albright (724-831-5101) of Kleinfelder with any questions.

Respectfully submitted,



Matthew J. Albright  
Project Manager



Troy B. Daniels, PE  
Project Engineer

cc: Buffy Thomason, ETC

Enclosures (10)

- Doddridge County Floodplain Development Permit Application, Detail Sheet and Check
- Figure 1 – Project Location Map
- Figure 2 – Aquatic Resources Map
- Attachment A – Property Owner Table
- Attachment B – Engineered Design Plans
- Attachment C – Flood Insurance Rate Map
- Attachment D – Required Permits and Status
- Attachment E – West Virginia Flood Tool Map

**Doddridge County Commercial/Industrial  
Floodplain Development Permit Application**

**Project Narrative:**

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

**Project Narrative:**

Energy Transfer Company (ETC) is proposing to upgrade the existing 1.1-mile, Eibs Camp Road (County Route 18/6) known as the Eibs Camp Road Improvement Project (Project) in Doddridge County, West Virginia (Figure 1). The Project will widen and realign portions of existing Eibs Camp Road (County Route 18/6); replace, repair, and clean existing culverts; perform ditch maintenance; and perform berm improvements to support oil and gas development activity in the area.

The project will include the upgrade and replacement of two (2) culverts and the installation of one (1) culvert within the designated floodplain. It is anticipated that the project will have minimal impacts on the floodplain.

**CONSTRUCTION DESCRIPTION**

**Eibs Camp Road Improvement Project**

**Doddridge County, West Virginia**

Construction on the Eibs Camp Road Improvement Project within Doddridge County may consist of silt fence, compost filter sock, diversions, and temporary and permanent seeding and mulching. Best management practices (BMP) specifications for the Erosion and Sediment Control Plans (ESCPs) are to be utilized by the construction contractor according to the provided plan. Straw/hay bales will not be used as an erosion and sediment (E&S) control.

Descriptions of the Project construction activities are outlined in the sequence below:

1. Prior to beginning land disturbing activities, clearly mark all clearing limits, sensitive areas and their buffers, and trees that are to be preserved within the construction area. These shall be clearly marked, both in the field and on the plans, to prevent damage and offsite impacts.
2. Install rock construction entrance and associated culvert immediately before initial disturbances. The rock construction entrance is to be underlain by filter fabric. Construction traffic should only use this entrance for ingress and egress. No sediment tracking on the roadway is allowed. In the event that sediment is inadvertently tracked onto the road, the road shall be cleaned thoroughly by the end of each day. Sediment shall be removed from roads by shoveling or pickup sweeping and shall be transported to a controlled sediment disposal area. Street washing of sediments to the storm drain system is not allowed. If street wash wastewater can be controlled from entering the storm drainage system, then it shall be pumped back onto the site, contained and disposed of properly.
3. Install temporary E&S controls (silt fence, diversions, etc.) prior to any earth disturbing activities, which includes grubbing and excavation, to ensure to the maximum extent practicable, that no significant erosion or sedimentation occurs. All compost filter socks and sediment fence shall be installed as close to parallel to contours as possible.
4. Diversions and/or other erosion and sediment control devices will be installed as needed. If clearing and grubbing is required, see below regarding the management and disposal of debris.
5. Stream and wetland crossings will be kept to a minimum and will be stabilized by placing timber



## Doddridge County Commercial/Industrial Floodplain Development Permit Application

mats or prefabricated swamp mats. All materials used to stabilize wetland areas will be removed from the wetland upon completion of construction.

6. After access to and along the proposed Project has been provided, the general clearing and grubbing of the trees and brush along the limit of disturbance (LOD) may commence to the width specified in the ESCPs. All pollutants, including waste materials and demolition debris, that occur on-site during construction shall be handled and disposed of in a manner that does not cause contamination of surface waters. Woody debris may be chopped and spread on-site.
7. Commence grading on the county road, associated ditches and install culverts with outlet protection. The earth moving activity shall begin in area of cut so that the cuts can be placed in areas of fill. The county road shall initially receive a stone surface and then a chip and seal surface following construction.
8. Grading within the LOD will be conducted for the county road improvements and where necessary to provide an even surface for safe and efficient operation of construction equipment. Grading will be the minimum amount necessary and BMPs will be installed promptly. Tree stumps, and large rocks and boulders will also be removed for safety at this time.
9. The proposed construction LOD will be used as a work area for grading, equipment movement, and the storage of soil stockpiles, as needed. Equipment soil stockpiles, and other materials area to remain upslope of BMPs during construction activities.
10. Segregation of topsoil and subsoil will be performed where excavation takes place in an agricultural, wetland, or residential areas.
11. Finalize the county road widening and place topsoil on the cut and fill areas. Immediately install erosion control blankets or hydraulically applied blankets on cut and fill slopes.
12. Sediment laden runoff shall not be allowed to flow directly into, onto or through unprotected inlets, storm drains, water bodies, adjacent streams or wetlands.
13. Any exposed topsoil piles should be immediately stabilized & seeded per tables shown on the approved erosion control plans and mulched with straw as specified by the Project owner.
14. Selected soil stabilization measures shall be appropriate for the time of year, site conditions, and estimated duration of use.
15. Soil stockpiles must be stabilized and protected with sediment trapping measures.
16. Prior to any seeding, lime, and fertilization application, a soil test shall be performed to determine the pH factor. Additional lime and fertilizer may be required.
17. All E&S controls will be inspected, at a minimum, once every seven calendar days in areas of active construction and within 24 hours after any storm event greater than 0.5-inch per 24-hour period until there is a uniform, perennial 70 percent vegetative coverage established. Temporary BMPs will be removed upon achieving vegetative stabilization. The 70 percent requirement refers to the total area vegetated and not a percent of the site.

Following completion of construction activities, the ROW will be restored to pre-construction contours (with the exception of the county road). No permanent structures will be constructed within the floodplain. Improvements to the county road within the floodplain will require less than six inches of stone. As a result, there will be no change to Meathouse Fork base flood elevation of 810 feet.

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**RELATIVE TIME LINE OF OVERALL CONSTRUCTION ACTIVITIES**

**Tree Clearing** - November 15, 2016 to December 1, 2016

**Erosion & Sediment Controls** - December 1, 2016 to December 10, 2016

**Grubbing** - December 10, 2016 to December 20, 2016

**Construction/Road Improvements** - December 20, 2016 to March 1, 2017

**Stabilization** - March 1, 2017 to June 15, 2017



Permit# 16-429  
Project Name: Elbs Camp Rd Improvement  
Permittees Name: Kleinfelder for Energy transfer Co. (ETC)

## ***Doddridge County, WV***

# **Floodplain Development Permit Application**

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

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

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. 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 *[Signature]*

DATE 8/4/16

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Applicant Information:**

*Please provide all pertinent data.*

|   |                        |                   |
|---|------------------------|-------------------|
| <b>Applicant Information</b>  |                        |                   |
| <b>Responsible Company Name:</b> Energy Transfer Company              |                        |                   |
| <b>Corporate Mailing Address:</b> 1300 Main Street                    |                        |                   |
| <b>City:</b> Houston  | <b>State:</b> TX       | <b>Zip:</b> 77002 |
| <b>Corporate Point of Contact (POC):</b> Buffy Thomason               |                        |                   |
| <b>Corporate POC Title:</b> Senior Environmental Scientist            |                        |                   |
| <b>Corporate POC Primary Phone:</b> 713-989-2844                      |                        |                   |
| <b>Corporate POC Primary Email:</b> Buffy.Thomason@energytransfer.com |                        |                   |
| <b>Corporate FEIN:</b> 47-1958303                                     | <b>Corporate DUNS:</b> |                   |
| <b>Corporate Website:</b>   |                        |                   |
| <b>Local Mailing Address:</b> 1300 Main Street                        |                        |                   |
| <b>City:</b> Houston  | <b>State:</b> TX       | <b>Zip:</b> 77002 |
| <b>Local Project Manager (PM):</b> Buffy Thomason                     |                        |                   |
| <b>Local PM Primary Phone:</b> 713-989-2844                           |                        |                   |
| <b>Local PM Secondary Phone:</b> N/A                                  |                        |                   |
| <b>Local PM Primary Email:</b> Buffy.Thomason@energytransfer.com      |                        |                   |
| <b>Person Filing Application:</b> Matt Albright                       |                        |                   |
| <b>Applicant Title:</b> Project Manager                               |                        |                   |
| <b>Applicant Primary Phone:</b> 724-831-5101                          |                        |                   |
| <b>Applicant Secondary Phone:</b> 724-772-7072                        |                        |                   |
| <b>Applicant Primary Email:</b> MAlbright@Kleinfelder.com             |                        |                   |

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Proposed Development:**

*Please check all elements of the proposed project that apply.*

**DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)**

**A. STRUCTURAL DEVELOPMENT**

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

**B. OTHER DEVELOPMENT ACTIVITIES:**

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

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Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Development Site/Property Information:**

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

**Property Designation:**   1   of   1  

| Site/Property Information  |             |                |
|--|-------------|----------------|
| <b>Legal Description:</b> Please Reference Attachment A – Property Owner Table |             |                |
|  |             |                |
| <b>Physical Address/911 Address:</b>   |             |                |
| <b>Decimal Latitude/Longitude:</b>   |             |                |
| <b>DMS Latitude/Longitude:</b>   |             |                |
| <b>District:</b> Smithburg   | <b>Map:</b> | <b>Parcel:</b> |
| <b>Land Book Description:</b>  |             |                |
|  |             |                |
| <b>Deed Book Reference:</b>  |             |                |
|  |             |                |
| <b>Tax Map Reference:</b>  |             |                |
|  |             |                |
| <b>Existing Buildings/Use of Property:</b>                                     |             |                |
|  |             |                |

| Floodplain Location (Note: Distances measured by Floodplain Manager to distance) |                |   |                |
|--|----------------|---|----------------|
| <b>Community:</b>  | <b>Number:</b> | <b>Panel:</b>   | <b>Suffix:</b> |
| <b>Location (Lat/Long):</b>  |                | <b>Approximate Elevation:</b>   |                |
|  |                | <b>Estimated BFE:</b>   |                |
| <b>Is the development in the floodway?</b>                                       |                | <b>Is the development in the floodplain?</b>                                |                |
| <input type="checkbox"/> Yes <input type="checkbox"/> No                         |                | <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Zone:</b> _____ |                |
| <b>Notes:</b>  |                |   |                |
|  |                |   |                |
|  |                |   |                |

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Property Owner Data:**

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

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

|  |        |      |
|--|--------|------|
| <b>Property Owner Data:</b>  |        |      |
| Name of Primary Owner (PO): Please Reference Attachment A – Property Owner Table |        |      |
| PO Address:  |        |      |
| City:  | State: | Zip: |
| PO Primary Phone:  |        |      |
| PO Secondary Phone:  |        |      |
| PO Primary Email:  |        |      |

|  |        |      |
|--|--------|------|
| <b>Surface Rights Owner Data:</b>  |        |      |
| Name of Primary Owner (PO): Please Reference Attachment A – Property Owner Table |        |      |
| PO Address:  |        |      |
| City:  | State: | Zip: |
| PO Primary Phone:  |        |      |
| PO Secondary Phone:  |        |      |
| PO Primary Email:  |        |      |

|   |        |      |
|---|--------|------|
| <b>Mineral Rights Owner Data: (As Applicable)</b> |        |      |
| Name of Primary Owner (PO):                       |        |      |
| PO Address:                                       |        |      |
| City:   | State: | Zip: |
| PO Primary Phone:                                 |        |      |
| PO Secondary Phone:                               |        |      |
| PO Primary Email:                                 |        |      |

Doddridge County Commercial/Industrial  
Floodplain Development Permit Application

**Contractor Data:**

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

**Property Designation:** \_\_\_ of \_\_\_

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

|  |                     |                 |
|--|---------------------|-----------------|
| <b>Engineer Firm Information:</b>                              |                     |                 |
| Engineer Firm Name: Kleinfelder, Inc.                          |                     |                 |
| Engineer WV License Number: WV 20043                           |                     |                 |
| Engineer Firm FEIN: 27-0123832                                 | Engineer Firm DUNS: |                 |
| Engineer Firm Primary Point of Contact (POC): Troy B. Daniel   |                     |                 |
| Engineer Firm Primary POC Title: Project Engineer              |                     |                 |
| Engineer Firm Mailing Address: 555 Market Ave, North Suite 100 |                     |                 |
| City: Canton   | State: OH           | Zip-Code: 44702 |
| Engineer Firm Office Phone: 330-453-2230                       |                     |                 |
| Engineer Firm Primary POC Phone: 330-453-2230                  |                     |                 |
| Engineer Firm Primary POC E-Mail: TDaniel@Kleinfelder.com      |                     |                 |



## Adjacent and/or Affected Landowners Data

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

|  |           |      |
|--|-----------|------|
| <b>Adjacent Property Owner Data: Upstream</b>                                    |           |      |
| Name of Primary Owner (PO): Please Reference Attachment A – Property Owner Table |           |      |
| Physical Address:  |           |      |
| City:  | State: WV | Zip: |
| PO Primary Phone:  |           |      |
| PO Secondary Phone:  |           |      |
| PO Primary Email:  |           |      |

|  |           |      |
|--|-----------|------|
| <b>Adjacent Property Owner Data: Upstream</b>                                    |           |      |
| Name of Primary Owner (PO): Please Reference Attachment A – Property Owner Table |           |      |
| Physical Address:  |           |      |
| City:  | State: WV | Zip: |
| PO Primary Phone:  |           |      |
| PO Secondary Phone:  |           |      |
| PO Primary Email:  |           |      |

|  |           |      |
|--|-----------|------|
| <b>Adjacent Property Owner Data: Downstream</b>                                  |           |      |
| Name of Primary Owner (PO): Please Reference Attachment A – Property Owner Table |           |      |
| Physical Address:  |           |      |
| City:  | State: WV | Zip: |
| PO Primary Phone:  |           |      |
| PO Secondary Phone:  |           |      |
| PO Primary Email:  |           |      |

|  |        |      |
|--|--------|------|
| <b>Adjacent Property Owner Data: Downstream</b>                                  |        |      |
| Name of Primary Owner (PO): Please Reference Attachment A – Property Owner Table |        |      |
| Physical Address:  |        |      |
| City:  | State: | Zip: |
| PO Primary Phone:  |        |      |
| PO Secondary Phone:  |        |      |
| PO Primary Email:  |        |      |

## Site Plan

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


### **A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:**

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

## Applicant

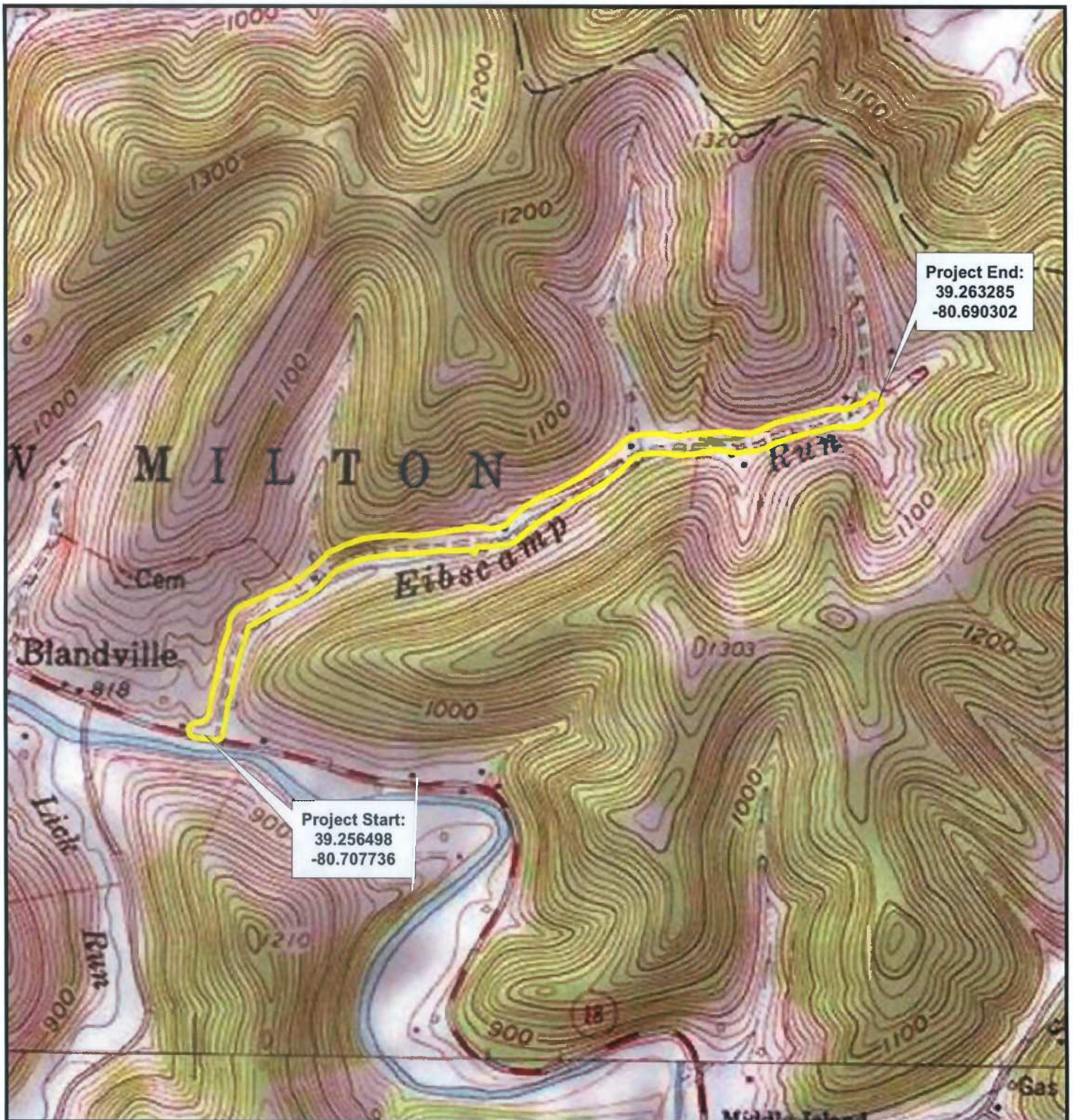
Please read print name, sign and date below:

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

Applicant Signature:  Date: 8/4/16

Applicant Printed Name: Matt Albright

**FIGURES**



**Figure 1**  
**Project Location Map**

Eibs Camp Road  
Improvement Project  
Energy Transfer Company  
Doddridge County, West Virginia



Smithburg, WV 7.5' USGS Quadrangle

PROJECT #: 20162247

DRAWN: 8/2/2016

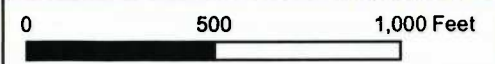
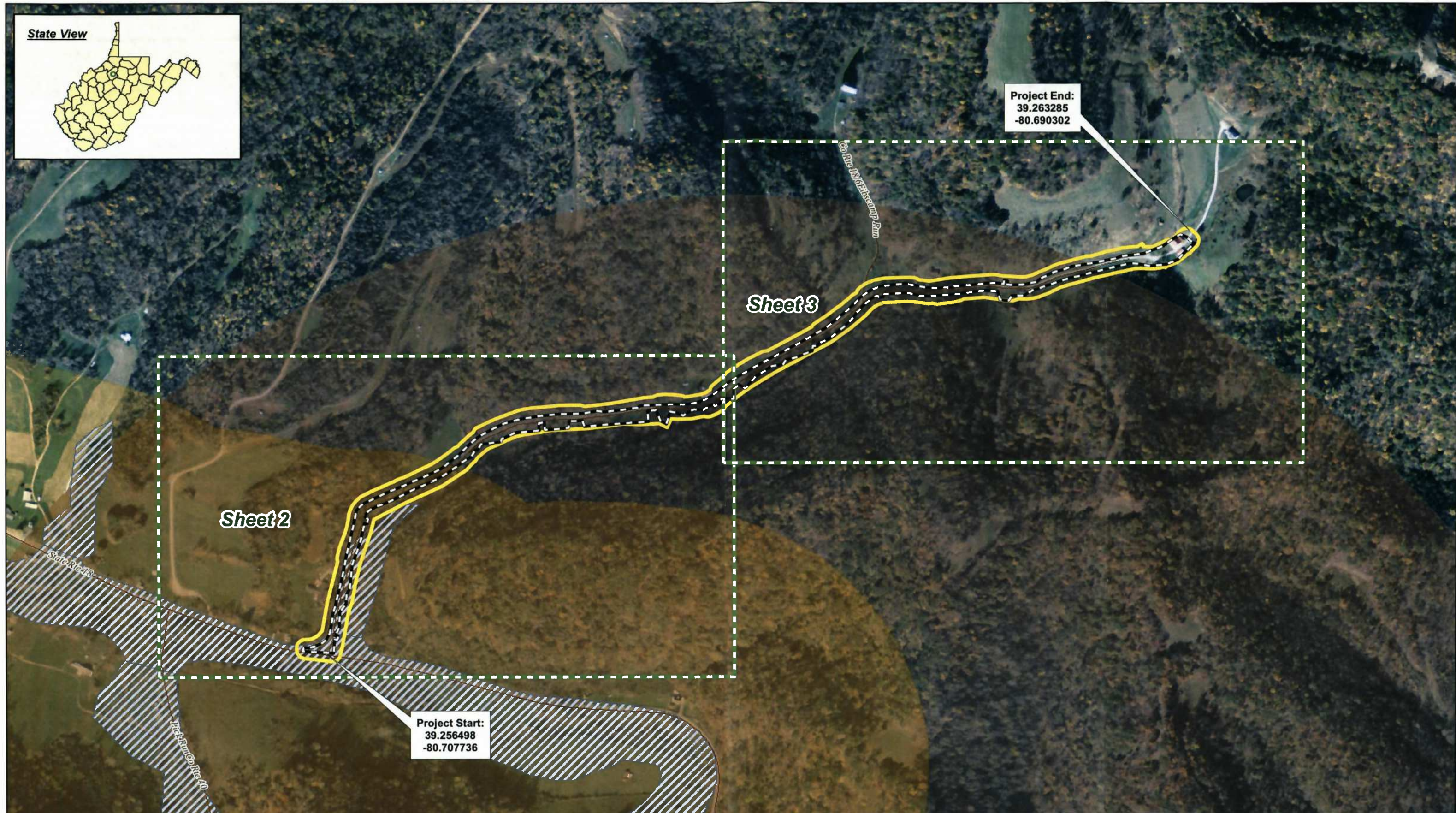
DRAWN BY: SMW

CHECKED BY: JMH

FILE NAME:  
EibsCamp\_WDSIR\_Fig1



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- AOI (19.8 ac)
- Proposed LOD (7.4 ac)
- Existing Road
- FEMA 100 Year Floodzone
- USFWS Aquatic Buffer
- USFWS Terrestrial Buffer

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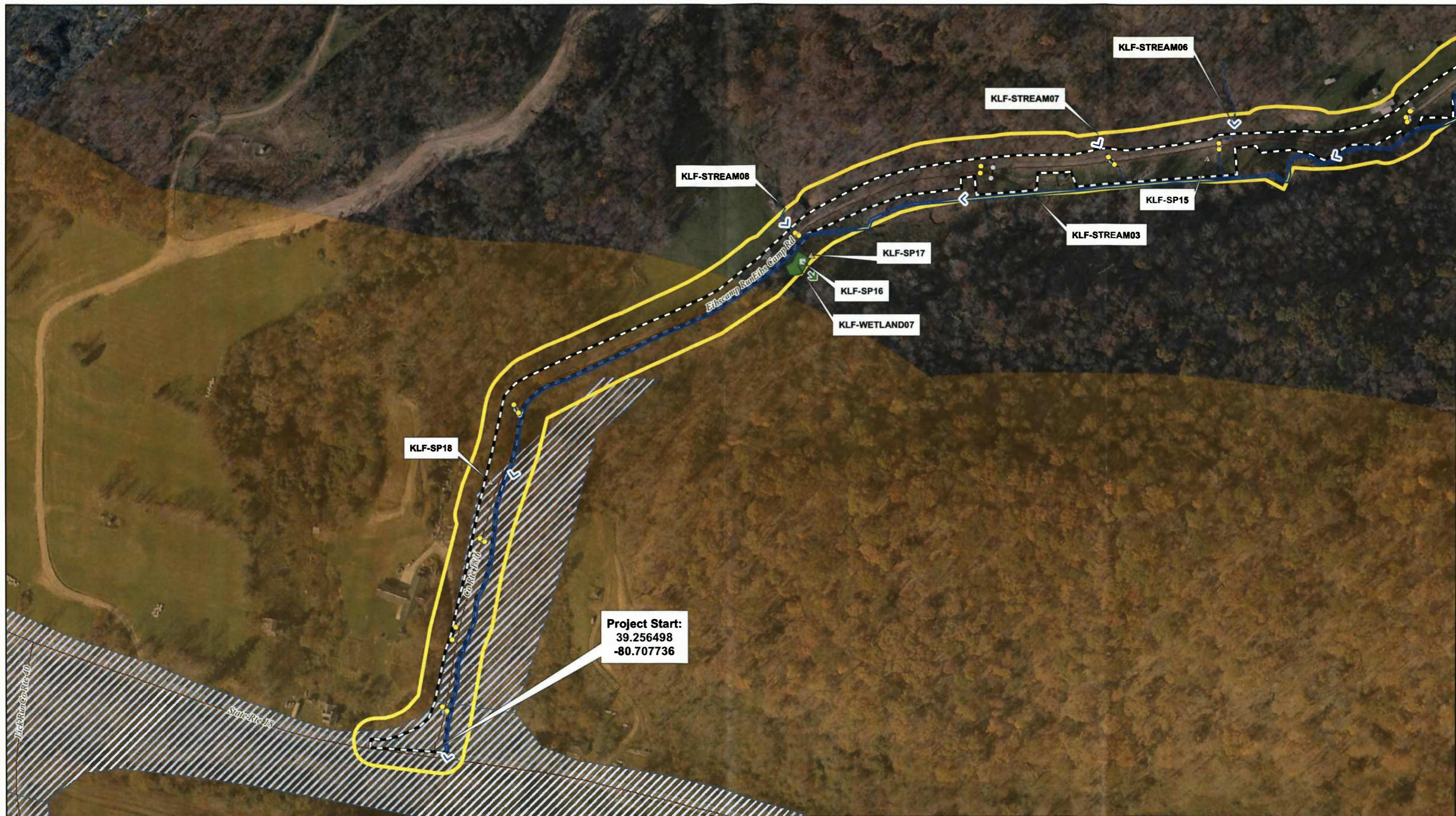
Aerial Imagery: ESRI



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| PROJECT NO. | 20162247                      |
| DRAWN:      | 8/3/2016                      |
| DRAWN BY:   | SMW                           |
| CHECKED BY: | JMH                           |
| FILE NAME:  | EibsCamp_WDSIR_Fig2_Index.mxd |

**Aquatic Resources Map**  
 Eibs Camp Road Improvement Project  
 Energy Transfer Company  
 Doddridge County, West Virginia

**FIGURE**  
**2**  
 Sheet 1 of 3



0 200 400 Feet

Aerial Imagery: ESRI

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- AOI (19.8 ac)
- Proposed LOD (7.4 ac)
- Existing Road
- Delineated Ephemeral Stream
- Delineated Intermittent Stream
- Delineated Perennial Stream
- Delineated PEM Wetland
- Proposed Culvert
- Existing Culvert
- FEMA 100 Year Floodzone
- USFWS Aquatic Buffer
- USFWS Terrestrial Buffer
- Flow Direction
- Wetland Continuation

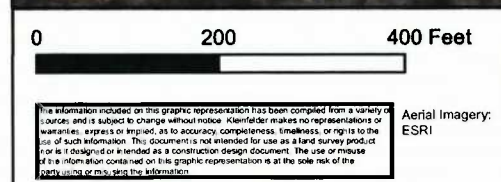


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| PROJECT NO. | 20162247                |
| DRAWN:      | 8/3/2016                |
| DRAWN BY:   | SMW                     |
| CHECKED BY: | JMH                     |
| FILE NAME:  | EibsCamp_WDSIR_Fig2.mxd |

**Aquatic Resources Map**

Eibs Camp Road Improvement Project  
Energy Transfer Company  
Doddridge County, West Virginia

**FIGURE**  
**2**  
Sheet 2 of 3



|                                |                             |                          |
|--------------------------------|-----------------------------|--------------------------|
| AOI (19.8 ac)                  | Delineated Perennial Stream | USFWS Aquatic Buffer     |
| Proposed LOD (7.4 ac)          | Delineated PEM Wetland      | USFWS Terrestrial Buffer |
| Existing Road                  | Proposed Culvert            | Flow Direction           |
| Delineated Ephemeral Stream    | Existing Culvert            | Wetland Continuation     |
| Delineated Intermittent Stream | FEMA 100 Year Floodzone     |                          |



|             |                         |
|-------------|-------------------------|
| PROJECT NO. | 20162247                |
| DRAWN:      | 8/3/2016                |
| DRAWN BY:   | SMW                     |
| CHECKED BY: | JMH                     |
| FILE NAME:  | EibsCamp_WDSIR_Fig2.mxd |

**Aquatic Resources Map**  
 Eibs Camp Road Improvement Project  
 Energy Transfer Company  
 Doddridge County, West Virginia

**FIGURE 2**  
 Sheet 3 of 3



**ATTACHMENT A**  
**PROPERTY OWNER TABLE**

**Property Owner Table - Doddridge County  
Energy Transfer Company - Eibs Camp Road Improvement Project**

| Property Owner Name                         | Mailing Address                        | Parcel ID | Deed Book Reference       | Land Book Description |
|---|--|-----------|---------------------------|-----------------------|
| <b>HOST PROPERTIES - WITHIN FLOODPLAIN</b>  |  |           |                           |                       |
| MARVEN E. TRAVIS & ROBIN E. TRAVIS          | 67 Eibs Camp Rd New Milton, WV 26411   | 42290490  | DEED BOOK 261 PAGE<br>52  | 3.06 ACRES PER DEED   |
| MARVEN E. TRAVIS & ROBIN E. TRAVIS          | 67 Eibs Camp Rd New Milton, WV 26411   | 422904035 | DEED BOOK 261 PAGE<br>52  | 3.06 ACRES PER DEED   |
| HAESSLY HARDWOOD LUMBER                     | Route #1 Box 185, Marietta, OH 45750   | 422907724 | DEED BOOK 250 PAGE<br>625 | 1328 ACRES PER DEED   |
| WILMA C. POLAN                              | Hc 68 #BX 23, West Union, WV 26456     | 422904136 | DEED BOOK 274 PAGE<br>14  | 23.5 ACRES PER DEED   |
| Property Owner Name                         | Mailing Address                        | Parcel ID | Deed Book Reference       | Land Book Description |
| <b>HOST PROPERTIES - OUTSIDE FLOODPLAIN</b> |  |           |                           |                       |
| CAROL S. LOWTHER                            | 629 Ruby St. Belmont, WV 26134         | 422904141 | DEED BOOK 188 PAGE<br>411 | 2.35 ACRES PER DEED   |
| CAROL S. LOWTHER                            | 629 Ruby St. Belmont, WV 26134         | 422904207 | DEED BOOK 188 PAGE<br>411 | 14.525 ACRES PER DEED |
| BLAND ROBERT C & ARLENE                     | 4101 Wv 18 Rte S, West Union, WV 26456 | 422904064 | DEED BOOK 261 PAGE<br>55  | 2.61 ACRES PER DEED   |
| In care of: WINFORD G BOWEN                 | 217 Big Lake Dr. Andrew, SC 29510      | 422904286 | DEED BOOK 257 PAGE<br>279 | 51 ACRES PER DEED     |

**ATTACHMENT B**  
**ENGINEERED DESIGN PLANS**



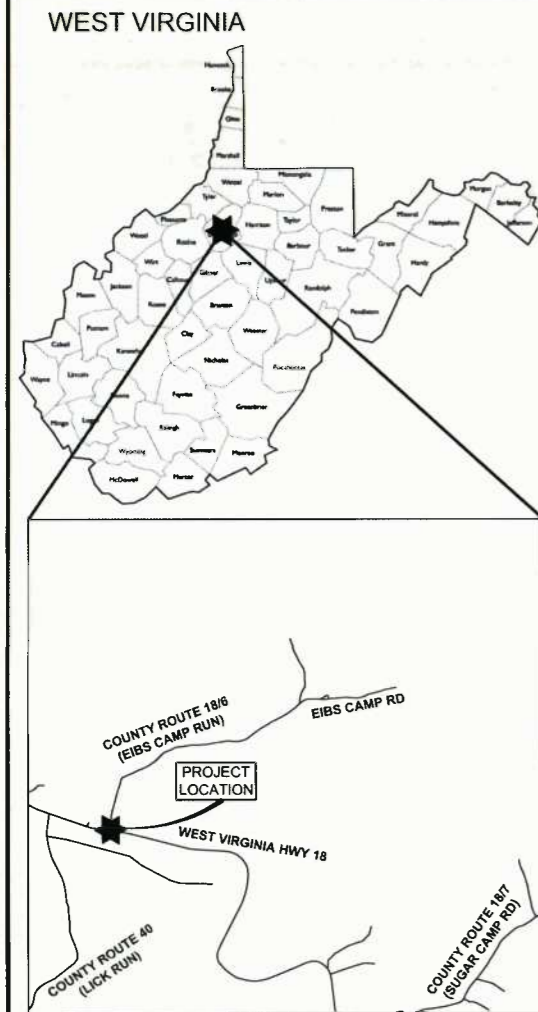
230 Executive Drive, Suite 122  
Cranberry Township, PA 16066  
Phone: 724-772-7072  
www.kleinfelder.com



Signed By: TROY DANIEL # 20043

# EROSION AND SEDIMENT CONTROL PLANS FOR THE EIBS CAMP ROAD IMPROVEMENTS NEW MILTON DISTRICT DODDRIDGE COUNTY, WEST VIRGINIA

LAT/LONG: 39.256498° N ; 80.707736° W



ROAD LOCATION MAP

NTS

**DIRECTIONS TO PROJECT:**

FROM THE WVDEP NORTH CENTRAL REGIONAL OFFICE IN FAIRMONT, WV, HEAD WEST ON PLEASANT VALLEY ROAD TOWARD RUSKIN DR. TAKE A RIGHT ONTO KINGMONT ROAD AND FOLLOW THE ROAD FOR APPROXIMATELY 1 MILE BEFORE TURNING LEFT TO MERGE ONTO I-79 S. TAKE I-79S FOR APPROXIMATELY 13.6 MILES BEFORE TAKING EXIT 119 TO MERGE ONTO US-50 W TOWARD CLARKSBURG/BRIDGEPORT. CONTINUE ON US-50 W FOR APPROXIMATELY 28.3 MILES BEFORE TURNING LEFT ONTO SNOWBIRD ROAD. FOLLOW THIS ROAD FOR APPROXIMATELY 1.6 MILES BEFORE TURNING LEFT ONTO WV-18 S. TRAVEL ON WV-18 S FOR APPROXIMATELY 1.2 MILES AND TURN LEFT ONTO EIBS CAMP RUN. CONTINUE ON EIBS CAMP RUN AND KEEP RIGHT AT THE FORK TO CONTINUE ONTO EIBS CAMP ROAD FOR APPROXIMATELY 0.25 MILES TO ARRIVE AT THE PROJECT SITE ON THE LEFT.

