

# Commercial/Industrial Floodplain Development Permit

## Doddridge County, WV Floodplain Management

This permit has been issued to **CONSOL Energy**, and is for the approved commercial and/or industrial development project associated with this permit that impacts the FEMA-designated floodplain and/or floodway of Doddridge County, WV, pursuant to the rules and regulations established by all applicable Federal, State and local laws and ordinances, including the Doddridge County Floodplain Ordinance. This permit must be posted at the site of work as to be clearly visible, and must remain posted during entirety of development.

**Permit: #14-308 ~ CONSOL Energy ~  
Sherwood to Buckeye Creek Waterline**

**Date Approved: 02/12/2015**

**Expires: 02/12/2016**

**Issued to: Cone Gathering, LLC via CESO, INC.**

**POC: Natalie Hooten  
412.221.2236**

**Company Address: 800 Bursca Dr STE 804  
Bridgeville, PA 15017-1451**

**Location: Grant District**

**Lat/Long: 39.274775N/80.697603W to 39.280096N/80.694657W**

**Purpose of development: Surface water pipeline from Sherwood facility to Buckeye Creek.**

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

**Date: 02/12/2015**

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

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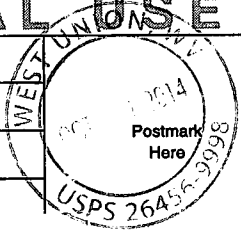
7014 0150 0001 7356 9256

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



#14-308  
 Dennis & Mellie M Powell  
 304 Stuart St  
 West Union, WV 26456

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

#14-308  
 Dennis & Mellie M Powell  
 304 Stuart St  
 West Union, WV 26456

2. Article Number

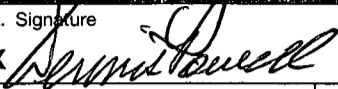
*(Transfer from service label)*

7014 0150 0001 7356 9256

**COMPLETE THIS SECTION ON DELIVERY.**

A. Signature

X


 Agent AddresseeB. Received by (*Printed Name*)

C. Date of Delivery

10/28/14

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

3. Service Type

 Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.4. Restricted Delivery? (*Extra Fee*) Yes

UNITED STATES POSTAL SERVICE

NOV 25

25 OCT 1994

PM 9 11



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

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



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

Legal Advertisement:  
Doddridge County  
Floodplain Permit Application

Please take notice that on the 21<sup>st</sup> day of October, 2014

**Consol Energy**

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

**Grant District**

**39.274775N/80.697603W to 39.280096N/80.694657W**

**Permit #14-308 Sherwood to Buckeye Creek Waterline**

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

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

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

#14-308



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

FILED

2014 OCT 21 AM 11:22

BETH A. ROGERS  
COUNTY CLERK  
DODDRIDGE COUNTY, WV

October 16, 2014

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

**RE: CONSOL- Sherwood-Buckeye Creek Waterline  
Doddridge County Floodplain Permit**

Dear Mr. Wriston:

CESO, Inc. is pleased to submit this information for a Doddridge County Floodplain Permit, for the proposed Sherwood-Buckeye Creek Waterline. CONSOL Energy (CONSOL) is proposing to construct a new 0.56-mile waterline within a portion of Doddridge County, West Virginia. The proposed project will begin at a tie-in to the proposed Sherwood South pipeline at 39.274775 N Latitude, 80.697603 W Longitude (NAD83) which lies northeast of Blandville, West Virginia. The proposed waterline traverses in a general northeast direction for approximately 0.34 miles before turning to the northwest, traversing approximately 0.22 miles before reaching its terminus at an intake point within Buffalo Creek at 39.280096 N Latitude, 80.694657 W Longitude (NAD83).

The Doddridge County Development Permit Application further describing project characteristics is presented in Attachment 1. According to the FEMA Flood Insurance Rate Maps, one waterway, Buckeye Creek, within the project vicinity exists within the 100-year floodplain. A map depicting the proposed alignment location and a map identifying project activity within the floodplain are also provided.

The waterway will be returned to its pre-disturbance plan, profile, and dimension after the intake and pipe have been installed. In addition, proper construction sequencing and implementation of an approved erosion and sediment control plan will ensure water quality impacts are minimized throughout the project area and the proposed activities are in compliance with Nationwide Permit General Conditions and Regional General Conditions.

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

Sincerely,

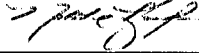
CESO, Inc.

Natalie Hooton  
Staff Biologist

DODDRIDGE COUNTY  
FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. Development shall not be used or occupied until a Certificate of Compliance is issued.
5. The permit will expire if no work is commenced within six months of issuance.
6. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
7. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
8. I THE APPLICANT CERTIFY THAT ALL STATEMENTS HEREIN AND IN ATTACHMENTS TO THIS APPLICATION ARE, TO THE BEST OF MY KNOWLEDGE, TRUE AND ACCURATE.

APPLICANT'S SIGNATURE  for CESO, Inc.

DATE 10/16/2014

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

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

APPLICANT'S NAME: CONSOL Energy  
ADDRESS: c/o Adam White, One Energy Drive PO Box 1248 Jane Lew, WV 26378  
TELEPHONE NUMBER: 724.627.1300 / 304-854.2000

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

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

PROJECT LOCATION:

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

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

DISTRICT: Please see Attachment A.

LAND BOOK DESCRIPTION: Please see Attachment A.

DEED BOOK REFERENCE: Please see Attachment A.

TAX MAP REFERENCE: Please see Attachment A.

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

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

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

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

CONSOL Energy, is proposing to construct a new 0.56-mile waterline within a portion of Doddridge County, West Virginia. The proposed project will begin at a tie-in to the proposed Sherwood South pipeline at 39.274775 N Latitude, 80.697603 W Longitude (NAD83) which lies northeast of Blandville, West Virginia. The proposed waterline traverses in a general northeast direction for approximately 0.34 miles before turning to the northwest, traversing approximately 0.22 miles before reaching its terminus at an intake point within Buffalo Creek at 39.280096 N Latitude, 80.694657 W Longitude (NAD83).