**EXISTING INFORMATION SOURCES**

BENCHMARK:  
HORIZONTAL - NAD83 WEST VIRGINIA STATE PLANES, NORTH ZONE, US FOOT  
VERTICAL - NAVD 88 (GEOID03), US SURVEY FEET

FLOOD INSURANCE RATE MAP (FIRM) NO. 54017C0140C, DATED OCTOBER 4, 2011, DODDRIDGE COUNTY



USGS LOCATION MAP

**PROJECT OWNER**

ENERGY TRANSFER COMPANY  
CONTACT: DANNY GRANTHAM  
1300 MAIN STREET  
HOUSTON, TX 77002  
713-989-7000

**LOCATION SURVEYOR**

ENCOMPASS ENERGY SERVICES, LLC  
CONTACT: TYLER HASTINGS, PLS  
1370 WASHINGTON PIKE, SUITE 308  
BRIDGEVILLE, PA 15017  
412-564-5215

**ENGINEER OF RECORD**

KLEINFELDER EAST, INC.  
CONTACT: TROY DANIEL, PE  
PE 20043  
555 MARKET AVE, SUITE 100  
CANTON, OH 44702  
P: 330-453-2230 EX 804  
F: 330-453-2256

**ENVIRONMENTAL/  
DELINEATION BOUNDARY**

KLEINFELDER EAST, INC.  
230 EXECUTIVE DRIVE, SUITE 122  
CRANBERRY TOWNSHIP, PA 16066  
P: 724-772-7072  
F: 724-772-7079

**TOPO SURVEYOR**

ENCOMPASS ENERGY SERVICES, LLC  
CONTACT: TYLER HASTINGS, PLS  
1370 WASHINGTON PIKE, SUITE 308  
BRIDGEVILLE, PA 15017  
412-564-5215

| SHEET INDEX |                                    |
|-------------|------------------------------------|
| PAGE NO.    | DESCRIPTION                        |
| 1           | COVER PAGE & LOCATION MAP          |
| 2           | EROSION & SEDIMENT CONTROL NOTES   |
| 3           | OVERALL KEY MAP (AERIAL)           |
| 4 - 15      | EROSION & SEDIMENT CONTROL PLANS   |
| 16          | KLF-STREAM08 CROSSING DETAIL       |
| 17          | KLF-STREAM07 CROSSING DETAIL       |
| 18          | KLF-STREAM06 CROSSING DETAIL       |
| 19          | KLF-STREAM04 CROSSING DETAIL       |
| 20 - 21     | KLF-STREAM03 CROSSING DETAIL       |
| 22          | KLF-WETLAND04 CROSSING DETAIL      |
| 23 - 30     | BMP TECHNICAL INSTALLATION DETAILS |
| 31          | OFFSITE SPOIL PILE DETAIL          |

| TOTAL PROJECT DATA          |                  |
|-----------------------------|------------------|
| NAME                        | DISTURBANCE AREA |
| EIBS CAMP ROAD IMPROVEMENTS | 7.41 AC          |

| DESCRIPTION          | NAD 83 (WV NORTH) |              | UTM ZONE 17 (METER) |            |
|----------------------|-------------------|--------------|---------------------|------------|
|                      | LATITUDE          | LONGITUDE    | NORTHING            | EASTING    |
| ACCESS ROAD ENTRANCE | 39.256498° N      | 80.707736° W | 4345281.8 m         | 525216.0 m |

**ISSUE FOR PERMITTING**  
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**SCALE VERIFICATION**  
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**COVER PAGE & LOCATION MAP**

EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA



**PLAN REPRODUCTION WARNING**  
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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.

| EROSION & SEDIMENT CONTROL PLANS |            |
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| PROJECT NO.                      | 20153570   |
| ISSUE DATE                       | 07-29-2016 |
| CURRENT REVISION                 |            |
| DESIGNED BY                      | BHH        |
| DRAWN BY                         | BHH        |
| CHECKED BY                       | BB         |
| APPROVED BY                      | TD         |
| SHEET                            | 1 of 31    |

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 Cranberry Township, PA 16066  
 Phone: 724-772-7072  
 www.kleinfelder.com

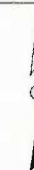


Signed By: TROY DANIEL # 20043

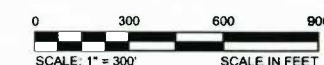
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SCALE: 1" = 300'  
 SCALE IN FEET  
 ORIGINAL DRAWING SIZE IS 22 x 34

OVERALL KEY MAP (AERIAL)

EIBS CAMP ROAD IMPROVEMENTS  
 NEW MILTON DISTRICT, DODDRIDGE COUNTY  
 WEST VIRGINIA

EROSION & SEDIMENT CONTROL PLANS

PROJECT NO. 20162247  
 ISSUE DATE 07-29-2016  
 CURRENT REVISION -  
 DESIGNED BY BHH  
 DRAWN BY BHH  
 CHECKED BY BB  
 APPROVED BY TD



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Signed By: TROY DANIEL # 20043

### REVISIONS

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SCALE: 1" = 20' SCALE IN FEET  
ORIGINAL DRAWING SIZE IS 22 x 34

### EROSION & SEDIMENT CONTROL PLANS

EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

### EROSION & SEDIMENT CONTROL PLANS

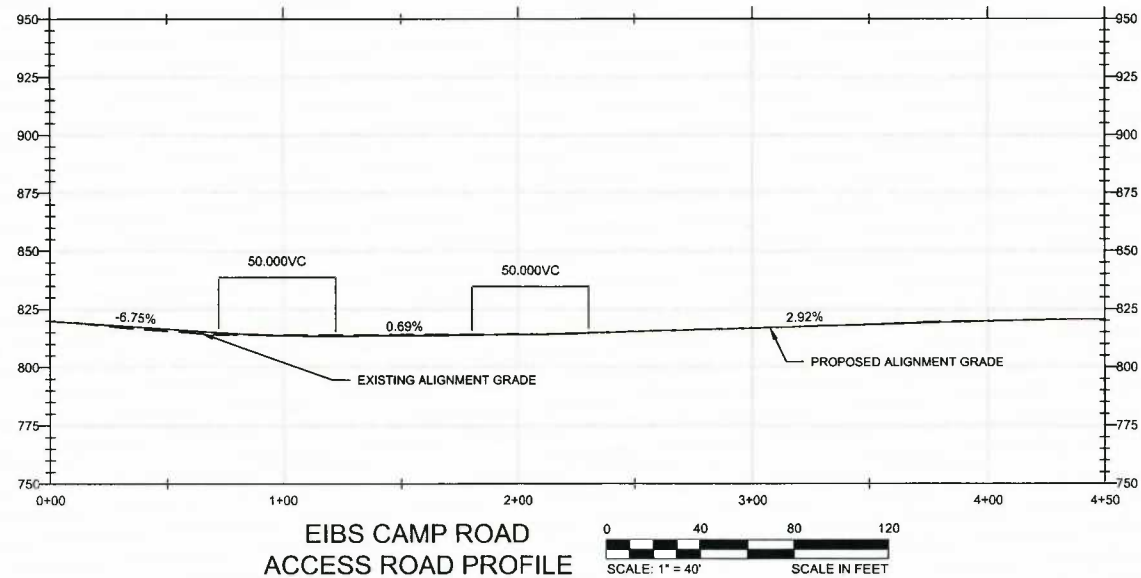
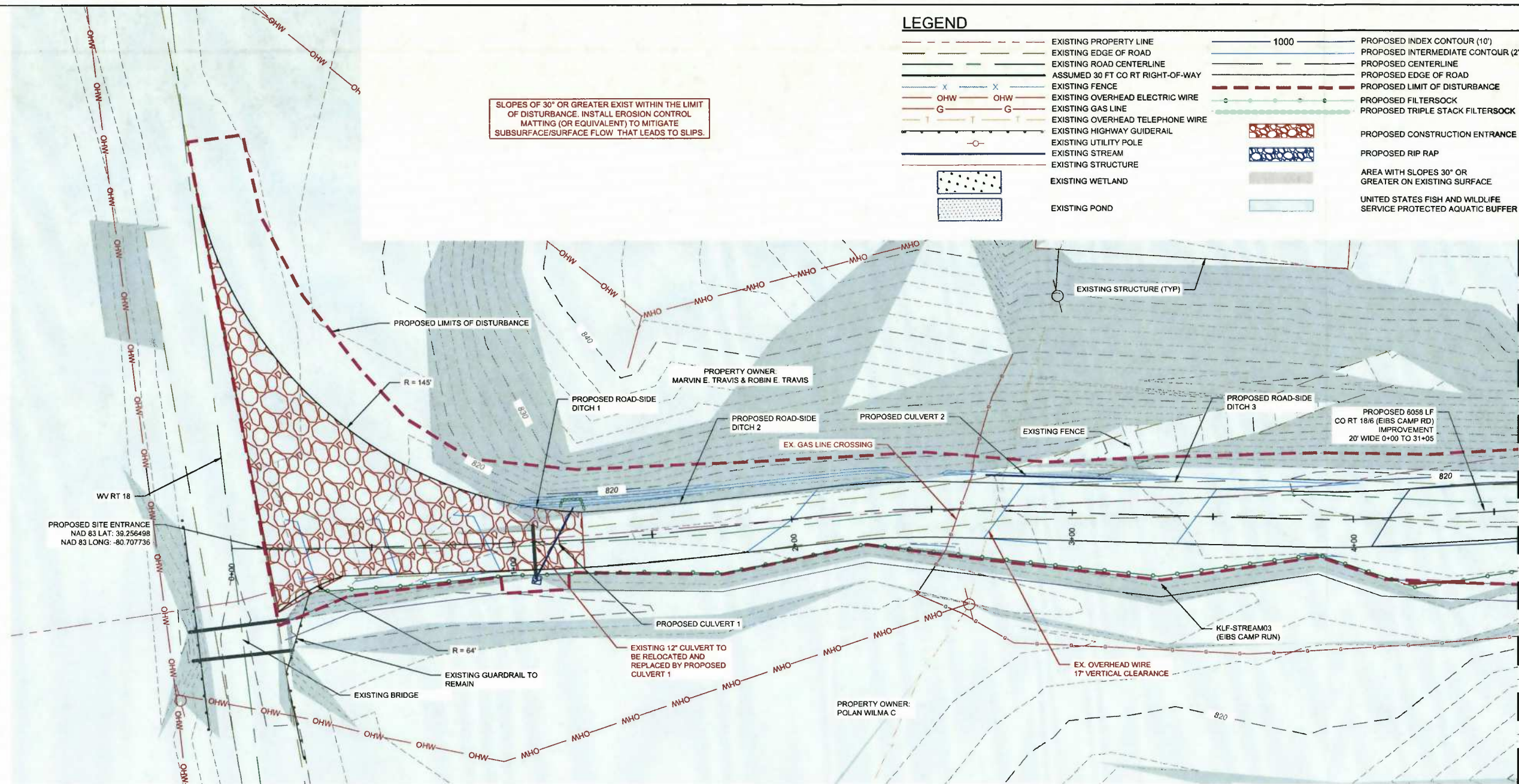
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| CURRENT REVISION | 4          |
| DESIGNED BY      | BHH        |
| DRAWN BY         | BHH        |
| CHECKED BY       | BB         |
| APPROVED BY      | TD         |

SHEET 4 of 31

### LEGEND

- EXISTING PROPERTY LINE
- EXISTING EDGE OF ROAD
- EXISTING ROAD CENTERLINE
- ASSUMED 30 FT CO RT RIGHT-OF-WAY
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC WIRE
- EXISTING GAS LINE
- EXISTING OVERHEAD TELEPHONE WIRE
- EXISTING HIGHWAY GUIDERAIL
- EXISTING UTILITY POLE
- EXISTING STREAM
- EXISTING STRUCTURE
- EXISTING WETLAND
- EXISTING POND
- 1000
- PROPOSED INDEX CONTOUR (10')
- PROPOSED INTERMEDIATE CONTOUR (2')
- PROPOSED CENTERLINE
- PROPOSED EDGE OF ROAD
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED FILTERSOCK
- PROPOSED TRIPLE STACK FILTERSOCK
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED RIP RAP
- AREA WITH SLOPES 30° OR GREATER ON EXISTING SURFACE
- UNITED STATES FISH AND WILDLIFE SERVICE PROTECTED AQUATIC BUFFER

SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.





Signed By: TROY DANIEL # 20043

REVISIONS

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 SCALE: 1" = 20' SCALE IN FEET  
 ORIGINAL DRAWING SIZE IS 22 x 34

**EROSION & SEDIMENT CONTROL PLANS**  
 EIBS CAMP ROAD IMPROVEMENTS  
 NEW MILTON DISTRICT, DODDRIDGE COUNTY  
 WEST VIRGINIA

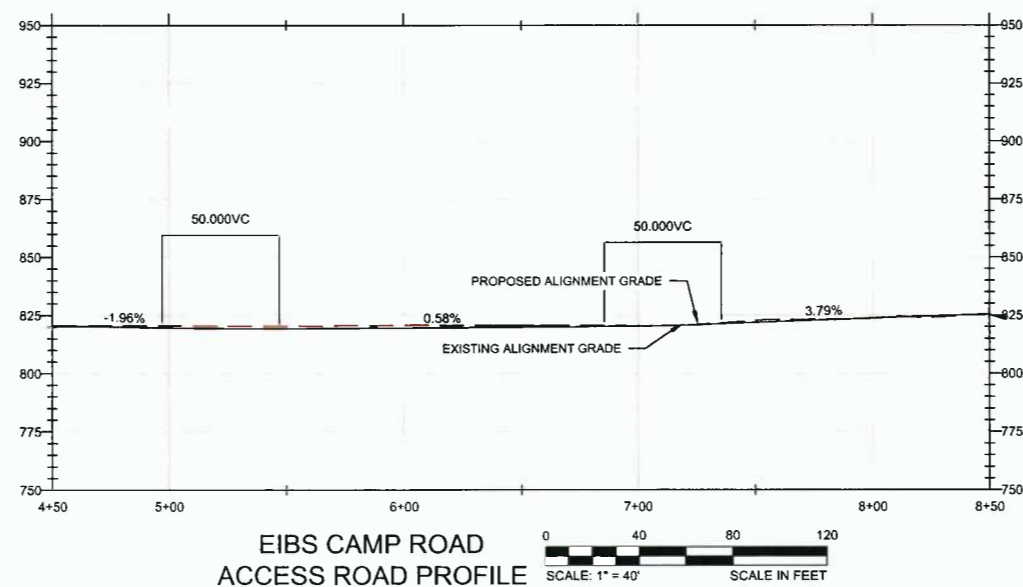
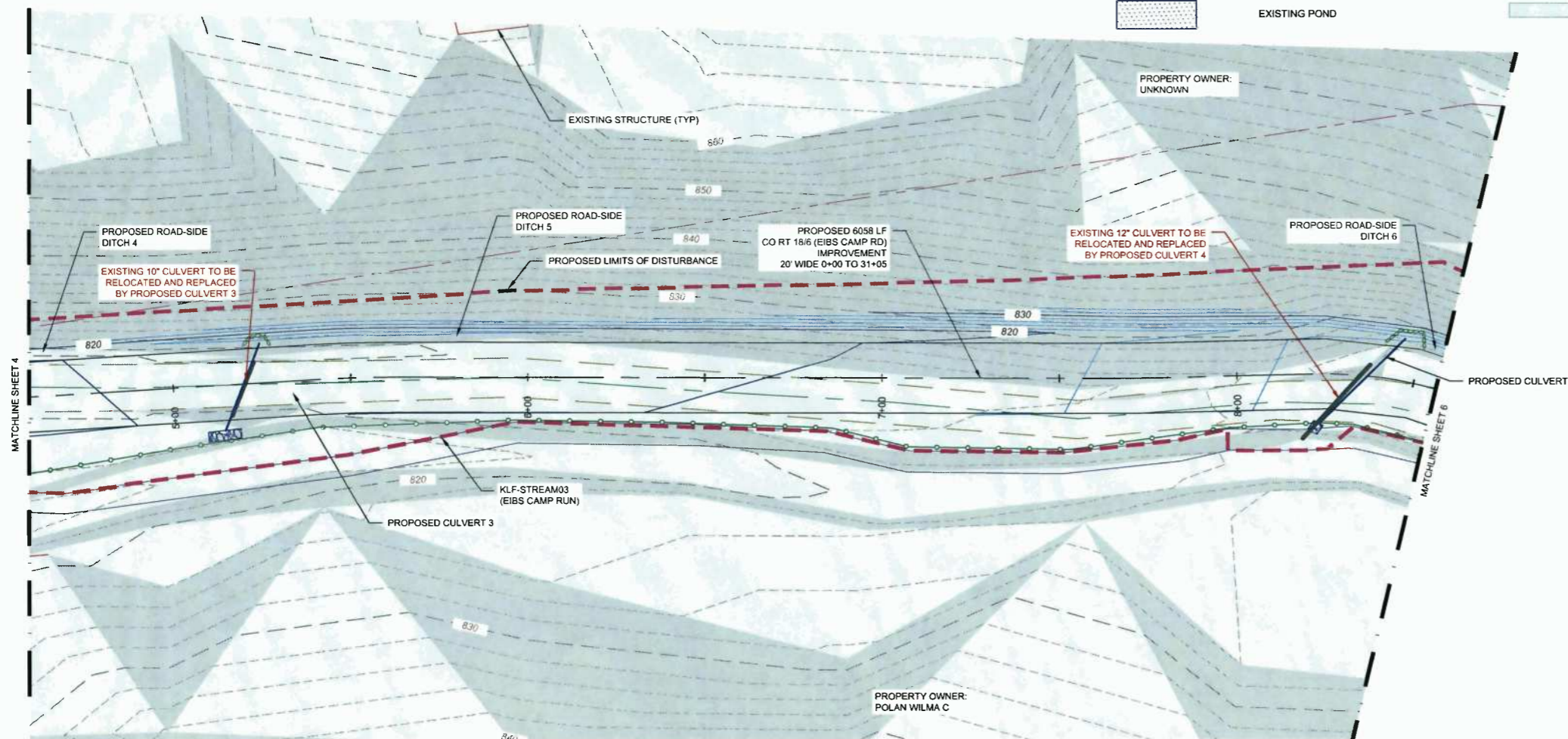
**EROSION & SEDIMENT CONTROL PLANS**

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| CURRENT REVISION | -          |               |
| DESIGNED BY      | BHH        |               |
| DRAWN BY         | BHH        |               |
| CHECKED BY       | BB         | SHEET 5 of 31 |
| APPROVED BY      | TD         |               |

**LEGEND**

- EXISTING PROPERTY LINE
- - - EXISTING EDGE OF ROAD
- - - EXISTING ROAD CENTERLINE
- - - ASSUMED 30 FT CO RT RIGHT-OF-WAY
- X-X- EXISTING FENCE
- G-G- EXISTING OVERHEAD ELECTRIC WIRE
- G-G- EXISTING GAS LINE
- T-T- EXISTING OVERHEAD TELEPHONE WIRE
- EXISTING HIGHWAY GUIDERAIL
- EXISTING UTILITY POLE
- EXISTING STREAM
- EXISTING STRUCTURE
- EXISTING WETLAND
- EXISTING POND
- 1000 --- PROPOSED INDEX CONTOUR (10')
- PROPOSED INTERMEDIATE CONTOUR (2')
- PROPOSED CENTERLINE
- - - PROPOSED EDGE OF ROAD
- - - PROPOSED LIMIT OF DISTURBANCE
- PROPOSED FILTERSOCK
- PROPOSED TRIPLE STACK FILTERSOCK
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED RIP RAP
- AREA WITH SLOPES 30° OR GREATER ON EXISTING SURFACE
- UNITED STATES FISH AND WILDLIFE SERVICE PROTECTED AQUATIC BUFFER

SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.



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SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.

**LEGEND**

- EXISTING PROPERTY LINE
- - - EXISTING EDGE OF ROAD
- - - EXISTING ROAD CENTERLINE
- - - ASSUMED 30 FT CO RT RIGHT-OF-WAY
- X - - - EXISTING FENCE
- OHW - - - EXISTING OVERHEAD ELECTRIC WIRE
- G - - - EXISTING GAS LINE
- T - - - EXISTING OVERHEAD TELEPHONE WIRE
- - - EXISTING HIGHWAY GUIDERAIL
- - - EXISTING UTILITY POLE
- - - EXISTING STREAM
- - - EXISTING STRUCTURE
- [Pattern] EXISTING WETLAND
- [Pattern] EXISTING POND
- 1000 --- PROPOSED INDEX CONTOUR (10')
- PROPOSED INTERMEDIATE CONTOUR (2')
- PROPOSED CENTERLINE
- - - PROPOSED EDGE OF ROAD
- - - PROPOSED LIMIT OF DISTURBANCE
- [Pattern] PROPOSED FILTERSOCK
- [Pattern] PROPOSED TRIPLE STACK FILTERSOCK
- [Pattern] PROPOSED CONSTRUCTION ENTRANCE
- [Pattern] PROPOSED RIP RAP
- [Pattern] AREA WITH SLOPES 30° OR GREATER ON EXISTING SURFACE
- [Pattern] UNITED STATES FISH AND WILDLIFE SERVICE PROTECTED AQUATIC BUFFER

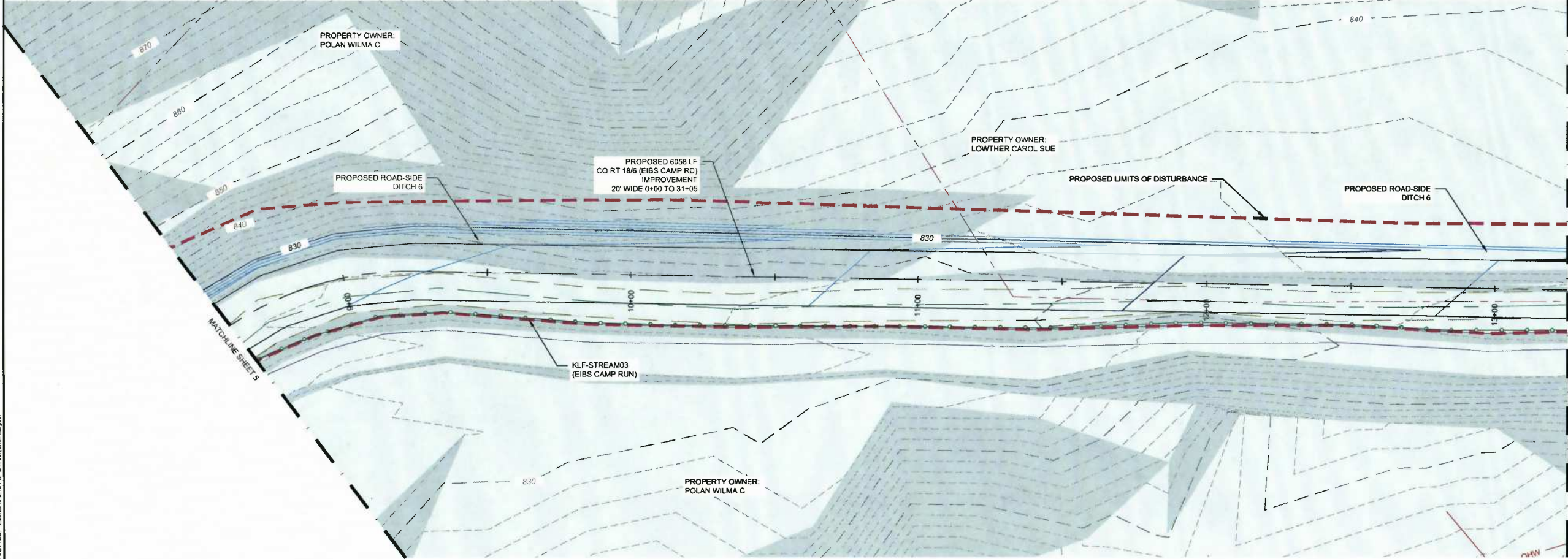


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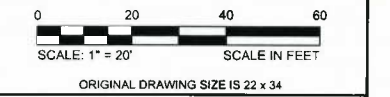
Signed By: TROY DANIEL # 20043

| REVISIONS |             |         |         |      |
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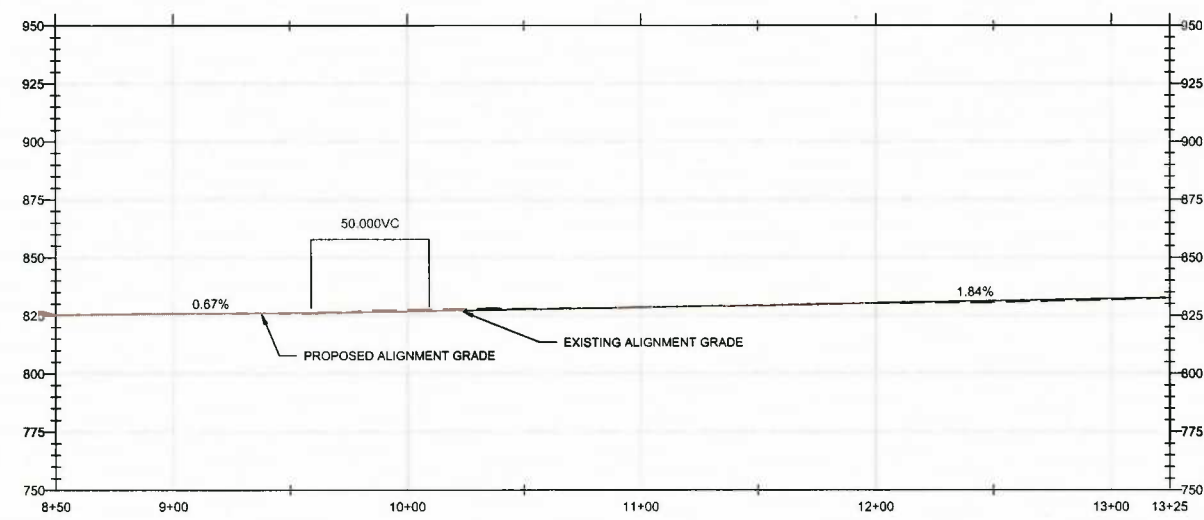


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**SCALE VERIFICATION**  
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**EROSION & SEDIMENT CONTROL PLANS**  
EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA



**EIBS CAMP ROAD ACCESS ROAD PROFILE**  
SCALE: 1" = 40'  
SCALE IN FEET

**EROSION & SEDIMENT CONTROL PLANS**

|                  |            |
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| PROJECT NO.      | 20162247   |
| ISSUE DATE       | 07-29-2016 |
| CURRENT REVISION | -          |
| DESIGNED BY      | BHH        |
| DRAWN BY         | BHH        |
| CHECKED BY       | BB         |
| APPROVED BY      | TD         |

6

SHEET 6 of 31

PLOTTED: 7/29/2016 3:45 PM BY: benjamin.barger

CAD FILE: C:\work\highways\2016\20160808\20160808\20160808\Camp Rd\_ESCP.dwg LAYOUT: 6 EROSION & SEDIMENT CONTROL PLANS

SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.

**LEGEND**

- - - - - EXISTING PROPERTY LINE
- - - - - EXISTING EDGE OF ROAD
- - - - - EXISTING ROAD CENTERLINE
- - - - - ASSUMED 30 FT CO RT RIGHT-OF-WAY
- - - - - EXISTING FENCE
- - - - - EXISTING OVERHEAD ELECTRIC WIRE
- - - - - EXISTING GAS LINE
- - - - - EXISTING OVERHEAD TELEPHONE WIRE
- - - - - EXISTING HIGHWAY GUIDERAIL
- - - - - EXISTING STREAM
- - - - - EXISTING UTILITY POLE
- - - - - EXISTING STRUCTURE
- - - - - EXISTING WETLAND
- - - - - EXISTING POND
- 1000
- PROPOSED INDEX CONTOUR (10')
- PROPOSED INTERMEDIATE CONTOUR (2')
- PROPOSED CENTERLINE
- PROPOSED EDGE OF ROAD
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED FILTERSOCK
- PROPOSED TRIPLE STACK FILTERSOCK
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED RIP RAP
- AREA WITH SLOPES 30° OR GREATER ON EXISTING SURFACE
- UNITED STATES FISH AND WILDLIFE SERVICE PROTECTED AQUATIC BUFFER



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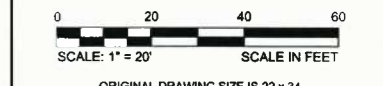
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**SCALE VERIFICATION**

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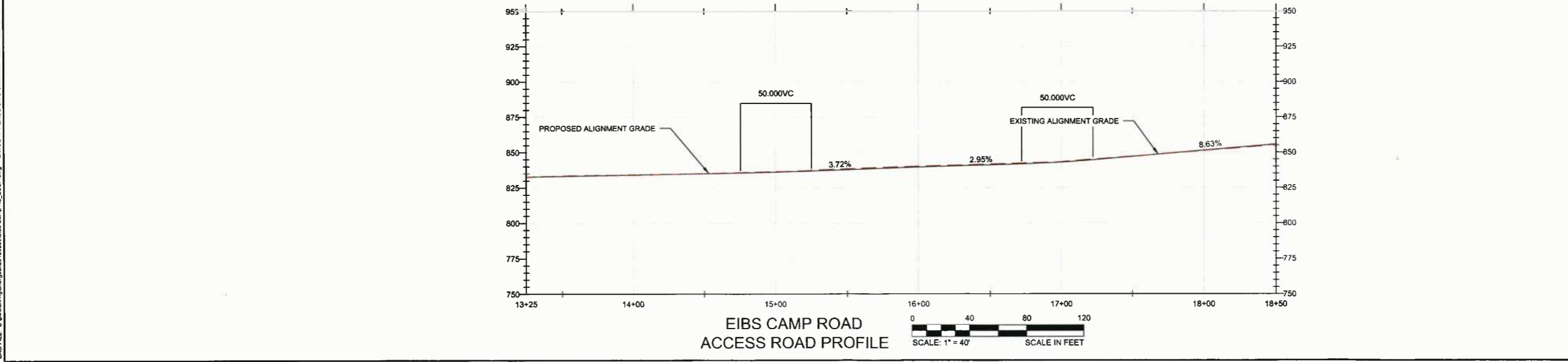
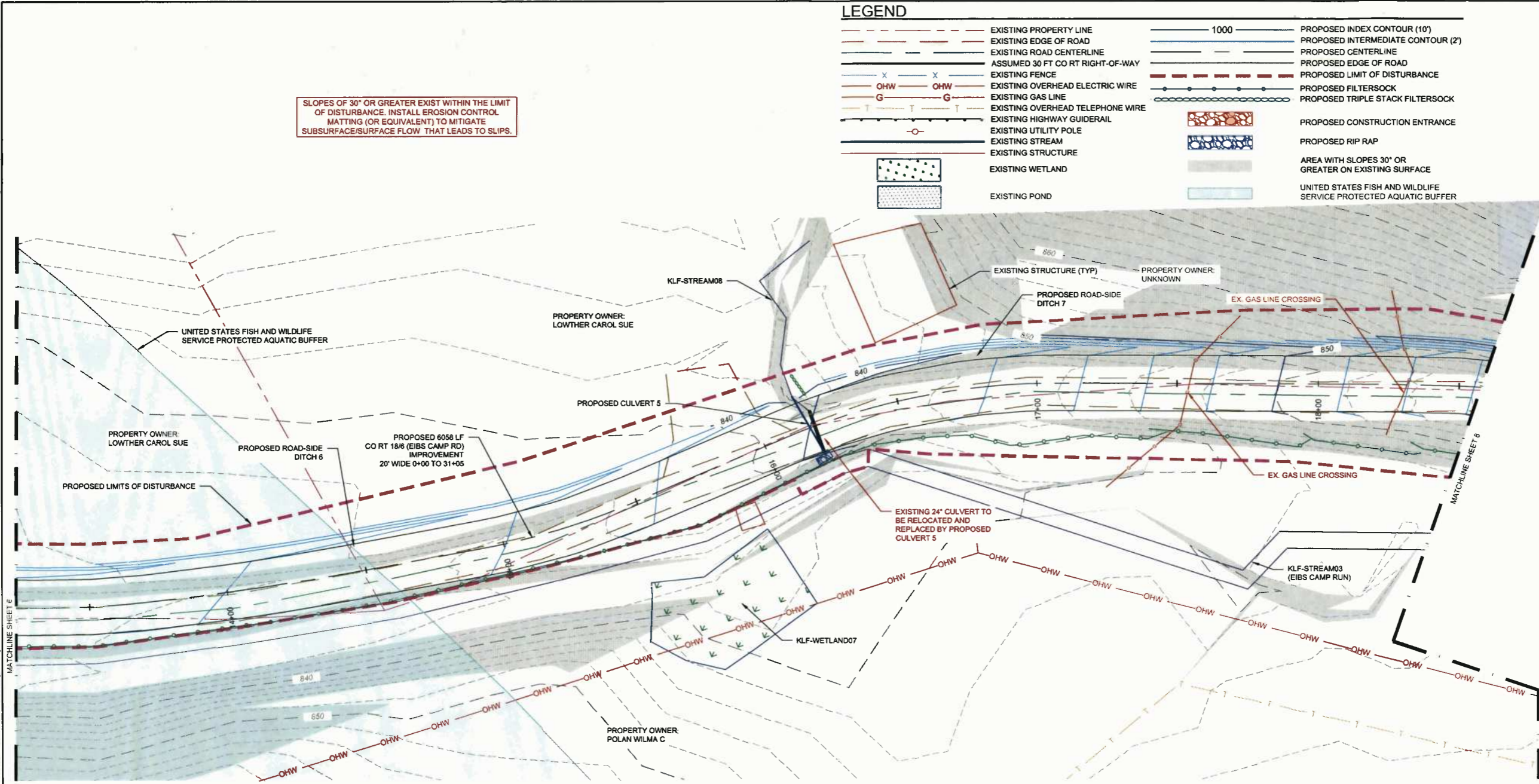
IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY



**EROSION & SEDIMENT CONTROL PLANS**

EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

| EROSION & SEDIMENT CONTROL PLANS |            |
|----------------------------------|------------|
| PROJECT NO.                      | 20162247   |
| ISSUE DATE                       | 07-29-2016 |
| CURRENT REVISION                 | -          |
| DESIGNED BY                      | BHH        |
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| SHEET                            | 7 of 31    |



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 MATCHLINE SHEET E  
 MATCHLINE SHEET B

SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.