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

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

B. OTHER DEVELOPMENT ACTIVITIES:

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

C. STANDARD SITE PLAN OR SKETCH

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

2. IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED:

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



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

ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT/ PROPOSED CONSTRUCTION PROJECT WITHIN THE FLOODPLAIN \$ 9,970.00

Waterline Construction "Open Cut" - 24 LF \* 150 = \$3,800  
Pump Pad - 281 SY \* \$20 = \$5,620  
Super Silt Fence - 90 LF \* \$5 = \$450  
Total Floodplain Construction Cost = \$9,970

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

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

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

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

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

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

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

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

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

E. CONFIRMATION FORM

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

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

NAME (PRINT): Natalie Hooton for CESO, Inc

SIGNATURE: 

DATE: 10/16/2014

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

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

THE PROPOSED DEVELOPMENT:

THE PROPOSED DEVELOPMENT IS LOCATED ON:

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

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

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

Unavailable

The proposed development is located in a floodway.

See section 4 for additional instructions.

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

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

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

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

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

Also \_\_\_\_\_  
\_\_\_\_\_

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

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

Top of new fill elevation \_\_\_\_\_ Ft. NGVD.  
For floodproofing structures applicant must attach certification from registered engineer or architect.

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

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

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

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

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

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

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

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

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

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

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

**COMPLETE 1 OR 2 BELOW:**

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

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

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

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

INSPECTIONS:

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

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

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

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

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

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

PURPOSE –

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

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

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

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

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



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

TAX ID: 09-03-0019-0031-0001-0000

NAME OF SURFACE OWNER/OWNERS: Dennis & Mellie M. Powell

ADDRESS OF PROPERTY: Old Route 50, Salem, WV 26426

ADDRESS OF SURFACE OWNER/OWNERS: 304 Stuart Street, West Union, WV 26456

DISTRICT: Grant

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 200/ Page 532

TAX MAP REFERENCE: MAP 19/ Parcel 31

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

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

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

---

TAX ID: 09-03-0019-0031-0002-0000

NAME OF SURFACE OWNER/OWNERS: Dennis & Mellie M. Powell

ADDRESS OF PROPERTY: Old Route 50, Salem, WV 26426

ADDRESS OF SURFACE OWNER/OWNERS: 304 Stuart Street, West Union, WV 26456

DISTRICT: Grant

LAND BOOK DESCRIPTION:

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TAX MAP REFERENCE: MAP 19/ Parcel 31

EXISTING BUILDINGS/USES OF PROPERTY: Unknown

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

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



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

**TAX ID: 09-03-0019-0031-0000-0000**

**NAME OF SURFACE OWNER/OWNERS: Dennis & Mellie M. Powell**

**ADDRESS OF PROPERTY: Old Route 50, Salem, WV 26426**

**ADDRESS OF SURFACE OWNER/OWNERS: 304 Stuart Street, West Union, WV 26456**

**DISTRICT: Grant**

**LAND BOOK DESCRIPTION:**

**DEED BOOK REFERENCE: Book 200/ Page 532**

**TAX MAP REFERENCE: MAP 19/ Parcel 31**

**EXISTING BUILDINGS/USES OF PROPERTY: Unknown**

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

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





**Legend**  
 — Proposed Access Road  
 — Proposed Waterline

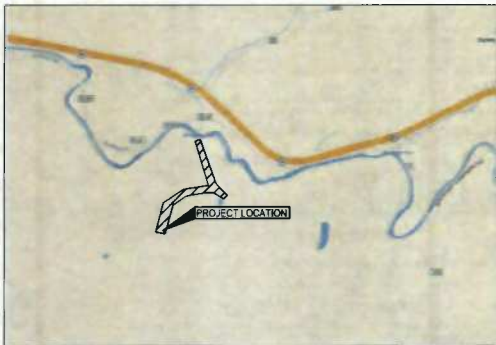
**Sherwood-Buckeye Creek Waterline**  
 Location Map (Smithburg, WV Quad)  
 Grant District, Doddridge County, West Virginia



Date: 10/07/2014  
 By: N. Hooton

Copyright © 2013 National Geographic Society





VICINITY MAP  
NOT TO SCALE

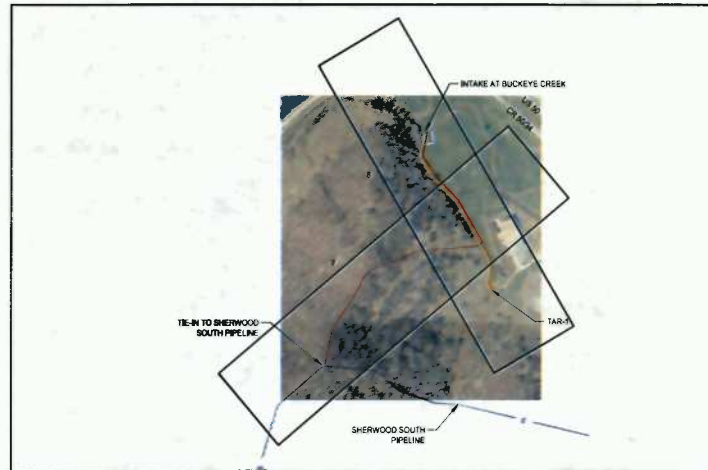
# SHERWOOD-BUCKEYE CREEK WATERLINE

## DODDRIDGE COUNTY, WEST VIRGINIA



APPROX. START POINT: STA 0+00  
(NAD 83) LAT: 38.274775 N / LONG: 80.697603 W  
(UTM (ZONE 17) NORTHING: 284453.92 / EASTING: 1829477.34)

APPROX. END POINT: STA 26+82  
(NAD 83) LAT: 38.280096 N / LONG: 80.694657 W  
(UTM (ZONE 17) NORTHING: 286380.85 / EASTING: 1830337.06)



PROJECT AREA MAP



DRAWING INDEX	
DESCRIPTION	SHEET NUMBER
COVER SHEET	1
SWPPP NOTES	2-3
SWPPP DETAILS	4-6
PIPELINE PLAN	7-8
ACCESS ROADS PLAN AND PROFILE	9
E&S CONTROL TABLES, EARTHWORK, AND QUANTITIES	10

**VERTICAL DATUM NOTE**  
VERTICAL CONTROL IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1985 (NAVD 85).

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

**NOTES:**

- THIS PLAN DOES NOT PURPORT TO BE A COMPREHENSIVE REPRESENTATION OF EXISTING UTILITIES IN THE PROJECT AREA. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY. BASED ON SURFACE FEATURES OBSERVED IN THE FIELD, CESO, INC. MAKES NO GUARANTEE TO THEIR ACCURACY AND/OR COMPLETENESS. FORTY-EIGHT (48) HOURS BEFORE DIGGING IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WVU11) AT 1-800-245-4844. THE CONTRACTOR SHALL ALSO NOTIFY ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THE PROJECT AREA AND ARE NONMEMBERS OF WVU11.
- QUANTITIES LISTED ARE BASED ON SLOPE LENGTH. CONTRACTOR SHALL VERIFY ALL QUANTITIES.

**UTILITY OWNERS**

- NOTES:**
- CONTRACTOR SHALL CALL THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WVU11) AT 1-800-245-4844 72 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.
  - UTILITIES SHOWN ARE TAKEN FROM THE SURVEY AND RECORDS OF RESPECTIVE UTILITY COMPANIES AND DO NOT NECESSARILY REPRESENT ALL UNDERGROUND UTILITIES ADJACENT TO OR UPON SITE SHOWN ON PLAN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREIN OR NOT AND TO PROTECT THEM FROM DAMAGE.

CONSOL ENERGY  
ONE ENERGY DRIVE  
JANE LEW, WV 26378  
ADAM WHITE  
248.506.7289  
ADAMWHITE@CONSOLENERGY.COM



APPROVED BY CONSOL:

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



SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
NO.	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	200 LF	12" HDPE WATERLINE (SLOPE LIMITED)					
2	11 EA	48" 40' Segments of Piling					

Engineering • Architecture • Survey • Construction Mgt • Environmental

SHERWOOD-BUCKEYE CREEK WATERLINE

COVER SHEET

STATION(S) N/A

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	09/30/14
JOB NO.:	750727
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	1 of 10

**CONTRACTOR NOTES**

1. THIS PLAN DOES NOT PURPORT TO BE A COMPREHENSIVE REPRESENTATION OF EXISTING UTILITIES IN THE PROJECT AREA. UTILITIES SHOWN ARE BEING PROVIDED FOR INFORMATIONAL PURPOSES ONLY, BASED ON SURFACE FEATURES OBSERVED IN THE FIELD. CESA, INC. MAKES NO GUARANTEE TO THEIR ACCURACY AND/OR COMPLETENESS. FORTY-EIGHT (48) HOURS BEFORE BEGINS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WV811 AT 1-800-245-8484). THE CONTRACTOR SHALL ALSO NOTIFY ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THE PROJECT AREA AND THE OWNERS OF THE UTILITIES.
2. ALL CONTRACTORS/SUBCONTRACTORS PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM THEIR OPERATIONS. SAID EXISTING IMPROVEMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO, BERM, DITCHES, FENCES AND PLANTS. ANY REMOVAL OR DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTORS TO EXISTING OR BETTER CONDITIONS, AT THEIR EXPENSE, AND SHALL BE APPROVED BY THE OWNER.
3. ALL CONSTRUCTION, TESTING AND MATERIALS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE PERTINENT CITY AND LOCAL, STATE AND FEDERAL REGULATIONS.
4. ALL NECESSARY TESTING SHALL BE PERFORMED BY AN APPROVED LABORATORY AT THE EXPENSE OF THE CONTRACTOR.
5. PRIOR TO CONSTRUCTION, ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS AND ALL OTHER NECESSARY DETAILS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL STANDARDS OR SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
6. THE CONTRACTOR SHALL HAVE IN THEIR POSSESSION, PRIOR TO CONSTRUCTION, ALL NECESSARY PERMITS, LICENSES, BONDS, INSURANCE, ETC. CONTRACTORS SHALL EACH HAVE AT LEAST ONE SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS ON-SITE AT ALL TIMES.
7. IN THE EVENT THAT AN ITEM IS NOT SPECIFICALLY COVERED IN THE PERTINENT AGENCIES CONSTRUCTION STANDARDS AND SPECIFICATIONS AND DETAILS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND PROJECT ENGINEER. THE OWNER SHALL HAVE THE FINAL DECISION ON ALL CONSTRUCTION MATERIALS, METHODS AND PROCEDURES.
8. THE CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA AS SHOWN ON THE PLANS. NO ENCROACHMENTS OUTSIDE OF THE SPECIFIED AREAS SHALL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR.
9. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES OR LINE LOCATION SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL ASSUME FULL LIABILITY TO THOSE COMPANIES FOR ANY DAMAGES CAUSED TO THEIR FACILITIES.
10. TRENCH BEDDING SHALL BE AS PER WYDOH CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST EDITION.
11. TOP OF NATURAL GAS PIPELINE SHALL BE A MINIMUM OF 3'-0" BELOW THE FINISHED GROUND ELEVATION IN ALL VEGETATED AREAS, EXCEPT IN AGRICULTURAL FIELDS, WHICH THE DEPTH SHALL BE 4'-0". MINIMUM BURIAL UNDER ROADWAYS AND OTHER PAVED AREAS SHALL BE PER THE PERTINENT AUTHORITIES SPECIFICATIONS AND THE ASSOCIATED PERMIT DRAWINGS.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH STANDARD TRENCH SAFETY GUIDELINES AND THE U.S. DEPARTMENT OF LABOR AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS.
13. THESE PLANS DO NOT CONSTITUTE A BOUNDARY SURVEY. BOUNDARY LINES AS SHOWN HEREON ARE BASED ON TAX MAPS AS PROVIDED BY OWNER.
14. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE PROJECT MANAGER FOR ANY DEVIATION FOUND RELATIVE TO THE PROJECT.
15. EXISTING EASEMENTS AND/OR RIGHT-OF-WAYS WERE NOT RESEARCHED AND SURVEYED DURING THIS PROJECT. OTHER THAN THOSE SHOWN WITH THE PLANS.
16. FENCE LINES ENCOUNTERED DURING CONSTRUCTION SHOULD BE RELOCATED AND REPLACED PER LANDOWNER AND OWNERS REPRESENTATIVE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE GOVERNING AUTHORITIES PRIOR TO ALL ROAD CROSSINGS, MAINTENANCE OF TRAFFIC IS TO BE IMPLEMENTED AS NECESSARY TO ENSURE THAT THE ROAD HAS CONTINUAL ACCESS. MAINTENANCE OF TRAFFIC SHALL BE PER THE LATEST EDITION OF THE WYDOH TEMPORARY TRAFFIC CONTROL FOR STREETS AND HIGHWAYS MANUAL.