### LEGEND

- EXISTING PROPERTY LINE
- EXISTING EDGE OF ROAD
- EXISTING ROAD CENTERLINE
- ASSUMED 30 FT CO RT RIGHT-OF-WAY
- X X EXISTING FENCE
- OHW OHW EXISTING OVERHEAD ELECTRIC WIRE
- G G EXISTING GAS LINE
- T T EXISTING OVERHEAD TELEPHONE WIRE
- EXISTING HIGHWAY GUIDERAIL
- EXISTING UTILITY POLE
- EXISTING STREAM
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- 1000 --- PROPOSED INDEX CONTOUR (10')
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- PROPOSED EDGE OF ROAD
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED FILTERSOCK
- PROPOSED TRIPLE STACK FILTERSOCK
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**SCALE VERIFICATION**

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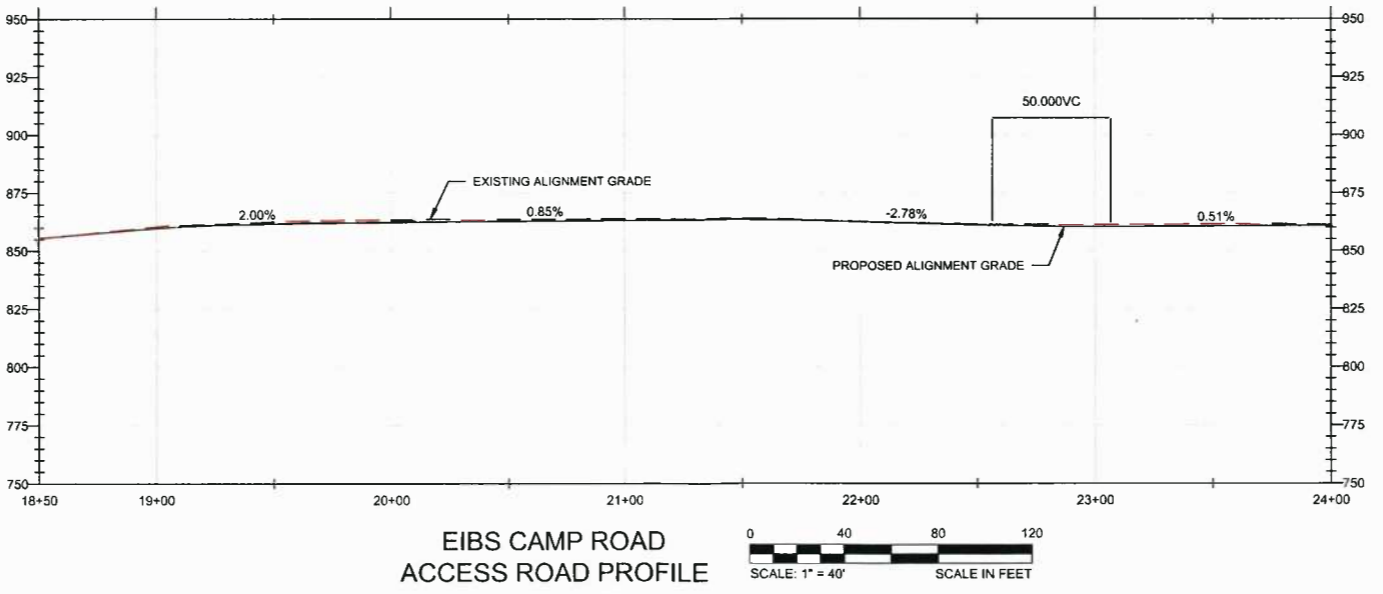
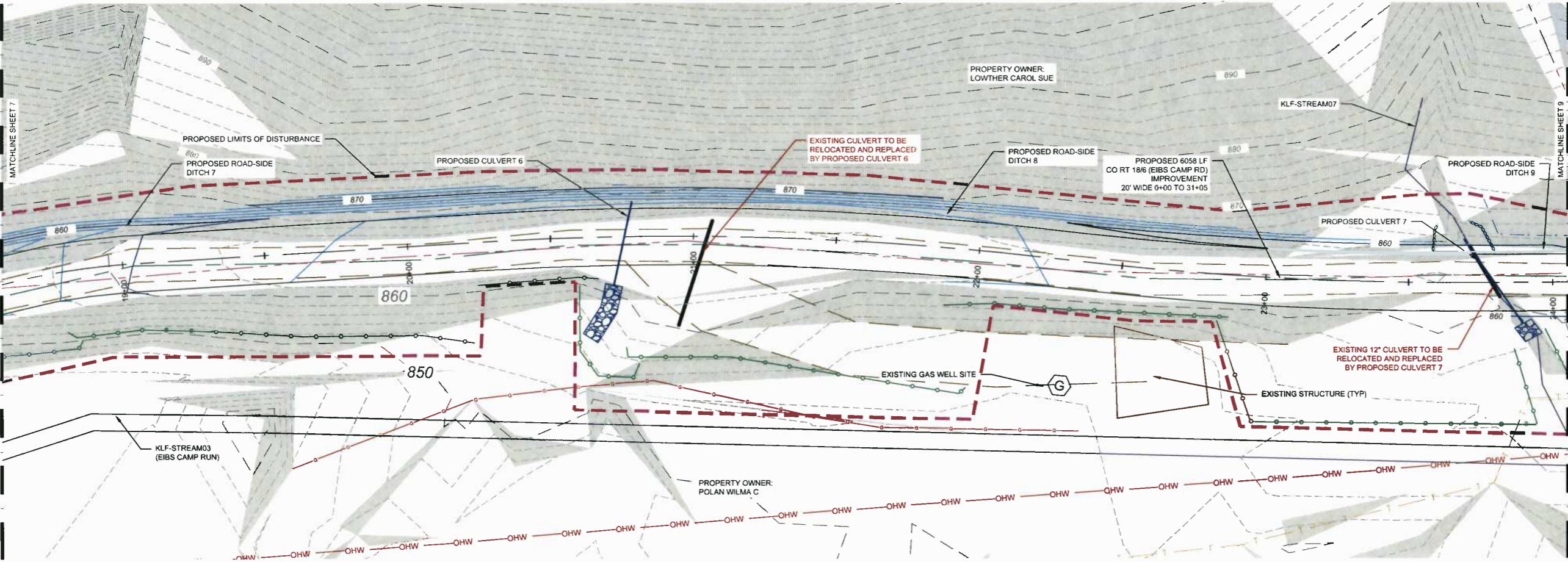
SCALE: 1" = 20'

IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

ORIGINAL DRAWING SIZE IS 22 x 34

**EROSION & SEDIMENT CONTROL PLANS**  
EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

| EROSION & SEDIMENT CONTROL PLANS |            |
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| PROJECT NO.                      | 20162247   |
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| DESIGNED BY                      | BHH        |
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| SHEET                            | 8 of 31    |



FLOTTED: 7/29/2016 3:45 PM BY: benjamin.burgst

CAD FILE: C:\pwworking\share\2016\07\29\16\1096807\Eib Camp Rd\_ESCP.dwg LAYOUT: 8 EROSION & SEDIMENT CONTROL PLANS



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IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

SCALE: 1" = 20'

SCALE IN FEET

ORIGINAL DRAWING SIZE IS 22 x 34

**EROSION & SEDIMENT CONTROL PLANS**

EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

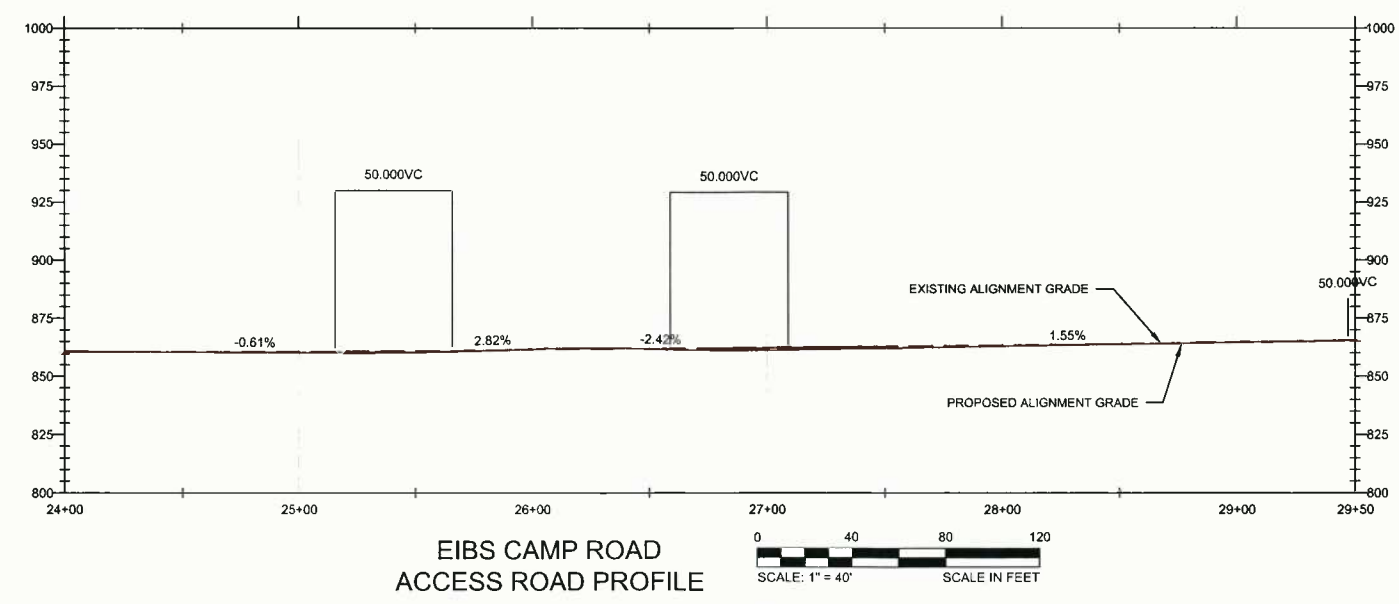
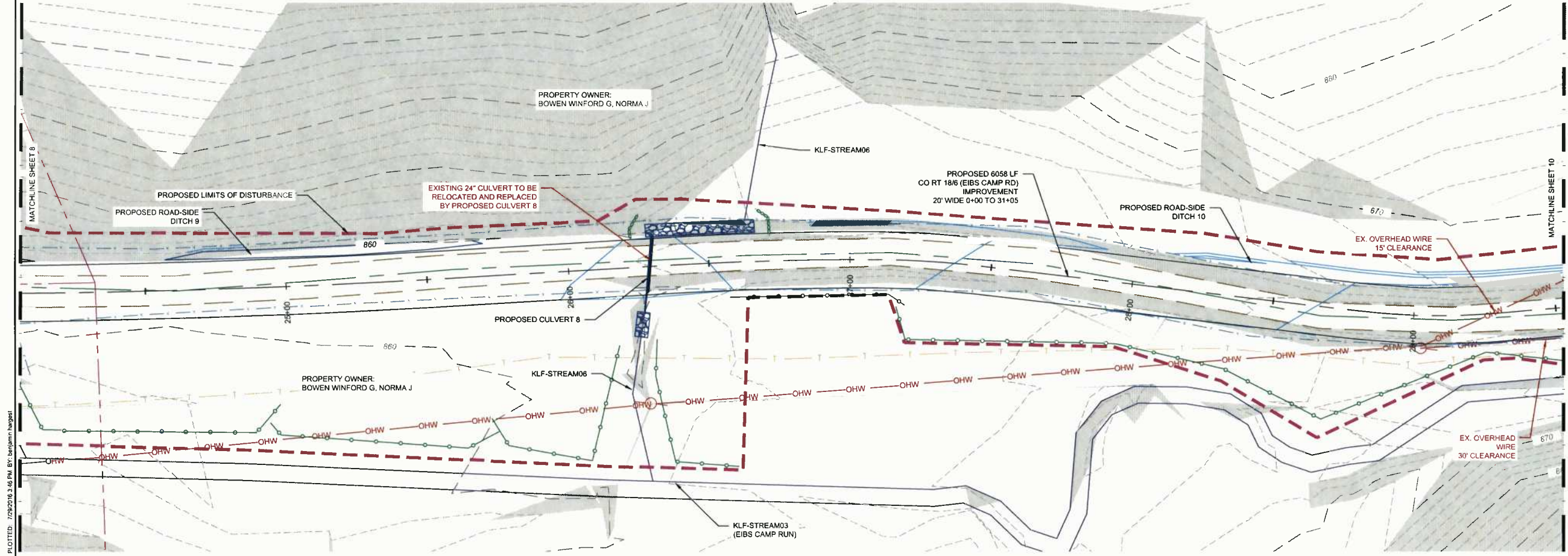
**EROSION & SEDIMENT CONTROL PLANS**

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| ISSUE DATE       | 07-29-2016 |
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| APPROVED BY      | TD         |

**LEGEND**

- - - - - EXISTING PROPERTY LINE
- 1000 ——— PROPOSED INDEX CONTOUR (10')
- - - - - EXISTING EDGE OF ROAD
- PROPOSED INTERMEDIATE CONTOUR (2')
- - - - - EXISTING ROAD CENTERLINE
- PROPOSED CENTERLINE
- - - - - ASSUMED 30 FT CO RT RIGHT-OF-WAY
- - - - - PROPOSED EDGE OF ROAD
- X - - - - - X EXISTING FENCE
- - - - - PROPOSED LIMIT OF DISTURBANCE
- OHW — OHW EXISTING OVERHEAD ELECTRIC WIRE
- G - - - - - G EXISTING GAS LINE
- PROPOSED FILTERSOCK
- PROPOSED TRIPLE STACK FILTERSOCK
- EXISTING OVERHEAD TELEPHONE WIRE
- [Pattern] PROPOSED CONSTRUCTION ENTRANCE
- EXISTING HIGHWAY GUIDERAIL
- [Pattern] PROPOSED RIP RAP
- EXISTING UTILITY POLE
- [Pattern] AREA WITH SLOPES 30° OR GREATER ON EXISTING SURFACE
- EXISTING STREAM
- [Pattern] UNITED STATES FISH AND WILDLIFE SERVICE PROTECTED AQUATIC BUFFER
- EXISTING STRUCTURE
- [Pattern] EXISTING WETLAND
- [Pattern] EXISTING POND

SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.



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 LAYOUT: 8 EROSION & SEDIMENT CONTROL PLANS  
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SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.

**LEGEND**

- EXISTING PROPERTY LINE
- EXISTING EDGE OF ROAD
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- ASSUMED 30 FT CO RT RIGHT-OF-WAY
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- 1000 PROPOSED INDEX CONTOUR (10')
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- AREA WITH SLOPES 30° OR GREATER ON EXISTING SURFACE
- UNITED STATES FISH AND WILDLIFE SERVICE PROTECTED AQUATIC BUFFER



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**SCALE VERIFICATION**

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SCALE: 1" = 20'

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SCALE: 1" = 20' SCALE IN FEET  
ORIGINAL DRAWING SIZE IS 22 x 34

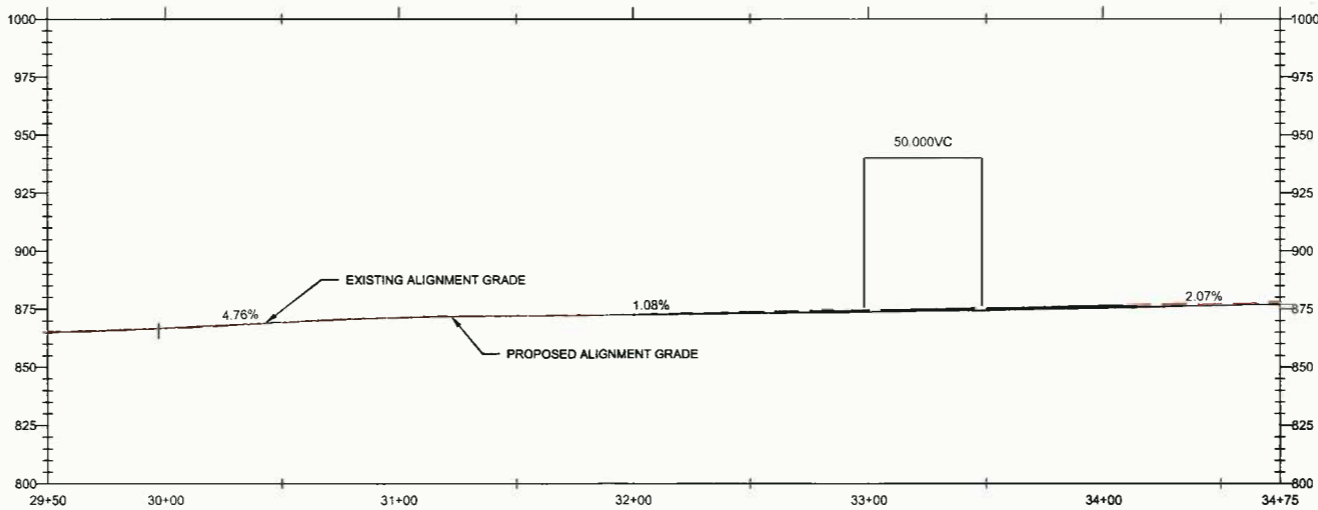
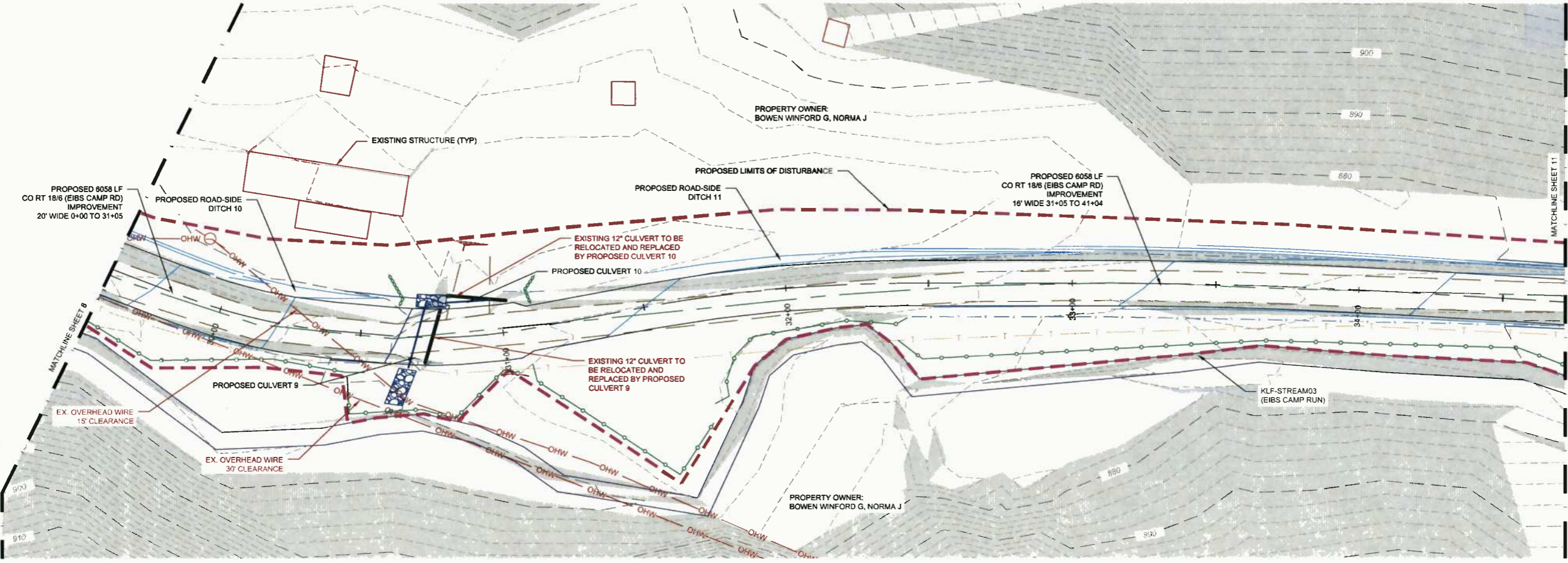
**EROSION & SEDIMENT CONTROL PLANS**

EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

| EROSION & SEDIMENT CONTROL PLANS |            |
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| PROJECT NO.                      | 20162247   |
| ISSUE DATE                       | 07-29-2016 |
| CURRENT REVISION                 | -          |
| DESIGNED BY                      | BHH        |
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10 of 31



EIBS CAMP ROAD  
ACCESS ROAD PROFILE

0 40 80 120  
SCALE: 1" = 40' SCALE IN FEET

PLOTTED: 7/29/2016 3:46 PM BY: beryann.hunter  
CAD FILE: C:\work\ksp\hargadon\066856a\Camp Rd\_ESCP.dwg LAYOUT: 10 EROSION & SEDIMENT CONTROL PLANS



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ORIGINAL DRAWING SIZE IS 22 x 34

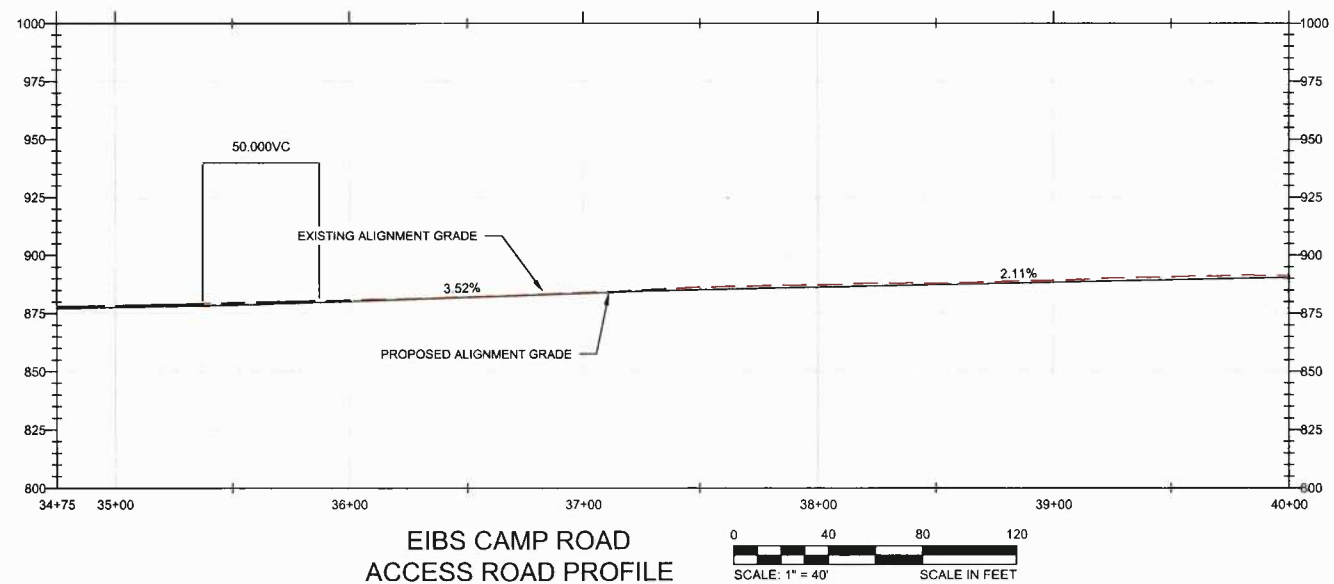
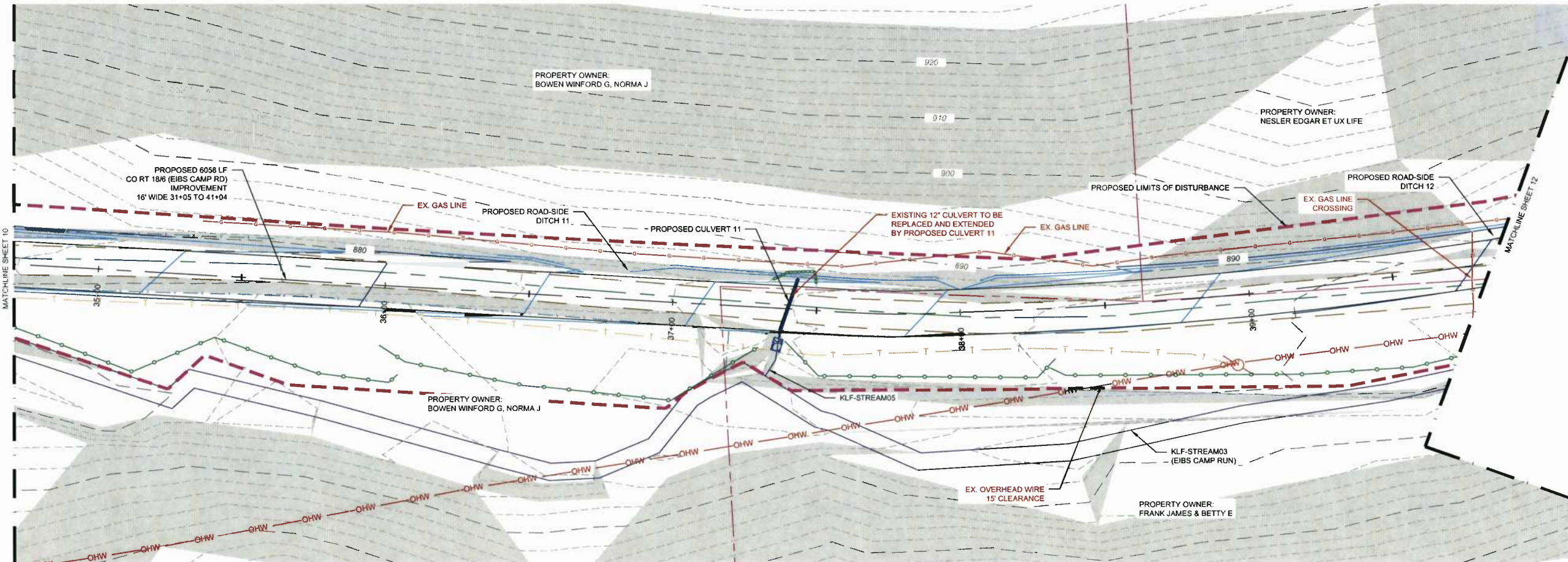
**EROSION & SEDIMENT CONTROL PLANS**  
EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
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| APPROVED BY                      | TD         |
| SHEET                            | 11         |
| 11 of 31                         |            |

**LEGEND**

- EXISTING PROPERTY LINE
- EXISTING EDGE OF ROAD
- EXISTING ROAD CENTERLINE
- ASSUMED 30 FT CO RT RIGHT-OF-WAY
- X-X- EXISTING FENCE
- OHW-OHW- EXISTING OVERHEAD ELECTRIC WIRE
- G-G- EXISTING GAS LINE
- T-T- EXISTING OVERHEAD TELEPHONE WIRE
- - - EXISTING HIGHWAY GUIDERAIL
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- - - EXISTING STREAM
- - - EXISTING STRUCTURE
- [Pattern] EXISTING WETLAND
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- 1000 --- PROPOSED INDEX CONTOUR (10')
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- [Pattern] PROPOSED CONSTRUCTION ENTRANCE
- [Pattern] PROPOSED RIP RAP
- [Pattern] AREA WITH SLOPES 30° OR GREATER ON EXISTING SURFACE
- [Pattern] UNITED STATES FISH AND WILDLIFE SERVICE PROTECTED AQUATIC BUFFER

SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.



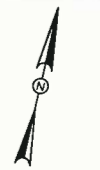
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CAD FILE: C:\working\sharpe\2016\20160609\Eibs Camp Rd ESCP.dwg LAYOUT: 11 EROSION & SEDIMENT CONTROL PLANS



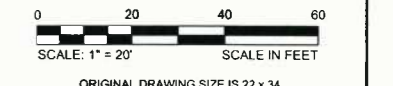
Signed By: TROY DANIEL # 20043

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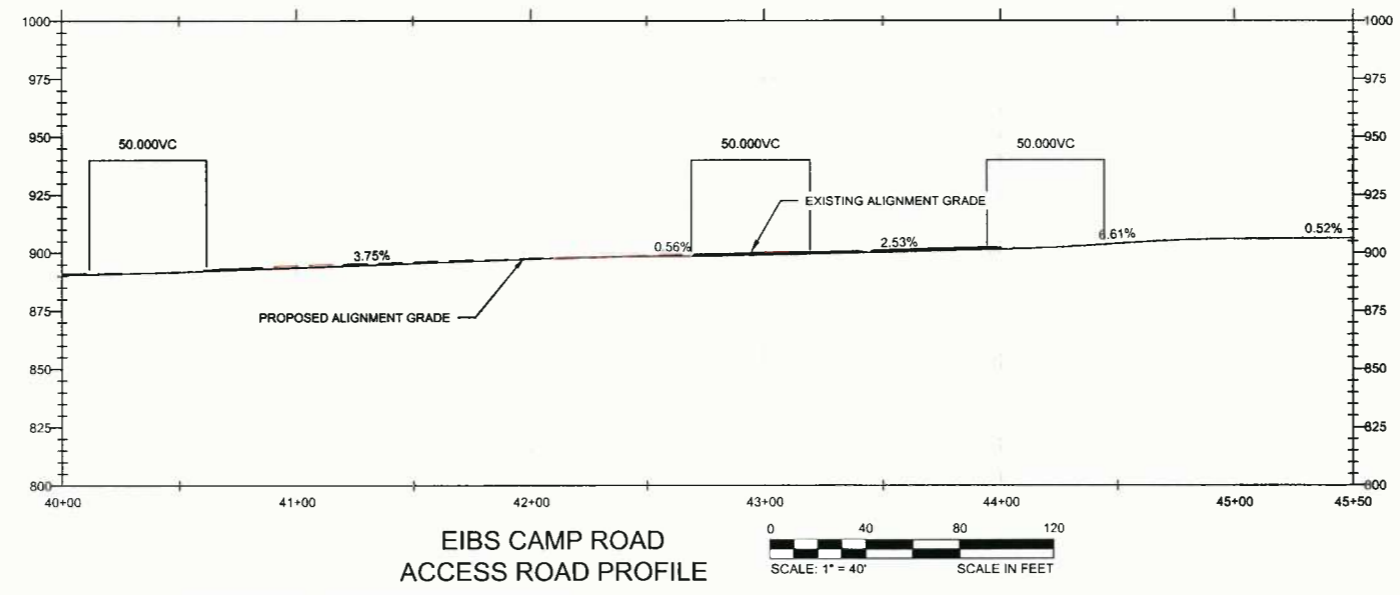
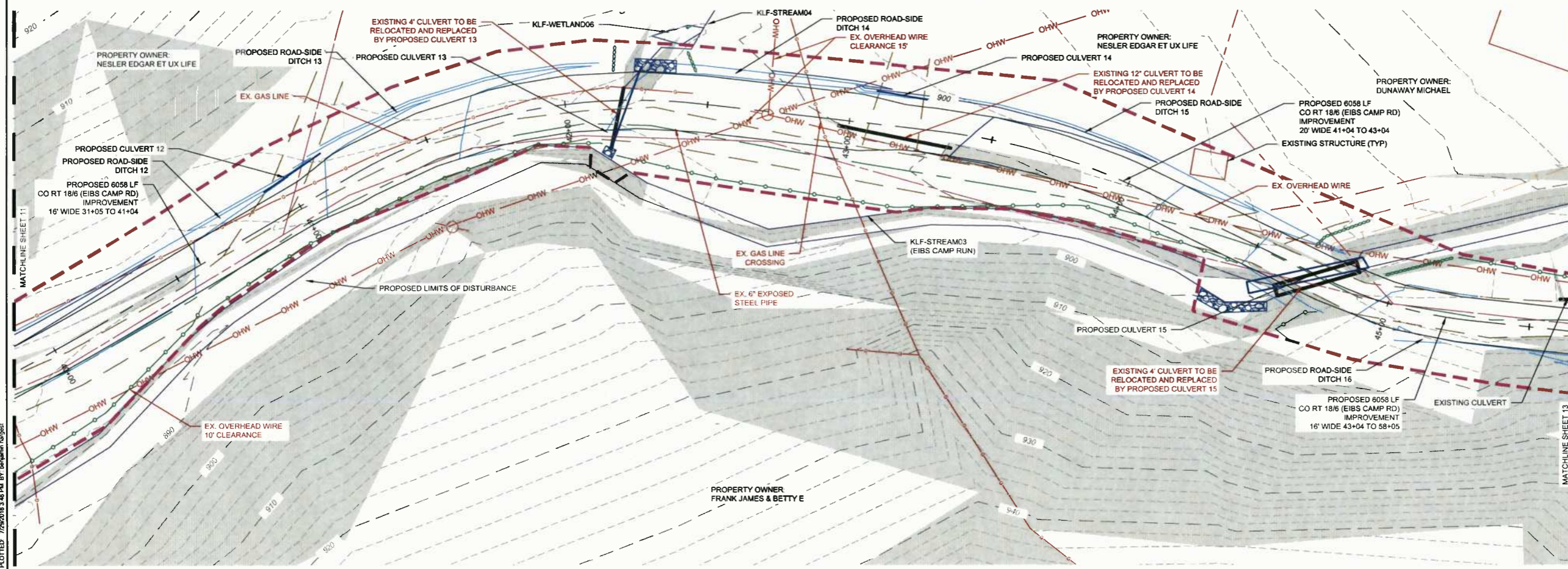
**EROSION & SEDIMENT CONTROL PLANS**  
EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

| EROSION & SEDIMENT CONTROL PLANS |            |
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| DESIGNED BY                      | BHH        |
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| CHECKED BY                       | BB         |
| APPROVED BY                      | TD         |
| SHEET                            | 12 of 31   |

**LEGEND**

- EXISTING PROPERTY LINE
- EXISTING EDGE OF ROAD
- EXISTING ROAD CENTERLINE
- ASSUMED 30 FT CO RT RIGHT-OF-WAY
- X X EXISTING FENCE
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PLOTTED: 7/29/2016 3:46 PM BY: benjamin bargert  
CAD FILE: C:\work\pgh\charge\10968\Eas Camp Rd\_ESCP.dwg LAYOUT: 12 EROSION & SEDIMENT CONTROL PLANS



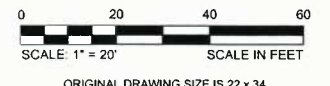
Signed By: TROY DANIEL # 20043

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**ISSUE FOR PERMITTING**  
NOT FOR CONSTRUCTION



**SCALE VERIFICATION**  
THIS BAR IS 1 INCH IN LENGTH  
ON ORIGINAL DRAWING  
0 1"  
IF IT'S NOT 1 INCH ON THIS  
SHEET ADJUST YOUR  
SCALES ACCORDINGLY

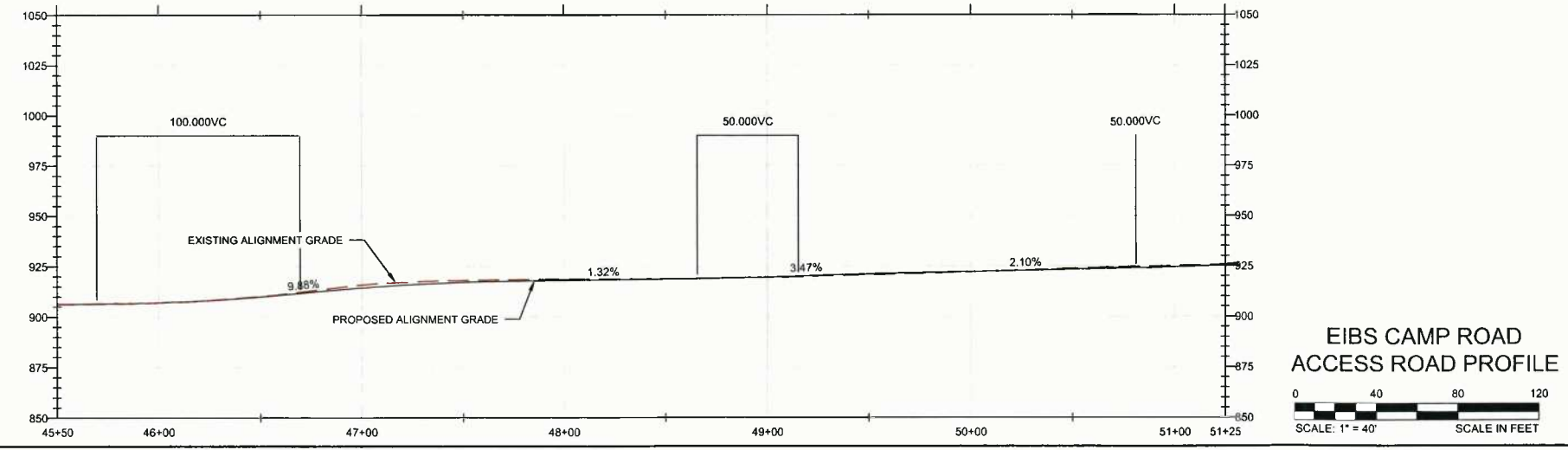
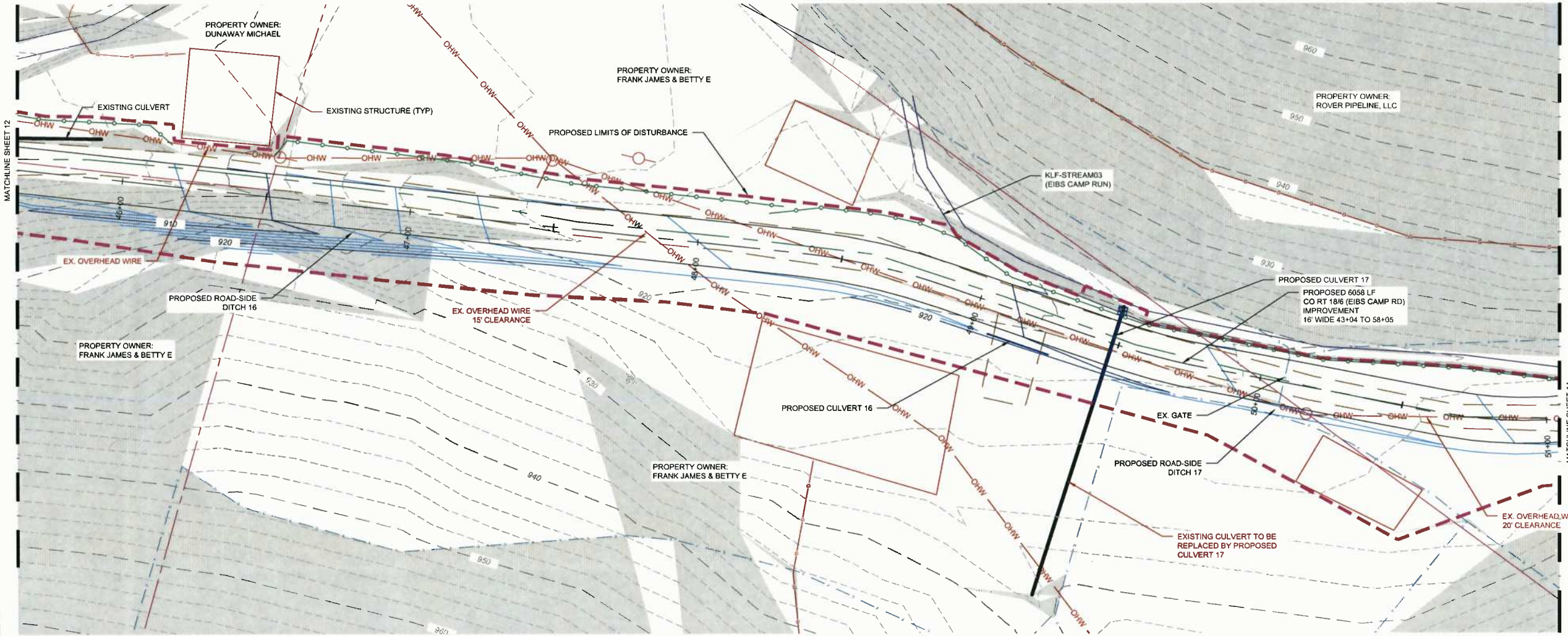


**EROSION & SEDIMENT CONTROL PLANS**  
EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

| EROSION & SEDIMENT CONTROL PLANS |            | 13 |
|----------------------------------|------------|----|
| PROJECT NO.                      | 20162247   |    |
| ISSUE DATE                       | 07-29-2016 |    |
| CURRENT REVISION                 |            |    |
| DESIGNED BY                      | BHH        |    |
| DRAWN BY                         | BHH        |    |
| CHECKED BY                       | BB         |    |
| APPROVED BY                      | TD         |    |
| SHEET                            | 13 of 31   |    |

- LEGEND**
- - - - - EXISTING PROPERTY LINE
  - - - - - EXISTING EDGE OF ROAD
  - - - - - EXISTING ROAD CENTERLINE
  - - - - - ASSUMED 30 FT CO RT RIGHT-OF-WAY
  - x - x - EXISTING FENCE
  - OHW - OHW - EXISTING OVERHEAD ELECTRIC WIRE
  - G - G - EXISTING GAS LINE
  - - - - - EXISTING OVERHEAD TELEPHONE WIRE
  - - - - - EXISTING HIGHWAY GUIDERAIL
  - - - - - EXISTING UTILITY POLE
  - - - - - EXISTING STREAM
  - - - - - EXISTING STRUCTURE
  - - - - - EXISTING WETLAND
  - - - - - EXISTING POND
  - - - - - 1000
  - - - - - PROPOSED INDEX CONTOUR (10')
  - - - - - PROPOSED INTERMEDIATE CONTOUR (2')
  - - - - - PROPOSED CENTERLINE
  - - - - - PROPOSED EDGE OF ROAD
  - - - - - PROPOSED LIMIT OF DISTURBANCE
  - - - - - PROPOSED FILTERSOCK
  - - - - - PROPOSED TRIPLE STACK FILTERSOCK
  - [Pattern] PROPOSED CONSTRUCTION ENTRANCE
  - [Pattern] PROPOSED RIP RAP
  - [Pattern] AREA WITH SLOPES 30° OR GREATER ON EXISTING SURFACE
  - [Pattern] UNITED STATES FISH AND WILDLIFE SERVICE PROTECTED AQUATIC BUFFER

SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.