**GENERAL CONSTRUCTION SEQUENCE**

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

**WETLAND CROSSING SEQUENCE OF CONSTRUCTION**

1. INSTALL TEMPORARY EROSION AND SEDIMENT CONTROL PRIOR TO EARTH DISTURBANCE.
2. SEDIMENT BARRIERS SHALL BE INSTALLED AT THE EDGE OF THE RIGHT-OF-WAY AND AROUND TOPSOIL AND SUBSOIL PILES.
3. GEOTEXTILE SHALL BE PLACED UNDER SUBSOIL AND TOPSOIL PILES.
4. WORKING SIDE OF TRENCH WILL BE STABILIZED WITH PRE-FABRICATED MATS, AS NEEDED, TO PROVIDE A FIRM SURFACE FOR CONSTRUCTION EQUIPMENT. FOR HEAVY SATURATED AREAS, GEOTEXTILE SHALL BE PLACED UNDER THE MATS TO PREVENT MOVEMENT OR PUMPING OF THE SOIL THROUGH THE MATS.
5. IN WETLAND AREAS WITHOUT STANDING WATER OR SATURATED SOILS, TOPSOIL (TOP 12 INCHES) AND SUBSOIL SHALL BE SEGREGATED AND STOCKPILED DURING TRENCHING.
6. UPON COMPLETION OF PIPE INSTALLATION, TRENCH PLUGS SHALL BE INSTALLED AS REQUIRED TO MAINTAIN ORIGINAL WETLAND HYDROLOGY.
7. THE SEGREGATED TOPSOIL SHALL BE RESTORED TO ITS ORIGINAL CONDITION DURING BACKFILLING. THE ORIGINAL TOPSOIL SHALL BE KEPT IN A CONDITION THAT WILL ALLOW IT TO MAINTAIN SUFFICIENT SEED AND ROOT MATERIAL AND TO PROVIDE VEGETATIVE COVER.
8. ALL SEEDING SHOULD COMPLY WITH EITHER OPTION "A" OR OPTION "B" SEED MIXES LISTED UNDER THE SPECIAL NOTES SECTION FOR STREAM/WETLAND CROSSINGS CONTAINED IN THESE DRAWINGS. SEEDING ONLY, WITH NO FERTILIZING, SHALL BE DONE IN CRITICAL AREAS (a. WITHIN 50' OF AN HD OR ETV STREAM CHANNEL OR WITHIN WETLANDS), DO NOT APPLY MULCH WITHIN WETLANDS.

**OPEN CUT STREAM CROSSING (TEMPORARY) CONSTRUCTION SEQUENCE - PIPE INSTALLATION**

1. ALL IN-STREAM DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHOULD BE COMPLETED IN COMPLIANCE WITH WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, BEFORE ANY FOLLOWING STAGES IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.
2. ALL WORK SHALL BE PERFORMED IN LOW FLOW CONDITIONS AND EACH CROSSING SHALL BE COMPLETED WITHIN 72 HOURS OF START OF WORK.
3. POINTS OF INGRESS AND EGRESS TO STREAMS FOR EQUIPMENT SHALL BE WITHIN THE WORK SITE ONLY.
4. SURFACE DISTURBANCE WILL NOT EXTEND BEYOND THE RIGHT-OF-WAY LIMITS. STREAM CROSSINGS WILL BE CONDUCTED AS CLOSE TO A RIGHT ANGLE TO THE WATERCOURSE AS PRACTICAL AND THE AREA OF DISTURBANCE WILL BE LIMITED TO REDUCE IN STREAM ACTIVITY.
5. INSTALL TEMPORARY COFFER DAM AT UPSTREAM EDGE OF PROPOSED WORK AREA. DEWATER THE COFFERDAM AS NECESSARY.
6. OPEN CUT CHANNEL TO A WIDTH AND DEPTH THAT IS NO MORE THAN WHAT IS NECESSARY FOR INSTALLATION OF PIPE. DURING EXCAVATION, SEPARATE THE INITIAL ONE FOOT OF STREAM SUBSTRATE FROM THE SUBSURFACE MATERIAL INTO TWO SEPARATE PILES.
7. INSTALL PIPE AS SHOWN ON PLANS.
8. BACKFILL TRENCH BY FIRST ADDING SUBSURFACE MATERIAL, THEN THE STREAM SUBSTRATE MATERIAL, ENSURING THAT ORIGINAL GRADE, DIMENSIONS, AND CONTOURS OF THE CHANNEL ARE RE-ESTABLISHED.
9. REMOVE COFFERDAM AND STABILIZE ANY REMAINING DISTURBED AREAS.

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

1. ALL IN-STREAM DISTURBANCE ACTIVITY SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH WVDEP, THE WEST VIRGINIA OFFICE OF LAND AND STRIPLAND (WVOLS), THE WYOMR, AND THE U.S. ARMY CORPS OF ENGINEERS (USACE) RULES AND REGULATIONS.
2. STREAM CROSSING SHALL MEET THE REQUIREMENTS OF THE WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL CHAPTER 3.21.
3. SEE DAUVERT STREAM CROSSING FROM THE WVDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL.
4. ALL WORK SHALL BE PERFORMED IN LOW FLOW CONDITIONS AND EACH CROSSING SHALL BE COMPLETED WITHIN 72 HOURS OF START OF WORK.
5. POINTS OF INGRESS AND EGRESS TO STREAMS FOR EQUIPMENT SHALL BE WITHIN THE WORK SITE ONLY.
6. SURFACE DISTURBANCE WILL NOT EXTEND BEYOND THE RIGHT-OF-WAY LIMITS. STREAM CROSSINGS WILL BE CONDUCTED AS CLOSE TO A RIGHT ANGLE TO THE WATERCOURSE AS PRACTICAL AND THE AREA OF DISTURBANCE WILL BE LIMITED TO REDUCE IN STREAM ACTIVITY.
7. INSTALL TEMPORARY COFFER DAM AT UPSTREAM EDGE OF PROPOSED WORK AREA. DEWATER THE COFFERDAM AS NECESSARY.
8. INSTALL ACCESS ROAD TEMPORARY CROSSING AS SHOWN ON PLANS.
9. REMOVE COFFERDAM AND STABILIZE ANY REMAINING DISTURBED AREAS.

**UTILITY LINE INSTALLATION REQUIREMENTS**

1. THE CONTRACTOR SHALL LIMIT TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT AND BACKFILL THAT CAN BE INSTALLED IN ONE DAY.
2. THE CONTRACTOR SHALL GRADE TO FINAL CONTOURS, INSTALL REQUIRED EROSION CONTROL MEASURES, AND SEED AND MULCH ALL DISTURBED AREAS AT THE END OF EACH WEEK.
3. DEWATER ALL TRENCHES PRIOR TO PIPE INSTALLATION AND BACKFILLING. ALL WATER TO BE PUMPED INTO A SEDIMENT FILTER BAG.
4. ALL TRENCH EXCAVATION MATERIAL TO BE PLACED ON DOWNHILL SIDE OF TRENCH.
5. IN THE EVENT THAT THESE REQUIREMENTS CAN'T BE MET DUE TO FIELD CONDITION, THE CONTRACTOR SHALL COORDINATE ALTERNATE REQUIREMENTS WITH OWNERS REPRESENTATIVE.

**UTILITY RIGHT-OF-WAY RESTRICTIONS**

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

IFC

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

09/30/14  
DATE

**ceso**  
CREATION TO COMPLETION  
www.cesoinc.com  
*Engineering • Architecture • Survey • Construction Mgt • Environmental*

SHERWOOD-BUCKEYE CREEK WATERLINE

SWPPP NOTES

STATION(S) N/A

**CONSOL ENERGY**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 09/30/14  
JOB NO.: 750727  
DESIGN: BEM  
DRAWN: BEW  
CHECKED: BJM  
SHEET NO.

**EROSION AND SEDIMENT CONTROL NARRATIVE:**

**PLAN DESIGNER:**  
CESO, INC.  
2800 CORPORATE EXCHANGE DRIVE, SUITE 100  
COLUMBUS, OH 43221

**OWNER:**  
ONE ENERGY LLC  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

**CONTACT:** BENJAMIN J. MILLER, PE  
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HW DEP PERMIT #: 30000000

**PROJECT DESCRIPTION:** THIS PROJECT CONSISTS OF CONSTRUCTING A 12" WATER LINE IN DOODRIDGE COUNTY, WEST VIRGINIA. 4.09 ACRES TOTAL PROJECT AREA. 315 CY CUT / 315 CY FILL (0 CY SPOL - BALANCED)

**EXISTING SITE CONDITIONS:** THE TOPOGRAPHY OF THIS SITE CONSISTS OF A LARGE HILL AND A FLAT OPEN VALLEY. THIS SITE CONSISTS PREDOMINATELY OF WOODS AND OPEN FIELDS. THIS SITE DRAINS TO BUCKEYE CREEK.

**ADJACENT AREAS:** ADJACENT AREAS THAT MAY BE AFFECTED BY SITE DISTURBANCE INCLUDE TAR-1.

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

**SOILS:** PIPELINE: STREAM A2/D (BUCKEYE CREEK)

REQUIREMENTS FOR WORKING IN OR NEAR CRITICAL AREAS CAN BE FOUND ON SHEETS 2-4.

Soil name	Soil Mapping Unit	Erodibility (K Factor, Whole Soil)	Settleability (Unavail/able)	Permeability	Depth (cm)	Texture	Soil Structure (Unavail/able)
CHAGRIN SILT LOAM	Ch	0.37	-	Well drained	>200	Silt loam	-
GULPIN PEBBLY COMPLEX, 35 TO 35 PERCENT SLOPES, VERY STONY	Gc	0.37	-	Well drained	86	Silt loam	-
GULPIN PEBBLY COMPLEX, 35 TO 70 PERCENT SLOPES, VERY STONY	Gp	0.37	-	Well drained	86	Silt loam	-
SUNSAUGH SILT LOAM, 3 TO 8 PERCENT SLOPES, BARELY FLOODED	SeB	0.37	-	Well drained	>200	Silt loam	-
VARONA SILT LOAM, 15 TO 35 PERCENT SLOPES, VERY STONY	VsE	0.49	-	Well drained	>200	Silt loam	-

\*Data obtained from NRCS-USDA Web Soil Survey

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

**CONSTRUCTION STORMWATER POLLUTANT CONTROL:** THE SEDIMENT CONTROL PLAN SHOWS ALL CLEARING LIMITS AND PROPOSED SEDIMENT CONTROLS. THE GENERAL NOTES ADDRESS THE STABILIZATION OF SOILS, SLOPE PROTECTION, CONTROL OF OTHER POLLUTANTS, DEWATERING CONTROL, MAINTENANCE OF BARRIERS, MANAGEMENT OF THE PROJECT, AND STABILIZATION TYPES OF BMPs USED ON THIS PROJECT INCLUDE WATER BARS, TRENCH PLUGS, AND SUPER SILT FENCE. REFER TO SHEETS 7-8 FOR LOCATIONS.