CAD FILE: C:\www\ksh\hgh\hgh\d\1068888\Bds\_Camp\_Rd\_ESCP.dwg LAYOUT: 13 EROSION & SEDIMENT CONTROL PLANS PLOTTED: 7/29/2016 3:46 PM BY: bshannon/harger



SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.

**LEGEND**

- EXISTING PROPERTY LINE
- EXISTING EDGE OF ROAD
- EXISTING ROAD CENTERLINE
- ASSUMED 30 FT CO RT RIGHT-OF-WAY
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC WIRE
- EXISTING GAS LINE
- EXISTING OVERHEAD TELEPHONE WIRE
- EXISTING HIGHWAY GUIDERAIL
- EXISTING UTILITY POLE
- EXISTING STREAM
- EXISTING STRUCTURE
- EXISTING WETLAND
- EXISTING POND
- PROPOSED INDEX CONTOUR (10')
- PROPOSED INTERMEDIATE CONTOUR (2')
- PROPOSED CENTERLINE
- PROPOSED EDGE OF ROAD
- PROPOSED LIMIT OF DISTURBANCE
- PROPOSED FILTERSOCK
- PROPOSED TRIPLE STACK FILTERSOCK
- PROPOSED CONSTRUCTION ENTRANCE
- PROPOSED RIP RAP
- AREA WITH SLOPES 30° OR GREATER ON EXISTING SURFACE
- UNITED STATES FISH AND WILDLIFE SERVICE PROTECTED AQUATIC BUFFER



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Signed By: TROY DANIEL # 20043

**REVISIONS**

| REV | DESCRIPTION | DSN | CHK | DATE |
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**ISSUE FOR PERMITTING**  
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**SCALE VERIFICATION**  
THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING  
IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY



ORIGINAL DRAWING SIZE IS 22 x 34

**EROSION & SEDIMENT CONTROL PLANS**

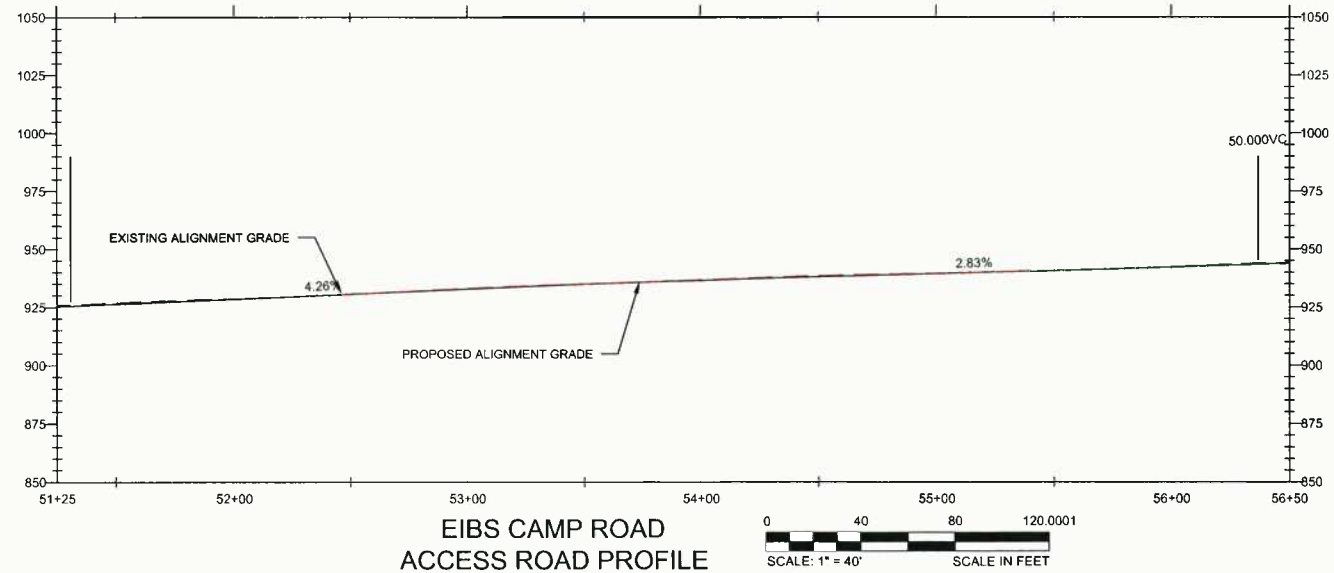
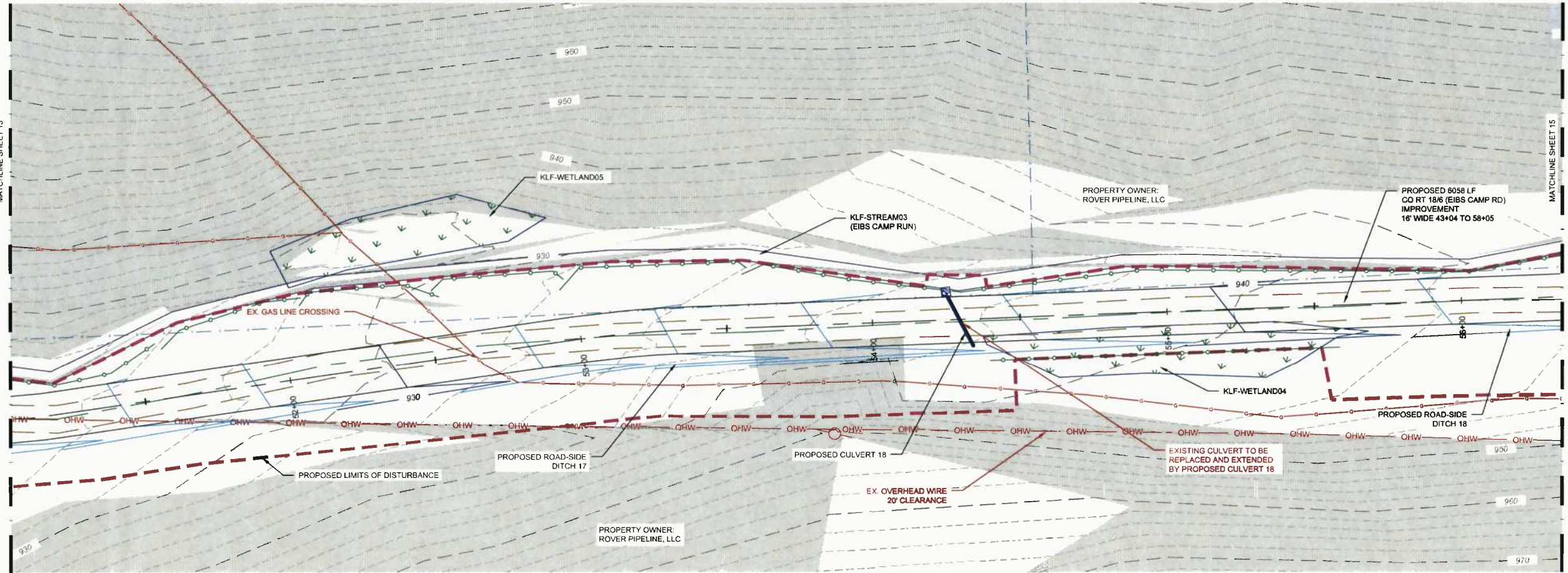
EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

**EROSION & SEDIMENT CONTROL PLANS**

|                  |            |
|------------------|------------|
| PROJECT NO.      | 20162247   |
| ISSUE DATE       | 07-29-2016 |
| CURRENT REVISION | -          |
| DESIGNED BY      | BHH        |
| DRAWN BY         | BHH        |
| CHECKED BY       | BB         |
| APPROVED BY      | TD         |

14

14 of 31



PLOTTED: 7/29/2016 3:47 PM BY: banglamin, nargis  
 CAD FILE: C:\www\kingshighway\2016\20160729\Eas\_Camp\_Rd\_ESCP.dwg LAYOUT: 14 EROSION & SEDIMENT CONTROL PLANS



Signed By: TROY DANIEL # 20043

| REVISIONS |             |     |     |      |
|-----------|-------------|-----|-----|------|
| REV       | DESCRIPTION | DSN | CHK | DATE |
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**ISSUE FOR PERMITTING**  
NOT FOR CONSTRUCTION

**SCALE VERIFICATION**

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

SCALE: 1" = 20'

SCALE IN FEET

ORIGINAL DRAWING SIZE IS 22 x 34

IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

**EROSION & SEDIMENT CONTROL PLANS**

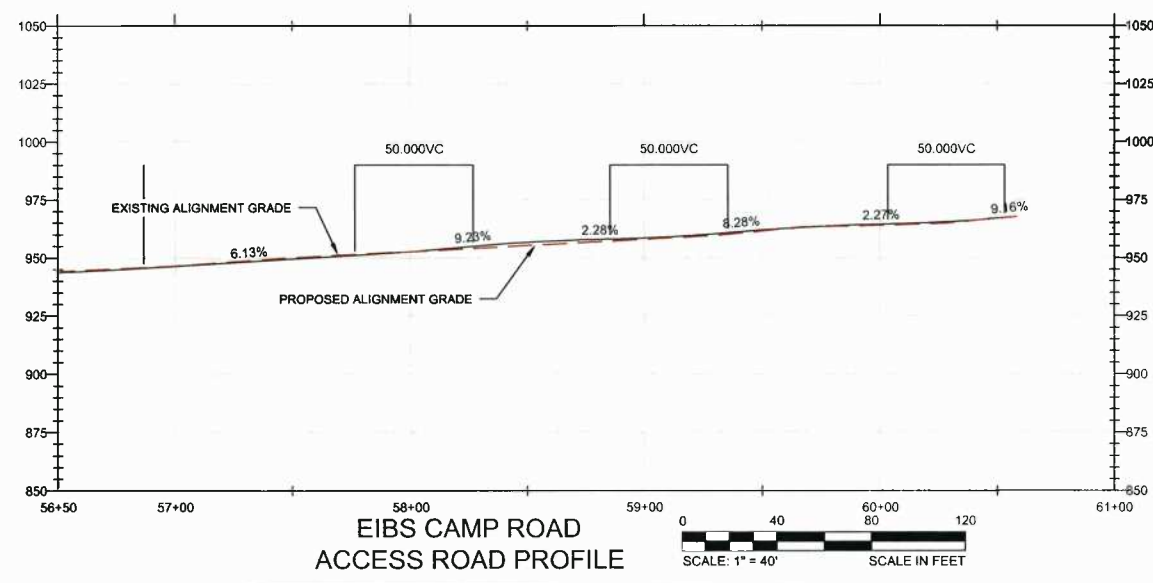
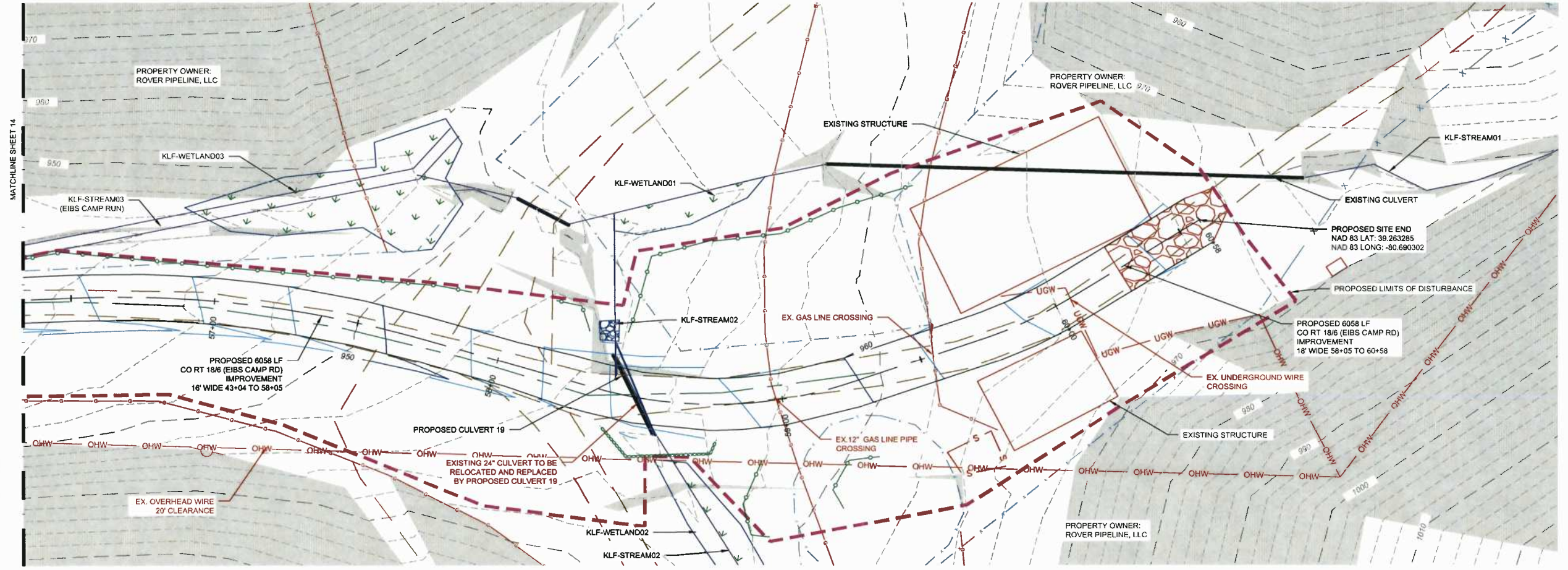
EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

| EROSION & SEDIMENT CONTROL PLANS |            |
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| PROJECT NO.                      | 20162247   |
| ISSUE DATE                       | 07-29-2016 |
| CURRENT REVISION                 | -          |
| DESIGNED BY                      | BHH        |
| DRAWN BY                         | BHH        |
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| APPROVED BY                      | TD         |

**LEGEND**

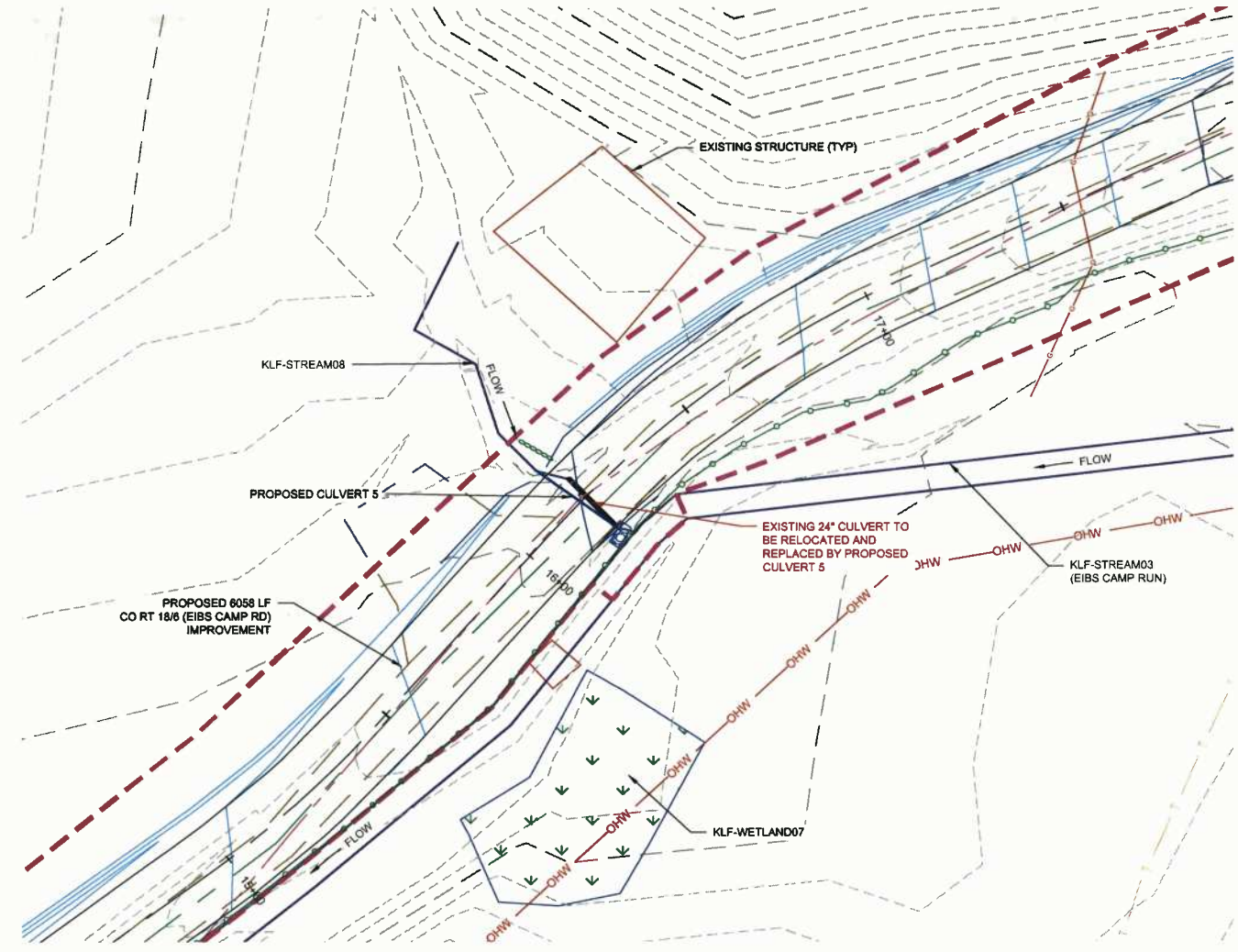
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| --- | EXISTING PROPERTY LINE           | --- | 1000 | PROPOSED INDEX CONTOUR (10')                                     |
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| --- | EXISTING ROAD CENTERLINE         | --- | ---  | PROPOSED CENTERLINE  |
| --- | ASSUMED 30 FT CO RT RIGHT-OF-WAY | --- | ---  | PROPOSED EDGE OF ROAD  |
| --- | EXISTING FENCE                   | --- | ---  | PROPOSED LIMIT OF DISTURBANCE                                    |
| --- | EXISTING OVERHEAD ELECTRIC WIRE  | --- | ---  | PROPOSED FILTERSOCK  |
| --- | EXISTING GAS LINE                | --- | ---  | PROPOSED TRIPLE STACK FILTERSOCK                                 |
| --- | EXISTING OVERHEAD TELEPHONE WIRE | --- | ---  | PROPOSED CONSTRUCTION ENTRANCE                                   |
| --- | EXISTING HIGHWAY GUIDERAIL       | --- | ---  | PROPOSED RIP RAP   |
| --- | EXISTING UTILITY POLE            | --- | ---  | AREA WITH SLOPES 30° OR GREATER ON EXISTING SURFACE              |
| --- | EXISTING STREAM                  | --- | ---  | UNITED STATES FISH AND WILDLIFE SERVICE PROTECTED AQUATIC BUFFER |
| --- | EXISTING STRUCTURE               | --- | ---  |  |
| --- | EXISTING WETLAND                 | --- | ---  |  |
| --- | EXISTING POND                    | --- | ---  |  |

SLOPES OF 30° OR GREATER EXIST WITHIN THE LIMIT OF DISTURBANCE. INSTALL EROSION CONTROL MATTING (OR EQUIVALENT) TO MITIGATE SUBSURFACE/SURFACE FLOW THAT LEADS TO SLIPS.



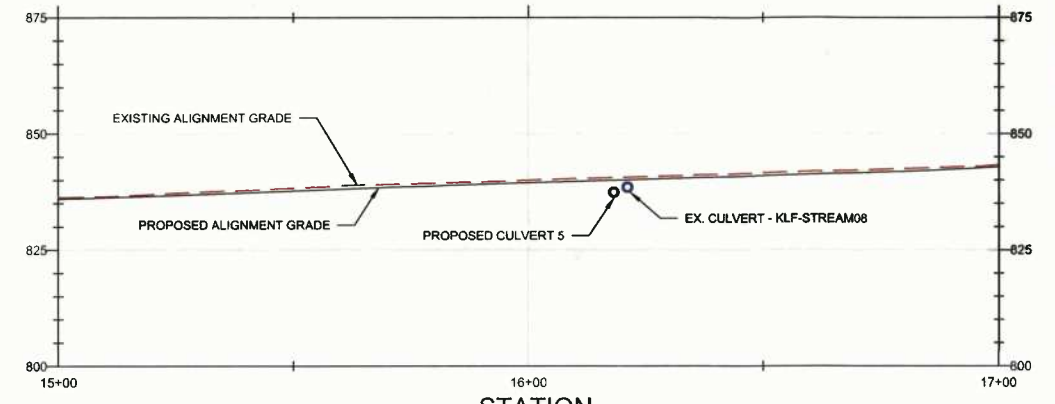
PLOTTED: 7/29/2016 3:47 PM BY: bsherman/hargrett  
LAYOUT: 15 EROSION & SEDIMENT CONTROL PLANS  
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CADD FILE: C:\chmwork\highchurn\2016\09\16\16-00\KLF-STREAM08 CROSSING DETAIL\_LAYOUT\_16 KLF-STREAM08 CROSSING DETAIL.Plot 7/29/2016 3:17 PM BY: Benjamin Nagast

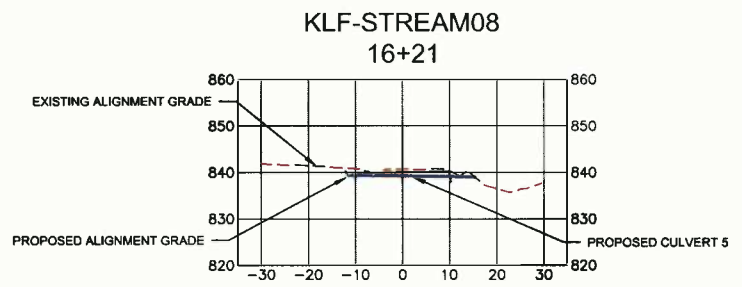


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|  | EXISTING ROAD CENTERLINE         |  |      | PROPOSED CENTERLINE                |
|  | ASSUMED 30 FT CO RT RIGHT-OF-WAY |  |      | PROPOSED EDGE OF ROAD              |
|  | EXISTING FENCE                   |  |      | PROPOSED LIMIT OF DISTURBANCE      |
|  | EXISTING OVERHEAD ELECTRIC WIRE  |  |      | PROPOSED FILTERSOCK                |
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|  | EXISTING WETLAND                 |  |      |                                    |
|  | EXISTING POND                    |  |      |                                    |



**STATION  
 PROFILE (KLF-STREAM08)**  
 VERTICAL SCALE: 1" = 20'  
 HORIZONTAL SCALE: 1" = 20'



**STATION  
 CROSS SECTION  
 (KLF-STREAM08)**  
 VERTICAL SCALE: 1" = 20'  
 HORIZONTAL SCALE: 1" = 20'



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Signed By: TROY DANIEL # 20043

REVISIONS

| REV | DESCRIPTION | DSN | CHK | DATE |
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|     |             | DWN | APP |      |
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**ISSUE FOR PERMITTING**  
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**SCALE VERIFICATION**

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING

SCALE: 1" = 20'

SCALE IN FEET

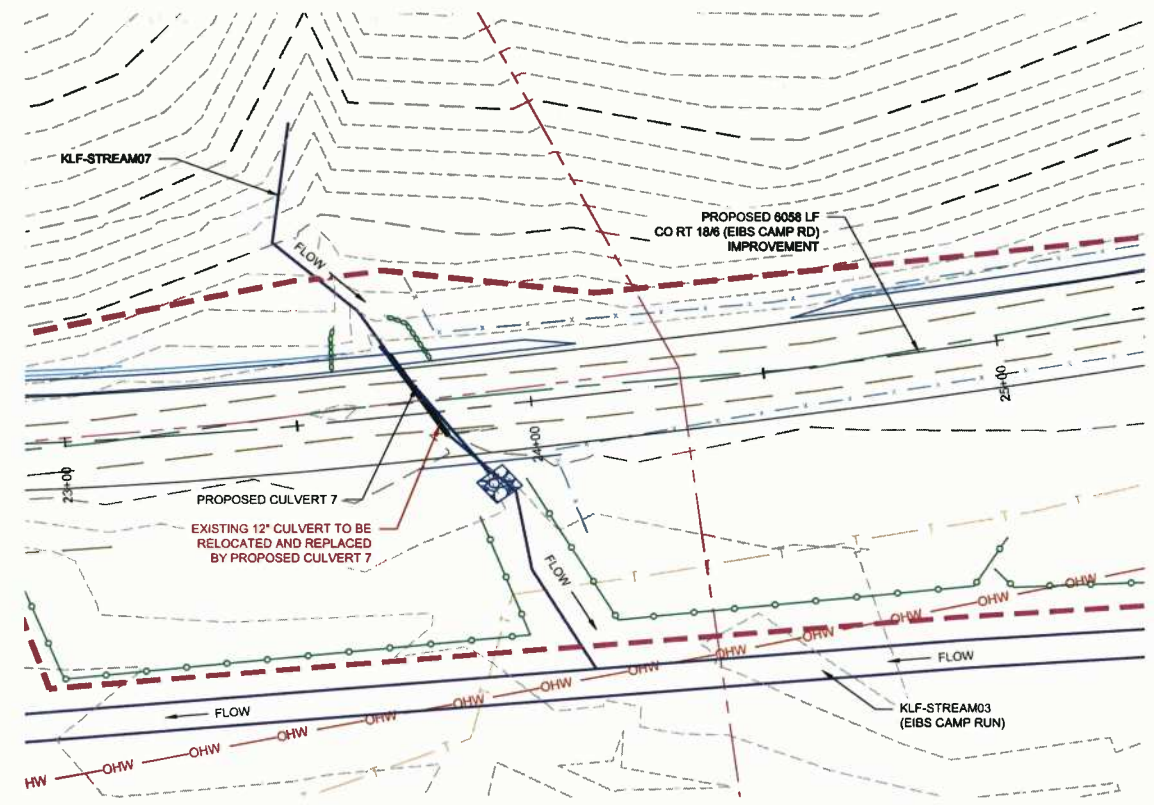
ORIGINAL DRAWING SIZE IS 22 x 34

**KLF-STREAM08 CROSSING DETAIL**

EIBS CAMP ROAD IMPROVEMENTS  
 NEW MILTON DISTRICT, DODDRIDGE COUNTY  
 WEST VIRGINIA

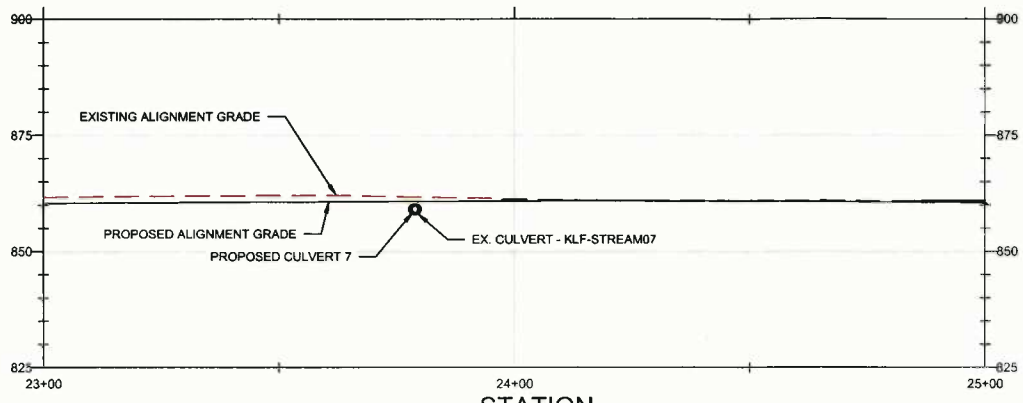
EROSION & SEDIMENT CONTROL PLANS

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| PROJECT NO.      | 20162247   | 16    |
| ISSUE DATE       | 07-29-2016 |       |
| CURRENT REVISION |            |       |
| DESIGNED BY      | BHH        |       |
| DRAWN BY         | BHH        |       |
| CHECKED BY       | BB         |       |
| APPROVED BY      | TD         | SHEET |

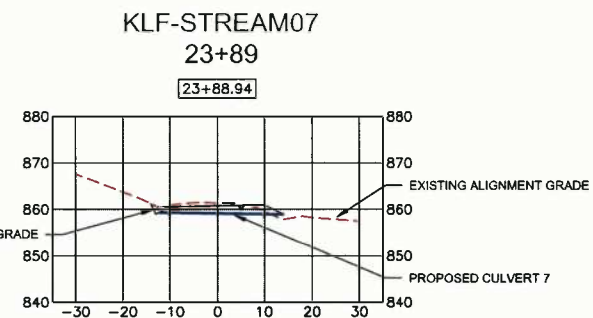


**LEGEND**

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|  | EXISTING EDGE OF ROAD            |  | PROPOSED INTERMEDIATE CONTOUR (2') |
|  | EXISTING ROAD CENTERLINE         |  | PROPOSED CENTERLINE                |
|  | ASSUMED 30 FT CO RT RIGHT-OF-WAY |  | PROPOSED EDGE OF ROAD              |
|  | EXISTING FENCE                   |  | PROPOSED LIMIT OF DISTURBANCE      |
|  | EXISTING OVERHEAD ELECTRIC WIRE  |  | PROPOSED FILTERSOCK                |
|  | EXISTING GAS LINE                |  | PROPOSED RIP RAP                   |
|  | EXISTING OVERHEAD TELEPHONE WIRE |  |                                    |
|  | EXISTING HIGHWAY GUIDERAIL       |  |                                    |
|  | EXISTING UTILITY POLE            |  |                                    |
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|  | EXISTING WETLAND                 |  |                                    |
|  | EXISTING POND                    |  |                                    |



STATION  
**PROFILE (KLF-STREAM07)**  
VERTICAL SCALE: 1" = 20'  
HORIZONTAL SCALE: 1" = 20'



STATION  
**CROSS SECTION**  
VERTICAL SCALE: 1" = 20'  
HORIZONTAL SCALE: 1" = 20'



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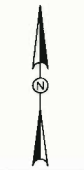


Signed By: TROY DANIEL # 20043

REVISIONS

| REV | DESCRIPTION | DSN | CHK | DATE |
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**ISSUE FOR PERMITTING**  
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**SCALE VERIFICATION**  
THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING  
0 1"  
IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

ORIGINAL DRAWING SIZE IS 22 x 34

**KLF-STREAM07 CROSSING DETAIL**

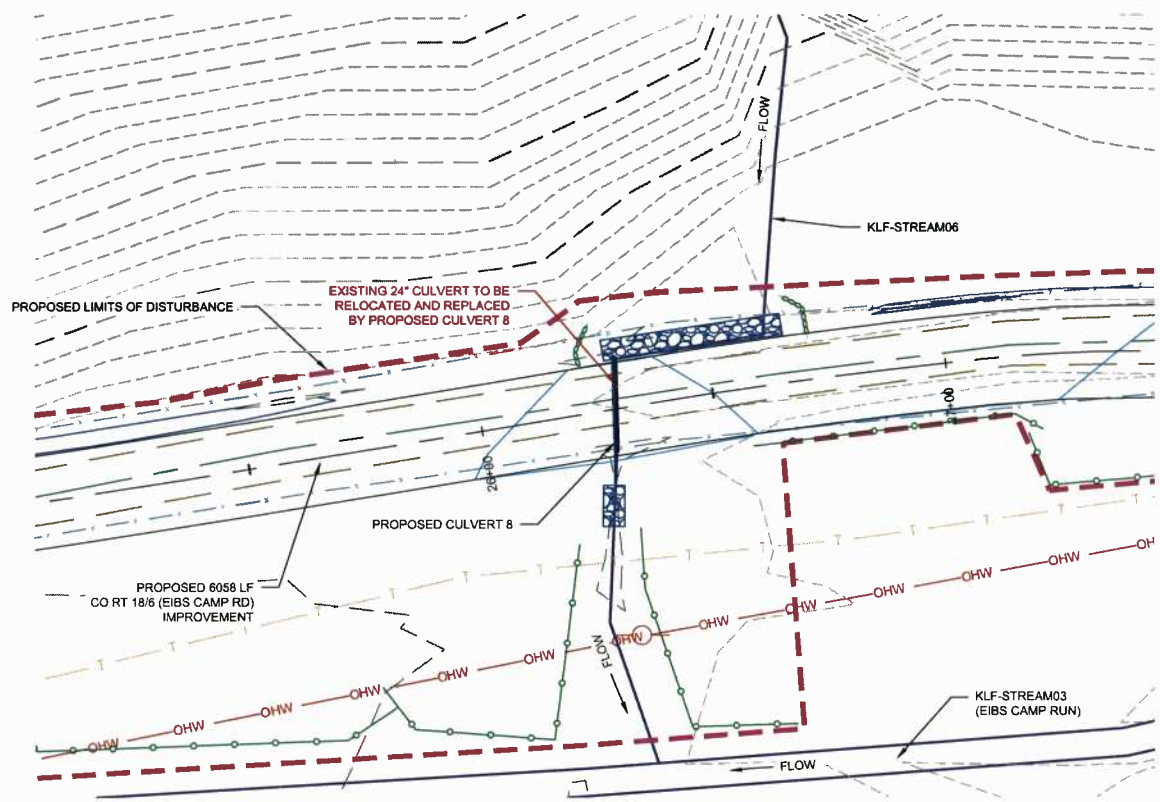
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NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

**EROSION & SEDIMENT CONTROL PLANS**

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| PROJECT NO.      | 20162247   |
| ISSUE DATE       | 07-29-2016 |
| CURRENT REVISION |            |
| DESIGNED BY      | BHH        |
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| SHEET            | 17 of 31   |

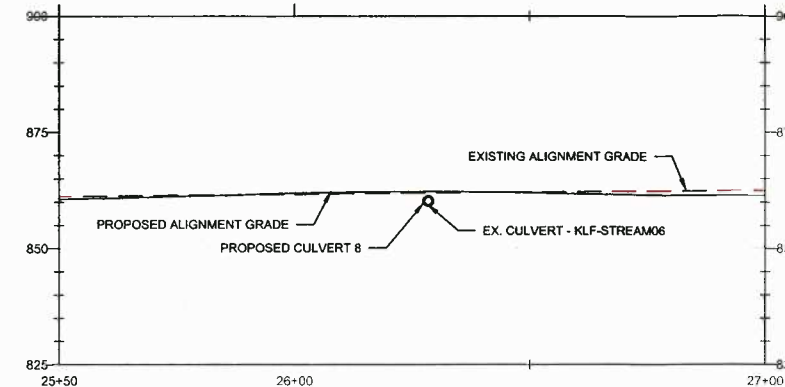
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CAD FILE: C:\work\kingsharp\2016\08\07\17 KLF-STREAM07 CROSSING DETAIL.dwg LAYOUT: 17 KLF-STREAM07 CROSSING DETAIL PLOTTED: 7/29/2016 3:47 PM BY: benjamin.haugst

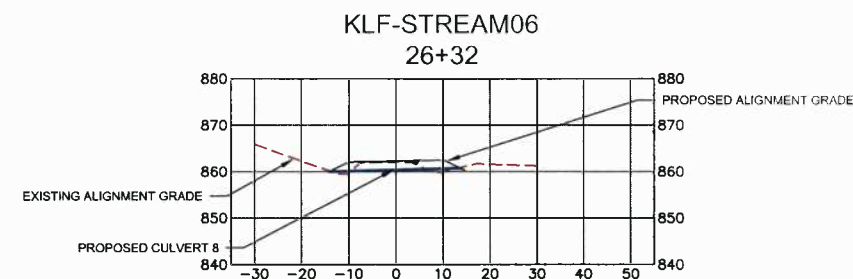


**LEGEND**

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|  | EXISTING PROPERTY LINE           |  | PROPOSED INDEX CONTOUR (10')       |
|  | EXISTING EDGE OF ROAD            |  | PROPOSED INTERMEDIATE CONTOUR (2') |
|  | EXISTING ROAD CENTERLINE         |  | PROPOSED CENTERLINE                |
|  | ASSUMED 30 FT CO RT RIGHT-OF-WAY |  | PROPOSED EDGE OF ROAD              |
|  | EXISTING FENCE                   |  | PROPOSED LIMIT OF DISTURBANCE      |
|  | EXISTING OVERHEAD ELECTRIC WIRE  |  | PROPOSED FILTERSOCK                |
|  | EXISTING GAS LINE                |  | PROPOSED RIP RAP                   |
|  | EXISTING OVERHEAD TELEPHONE WIRE |  |                                    |
|  | EXISTING HIGHWAY GUIDERAIL       |  |                                    |
|  | EXISTING UTILITY POLE            |  |                                    |
|  | EXISTING STREAM                  |  |                                    |
|  | EXISTING STRUCTURE               |  |                                    |
|  | EXISTING WETLAND                 |  |                                    |
|  | EXISTING POND                    |  |                                    |



**STATION PROFILE (KLF-STREAM06)**  
 VERTICAL SCALE: 1" = 20'  
 HORIZONTAL SCALE: 1" = 20'



**STATION CROSS SECTION**  
 VERTICAL SCALE: 1" = 20'  
 HORIZONTAL SCALE: 1" = 20'



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 Cranberry Township, PA 16008  
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Signed By: TROY DANIEL # 20043

**REVISIONS**

| REV | DESCRIPTION | DSN DWN | CHK APP | DATE |
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**ISSUE FOR PERMITTING**  
 NOT FOR CONSTRUCTION



**SCALE VERIFICATION**  
 THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING  
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 IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY



ORIGINAL DRAWING SIZE IS 22 x 34

**KLF-STREAM06 CROSSING DETAIL**  
 EIBS CAMP ROAD IMPROVEMENTS  
 NEW MILTON DISTRICT, DODDRIDGE COUNTY  
 WEST VIRGINIA

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| <b>EROSION &amp; SEDIMENT CONTROL PLANS</b> |            |
| PROJECT NO.                                 | 20162247   |
| ISSUE DATE                                  | 07-29-2016 |
| CURRENT REVISION                            | -          |
| DESIGNED BY                                 | BHH        |
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| APPROVED BY                                 | TD         |
| SHEET                                       | 18 of 33   |

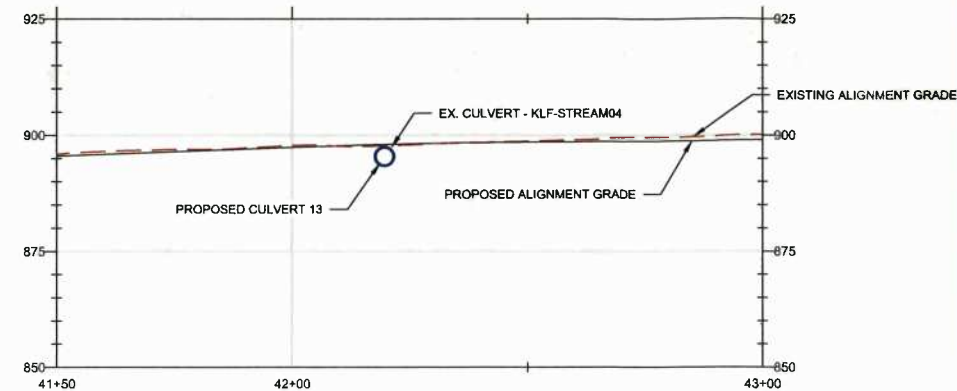
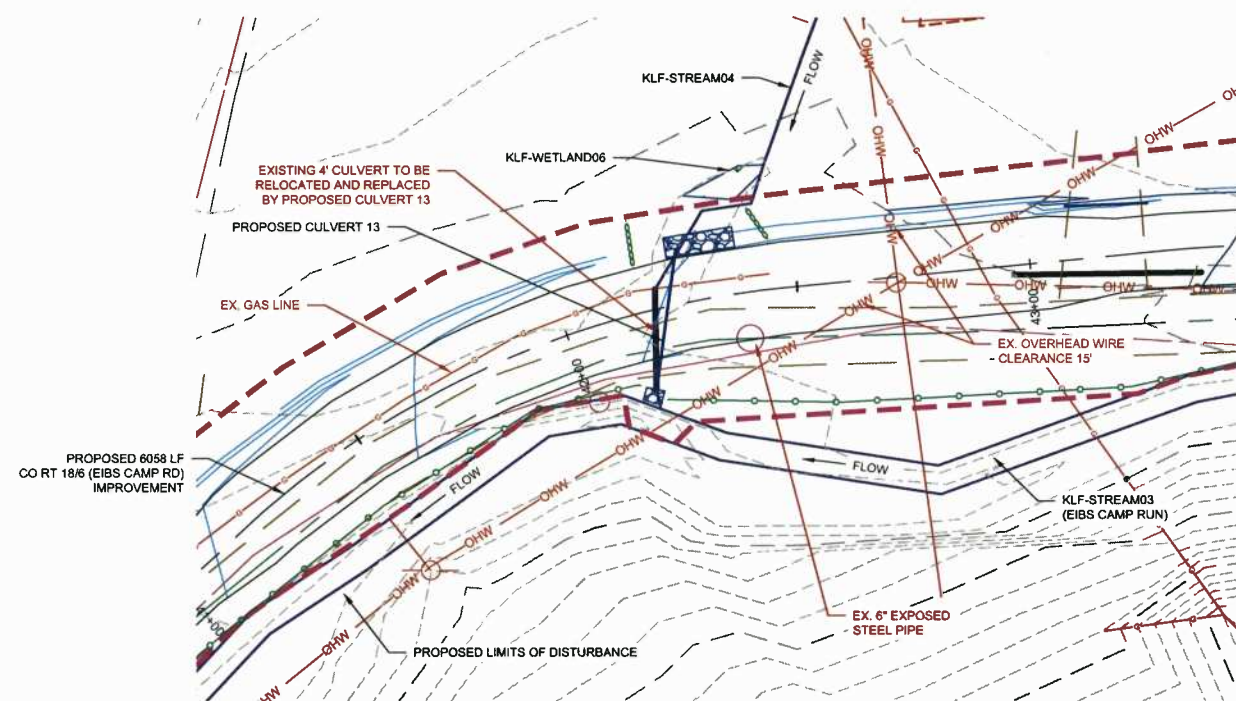
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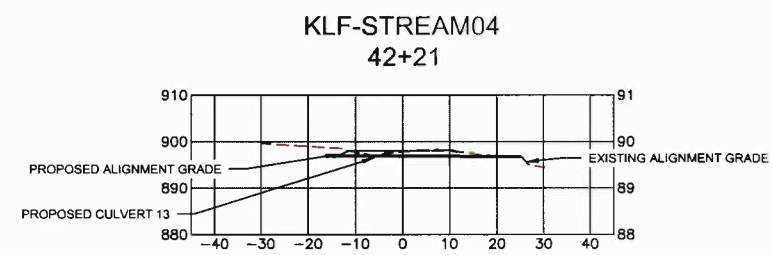
Signed By: **TROY DANIEL** # 20043

REVISIONS

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STATION  
PROFILE (KLF-STREAM04)  
VERTICAL SCALE: 1" = 20'  
HORIZONTAL SCALE: 1" = 20'

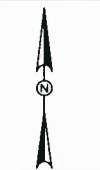


STATION  
CROSS SECTION  
VERTICAL SCALE: 1" = 20'  
HORIZONTAL SCALE: 1" = 20'

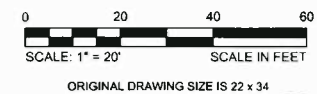
LEGEND

- - - - - EXISTING PROPERTY LINE
- - - - - EXISTING EDGE OF ROAD
- - - - - EXISTING ROAD CENTERLINE
- - - - - ASSUMED 30 FT CO RT RIGHT-OF-WAY
- X - X - EXISTING FENCE
- OHW - OHW - EXISTING OVERHEAD ELECTRIC WIRE
- G - G - EXISTING GAS LINE
- - - - - EXISTING OVERHEAD TELEPHONE WIRE
- - - - - EXISTING HIGHWAY GUIDERAIL
- - - - - EXISTING UTILITY POLE
- - - - - EXISTING STREAM
- - - - - EXISTING STRUCTURE
- [Pattern] EXISTING WETLAND
- [Pattern] EXISTING POND
- 1000 - PROPOSED INDEX CONTOUR (10')
- 200 - PROPOSED INTERMEDIATE CONTOUR (2')
- - - - - PROPOSED CENTERLINE
- - - - - PROPOSED EDGE OF ROAD
- - - - - PROPOSED LIMIT OF DISTURBANCE
- - - - - PROPOSED FILTERSOCK
- [Pattern] PROPOSED RIP RAP

**ISSUE FOR PERMITTING**  
NOT FOR CONSTRUCTION



SCALE VERIFICATION  
THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING  
0 1"  
IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

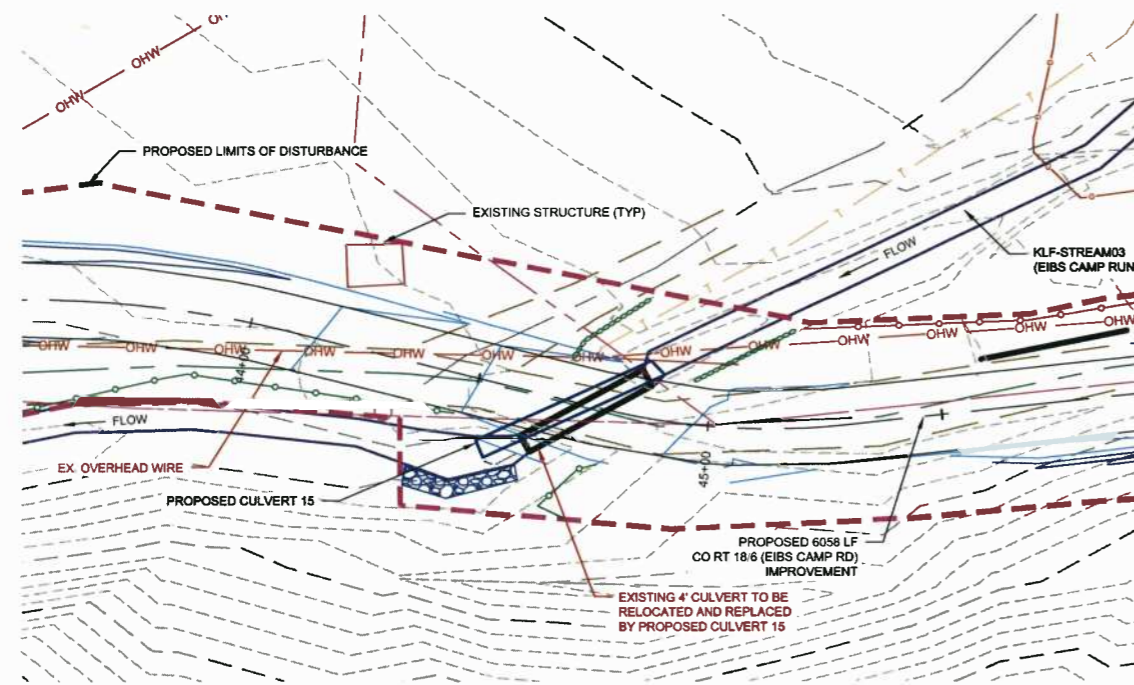


**KLF-STREAM04 CROSSING DETAIL**  
EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

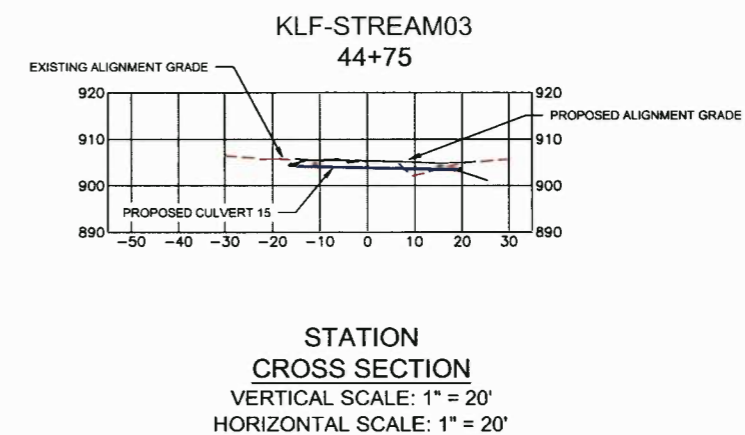
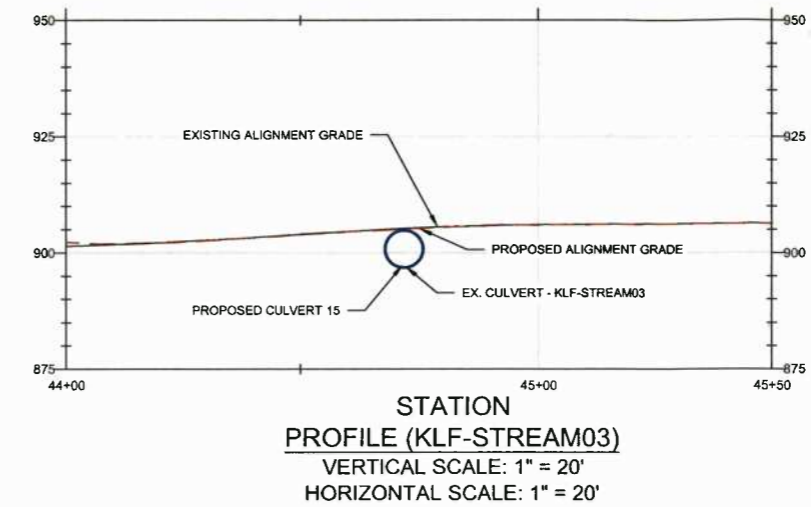
EROSION & SEDIMENT CONTROL PLANS

|                  |            |
|------------------|------------|
| PROJECT NO.      | 20162247   |
| ISSUE DATE       | 07-29-2016 |
| CURRENT REVISION | -          |
| DESIGNED BY      | BHH        |
| DRAWN BY         | BHH        |
| CHECKED BY       | BB         |
| APPROVED BY      | TD         |

CLD FILE: C:\working\changelist\106896\ch\camp rd stream\wetlands.dwg LAYOUT: 19-KLF-STREAM04 CROSSING DETAIL PLOTTED: 7/29/2016 3:47 PM BY: benjamin.jungst



| LEGEND |                                  |  |                                    |
|--------|----------------------------------|--|------------------------------------|
|        | EXISTING PROPERTY LINE           |  | PROPOSED INDEX CONTOUR (10')       |
|        | EXISTING EDGE OF ROAD            |  | PROPOSED INTERMEDIATE CONTOUR (2') |
|        | EXISTING ROAD CENTERLINE         |  | PROPOSED CENTERLINE                |
|        | ASSUMED 30 FT CO RT RIGHT-OF-WAY |  | PROPOSED EDGE OF ROAD              |
|        | EXISTING FENCE                   |  | PROPOSED LIMIT OF DISTURBANCE      |
|        | EXISTING OVERHEAD ELECTRIC WIRE  |  | PROPOSED FILTERSOCK                |
|        | EXISTING GAS LINE                |  | PROPOSED RIP RAP                   |
|        | EXISTING OVERHEAD TELEPHONE WIRE |  |                                    |
|        | EXISTING HIGHWAY GUIDERAIL       |  |                                    |
|        | EXISTING UTILITY POLE            |  |                                    |
|        | EXISTING STREAM                  |  |                                    |
|        | EXISTING STRUCTURE               |  |                                    |
|        | EXISTING WETLAND                 |  |                                    |
|        | EXISTING POND                    |  |                                    |



PLOTTED: 7/29/2016 3:47 PM BY: bndjamm@kf.com  
 LAYOUT: 20\_KLF-STREAM03\_CROSSING\_DETAIL



230 Executive Drive, Suite 122  
 Cranberry Township, PA 16008  
 Phone: 724-772-7072  
 www.kleinfelder.com



Signed By: TROY DANIEL # 20043

| REVISIONS |             |     |     |      |
|-----------|-------------|-----|-----|------|
| REV       | DESCRIPTION | DSN | CHK | DATE |
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**ISSUE FOR PERMITTING**  
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SCALE VERIFICATION  
 THIS BAR IS 1 INCH IN LENGTH  
 ON ORIGINAL DRAWING  
 IF IT'S NOT 1 INCH ON THIS  
 SHEET ADJUST YOUR  
 SCALES ACCORDINGLY

SCALE: 1" = 20'  
 ORIGINAL DRAWING SIZE IS 22 x 34

**KLF-STREAM03 CROSSING DETAIL**  
 EIBS CAMP ROAD IMPROVEMENTS  
 NEW MILTON DISTRICT, DODDRIDGE COUNTY  
 WEST VIRGINIA

| EROSION & SEDIMENT CONTROL PLANS |            |
|----------------------------------|------------|
| PROJECT NO.                      | 20162247   |
| ISSUE DATE                       | 07-29-2016 |
| CURRENT REVISION                 | -          |
| DESIGNED BY                      | BHH        |
| DRAWN BY                         | BHH        |
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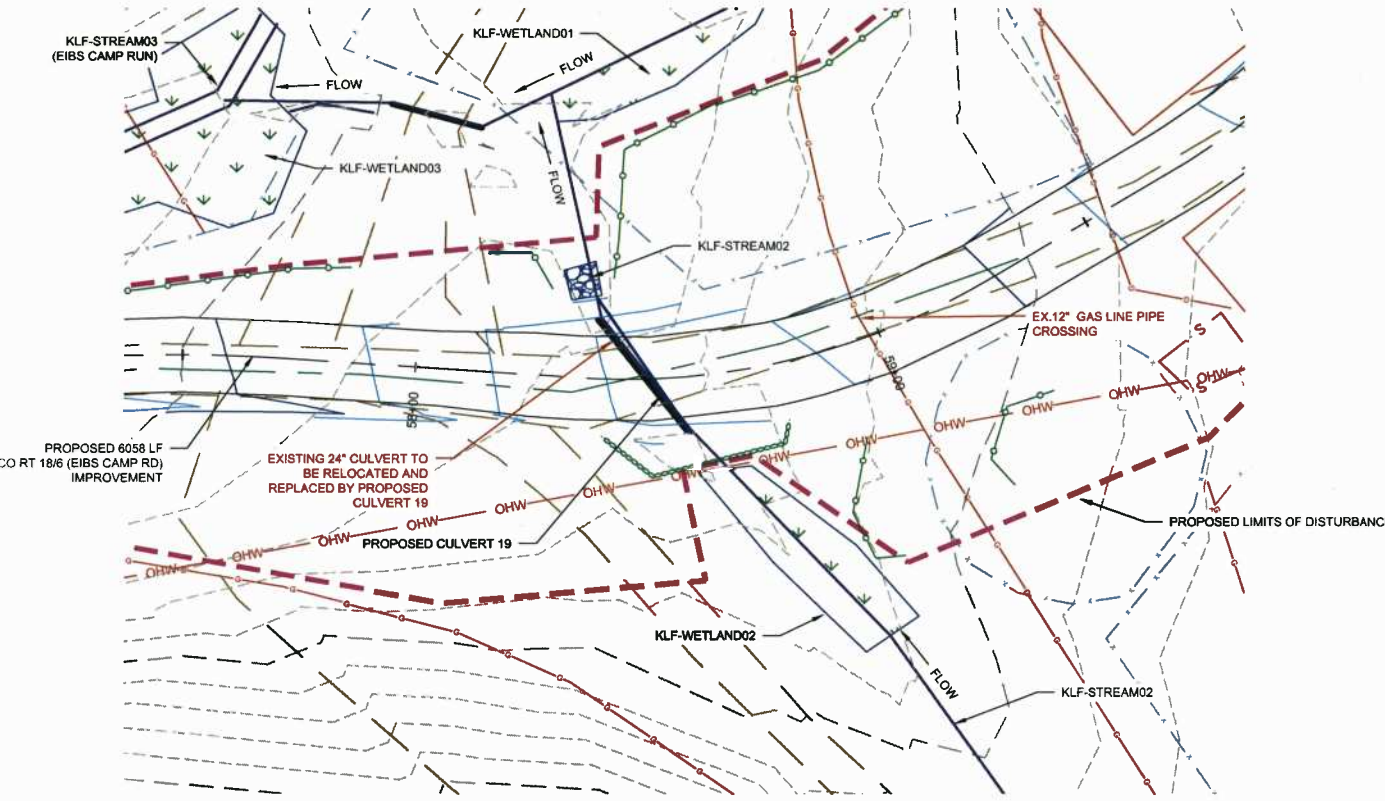
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20 of 31

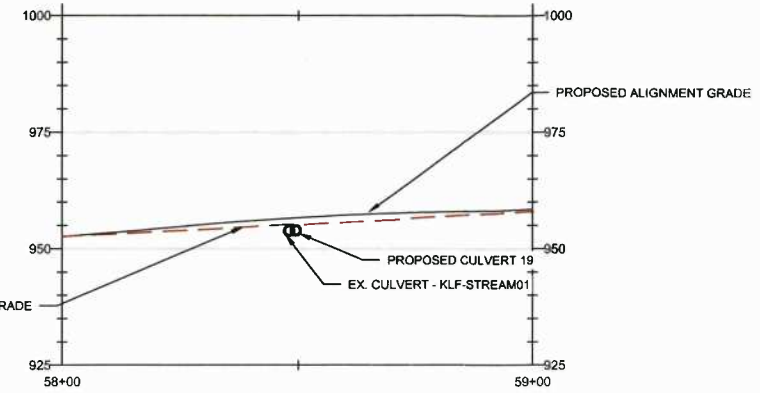


Signed By: TROY DANIEL # 20043

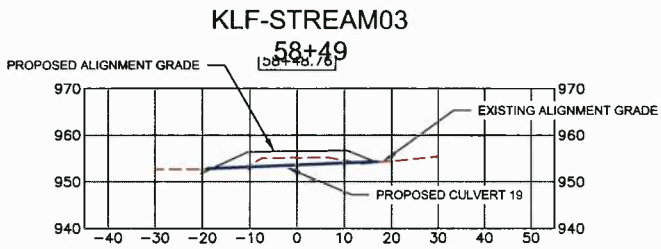
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| LEGEND |                                    |
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|        | EXISTING PROPERTY LINE             |
|        | EXISTING EDGE OF ROAD              |
|        | EXISTING ROAD CENTERLINE           |
|        | ASSUMED 30 FT CO RT RIGHT-OF-WAY   |
|        | EXISTING FENCE                     |
|        | EXISTING OVERHEAD ELECTRIC WIRE    |
|        | EXISTING GAS LINE                  |
|        | EXISTING OVERHEAD TELEPHONE WIRE   |
|        | EXISTING HIGHWAY GUIDERAIL         |
|        | EXISTING UTILITY POLE              |
|        | EXISTING STREAM                    |
|        | EXISTING STRUCTURE                 |
|        | EXISTING WETLAND                   |
|        | EXISTING POND                      |
|        | PROPOSED INDEX CONTOUR (10')       |
|        | PROPOSED INTERMEDIATE CONTOUR (2') |
|        | PROPOSED CENTERLINE                |
|        | PROPOSED EDGE OF ROAD              |
|        | PROPOSED LIMIT OF DISTURBANCE      |
|        | PROPOSED FILTERSOCK                |
|        | PROPOSED RIP RAP                   |



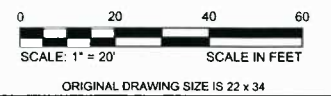
STATION PROFILE (KLF-STREAM03)  
 VERTICAL SCALE: 1" = 20'  
 HORIZONTAL SCALE: 1" = 20'



STATION CROSS SECTION  
 VERTICAL SCALE: 1" = 20'  
 HORIZONTAL SCALE: 1" = 20'

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SCALE VERIFICATION  
 THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING  
  
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**KLF-STREAM03 CROSSING DETAIL**  
 EIBS CAMP ROAD IMPROVEMENTS  
 NEW MILTON DISTRICT, DODDRIDGE COUNTY  
 WEST VIRGINIA

| EROSION & SEDIMENT CONTROL PLANS |            |
|----------------------------------|------------|
| PROJECT NO.                      | 20162247   |
| ISSUE DATE                       | 07-29-2016 |
| CURRENT REVISION                 | -          |
| DESIGNED BY                      | BHH        |
| DRAWN BY                         | BHH        |
| CHECKED BY                       | BB         |
| APPROVED BY                      | TD         |

PLOTTED: 7/29/2016 3:47 PM BY: benjamin bargost  
 CAD FILE: C:\work\engineering\106689Eib\_Camp\_Rd\_STREAMWETLANDS.dwg LAYOUT: 21\_KLF-STREAM03\_CROSSING DETAIL





Signed By: TROY DANIEL # 20043

REVISIONS

| REV | DESCRIPTION | DSN<br>DWN | CHK<br>APP | DATE |
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NOT FOR CONSTRUCTION



SCALE VERIFICATION  
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ON ORIGINAL DRAWING  
0 1"  
IF IT'S NOT 1 INCH ON THIS  
SHEET ADJUST YOUR  
SCALES ACCORDINGLY



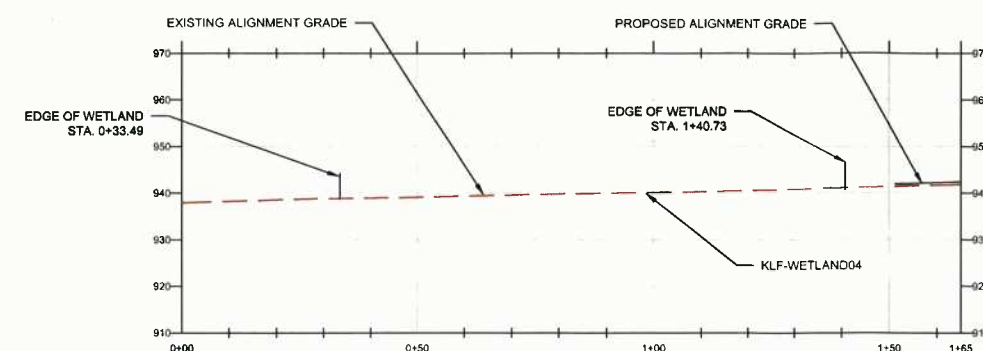
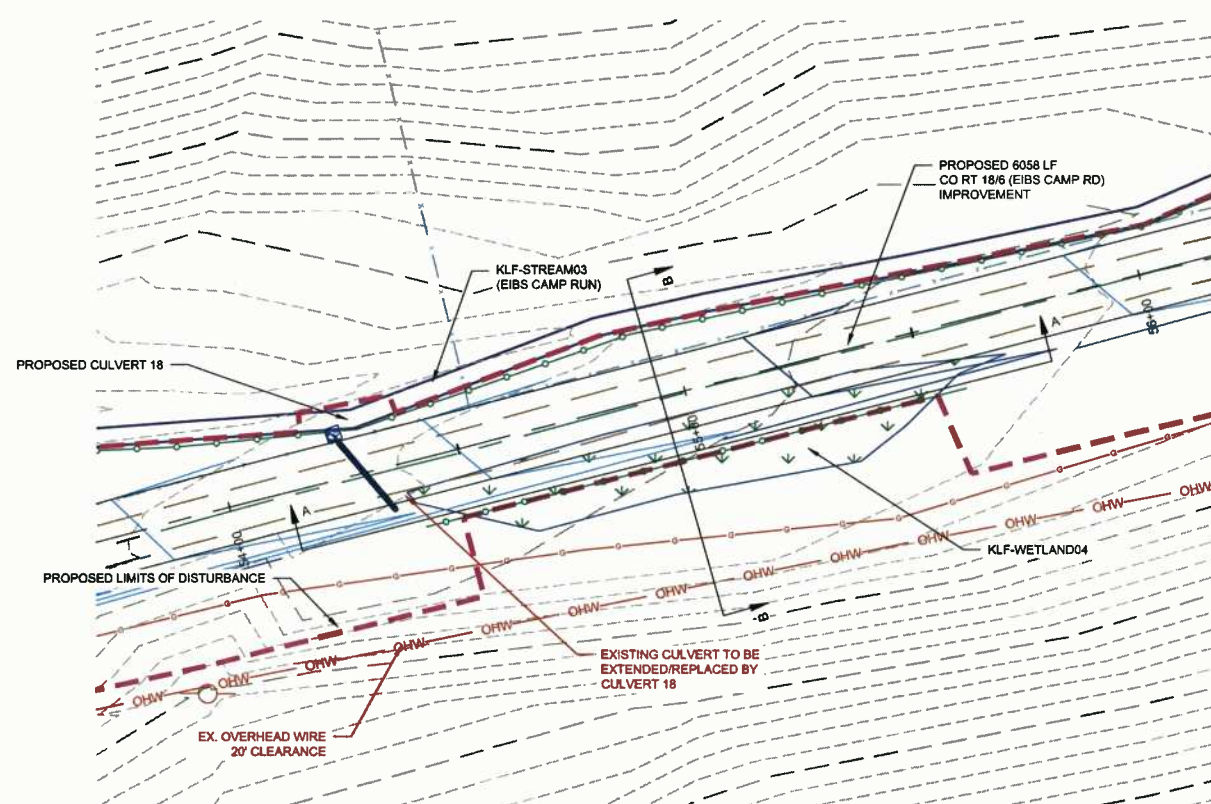
ORIGINAL DRAWING SIZE IS 22 x 34

**KLF-WETLAND04 CROSSING DETAIL**

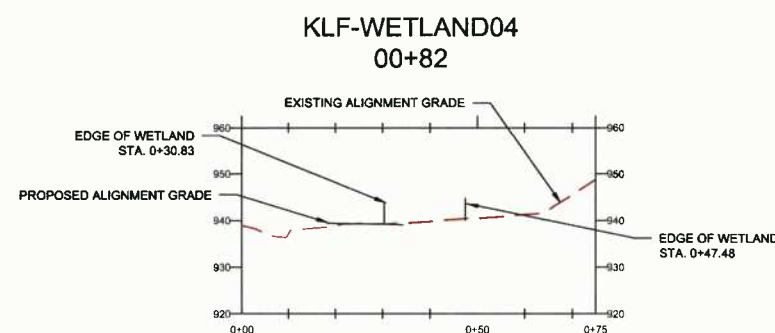
EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

EROSION & SEDIMENT  
CONTROL PLANS

|                  |            |
|------------------|------------|
| PROJECT NO.      | 20162247   |
| ISSUE DATE       | 07-29-2016 |
| CURRENT REVISION | -          |
| DESIGNED BY      | BHH        |
| DRAWN BY         | BHH        |
| CHECKED BY       | BB         |
| APPROVED BY      | TO         |



STATION  
PROFILE A-A (KLF-WETLAND04)  
VERTICAL SCALE: 1" = 20'  
HORIZONTAL SCALE: 1" = 20'



STATION  
CROSS SECTION B-B  
VERTICAL SCALE: 1" = 20'  
HORIZONTAL SCALE: 1" = 20'

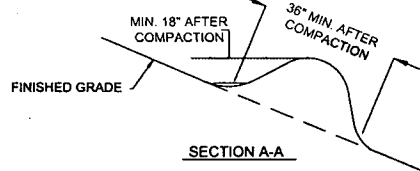
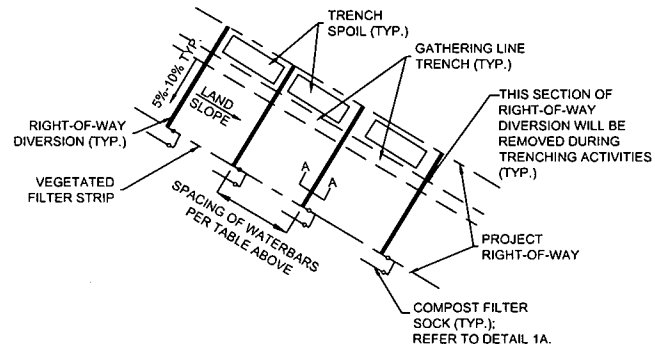
LEGEND

|  |                                  |  |                                    |
|--|----------------------------------|--|------------------------------------|
|  | EXISTING PROPERTY LINE           |  | PROPOSED INDEX CONTOUR (10')       |
|  | EXISTING EDGE OF ROAD            |  | PROPOSED INTERMEDIATE CONTOUR (2') |
|  | EXISTING ROAD CENTERLINE         |  | PROPOSED CENTERLINE                |
|  | ASSUMED 30 FT CO RT RIGHT-OF-WAY |  | PROPOSED EDGE OF ROAD              |
|  | EXISTING FENCE                   |  | PROPOSED LIMIT OF DISTURBANCE      |
|  | EXISTING OVERHEAD ELECTRIC WIRE  |  | PROPOSED FILTERSOCK                |
|  | EXISTING GAS LINE                |  | PROPOSED RIP RAP                   |
|  | EXISTING OVERHEAD TELEPHONE WIRE |  | EXISTING WETLAND                   |
|  | EXISTING HIGHWAY GUIDERAIL       |  | EXISTING POND                      |
|  | EXISTING UTILITY POLE            |  |                                    |
|  | EXISTING STREAM                  |  |                                    |
|  | EXISTING STRUCTURE               |  |                                    |

PLOTTED: 7/29/2016 3:48 PM BY: benjamin.burgett  
CAD FILE: C:\pwork\proj\2016\247\2016\247\2016\247\KLF-WETLAND04 CROSSING DETAIL.dwg LAYOUT: 22 KLF-WETLAND04 CROSSING DETAIL.dwg

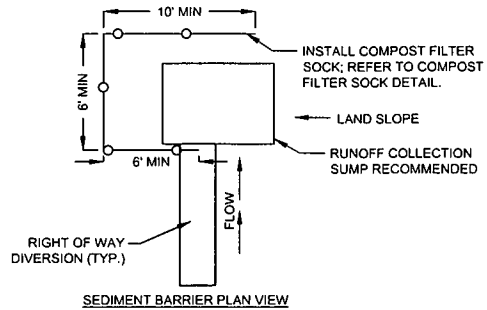
| RIGHT-OF-WAY DIVERSION SPACING IN FEET |                    |                    |
|--|--------------------|--------------------|
| PIPELINE GRADE                         | > 200' FROM STREAM | < 200' FROM STREAM |
| 2-5 %                                  | 400                | 200                |
| 6-12 %                                 | 300                | 150                |
| 13-21 %                                | 200                | 100                |
| 22-34 %                                | 100                | 50                 |
| 35-50 %                                | 50                 | 25                 |

\* IT IS DIFFICULT TO INSTALL DIVERSIONS ON SLOPES STEEPER THAN 35%. THE DIVISION OF WATER AND WASTE MANAGEMENT WILL ALLOW GREATER DISTANCES BETWEEN DIVERSIONS ON EXTREME SLOPES



NOTE: SUMPS TO BE USED DURING CONSTRUCTION (TEMPORARY)

1 RIGHT OF WAY DIVERSION OUTLET (WATERBAR)  
NTS



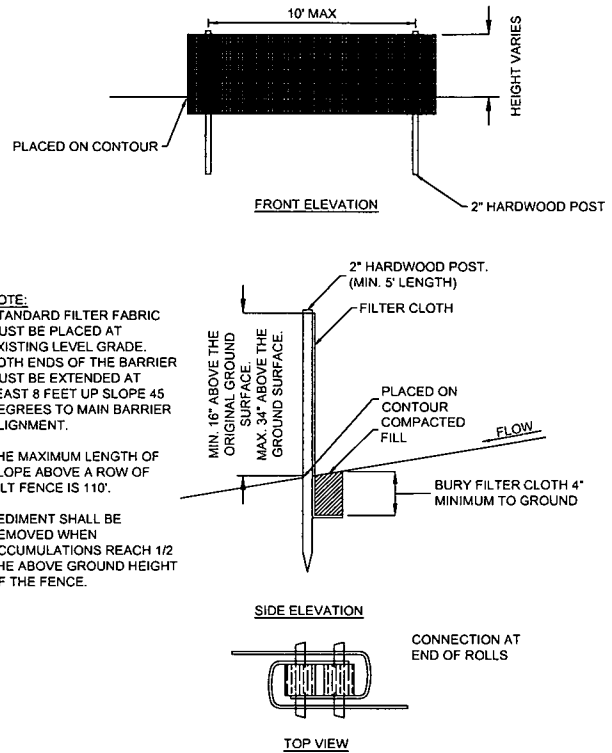
NOTES:

- RIGHT-OF-WAY DIVERSIONS SHOULD BE INSTALLED ACROSS THE ENTIRE RIGHT-OF-WAY ON ALL SLOPES GREATER THAN 5%.
- RIGHT-OF-WAY DIVERSIONS SHALL BE PLACED AT 5% TO 10% SLOPE DOWNHILL. THEY SHALL BE SPACED AT THE INCREMENTS AS SHOWN IN DETAIL 1, AND IN ACCORDANCE WITH WVDEP E&S STANDARDS.
- RIGHT-OF-WAY DIVERSIONS SHOULD BE CONSTRUCTED TO DISCHARGE TO A WELL-VEGETATED AREA. RIGHT-OF-WAY DIVERSIONS SHOULD NOT DISCHARGE INTO AN OPEN TRENCH. RIGHT-OF-WAY DIVERSIONS SHOULD BE ORIENTED SO THAT THE DISCHARGE DOES NOT FLOW BACK INTO THE RIGHT-OF-WAY. 12" COMPOST FILTER SOCK SHOULD BE LOCATED BELOW THE DISCHARGE END OF THE RIGHT-OF-WAY DIVERSIONS.
- BSRF CAN BE SUBSTITUTED IN PLACE OF CFS WITH APPROVAL FROM PROJECT OWNER.
- SUMPS TO BE USED DURING CONSTRUCTION (TEMPORARY).