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

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

**EROSION & SEDIMENT CONTROL PLAN NOTES**

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

**EROSION & SEDIMENT CONTROL MAINTENANCE NOTES**

- ALL CONTROL MEASURES STATED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE SITE IS ACHIEVED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED BY A QUALIFIED PERSON IN ACCORDANCE TO THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT. WHOEVER IS MORE STRINGENT, AND REPAIRED ACCORDING TO THE FOLLOWING:
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STANDING OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEED AS NEEDED.
  - SILT FENCES AND CHECK DAMS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION IF DAMAGED. SEDIMENT ACCUMULATION MUST BE REMOVED WHEN SEDIMENT HEIGHT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE OR CHECK DAM.
  - SEDIMENTATION TRAPS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT MUST BE REMOVED FROM TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 40%.
  - MINIMIZE OFF-SITE SEDIMENT TRACKING OF VEHICLES BY THE USE OF STONE MATERIAL IN ALL CONSTRUCTION ENTRANCES, ALONG WITH REGULARLY SCHEDULED BYEELP GOOD HOUSEKEEPING, STABILIZED CONSTRUCTION ENTRANCES TO BE PROPERLY MAINTAINED BY GENERAL CONTRACTOR AND IN GOOD WORKING ORDER AT ALL TIMES. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE STONE AS CONDITIONS DEMAND.
  - THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE) BY GENERAL CONTRACTOR. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
  - CONTRACTORS AND SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING ALL SEDIMENT FROM THE SITE, INCLUDING SEDIMENT TRAPS AND STORM SEWER PIPES. SEDIMENT DEPOSITION DURING SITE STABILIZATION MUST ALSO BE REMOVED.
  - ALL ROCK CHANNEL PROTECTION MUST BE PLACED OVER GEOTEXTILE FILTER.
  - ROCK CHECK DAMS SHOULD BE ROUTINELY CLEANED ONCE SEDIMENT BEGINS TO APPEAR ON THE UPSTREAM SIDE OF THE ROCK.
  - CONTAINERS SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERMIT MATERIAL.
  - AREA SHALL BE DESIGNATED BY CONTRACTOR AND SHOWN ON SWPPP MAP FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME, ASPHALT, OR CONCRETE. THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA.
  - EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.
  - A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 800 GALLONS OR MORE, TOTAL ABOVE-GROUND STORAGE OF 1,300 GALLONS OR BELOW-GROUND STORAGE OF 1,200 GALLONS OF FUEL.
  - ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN AN APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES.
  - THE CONTRACTOR SHALL CONTACT THE WVDPS, THE LOCAL PSE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE IN THE EVENT OF A PETROLEUM SPILL (25 GALLONS OR THE PRESENCE OF SHEEN).

**EROSION & SEDIMENT CONTROL MAINTENANCE NOTES**

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

**TEMPORARY SEEDING CHART**

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

**PERMANENT SEEDING CHART**

Seed Mix	Common Name	Scientific Name	PLS Lbs/Acre
O	Perennial Ryegrass	Lolium perenne	15
	Endicott Trefol	Lolium comiculatus	10
	Redtop	Agrostis alba	5
P	Serotina Lespedeza	Lespedeza cornuta	40
	Ordnarygrass	Dicelys glanerosa	30
	Redtop	Agrostis alba	5

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

1. PRIOR TO SEEDING, INSTALL NECESSARY EROSION CONTROL PRACTICES SUCH AS Dikes, WATERWAYS, AND BASINS.

2. SEED SHALL BE EVENLY APPLIED WITH A BROADCAST SEEDER, DRILL, CUL TYPACKER SEEDER, OR HYDROSEEDER. SMALL GRASS SHALL BE PLANTED NO MORE THAN 1.5 INCHES DEEP. SMALL SEEDS, SUCH AS ANNUAL RYE, SHALL BE PLANTED NO MORE THAN A QUARTER INCH DEEP. OTHER GRASSES AND LEGUMES SHALL BE PLANTED NO MORE THAN A HALF INCH DEEP.

3. TEMPORARY SEEDING CONDUCTED IN FALL FOR WINTER COVER AND DURING HOT AND DRY SUMMER MONTHS SHALL BE MULCHED WITH STRAW AND HAY ACCORDING TO THE STANDARD FOR MULCHING, HYDROMULCHES (FIBER MULCH) MAY NOT PROVIDE ADEQUATE TEMPERATURE AND MOISTURE CONTROL.