MAINTENANCE:

- RIGHT-OF-WAY DIVERSIONS SHALL BE INSPECTED WEEKLY (DAILY ON ACTIVE ROADS) AND AFTER EACH RUNOFF EVENT. DAMAGED OR ERODED RIGHT-OF-WAY DIVERSIONS SHALL BE RESTORED TO ORIGINAL DIMENSIONS WITHIN 24 HOURS OF INSPECTION.
- MAINTENANCE OF RIGHT-OF-WAY DIVERSIONS SHALL BE PROVIDED UNTIL RIGHT-OF-WAY HAS ACHIEVED PERMANENT STABILIZATION.
- RIGHT-OF-WAY DIVERSIONS ON RETIRED RIGHT-OF-WAYS SHALL BE LEFT IN PLACE AFTER PERMANENT STABILIZATION HAS BEEN ACHIEVED.

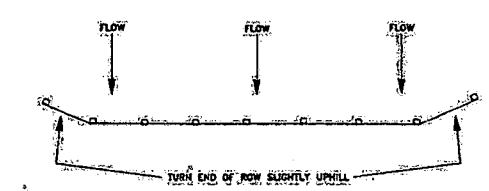
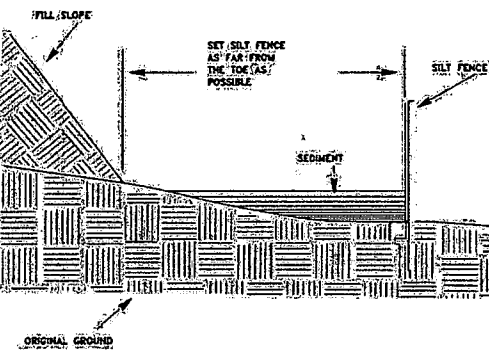
1A RIGHT OF WAY DIVERSION OUTLET (WATERBAR)  
NTS



NOTE:

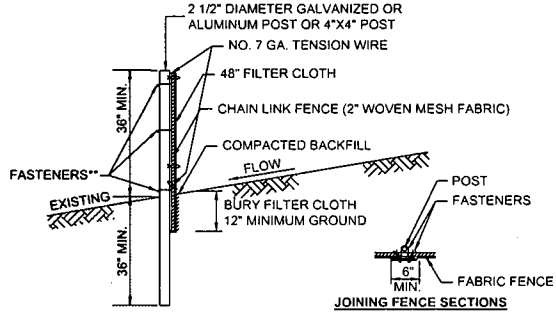
STANDARD FILTER FABRIC MUST BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER MUST BE EXTENDED AT LEAST 8 FEET UP SLOPE 45 DEGREES TO MAIN BARRIER ALIGNMENT. THE MAXIMUM LENGTH OF SLOPE ABOVE A ROW OF SILT FENCE IS 110'. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

2 SILT FENCE  
NTS



| Slope - Percent | Maximum Slope Length (ft) Above Fence |                                  |                  |
|-----------------|---------------------------------------|----------------------------------|------------------|
|                 | Standard (18" High) Silt Fence        | Reinforced (30" High) Silt Fence | Super Silt Fence |
| 2 (or less)     | 150                                   | 500                              | 1000             |
| 5               | 100                                   | 250                              | 500              |
| 10              | 50                                    | 150                              | 325              |
| 15              | 35                                    | 100                              | 215              |
| 20              | 25                                    | 70                               | 175              |
| 30              | 15                                    | 45                               | 135              |
| 35              | 15                                    | 45                               | 130              |
| 40              | 15                                    | 40                               | 85               |
| 45              | 10                                    | 35                               | 75               |
| 50              | 10                                    | 25                               | 60               |

2A SILT FENCE PLACEMENT  
NTS



\* POSTS SPACED @ 10' MAX. USE 2 1/2" DIA. GALVANIZED OR ALUMINUM POSTS OR 4" x 4" POST.

\*\* CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POST WITH WIRE TIES OR STAPLES. GEOTEXTILE FABRIC SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP AND MID-SECTIONS.

NO. 7 GA. TENSION WIRE INSTALLED HORIZONTALLY AT TOP AND BOTTOM OF CHAIN-LINK FENCE.

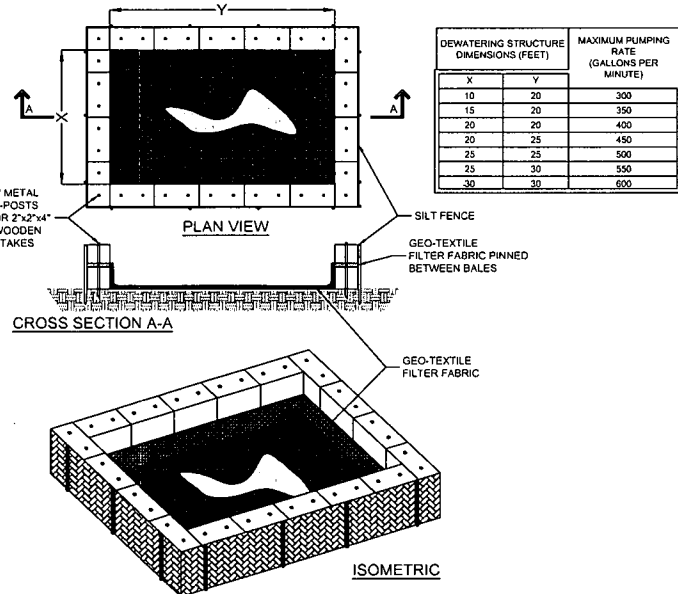
FILTER FABRIC FENCE SHOULD BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE.

THE LENGTH OF SLOPE ABOVE THE FENCE SHALL NOT EXCEED 400 FEET IN STEEP TERRAIN. IN FLATTER AREAS THE LENGTH CAN BE EXTENDED WITH THE APPROVAL OF THE ENGINEER.

NO SECTION OF SILT FENCE SHOULD EXCEED A GRADE OF 5% FOR MORE THAN A DISTANCE OF 20 FEET.

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

3 SUPER SILT FENCE  
NTS



4 STRAW BALE DEWATERING  
NTS

- STRAW BALES SHOULD BE PLACED ON THEIR SIDES WITH THE TWINE FACING OUT.
- STRAW BALES SHOULD BE STACKED TWO HIGH WITH GEO-TEXTILE FABRIC PINNED BETWEEN BALES.
- SEAMS OF GEOTEXTILE FABRIC SHOULD BE SEWN TOGETHER.
- 6 FOOT METAL T-POSTS ARE RECOMMENDED. DRIVEN THROUGH BOTH STRAW BALES. IF METAL T-POSTS ARE NOT AVAILABLE, WOODEN STAKES SHOULD BE A MINIMUM OF 2"x2"x4". STAKES SHOULD BE DRIVEN AROUND THE PERIMETER OF THE STRAW BALES AS STRUCTURAL SUPPORT AS WELL AS THROUGH THE BALES TO HELP PIN THE GEO-TEXTILE FABRIC IN PLACE.
- DEWATERING STRUCTURES DIMENSIONS SHOULD BE DESIGNED TO ACCOMMODATE THE SIZE OF THE WATER PUMP BEING UTILIZED.
- DEWATERING STRUCTURE DIMENSIONS MAY NEED TO BE ADJUSTED TO SUIT THE VARIOUS SIZES OF FILTER BAGS. THOUGH SQUARE FOOTAGE SPECIFICATIONS SHOULD STILL BE MAINTAINED. THE STRUCTURE SHOULD COMPLETELY ENCOMPASS THE BAG BEING UTILIZED.
- WHEN PUMPING LARGE AMOUNTS OF WATER FOR AN EXTENDED PERIOD OF TIME, (LARGE BELL HOLES, ETC.) INTERVAL PUMPING MAY BE NECESSARY TO AVOID OVERPOWERING THE DEWATERING STRUCTURE.
- USE OF MULTIPLE DEWATERING STRUCTURES MAY BE NECESSARY UNDER SPECIAL CIRCUMSTANCES.
- FOR STREAM CROSSINGS, WHEN PUMPING OUT THE TRENCH WITH A 2 INCH TRASH PUMP AT 1/2 THROTTLE, A STANDARD 10' BY 10' DEWATERING STRUCTURE WITH A COMPARABLE FILTER BAG SHOULD BE ADEQUATE. FIELD ADJUSTMENTS WILL BE MADE IF FLOW IS OVERPOWERING THE STRUCTURE.
- ADDITIONAL EROSION CONTROLS MAY BE UTILIZED DOWNSLOPE OF DEWATERING STRUCTURES WHERE NEEDED.
- DEWATERING STRUCTURE WILL BE PLACED TO MAXIMIZE AVAILABLE VEGETATIVE STRIP.

4A STRAW BALE DEWATERING  
NTS

ISSUE FOR PERMITTING  
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SCALE VERIFICATION  
THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING  
0 1"  
IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

ORIGINAL DRAWING SIZE IS 22 x 34

BMP TECHNICAL INSTALLATION DETAILS

EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

EROSION & SEDIMENT CONTROL PLANS  
20162247  
07-29-2016

BHH  
BHH  
BB  
TD



Signed By: TROY DANIEL # 20043

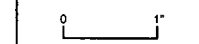
REVISIONS

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**ISSUE FOR PERMITTING**  
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SCALE VERIFICATION

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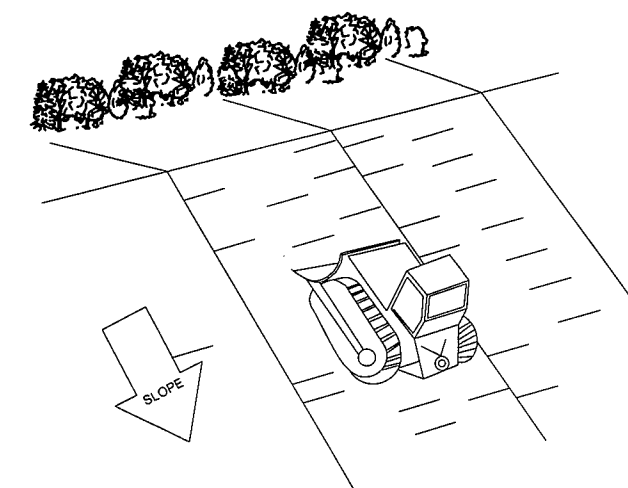
ORIGINAL DRAWING SIZE IS 22 x 34

**BMP TECHNICAL INSTALLATION DETAILS**

EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

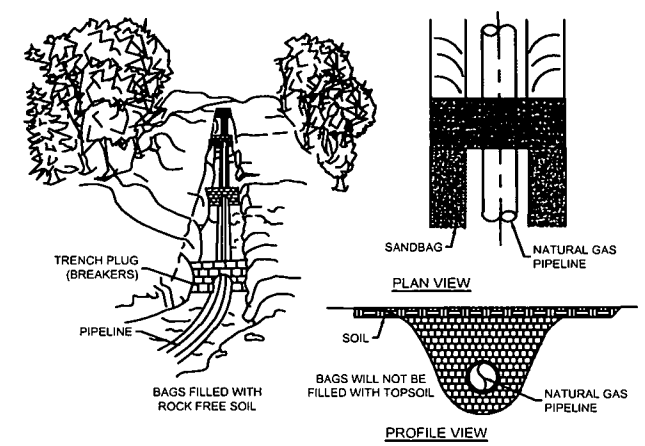
EROSION & SEDIMENT CONTROL PLANS

|                  |            |
|------------------|------------|
| PROJECT NO.      | 20162247   |
| ISSUE DATE       | 07-29-2016 |
| CURRENT REVISION | .          |
| DESIGNED BY      | BHH        |
| DRAWN BY         | BHH        |
| CHECKED BY       | BB         |
| APPROVED BY      | TD         |



TRACKING SLOPE IS DONE BY RUNNING TRACKED MACHINERY UP AND DOWN THE SLOPE, LEAVING TREAD MARKS PARALLEL TO THE CONTOUR. (NOTE: IF A BULLDOZER IS USED, THE BLADE SHOULD BE UP). CARE SHOULD BE EXERCISED ON SOILS HAVING A HIGH CLAY CONTENT TO AVOID OVER-COMPACTION.

7 TRACKING  
NTS

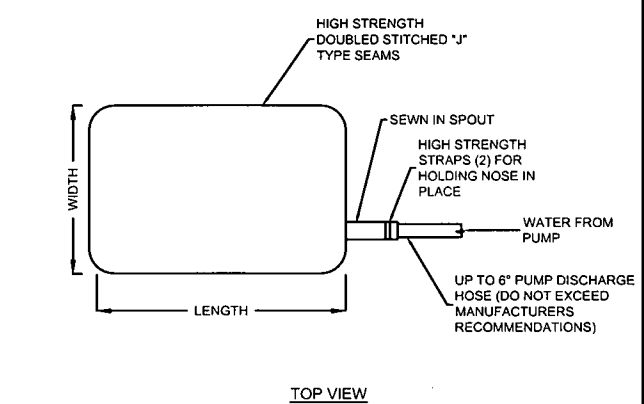


TRENCH BREAKER (PLUG) SPACING (FEET)

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

\* TRENCH BREAKERS (PLUGS) ARE REQUIRED AT ALL STREAM, RIVER, OR WATER-BODY CROSSINGS REGARDLESS OF TRENCH SLOPE.  
\*\* TOP SOIL MAY NOT BE USED TO FILL SACKS. TRENCH BREAKERS (PLUGS) WITH CEMENT FILLED SACKS SHALL BE INSTALLED AND ALLOWED TO CURE WITHOUT ANY SURFACE WATER COMING INTO CONTACT WITH THEM. CONTRACTOR SHALL VERIFY CEMENT HAS CURED AND HARDENED PRIOR TO REMOVING ANY BMPs AROUND THE TRENCH BREAKER (PLUG) AREA.  
\*\*\* TRENCH BREAKERS WITH CEMENT FILLED SACKS SHALL BE INSTALLED AND ALLOWED TO CURE WITHOUT ANY SURFACE WATER COMING INTO CONTACT WITH THEM. CONTRACTOR SHALL VERIFY CEMENT HAS CURED AND HARDENED PRIOR TO REMOVING ANY BMPs AROUND THE TRENCH BREAKER AREA.

6 PERMANENT TRENCH BREAKER  
NTS



- NOTES:
- UTILIZE VEGETATED STRIP WHERE APPLICABLE.
  - MAXIMIZE DISTANCE BETWEEN LOCATION OF FILTER BAG AND AQUATIC FEATURE.
  - FILTER BAG MUST BE PLACED ON FLAT SURFACE.

5 FILTER BAG  
NTS

CONDITIONS WHERE PRACTICE APPLIES:

- INSTALL ON DISTURBED AREAS THAT REQUIRE IMMEDIATE EROSION PROTECTION.
- USE ON SLOPES REQUIRING STABILIZATION UNTIL PERMANENT VEGETATION CAN BE ESTABLISHED.
- CAN BE USED ALONG THE PERIMETER OF A PROJECT, AS A CHECK DAM IN UNLINED DITCHES AND AROUND TEMPORARY STOCKPILES
- SOCK CAN BE STAKED TO THE GROUND USING WILLOW CUTTINGS FOR ADDED REVEGETATION
- EROSION CAN OCCUR BENEATH AND BETWEEN SOCK IF NOT PROPERLY ENTRENCHED, ALLOWING WATER TO PASS BELOW AND BETWEEN SOCKS. IT IS THEREFORE VERY IMPORTANT TO INSTALL SOCKS CORRECTLY.
- THEY CAN REPLACE SEDIMENT FENCE ON STEEP SLOPES.
- ROLLS ARE A SHORT-TERM SOLUTION TO HELP ESTABLISH NATIVE VEGETATION
- ROLLS STORE MOISTURE FOR VEGETATION PLANTED IMMEDIATELY UPSLOPE.
- PLASTIC NETTING WILL EVENTUALLY PHOTO-DEGRADE, ELIMINATING THE NEED FOR RETRIEVAL OF MATERIALS AFTER THE FIBER OR STRAW HAS BROKEN DOWN.

CONSTRUCTION SPECIFICATIONS:

- IT IS CRITICAL THAT SOCK IS INSTALLED PERPENDICULAR TO THE FLOW DIRECTION AND PARALLEL TO THE SLOPE CONTOUR.
- NARROW TRENCHES SHOULD BE DUG ACROSS THE SLOPE, ON CONTOUR, TO A DEPTH OF 3 TO 5 INCHES ON CLAY SOILS AND SOILS WITH GRADUAL SLOPES. ON LOOSE SOILS, STEEP SLOPES, AND DURING HIGH RAINFALL EVENTS, THE TRENCHES SHOULD BE DUG TO A DEPTH OF 5 TO 7 INCHES, OR 1/2 TO 2/3 OF THE THICKNESS OF THE SOCK.
- START CONSTRUCTION OF TRENCHES AND INSTALLING SOCK FROM THE BASE OF THE SLOPE AND WORK UPHILL. EXCAVATED MATERIAL SHOULD BE SPREAD EVENLY ALONG THE UPHILL SLOPE AND COMPACTED USING HAND TAMPING OR OTHER METHOD. CONSTRUCT TRENCHES AT CONTOUR INTERVALS OF 3 TO 30 FEET APART DEPENDING ON THE STEEPNESS OF THE SLOPE, SOIL TYPE, AND RAINFALL. THE STEEPER THE SLOPE THE CLOSER TOGETHER THE TRENCHES SHOULD BE CONSTRUCTED.
- INSTALL THE SOCK SNUGLY INTO THE TRENCHES AND ABUT TIGHTLY END TO END. DO NOT OVERLAP THE ENDS.
- INSTALL STAKES AT EACH END OF THE SOCK, AND AT 4-FOOT CENTERS ALONG THE ENTIRE LENGTH OF THE SOCK.
- IF REQUIRED, INSTALL PILOT HOLES FOR THE STAKES USING A STRAIGHT BAR TO DRIVE HOLES THROUGH THE SOCK AND INTO THE SOIL.
- AT A MINIMUM, WOODEN STAKES SHOULD BE APPROXIMATELY 2 X 2 X 24 INCHES. WILLOW CUTTINGS OR 3/8-INCH REBAR CAN ALSO BE USED FOR STAKES.
- STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE SOCK, LEAVING 2 TO 3 INCHES OF THE STAKE PROTRUDING ABOVE THE SOCK.

10 COMPOST FILTER SOCK  
NTS

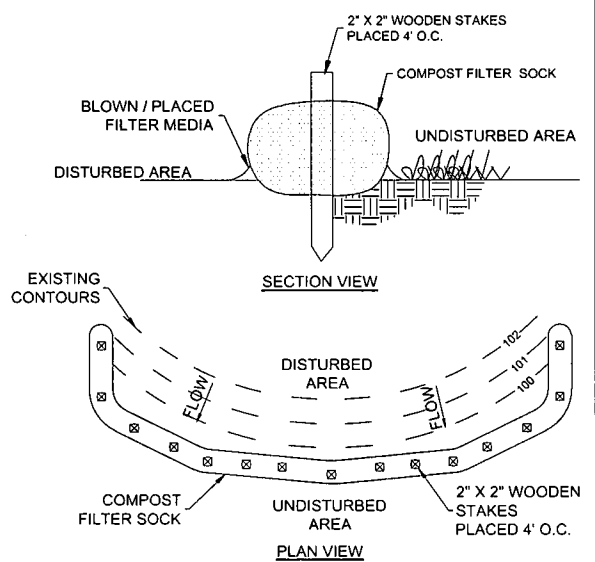
MAINTENANCE:

- INSPECT SOCK AT LEAST ONCE A WEEK AND AFTER EACH RAIN EVENT GREATER THAN 0.5 INCH.
- REPAIR OR REPLACE SPLIT, TORN, RAVELING, OR SLUMPING SOCK.
- REMOVE SEDIMENT ACCUMULATIONS WHEN EXCEEDING 1/2 THE HEIGHT BETWEEN THE TOP OF THE SOCK AND THE GROUND SURFACE.
- REPAIR ANY RILLS OR GULLIES PROMPTLY.
- RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED

| Slope Percent | Maximum Sock Length Above Sediment Control in Feet (meters)* |                                 |                                 |                                 |
|---------------|--|---------------------------------|---------------------------------|---------------------------------|
|               | 8 in (203 mm) Sediment control                               | 12 in (305 mm) Sediment control | 18 in (457 mm) Sediment control | 24 in (610 mm) Sediment control |
| -2 (or less)  | 600 (183)  | 750 (229)                       | 1000 (305)                      | 1300 (400)                      |
| 5             | 400 (122)  | 500 (152)                       | 650 (198)                       | 850 (259)                       |
| 10            | 200 (61)   | 250 (76)                        | 300 (91)                        | 400 (122)                       |
| 15            | 140 (43)   | 170 (51)                        | 200 (61)                        | 270 (82)                        |
| 20            | 100 (30)   | 125 (38)                        | 140 (43)                        | 200 (61)                        |
| 25            | 80 (24)  | 100 (30)                        | 110 (33)                        | 150 (46)                        |
| 30            | 60 (18)  | 75 (23)                         | 80 (24)                         | 110 (33)                        |
| 35            | 50 (15)  | 60 (18)                         | 65 (20)                         | 90 (27)                         |
| 40            | 40 (12)  | 50 (15)                         | 55 (17)                         | 75 (23)                         |
| 45            | 30 (9)   | 40 (12)                         | 45 (14)                         | 60 (18)                         |
| 50            | 20 (6)   | 30 (9)                          | 35 (11)                         | 45 (14)                         |

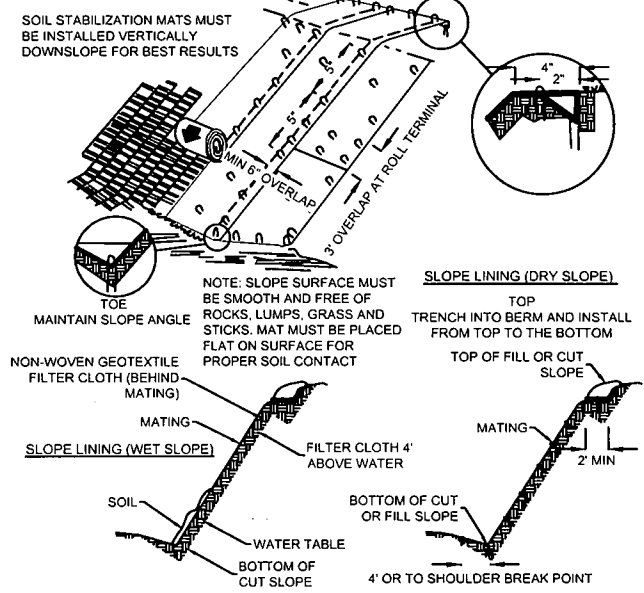
\* Based on a failure point of 36 in (91.4 mm) super silt fence (wire reinforced) at 1000 ft (305 m) of slope, watershed with equivalent to receiving length of sediment control device, 1 in 24 hr (25 mm/24 hr) rain event.  
\*\* Effective height of Sediment control after installation and with constant head from runoff as determined by Ohio State University.

10 COMPOST FILTER SOCK  
NTS



9 COMPOST FILTER SOCK  
NTS

FILL SLOPE SECTION



8 ROLLED EROSION CONTROL PRODUCTS  
NTS

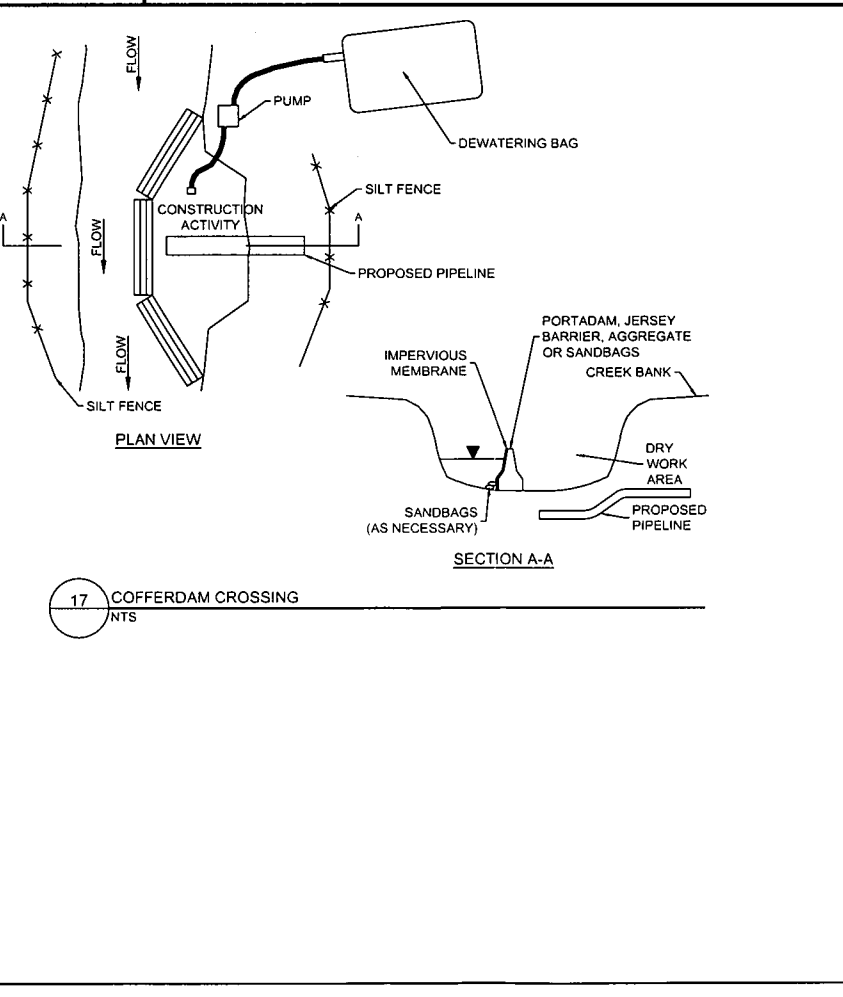
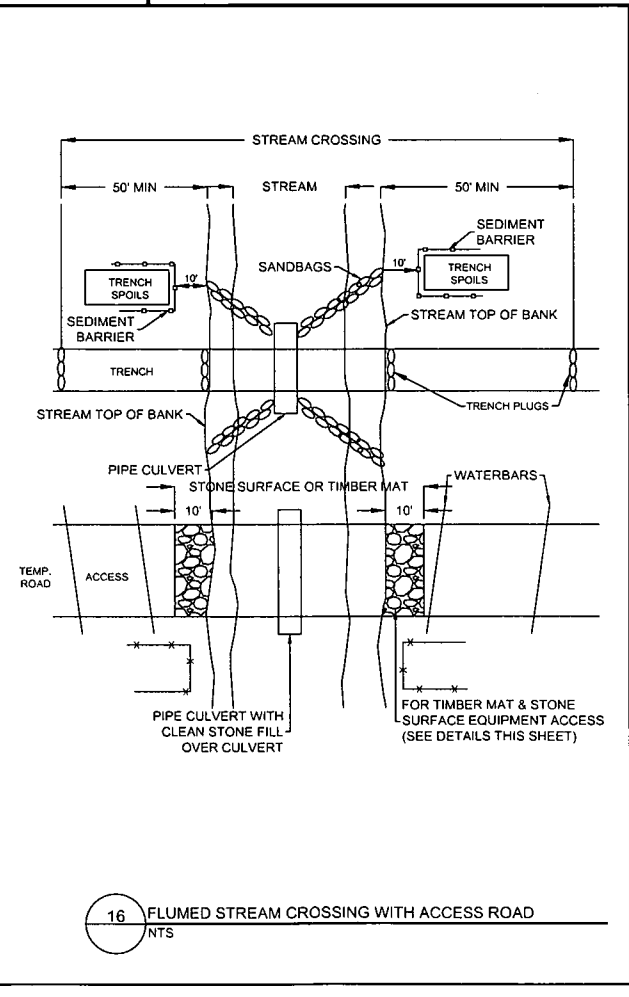
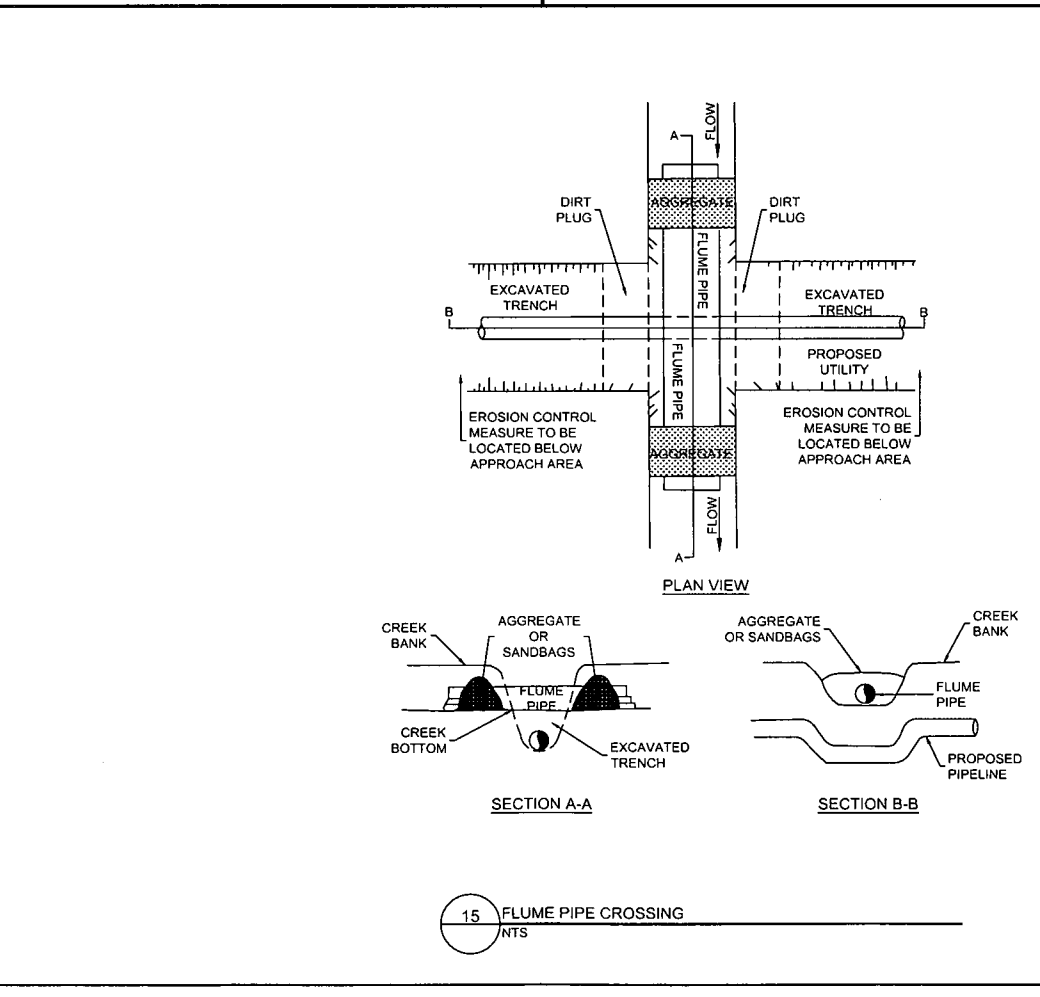
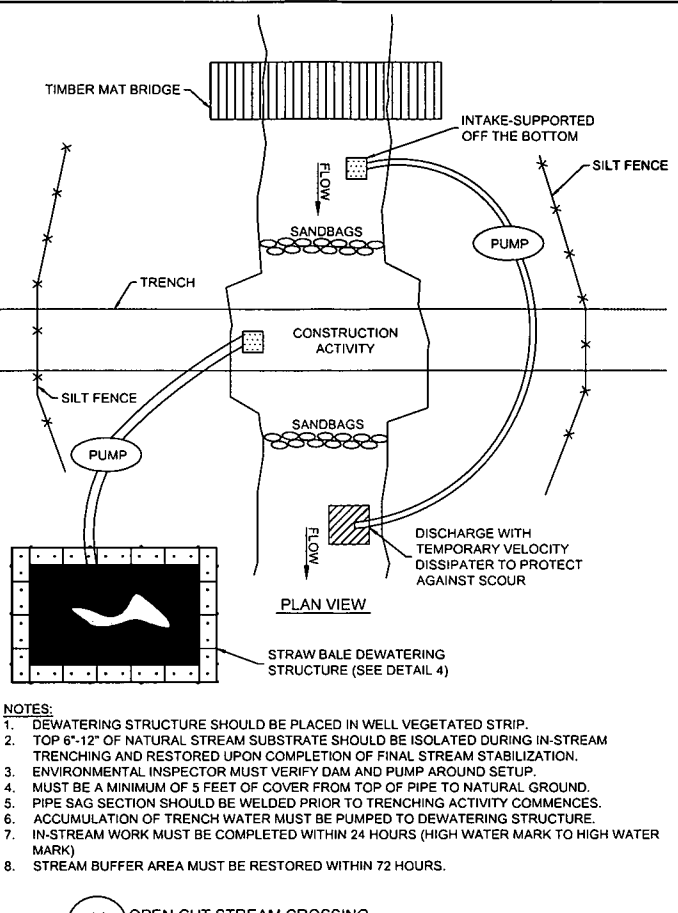
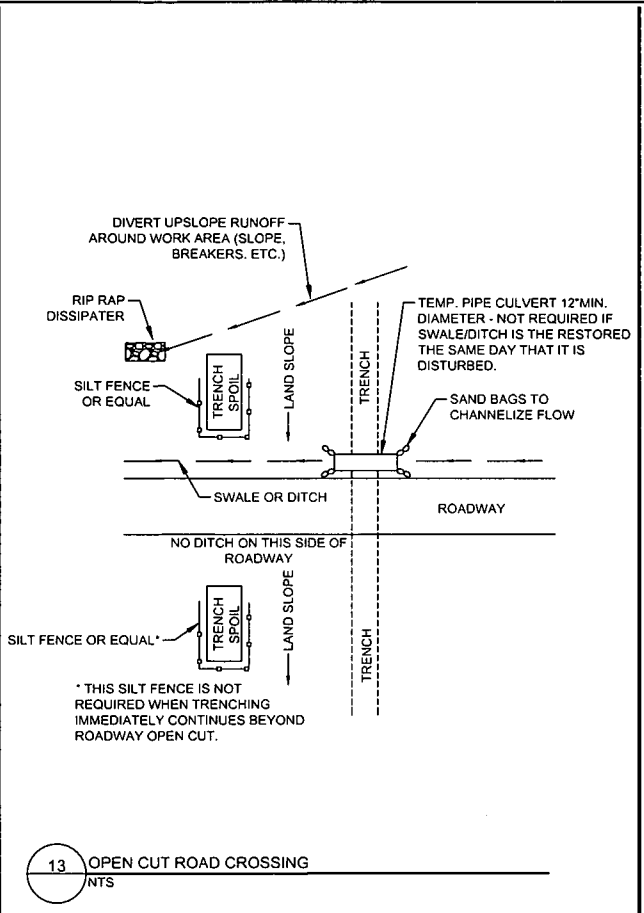
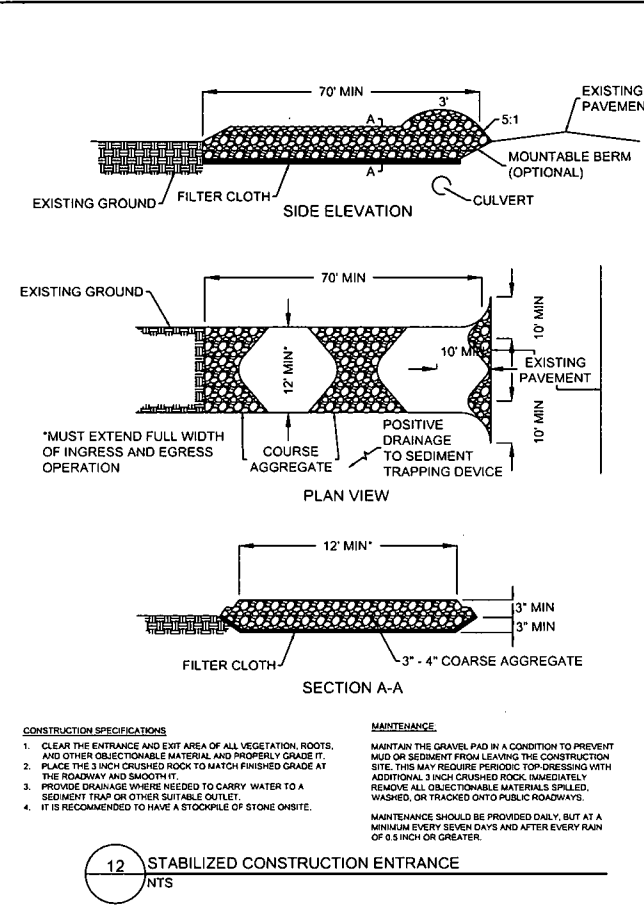
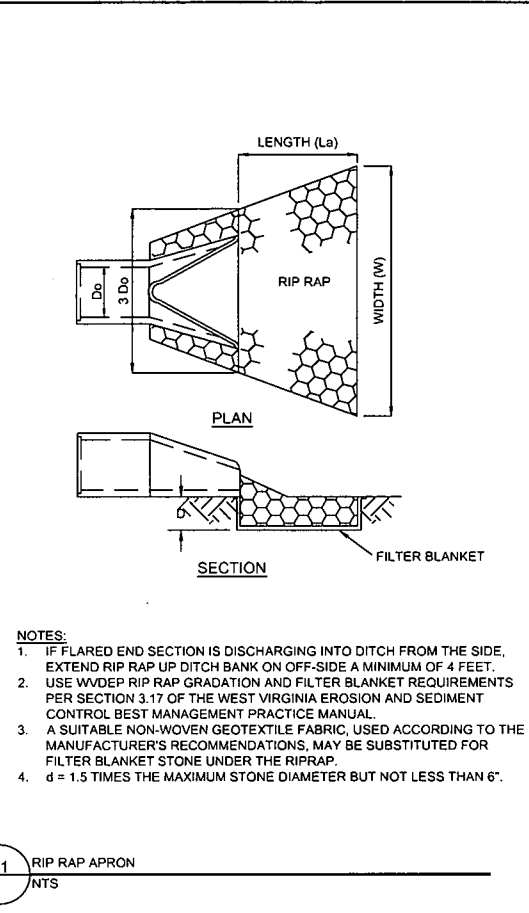
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Signed By: TROY DANIEL # 20043

REVISIONS

| REV | DESCRIPTION | DSN DWN | CHK APP | DATE |
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SCALE VERIFICATION

THIS BAR IS 1 INCH IN LENGTH ON ORIGINAL DRAWING



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ORIGINAL DRAWING SIZE IS 22 x 34

**BMP TECHNICAL INSTALLATION DETAILS**

EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

**EROSION & SEDIMENT CONTROL PLANS**

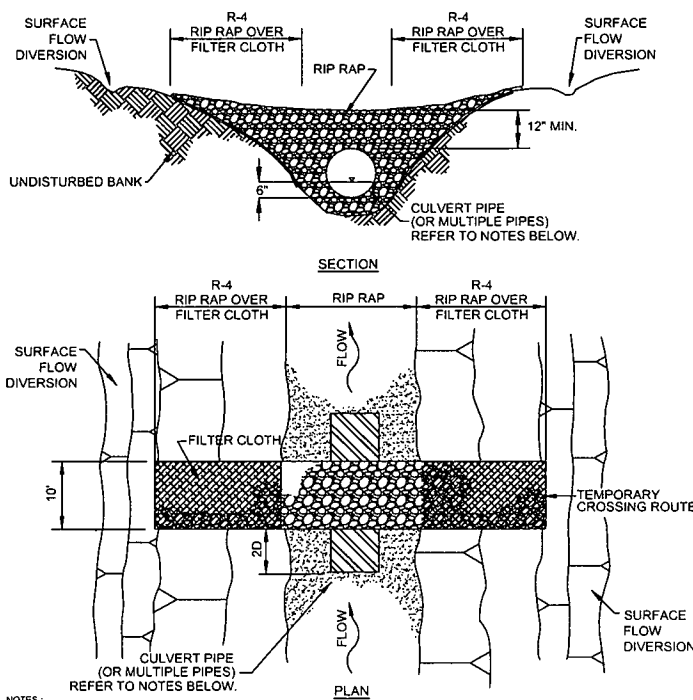
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|------------------|------------|
| PROJECT NO.      | 20162247   |
| ISSUE DATE       | 07-29-2016 |
| CURRENT REVISION | -          |
| DESIGNED BY      | BHH        |
| DRAWN BY         | BHH        |
| CHECKED BY       | BB         |
| APPROVED BY      | TD         |

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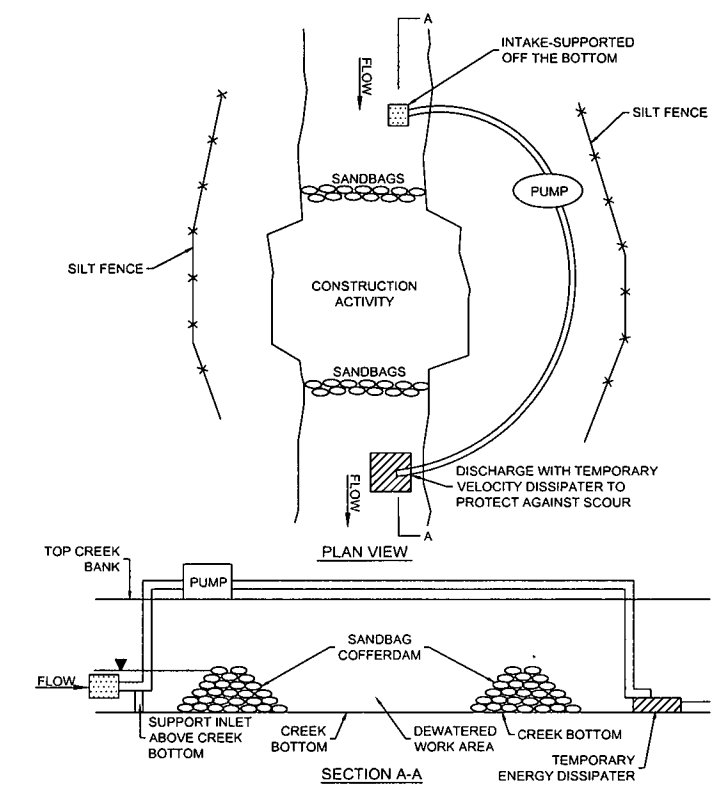
Signed By: TROY DANIEL # 20043

| REVISIONS |             |     |     |      |
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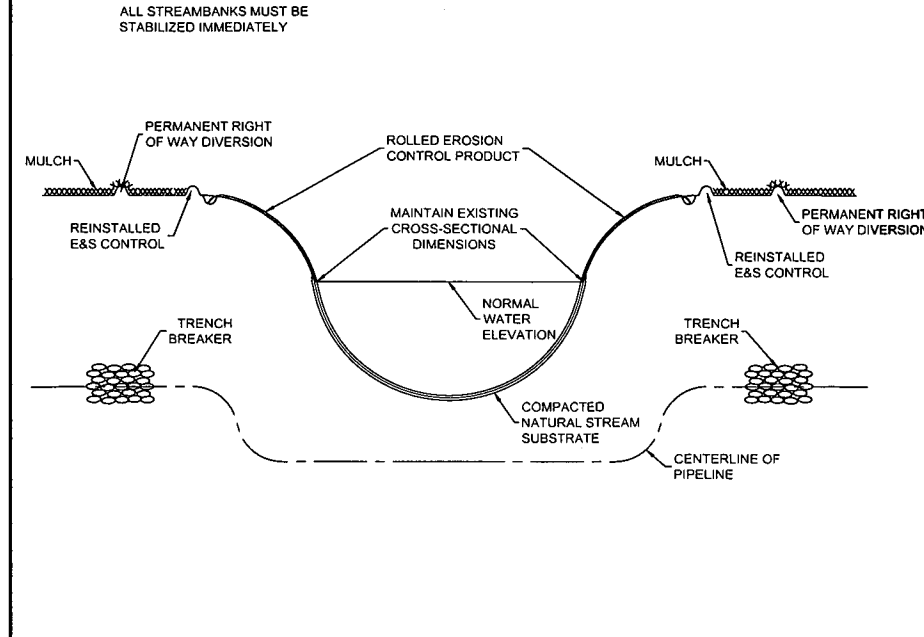


- NOTES:**
1. PIPE SHOULD EXTEND BEYOND TOE OF ROADWAY.
  2. ROADWAY SHOULD BE DERESSED OVER CULVERT TO ALLOW FOR OVERFLOW.
  3. CLEAN ROCK FILL SHALL BE USED TO GUARD AGAINST EROSION AND SEDIMENTATION. STREAMBED MATERIAL IS NOT TO BE USED.
  4. MINIMUM SIZE DIAMETER CULVERT TO BE INSTALLED IS 12 INCHES.
  5. APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 8 INCHES ABOVE ORIGINAL GRADE.
  6. PROPER EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSTALLED.

18 ROCK FLUME BRIDGE  
NTS



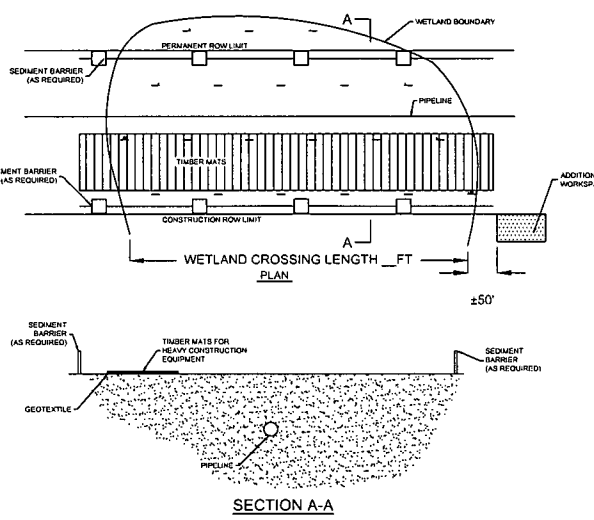
19 DAM & PUMP AROUND  
NTS



20 STREAM BANK STABILIZATION  
NTS

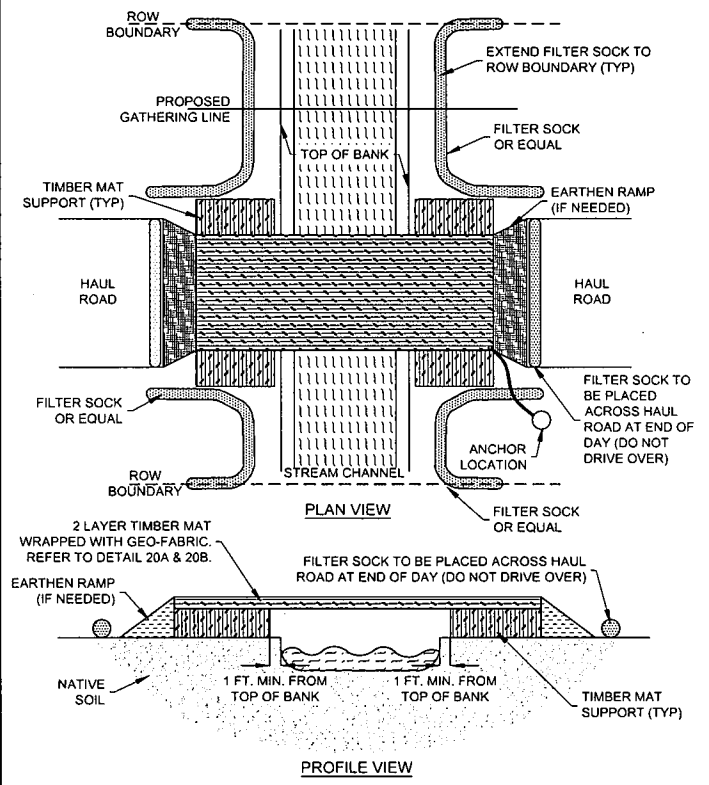
**CONSTRUCTION SPECIFICATIONS AND GENERAL SPECIFICATIONS:**

1. CROSSING ALIGNMENT SHALL BE AT RIGHT ANGLE TO THE STREAM. WHERE THE APPROACH CONDITIONS DICTATE, THE CROSSING MAY VARY 15 DEGREES FROM THE LINE DRAWN PERPENDICULAR TO THE CENTERLINE OF THE STREAM.
2. TIMBER MATTING RUNNERS SHALL BE PLACED PERPENDICULAR TO STREAM AND ADJACENT TO ONE ANOTHER.
3. TIMBER MATTING CAPS SHALL BE PLACED PARALLEL TO STREAM AND ADJACENT TO ONE ANOTHER FOR THE ENTIRE SPAN OF THE BRIDGE.
4. TIMBER MATTING CAPS SHALL BE WRAPPED UNDERNEATH AND ALONG THE SIDES OF TIMBER MAT WITH GEO-FABRIC MATERIAL OR APPROVED EQUAL. EXTEND GEO-FABRIC MATERIAL AT MINIMUM 5 FEET ON EITHER SIDE TO ALLOW ENOUGH MATERIAL TO WRAP UP AND THE INTO PLYWOOD SPLASH PROTECTION FENCING (OR APPROVED EQUAL) TO CONTROL SEDIMENT FROM ENTERING STREAM.
5. PLYWOOD SPLASH PROTECTION FENCING (OR APPROVED EQUAL) SHALL BE SECURELY ATTACHED ALONG THE OUTER SIDES OF TIMBER MATTING TO CONTROL SEDIMENT COLLECTION AND ALLOW GEO-FABRIC MATERIAL TO BE STAPLED TO OUTSIDE OF PLYWOOD.
6. BRIDGE SHALL BE CONSTRUCTED MINIMUM 1 FOOT OUTSIDE TOP OF BANK.
7. BRIDGE SHALL BE SECURELY ANCHORED AT ONLY ONE END USING STEEL CABLE OR CHAIN. ACCEPTABLE ANCHORS ARE LARGE TREES, LARGE BOULDERS, OR DRIVEN STEEL ANCHORS. ANCHORING SHALL BE SUFFICIENT TO PREVENT THE BRIDGE FROM FLOATING DOWNSTREAM.
8. ALL AREAS DISTURBED DURING BRIDGE INSTALLATION SHALL BE STABILIZED IMMEDIATELY.
9. PLYWOOD SPLASH PROTECTION (OR APPROVED EQUAL) SHALL BE WELL MAINTAINED, CLEARING SEDIMENT WHEN NECESSARY.
10. FILTER SOCK SHALL BE PLACED ALONG BOTH ENTRANCES OF THE BRIDGE WHEN NOT IN USE FOR MORE THAN 24 HOURS AND/OR PRIOR TO PRECIPITATION EVENTS. DO NOT DRIVE OVER FILTER SOCK.

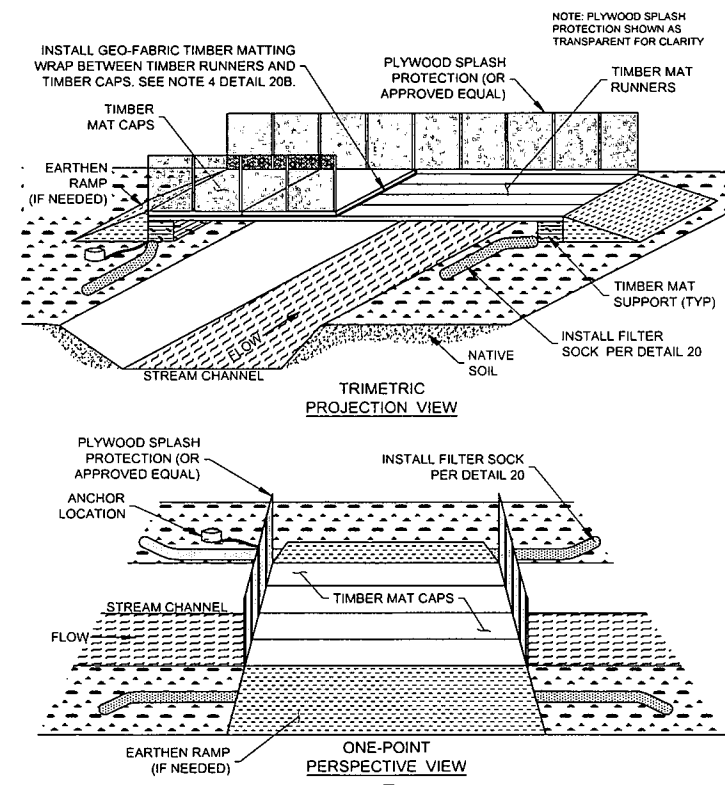


- GENERAL CONSTRUCTION SEQUENCE NOTES:**
1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS PRIOR TO EARTH DISTURBANCE.
  2. SEDIMENT BARRIERS WILL BE INSTALLED AT THE EDGE OF THE ROW.
  3. WORKING SIDE WILL BE STABILIZED WITH PRE-FABRICATED MATS, AS NEEDED TO PROVIDE A FIRM SURFACE FOR CONSTRUCTION EQUIPMENT. FOR ALL DELINEATED WETLAND AREAS, GEOTEXTILE SHALL BE PLACED UNDER THE MATS TO PREVENT MOVEMENT OR PUMPING OF THE SOIL THROUGH THE MATS.
  4. WETLAND MATERIAL WILL BE STRIPPED, SEGREGATED, AND RESTORED UPON COMPLETION OF THE CROSSING.

21 TYPICAL EROSION AND SEDIMENT CONTROL FOR WETLAND CROSSINGS  
NTS



22 TYPICAL EROSION AND SEDIMENT CONTROL FOR STREAM CROSSINGS  
NTS



22A TYPICAL EROSION AND SEDIMENT CONTROL FOR STREAM CROSSINGS  
NTS

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**SCALE VERIFICATION**  
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0 1"  
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**BMP TECHNICAL INSTALLATION DETAILS**

EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

**EROSION & SEDIMENT CONTROL PLANS**

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LAYOUT: 26 BMP Technical Installation Details.dwg

| Temporary Stabilization Seeding |                     |                        |
|---------------------------------|---------------------|------------------------|
| March 15 - September 15         | Annual Rye          | 250 - 350 lbs per acre |
| September 15 - March 15         | Annual Winter Wheat | 100 - 125 lbs per acre |

23 TEMPORARY SEEDING CHART  
NTS

| Default Pasture Mix (200 - 225 LBS per Acre)    |     |
|---|-----|
| Named Variety of Forage Perennial Ryegrass      | 20% |
| Named Variety of Forage Tall Fescue (not Fawn)  | 20% |
| Climax Timothy                                  | 15% |
| Orchardgrass                                    | 10% |
| Birdsfoot Trefoil                               | 10% |
| Medium Red Clover                               | 5%  |
| Ladino Clover                                   | 5%  |
| Kentucky Bluegrass VNS                          | 5%  |
| Alsike Clover                                   | 5%  |
| Alfalfa   | 5%  |
| * All seed mixes require double inoculation     |     |
| Default Wildlife Mix (150 - 175 LBS per Acre)   |     |
| Medium Red Clover                               | 20% |
| Buckwheat                                       | 10% |
| Oats (Spring & Summer) or Wheat (Fall & Winter) | 10% |
| Ladino White Clover                             | 20% |
| Birdsfoot Trefoil                               | 10% |
| Alfalfa   | 10% |
| Named Variety of Forage Perennial Ryegrass      | 10% |
| Annual Ryegrass                                 | 10% |
| * All seed mixes require double inoculation     |     |
| General Contractor Mix (200 - 250 LBS per Acre) |     |
| Named Variety of Forage Tall Fescue (not Fawn)  | 50% |
| Named Variety of Forage Perennial Ryegrass      | 20% |
| Annual Ryegrass                                 | 15% |
| Ladino Clover                                   | 5%  |
| Alsike Clover                                   | 5%  |
| Birdsfoot Trefoil                               | 5%  |
| * All seed mixes require double inoculation     |     |

24 PERMANENT SEEDING CHART  
NTS

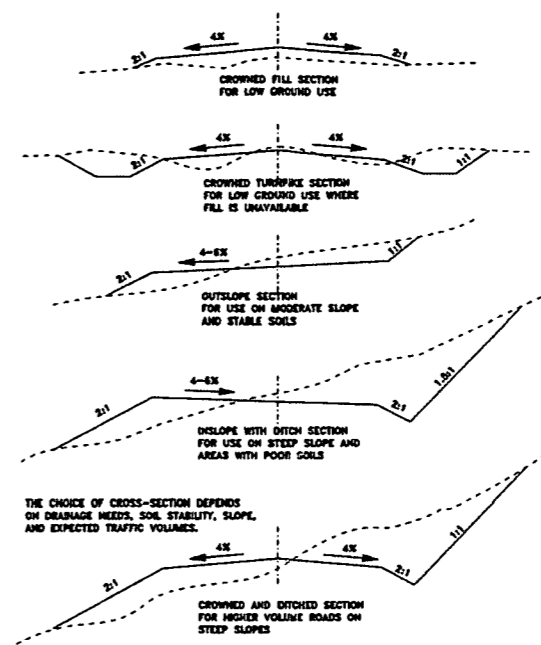
Lime  
Pelletized  
1.5 tons per acre

Fertilizer  
10/20/20  
200 lbs per acre

Straw Mulching  
2 tons per acre

25 LIME, FERTILIZER, AND MULCH CHARTS  
NTS

TYPES OF ROAD CROSS-SECTIONS



FROM: US FOREST SERVICE AND MICHIGAN DNR

26 TYPES OF ROAD CROSS-SECTIONS  
NTS



230 Executive Drive, Suite 122  
Cranberry Township, PA 16066  
Phone: 724-772-7072  
www.kleinfelder.com



Signed By: TROY DANIEL # 20043

| REVISIONS |             |             |            |      |
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| REV       | DESCRIPTION | DSN<br>DOWN | CHK<br>APP | DATE |
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0 1"  
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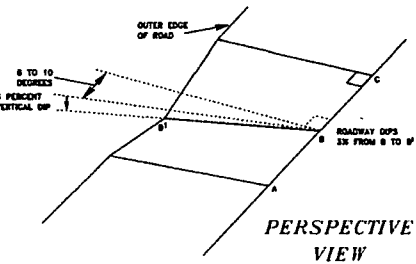
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| APPROVED BY      | TD         |
| SHEET 27 of 31   |            |

| EIBS CAMP ROAD STORM DRAINAGE COMPUTATIONS |                    |               |           |             |                   |                   |               |
|--|--------------------|---------------|-----------|-------------|-------------------|-------------------|---------------|
| ACCESS ROAD CROSS-DRAINS                   | Q TOTAL FLOW (cfs) | SLOPE (ft/ft) | SIZE (in) | LENGTH (ft) | UPPER INVERT (ft) | LOWER INVERT (ft) | PIPE MATERIAL |
| P1 01+15                                   | 0.26               | 0.0033        | 12"       | 30.00       | 810.90            | 810.80            | HDPE          |
| P2 00+00                                   | 0.35               | 0.0045        | 12"       | 44.00       | 814.00            | 813.80            | HDPE          |
| P3 05+20                                   | 0.26               | 0.0031        | 10"       | 32.00       | 817.00            | 816.90            | HDPE          |
| P4 08+37                                   | 0.26               | 0.0071        | 12"       | 42.00       | 822.80            | 822.50            | HDPE          |
| P5 16+18                                   | 0.26               | 0.0063        | 24"       | 32.00       | 837.00            | 836.80            | HDPE          |
| P6 20+75                                   | 0.26               | 0.0156        | 12"       | 32.00       | 859.75            | 859.25            | HDPE          |
| P7 23+80                                   | 0.26               | 0.0074        | 12"       | 34.00       | 858.00            | 857.75            | HDPE          |
| P8 26+29                                   | 0.26               | 0.0044        | 24"       | 45.00       | 858.70            | 858.50            | HDPE          |
| P9 30+70                                   | 0.26               | 0.0147        | 12"       | 34.00       | 868.50            | 868.00            | HDPE          |
| P10 00+00                                  | 0.26               | 0.0313        | 12"       | 16.00       | 869.00            | 868.50            | HDPE          |
| P11 37+40                                  | 0.26               | 0.0083        | 12"       | 24.00       | 884.70            | 884.50            | HDPE          |
| P12 00+00                                  | 0.26               | 0.0083        | 12"       | 24.00       | 892.00            | 891.80            | HDPE          |
| P13 42+22                                  | 0.26               | 0.0066        | 48"       | 38.00       | 892.50            | 892.25            | HDPE          |
| P14 00+00                                  | 0.26               | 0.0056        | 12"       | 18.00       | 897.80            | 897.70            | HDPE          |
| P15 44+72                                  | 0.26               | 0.0060        | 48"       | 50.00       | 900.00            | 899.70            | HDPE          |
| P16 00+00                                  | 0.26               | 0.0182        | 12"       | 22.00       | 918.30            | 917.90            | HDPE          |
| P17 49+48                                  | 0.26               | 0.0966        | 18"       | 88.00       | 927.00            | 918.50            | HDPE          |
| P18 54+34                                  | 0.26               | 0.0167        | 12"       | 30.00       | 935.00            | 934.50            | HDPE          |
| P19 58+51                                  | 0.26               | 0.0147        | 24"       | 34.00       | 954.00            | 953.50            | HDPE          |

| EIBS CAMP ROAD ROAD-SIDE DITCH & CHANNEL DESIGN AND LINING |                 |                   |                           |                            |                    |                    |                    |
|--|-----------------|-------------------|---------------------------|----------------------------|--------------------|--------------------|--------------------|
| ROAD-SIDE DITCH / CHANNEL NAME                             | CHANNEL SECTION | BOTTOM WIDTH (ft) | LEFT SIDE SLOPE, Z:1 (ft) | RIGHT SIDE SLOPE, Z:1 (ft) | CHANNEL DEPTH (ft) | TEMPORARY LINER    | PERMANENT LINER    |
| ROAD-SIDE DITCH 1  | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 2  | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 3  | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 4  | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 5  | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 6  | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 7  | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 8  | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 9  | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 10   | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 11   | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 12   | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 13   | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 14   | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 15   | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 16   | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 17   | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |
| ROAD-SIDE DITCH 18   | TRIANGULAR      | -                 | 2                         | 2                          | 1                  | RIP RAP OR MATTING | RIP RAP OR MATTING |

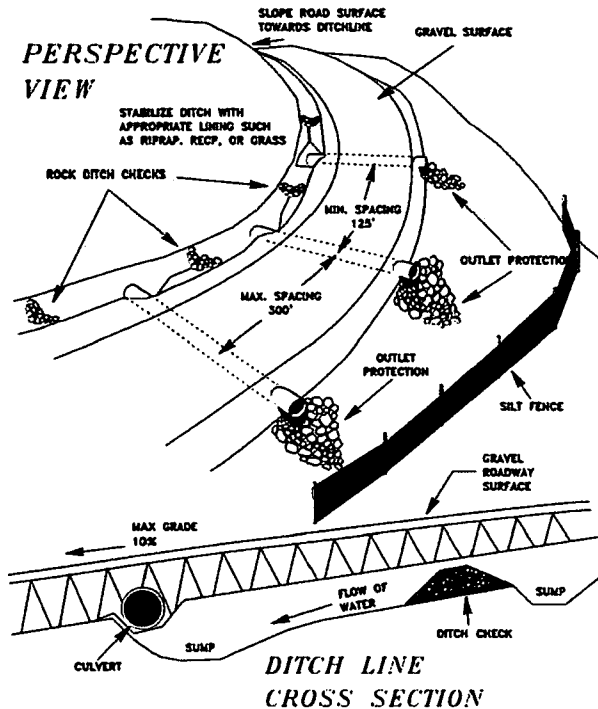
CAO FILE: C:\work\pgh\drawing\2016\BMP\Technical\Installation\Details.dwg PLOTTED: 7/29/2016 3:48 PM BY: benjamin haugest LAYOUT: 27 BMP TECHNICAL INSTALLATION DETAILS



| Drainage Area (Acres) | Average Slope of Watershed |    |    |     |
|-----------------------|----------------------------|----|----|-----|
|                       | 1%                         | 4% | 8% | 16% |
| 1-25                  | 24                         | 30 | 30 | 30  |
| 25-50                 | 24                         | 30 | 30 | 30  |
| 51-100                | 30                         | 30 | 42 | 48  |
| 101-150               | 30                         | 42 | 48 | 48  |
| 151-200               | 36                         | 42 | 48 | 54  |
| 200-250               | 42                         | 48 | 60 | 60  |
| 251-300               | 42                         | 48 | 60 | 60  |
| 301-350               | 42                         | 48 | 60 | 60  |
| 351-400               | 42                         | 54 | 60 | 60  |
| 401-450               | 42                         | 54 | 60 | 72  |
| 451-500               | 42                         | 54 | 60 | 72  |
| 501-550               | 48                         | 60 | 60 | 72  |
| 551-600               | 48                         | 60 | 60 | 72  |
| 601-640               | 48                         | 60 | 72 | 72  |

27 BROAD-BASE DIP NTS

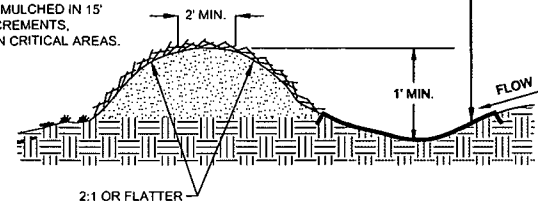
PERSPECTIVE VIEW



28 EROSION AND SEDIMENT CONTROL FOR ACCESS ROADS AND DRIVEWAYS NTS

EROSION CONTROL MAT NORTH AMERICAN GREEN C1258N WITH BIODEGRADABLE STAPLES OR APPROVED EQUAL. REFER TO MANUFACTURER FOR INSTALLATION INSTRUCTIONS.

FILL SLOPE TRACKED, SEEDED AND MULCHED IN 15' VERTICAL INCREMENTS, BLANKETED IN CRITICAL AREAS.



INSTALLATION:

1. WHEN CLEARING THE LOCATION FOR THE DIVERSION, ONLY CLEAR ENOUGH ROOM FOR CONSTRUCTION AND MAINTENANCE EQUIPMENT ACCESS. DO NOT CLEAR ANY ADDITIONAL AREA UNTIL ALL EROSION CONTROL DEVICES ARE IN PLACE
2. REMOVE ALL STUMPS, ROOTS, AND OTHER DEBRIS AND DISPOSE OF THEM PROPERLY.
3. INSTALL DIVERSION AND COMPACT AS SHOWN IN DETAIL INSURE POSITIVE DRAINAGE DURING CONSTRUCTION OF BERM.
4. SCARIFY, SEED, MULCH AND TACK DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF BERM
5. INSTALL EROSION CONTROL MAT NORTH AMERICAN GREEN C125N PER MANUFACTURER'S RECOMMENDATIONS AND KEY INTO SIDES OF CHANNEL TO PREVENT WATER FROM UNDERMINING OR DAMAGING CHANNEL LINER.

NOTES:

1. TEMPORARY BERMS SHALL BE PLACED, MAINTAINED, AND ADJUSTED CONTINUOUSLY UNTIL 90% VEGETATIVE GROWTH IS ESTABLISHED ON THE EXTERIOR SLOPES WITH PERMANENT STORM DRAINAGE FACILITIES FUNCTIONING.
2. BERMS SHALL OUTLET TO SLOPE PIPES, CHANNELS, OR OTHER APPROVED MEANS OF CONVEYING RUNOFF TO A SEDIMENT TRAP, SEDIMENT BASIN, OR COLLECTOR CHANNEL.
3. CHANNEL BEHIND BERM SHALL HAVE POSITIVE GRADE TO OUTLET AND AN APPROPRIATE PROTECTIVE LINING.
4. BERM SHALL BE ADEQUATELY COMPACTED TO PREVENT FAILURE.
5. AN ACCEPTABLE ALTERNATIVE TO TOP-OF-SLOPE BERM IS TO CONTINUOUSLY GRADE THE TOP OF FILL TO DIRECT RUNOFF AWAY FROM THE FILL/SLOPE TO A COLLECTOR CHANNEL, SEDIMENT TRAP, OR SEDIMENT BASIN.