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



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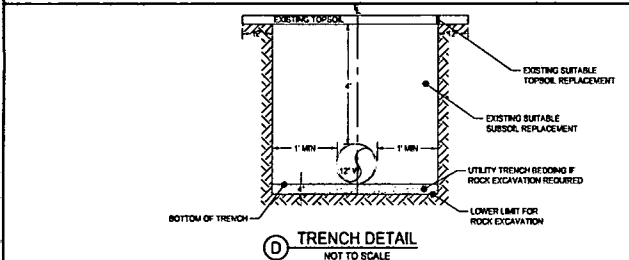
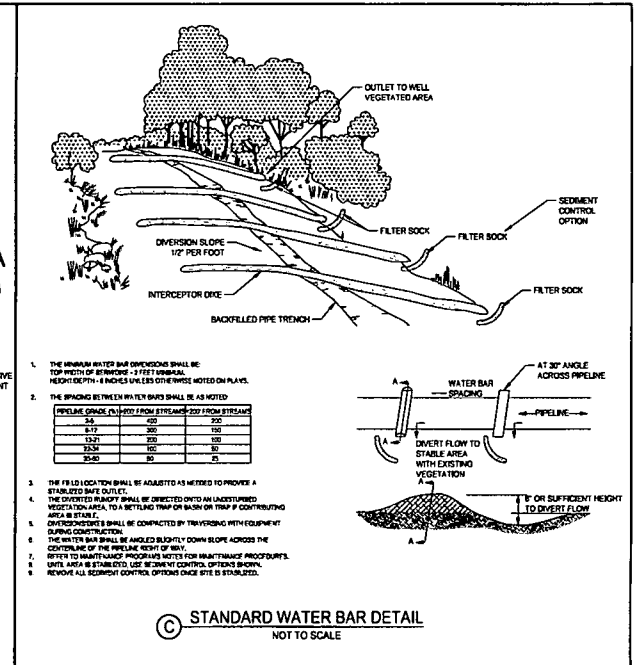
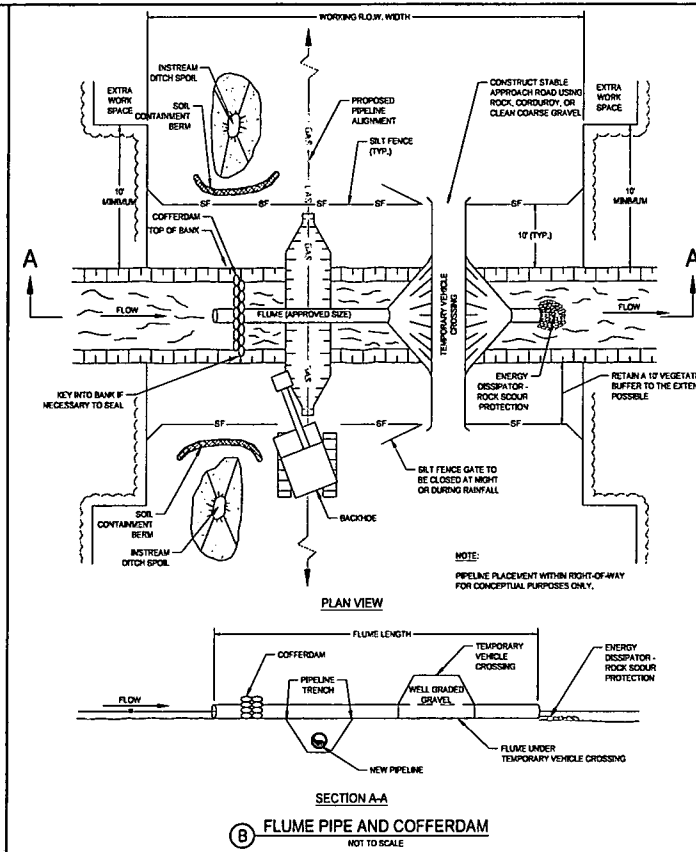
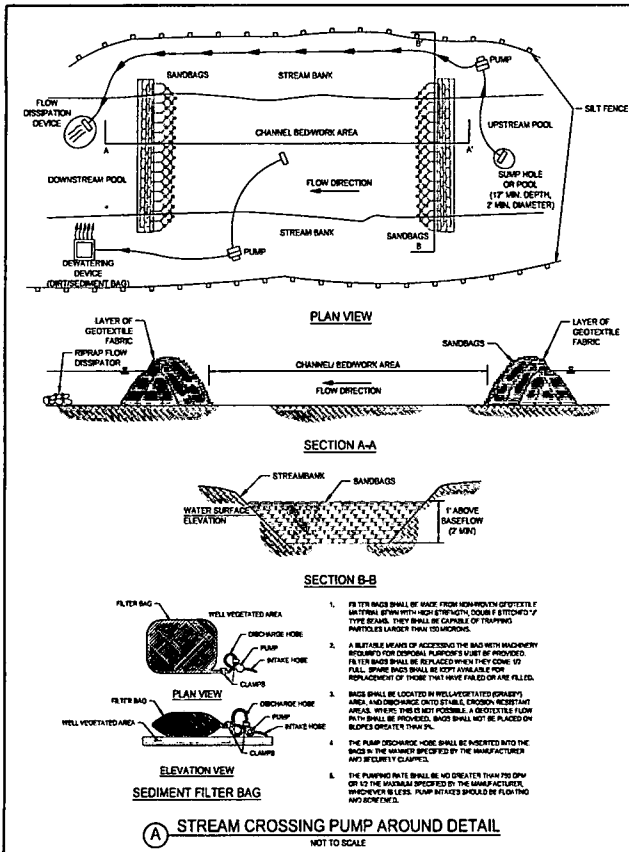
SHERWOOD-BUCKEYE CREEK WATERLINE

SWPPP NOTES



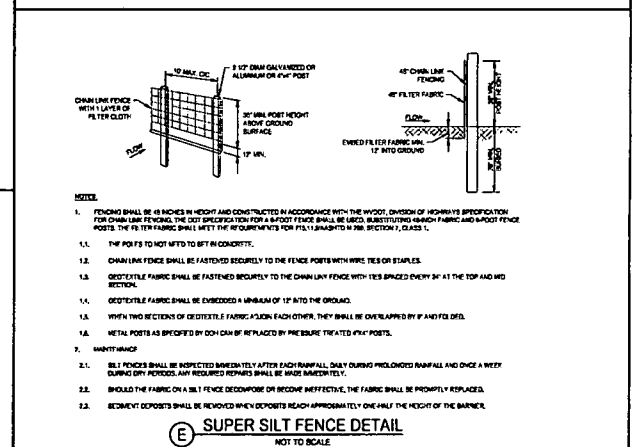
ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE:	09/30/14
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**NOTES:**