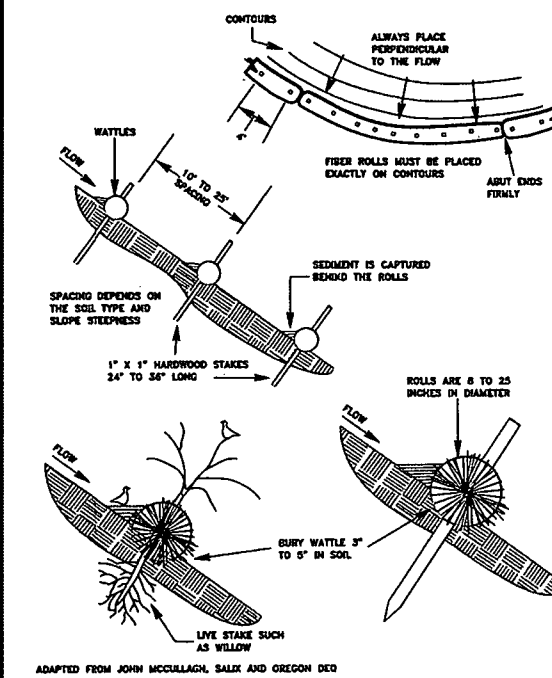
MAINTENANCE:

INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS. REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

29 TEMPORARY DIVERSION BERM FOR OFFSITE WATER NTS

FIGURE 3.06.1

WATTLES



30 WATTLES NTS



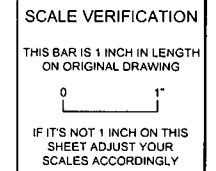
230 Executive Drive, Suite 122  
 Creechery Townshp, PA 16056  
 Phone: 724-772-7072  
 www.kleinfelder.com



Signed By: TROY DANIEL # 20043

| REVISIONS |             |     |     |      |
|-----------|-------------|-----|-----|------|
| REV       | DESCRIPTION | DSN | CHK | DATE |
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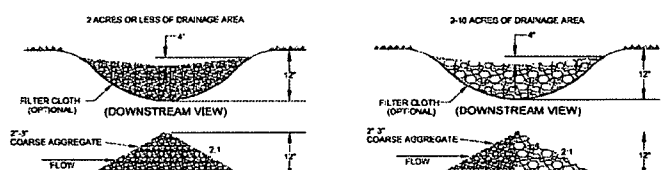
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ORIGINAL DRAWING SIZE IS 22 x 34  
**BMP TECHNICAL INSTALLATION DETAILS**  
 EIBS CAMP ROAD IMPROVEMENTS  
 NEW MILTON DISTRICT, DODDRIDGE COUNTY  
 WEST VIRGINIA

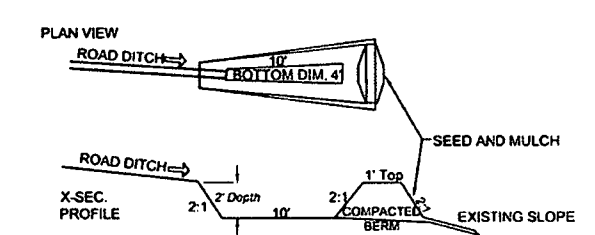
| EROSION & SEDIMENT CONTROL PLANS |            |
|----------------------------------|------------|
| PROJECT NO.                      | 20182247   |
| ISSUE DATE                       | 07-29-2016 |
| CURRENT REVISION                 | -          |
| DESIGNED BY                      | BHH        |
| DRAWN BY                         | BHH        |
| CHECKED BY                       | BB         |
| APPROVED BY                      | TD         |
| SHEET                            | 28 of 31   |

28



**NOTES:**  
 DITCH CHECKS WILL BE CONSTRUCTED IN CHANNELS TO MINIMIZE EROSION. THE CONSTRUCTION OF THE DITCH CHECK WILL FOLLOW THE GUIDELINES ABOVE. DITCH CHECKS WILL BE CONSTRUCTED SO THAT THE ELEVATION OF THE TOP OF THE DOWNSTREAM DITCH CHECK IS EQUAL TO THE ELEVATION OF THE BASE OF THE DITCH CHECK ABOVE. THIS CREATES A SITUATION WHERE THE CHANNEL HAS NO CHANNELIZED FLOW PER SE, THE WATER FLOWING DOWN THE DITCH WILL CASCADE FROM THE POOL CREATED BY ONE DITCH CHECK INTO THE POOL CREATED BY THE DOWNSTREAM DITCH CHECK THIS DISSIPATES ENERGY AND SLOWS THE WATER FLOW REDUCING EROSION AND ALLOWING ANY SEDIMENT IN THE DRAINAGE TO FALL OUT.

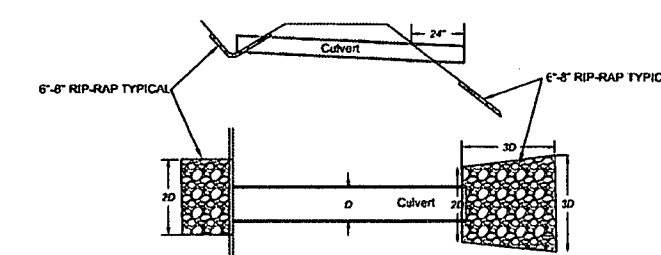
31 CHECK DAM NTS



**NOTE:** TO BE PLACED AT THE ENDS OF DITCHES CALLING FOR LEVEL SPREADERS. LEVEL SPREADERS WILL BE CUT INTO THE CONTOUR OF THE EXISTING SLOPE.

**NOTES:**  
 LEVEL SPREADER TO BE CONSTRUCTED IN AREAS WHERE A CULVERT OR CHANNEL MUST EMPTY ONTO GROUND WITH NO ASSOCIATED CHANNELIZED FLOW. THE PURPOSE OF THE LEVEL SPREADER IS TO DISSIPATE ENERGY AND SPREAD THE FLOW OUT OVER A SIGNIFICANT AREA. THIS WILL TAKE A CHANNELIZED FLOW AND ESSENTIALLY CONVERT IT BACK TO A SHEET FLOW OVER THE GROUND SURFACE. THE SHEET FLOW WILL HAVE LESS CHANCE FOR EROSION CONSIDERING THE LOWER VELOCITIES AND FLOW VOLUMES IN ANY PARTICULAR AREA. THEY MAY BE CONSTRUCTED MUCH LIKE A SUMP WHERE THE CHANNEL OR CULVERT EMPTIES INTO THE SUMP AND THEN OVERTOPS THE BERMED AREA, BUT THEY MAY OFTEN CONTAIN GRAVEL IN THE SUMPED AREA. THEY WILL ALLOW BE CONSTRUCTED ALONG THE GROUND CONTOUR.

32 LEVEL SPREADER NTS



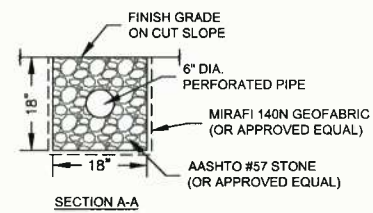
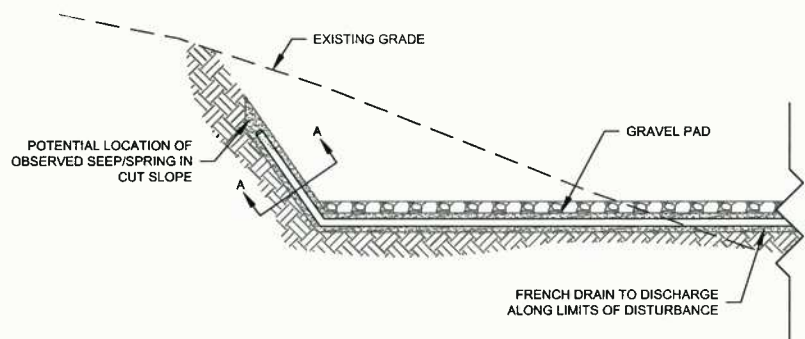
**NOTES:**  
 INLET AND OUTLET PROTECTION IS ESSENTIALLY GRAVELS AND/OR RIP RAP PLACED AT BOTH THE INLET AND OUTLET SIDES OF CULVERTS. THE GRAVELS WILL HELP TO SLOW THE FLOW OF WATER, AND DISSIPATE ENERGY. THIS WILL IN TURN DECREASE THE CHANCES OF EROSION AND ALSO ALLOW ANY SEDIMENT IN THE WATER TO SETTLE OUT.

33 TYPICAL CULVERT & CULVER INLET/OUTLET PROTECTION NTS

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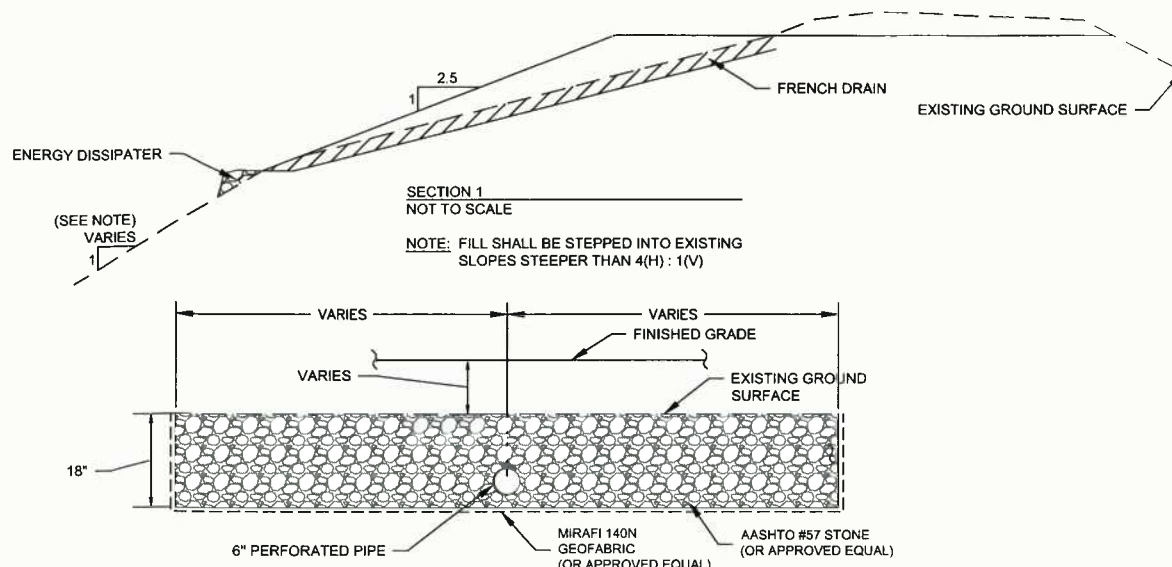






**NOTE:**  
IF EVIDENCE OF A SEEP/SPRING IN A CUT SLOPE IS OBSERVED, THE CONTRACTOR SHOULD INSTALL A FRENCH DRAIN PER DETAIL 38 ABOVE.

38 FRENCH DRAIN AT OBSERVED SEEP/SPRING IN CUT SLOPES  
NTS



- NOTES:**
- WHERE SPRINGS OR SEEPS ARE ENCOUNTERED DURING CONSTRUCTION, DRAINABLE FILL AND PERFORATED PIPES (FRENCH DRAINS) SHOULD BE INSTALLED TO PROVIDE A DRAINAGE PATH FOR SEEPAGE FROM THE EXISTING SLOPE.
  - THE FRENCH DRAIN SHOULD CONSIST OF A 6 INCH DIAMETER PERFORATED PIPE SURROUNDED BY DRAINABLE FILL, INSTALLED IN AN 18 INCH DEEP TRENCH ALONG THE EXISTING DRAINAGE FEATURE OR SEEP. PRIOR TO DRAINABLE FILL PLACEMENT, THE TRENCH SHOULD BE LINED WITH A LAYER OF GEOFABRIC SUCH AS MIRAFIX 140N, OR APPROVED EQUAL, WITH SUFFICIENT OVERLAP TO PROVIDE AN ENVELOPE AROUND THE PIPE TRENCH TO PREVENT THE MIGRATION OF FINES INTO THE FRENCH DRAIN.
  - THE FRENCH DRAIN SHOULD DAYLIGHT BEYOND THE TOE OR SIDE OF THE SLOPE AND EXTEND UP TO THE CREST OF THE SLOPE TO FACILITATE DRAINAGE THROUGH THE FILL SECTION. THE AS-BUILT WIDTH OF THE FRENCH DRAIN SHOULD BE A FUNCTION OF THE WIDTH OF THE SPRING, SEEP OR DRAINAGE FEATURE OBSERVED DURING CONSTRUCTION.
  - THE FRENCH DRAIN SHOULD BE CONSTRUCTED TO SPAN THE ENTIRE WIDTH OF THE OBSERVED SPRING OR SEEP.

39 FRENCH DRAIN AND DRAINABLE FILL SECTION AT OBSERVED SEEP/SPRING OR EXISTING DRAINAGE FEATURE LOCATION  
NTS



**Typical Polymer Stabilized Fiber Matrix Application Rates**

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

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

**NOTES:**  
A BONDED FIBER MATRIX (BFM) IS AN EFFECTIVE METHOD OF STABILIZING STEEP SLOPES WHEN USED PROPERLY. BMFs MAKE USE OF A CROSS-LINKED HYDROCOLLOID TACKIFIER TO BOND THERMALLY PROCESSED WOOD FIBERS. APPLICATION RATES VARY ACCORDING TO SITE CONDITIONS. FOR SLOPES UP TO 3H:1V THE BFM SHOULD BE APPLIED AT A RATE OF 3,000 LB/ACRE. STEEPER SLOPES MAY NEED AS MUCH AS 4,000 LB/ACRE.

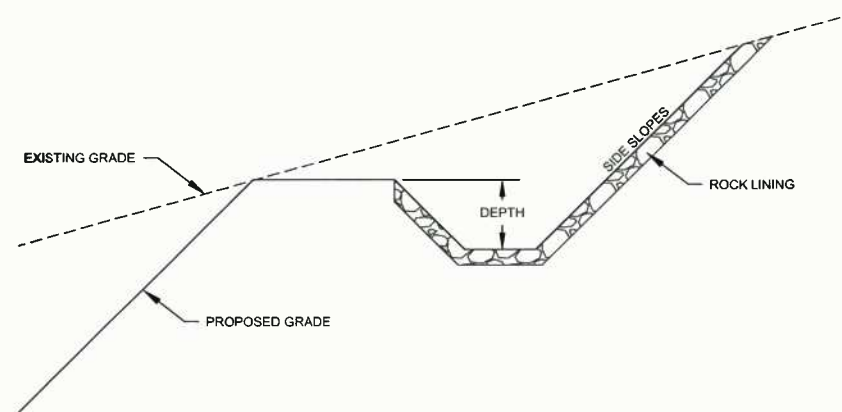
BMFs SHOULD ONLY BE USED WHEN NO RAIN IS FORECASTED FOR AT LEAST 48 HOURS FOLLOWING THE APPLICATION. THIS IS TO ALLOW THE TACKIFIER SUFFICIENT TIME TO CURE PROPERLY. ONCE PROPERLY APPLIED, A BFM IS TYPICALLY 90% EFFECTIVE IN PREVENTING ACCELERATED EROSION. BMFs SHOULD NOT BE APPLIED BETWEEN SEPTEMBER 30 AND APRIL 1.

A POLYMER STABILIZED FIBER MATRIX (PSFM) CAN ALSO BE AN EFFECTIVE METHOD OF STABILIZING STEEP SLOPES WHEN USED PROPERLY. PSFMs MAKE USE OF A LINEAR SOIL STABILIZING TACKIFIER THAT WORKS DIRECTLY ON SOIL TO MAINTAIN SOIL STRUCTURE, MAINTAIN PORE SPACE CAPACITY AND FLOCCULATE DISLODGED SEDIMENT THAT WILL SIGNIFICANTLY REDUCE RUNOFF TURBIDITY. PROPERLY APPLIED, A PSFM MAY BE AS MUCH AS 99% EFFECTIVE.

**NOTES:**  
UNLIKE ROLLED BLANKETS, THERE IS NO NEED TO SMOOTH THE SLOPE PRIOR TO APPLICATION OF HYDRAULICALLY APPLIED BLANKETS. IN FACT SOME ROUGHENING OF THE SURFACE, EITHER NATURAL OR MECHANICALLY INDUCED, IS PREFERABLE. HOWEVER, LARGE ROCKS, THOSE > 9 INCHES, AND EXISTING RILLS SHOULD BE REMOVED PRIOR TO APPLICATION. TRACKING OR GROOVING OF SLOPES SHOULD BE CONSIDERED TO SLOW WATER FLOWS DURING A STORM EVENT. SLOPE INTERRUPTION DEVICES SUCH AS STAIR STEP GRADING OR BENCHING SHOULD BE APPLIED PRIOR TO THE APPLICATION. MIXING AND APPLICATION RATES SHOULD FOLLOW MANUFACTURER'S RECOMMENDATIONS.

HYDRAULICALLY APPLIED BLANKETS ARE TYPICALLY APPLIED IN TWO STAGES. UNLESS SPECIFICALLY RECOMMENDED TO BE APPLIED IN ONE APPLICATION BY THE MANUFACTURER, THE SEED MIXTURE AND SOIL AMENDMENTS SHOULD BE APPLIED FIRST. IF THE SEED IS APPLIED AT THE SAME TIME AS THE HYDRAULICALLY APPLIED BLANKET, THE BONDED FIBERS MAY KEEP THE SEED FROM MAKING SUFFICIENT CONTACT WITH THE SOIL TO GERMINATE. AFTER THE SEED MIXTURE IS APPLIED, THE BFM, FGM, OR PSFM SHOULD BE SPRAYED OVER THE AREA AT THE REQUIRED APPLICATION RATE. (SEE ABOVE TABLES)

40 BONDED FIBER MATRIX (HYDROMULCH)  
NTS



**NOTE:**  
DRAINAGE CHANNEL DIMENSIONS AND LINING WILL BE DETERMINED BY ENGINEER AS APPLICABLE.

41 TYPICAL ROCK LINED CHANNEL  
NTS



230 Executive Drive, Suite 122  
Cranberry Township, PA 15066  
Phone: 724-772-7072  
www.kleinfelder.com



Signed By: TROY DANIEL # 20043

| REVISIONS |             |         |         |      |
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**SCALE VERIFICATION**  
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0 1"  
IF IT'S NOT 1 INCH ON THIS SHEET ADJUST YOUR SCALES ACCORDINGLY

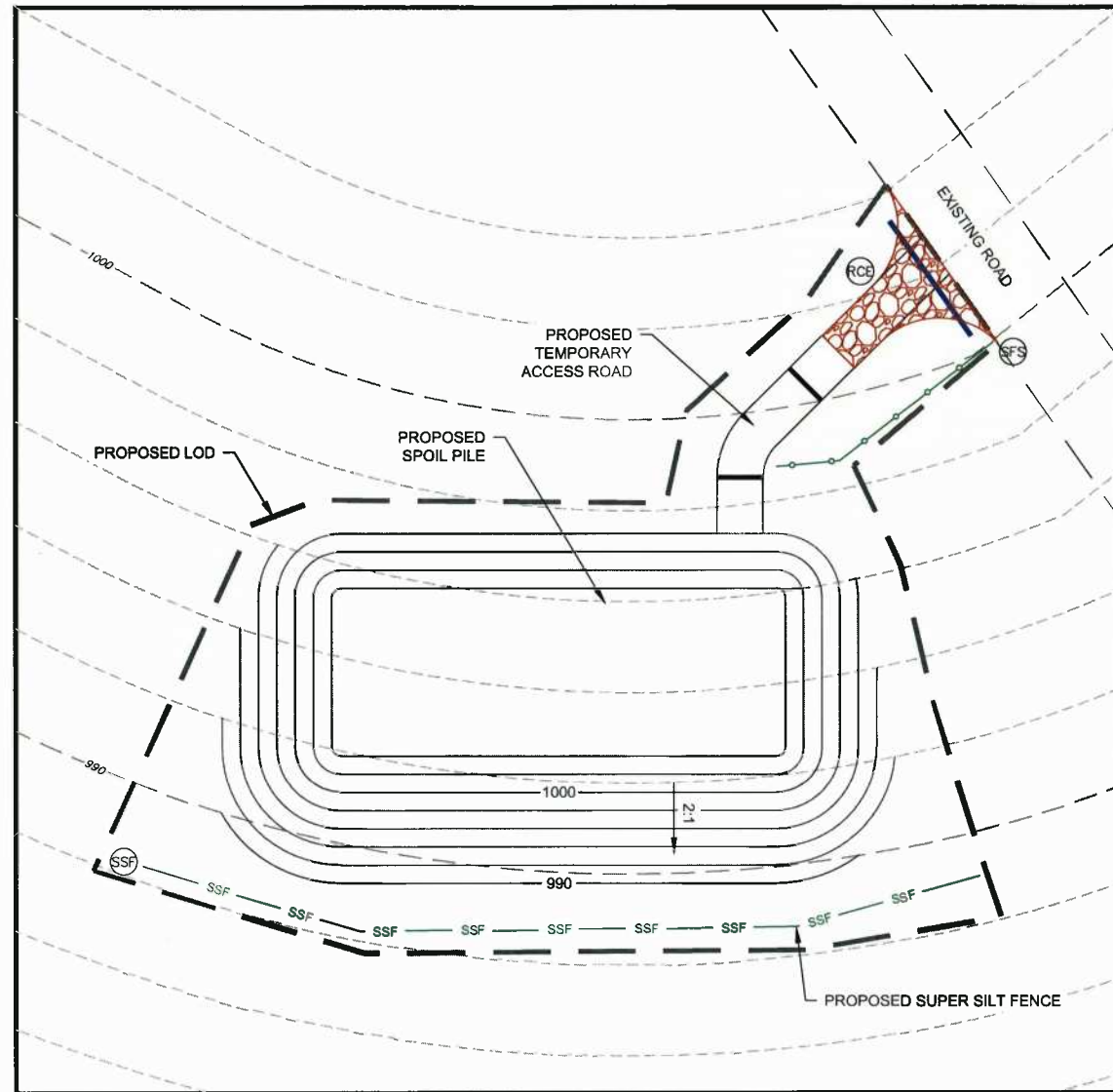
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EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

| EROSION & SEDIMENT CONTROL PLANS |            |
|----------------------------------|------------|
| PROJECT NO.                      | 20162247   |
| ISSUE DATE                       | 07-29-2016 |
| CURRENT REVISION                 | -          |
| DESIGNED BY                      | BHH        |
| DRAWN BY                         | BHH        |
| CHECKED BY                       | BB         |
| APPROVED BY                      | TD         |
| SHEET                            | 30 of 31   |

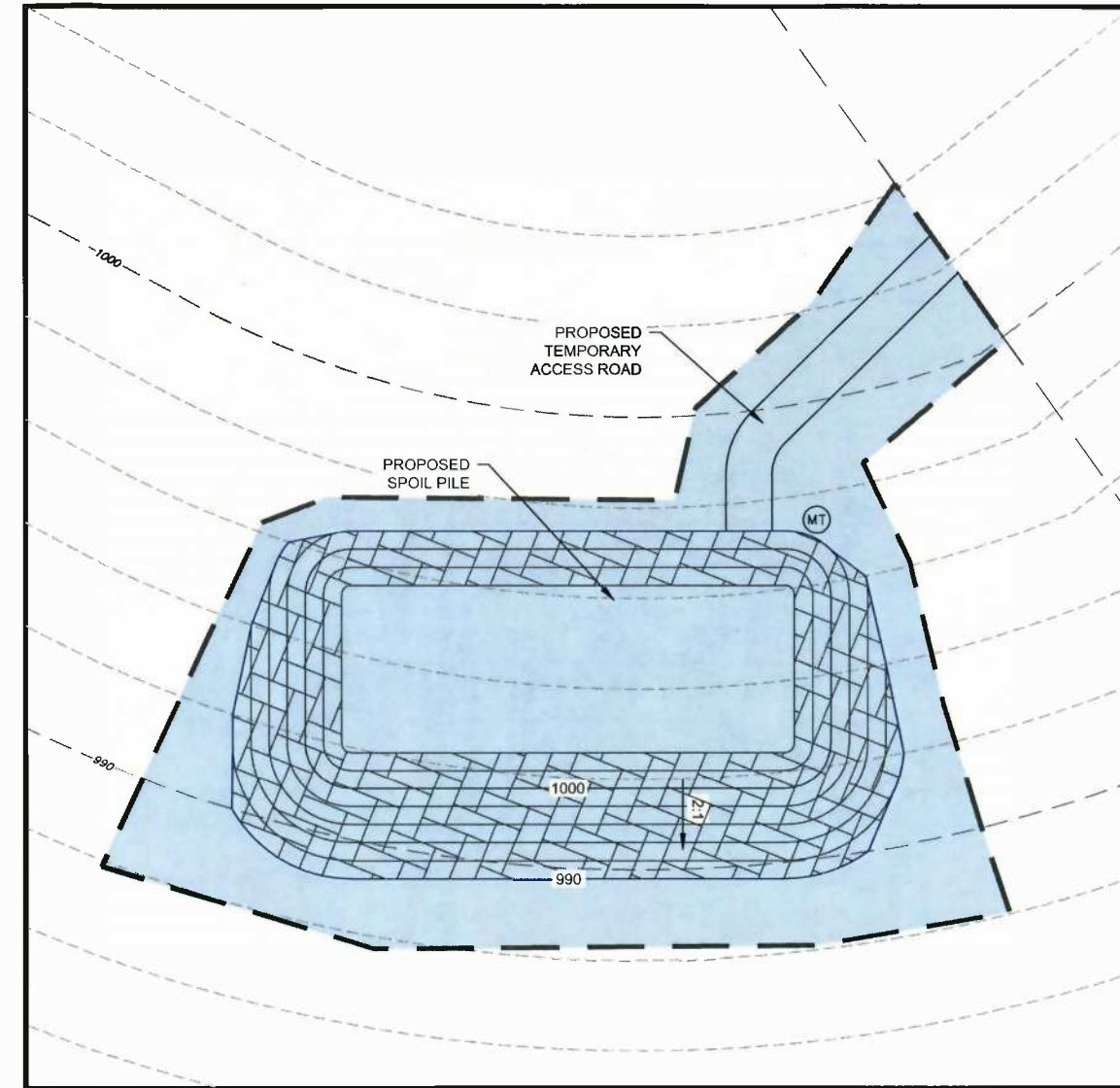
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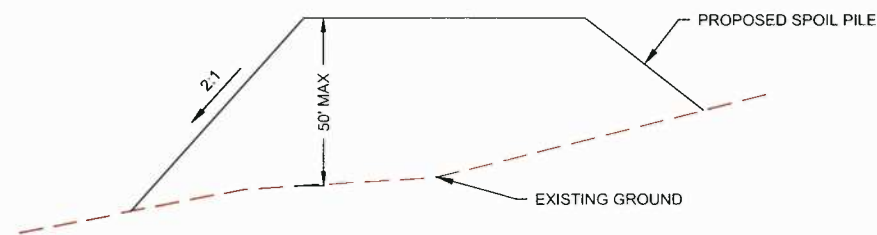
TYPICAL OFFSITE SPOIL PILE  
EROSION & SEDIMENT CONTROL DETAIL  
NOT TO SCALE



TYPICAL OFFSITE SPOIL PILE  
POST CONSTRUCTION BMP DETAIL  
NOT TO SCALE



TYPICAL OFF SITE  
SPOIL PILE PROFILE



**NOTES**

- SPOIL PILE SHALL NOT EXCEED 50 VERTICAL FEET
- FILL SLOPES OF 2:1

**LEGEND**

- 1000 --- EXISTING INDEX CONTOUR (10')
- --- EXISTING INTERMEDIATE CONTOUR (2')
- --- PROPOSED LIMIT OF DISTURBANCE
- 1000 --- PROPOSED MAJOR CONTOUR (10')
- --- PROPOSED MINOR CONTOUR (2')
- --- PROPOSED STORM DRAINAGE PIPE
- --- PROPOSED BROAD BASED DIP
- SSF --- PROPOSED SUPER SILT FENCE
- SFS --- PROPOSED TRIPLE STACKED FILTER SOCK
- RCE --- PROPOSED ROCK CONSTRUCTION ENTRANCE
- --- EROSION CONTROL BLANKET
- --- LIMIT OF CONSTRUCTION AND DISTURBANCE



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IF IT'S NOT 1 INCH ON THIS  
SHEET ADJUST YOUR  
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ORIGINAL DRAWING SIZE IS 22 x 34

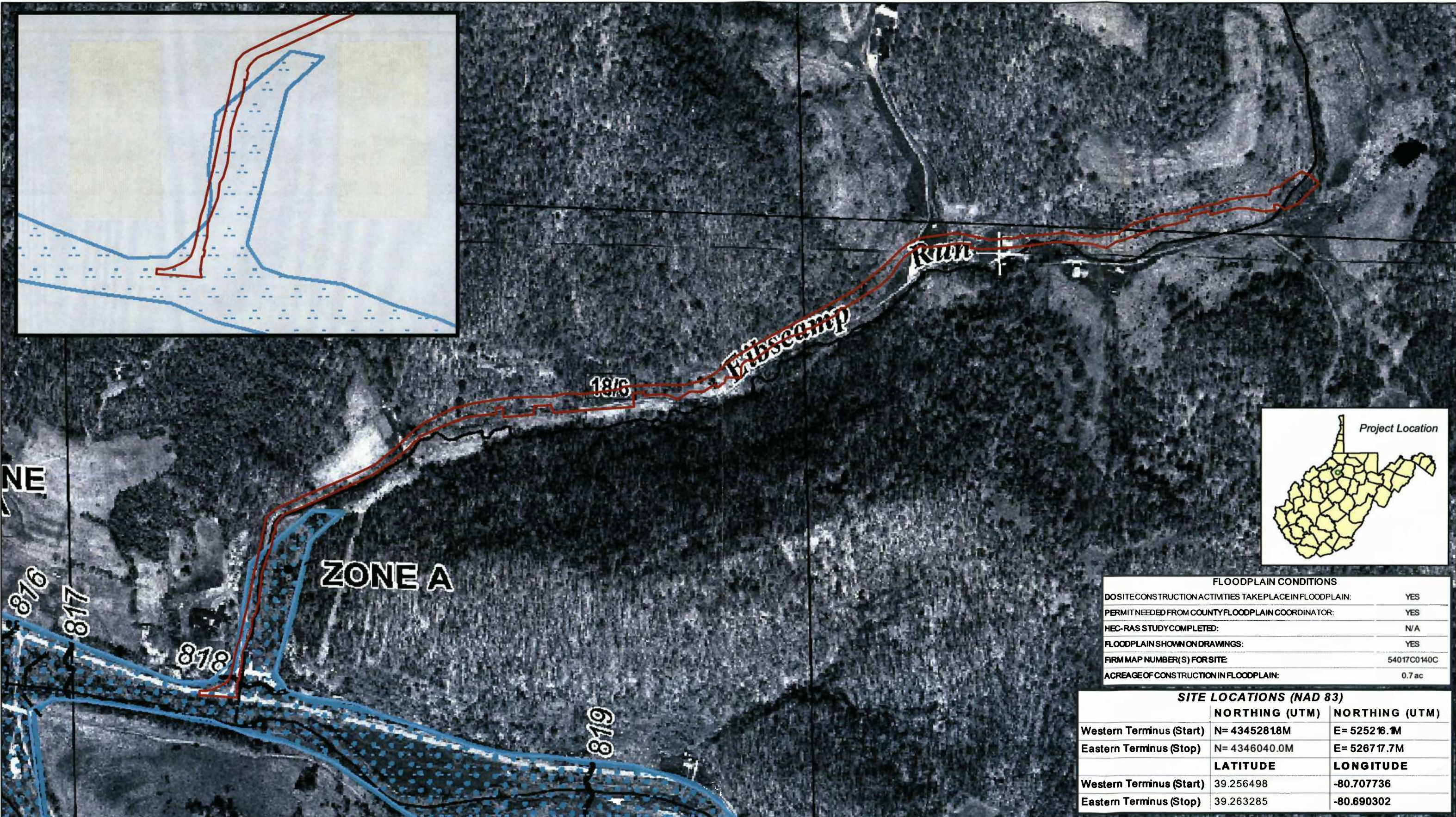
**OFFSITE SPOIL PILE DETAIL**

EIBS CAMP ROAD IMPROVEMENTS  
NEW MILTON DISTRICT, DODDRIDGE COUNTY  
WEST VIRGINIA

**EROSION & SEDIMENT  
CONTROL PLANS**

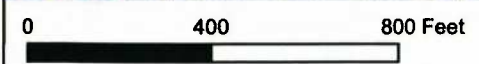
|                  |            |
|------------------|------------|
| PROJECT NO.      | 20162247   |
| ISSUE DATE       | 07-29-2016 |
| CURRENT REVISION | -          |
| DESIGNED BY      | BHH        |
| DRAWN BY         | BHH        |
| CHECKED BY       | BB         |
| APPROVED BY      | TD         |

**ATTACHMENT C**  
**FLOOD INSURANCE RATE MAP**



| FLOODPLAIN CONDITIONS                                  |             |
|--|-------------|
| DOES CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN: | YES         |
| PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:      | YES         |
| HEC-RAS STUDY COMPLETED:                               | N/A         |
| FLOODPLAIN SHOWN ON DRAWINGS:                          | YES         |
| FIRM MAP NUMBER(S) FOR SITE:                           | 54017C0140C |
| ACREAGE OF CONSTRUCTION IN FLOODPLAIN:                 | 0.7 ac      |

| SITE LOCATIONS (NAD 83)  |                |                |
|--------------------------|----------------|----------------|
|                          | NORTHING (UTM) | NORTHING (UTM) |
| Western Terminus (Start) | N= 43452818M   | E= 525216.1M   |
| Eastern Terminus (Stop)  | N= 4346040.0M  | E= 526717.7M   |
|                          | LATITUDE       | LONGITUDE      |
| Western Terminus (Start) | 39.256498      | -80.707736     |
| Eastern Terminus (Stop)  | 39.263285      | -80.690302     |



▭ Proposed LOD (7.3 ac)  
▭ FEMA Floodplain

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Base Map:  
 FEMA Firm  
 Map 54017C0140C  
 Smithburg, PA 7.5'  
 USGS Quadrangle

**EIBS CAMP ROAD  
 IMPROVEMENT PROJECT**  
 FEMA FIRM 54017C0140C  
 ENERGY TRANSFER COMPANY



PROJECT NO. 20162247  
 DRAWN: 8/2/2016  
 DRAWN BY: SMW  
 CHECKED BY: MJA  
 FILE NAME:  
 EibsCamp\_Floodplain\_Fig1.mxd

**Flood Insurance  
 Rate Map**  
 Eibs Camp Road  
 Improvement Project  
 Energy Transfer Company  
 Doddridge County, West Virginia

FIGURE  
**1**

**ATTACHMENT D**  
**REQUIRED PERMITS AND STATUS**

**Attachment D**  
**Eibs Camp Road Improvement Project**  
**Required Permits and Status**

| <b>Agency</b>                           | <b>Type of Approval</b>                | <b>Identification Number</b> | <b>Date Applied</b> | <b>Date Approved</b> |
|---|--|------------------------------|---------------------|----------------------|
| USFWS                                   | Section 7                              | N/A                          | 7/22/2016           | Pending              |
| WVDNR                                   | Section 7                              | N/A                          | 7/22/2016           | Pending              |
| WVDNR - OLS                             | Right of Entry Agreement               | TBD                          | Pending             | Pending              |
| Doddridge County Floodplain Coordinator | Floodplain Approval                    | TBD                          | Pending             | Pending              |
| WVDEP                                   | General Water Pollution Control Permit | WVR310728                    | 7/29/2016           | Pending              |
| ACOE                                    | Nationwide 14 Permit                   | TBD                          | Pending             | Pending              |
| WVSHPO                                  | Section 106                            | TBD                          | Submitted           | Pending              |
| WVDOH                                   | Driveway Permit                        | TBD                          | Pending             | Pending              |

**ATTACHMENT E**  
**WEST VIRGINIA FLOOD TOOL MAP**

# Meathouse Fork Crossing



**User Notes:**  
Eibs Camp Road Improvement  
Project WV Flood Tool

- Flood Hazard Zone
- Flood Point of Interest

**Disclaimer:**

The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at [www.msc.fema.gov](http://www.msc.fema.gov).  
*WV Flood Tool (<http://www.MapWV.gov/flood>) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.*

Map created on August 3, 2016

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

**FEMA Issued Flood Map:** 54017C0140C

**Watershed (HUC8):** Little Musringum-Middle Island (5030201)

**Elevation:** About 812 ft

**Location (long, lat):** (80.707754 W, 39.256393 N)

**Location (UTM 17N):** (525215, 4345269)

**Contacts:** Doddridge

**CRS Information:** N/A

**Parcel Number:**