1. WHEN TRENCH EXCAVATION TAKES PLACE IN AN AGRICULTURAL, WETLAND, OR RESIDENTIAL AREA, THEN SEGREGATION OF TOPSOIL AND SUBSOIL WILL BE PERFORMED. PLACE TRENCH PLUGS AT THE REQUIRED SPACING DURING UTILITY INSTALLATION. FOLLOW STREAM AND WETLAND CROSSING DETAILS LOCATED ON THE CROSSING AND SEDIMENT CONTROL DRAWINGS FOR UTILITY CROSSINGS OF THESE FEATURES. SEE STREAM CROSSING PROCEDURES AND WETLAND CROSSING PROCEDURES FOR ADDITIONAL INFORMATION ON WATER BODY AND WETLAND CROSSING. DURING CONSTRUCTION, INSTALL AND MAINTAIN ANY ADDITIONAL EROSION AND SEDIMENT CONTROL BMPs AND IMPLEMENT STRUCTURAL POST CONSTRUCTION STORAGE WATER BMPs (PERMANENT WATERBARS) THAT MAY BE REQUIRED. SEE UTILITY LINE INSTALLATION REQUIREMENTS NOTES FOR LIMITS OF WORK.
2. ANY WATER ENCOUNTERED WITHIN THE EXCAVATION AREAS DURING CONSTRUCTION SHALL BE REMOVED BY USING PUMPS, HOSES, AND PUMPED WATER FILTER BAGS WHICH SHALL BE DISCHARGED INTO UNDISTURBED WELL-VEGETATED UPLAND AREAS.
3. BACKFILL AREAS EXCAVATED FOR THE INSTALLATION OF UTILITIES WITH SUITABLE EXCAVATED MATERIAL IN AREAS WHERE TOPSOIL HAS BEEN SEGREGATED, THE SUBSOIL SHALL BE REPLACED FIRST, FOLLOWED BY THE TOPSOIL, BEHIND SPREAD OVER THE AREA FROM WHICH IT WAS REMOVED. FINAL GRADES SHALL BE THE SAME AS PRE-CONSTRUCTION CONTOURS.
4. AFTER CONSTRUCTION IS COMPLETE, FINAL SEEDING AND MULCHING OF ALL DISTURBED AREAS NOT YET STABILIZED SHALL BE COMPLETED. INSTALL EROSION CONTROL, BANKSETING ON SLOPES WHICH ARE 3:1 OR STEEPER, STABILIZE AND SEED ALL OPEN AREAS INCLUDING BORROW AND SPILL AREAS.



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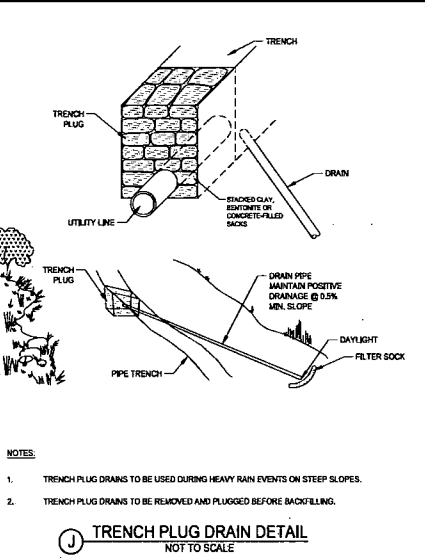
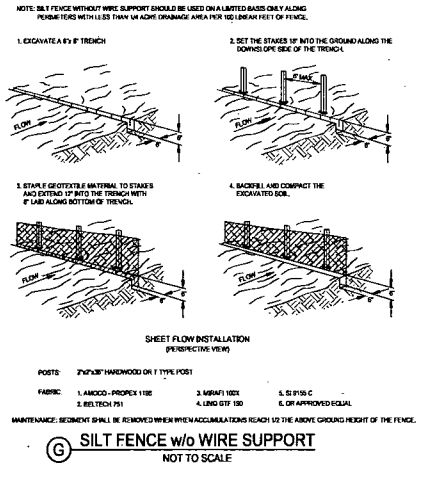
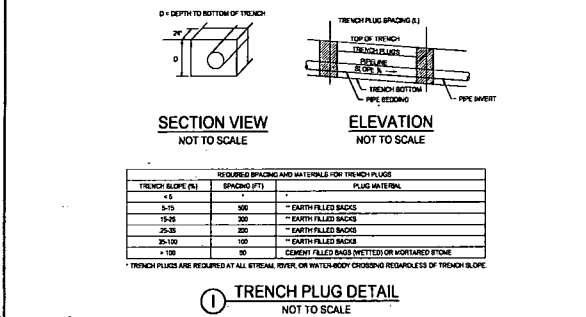
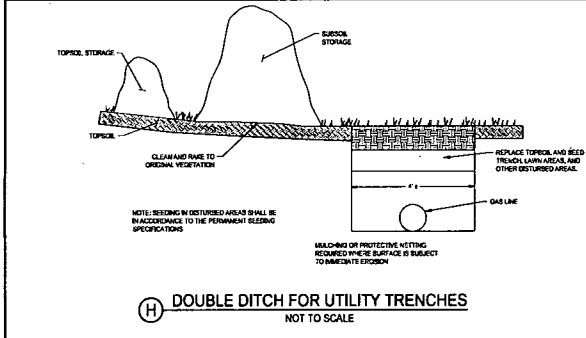
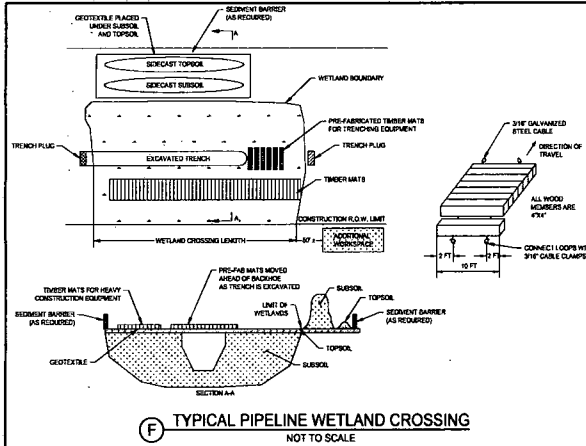
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SWPPP DETAILS  
STATION(S) N/A

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ONE ENERGY DRIVE  
JANE LEW, WV 26786

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OPTION A  
"Wooded Wetland Establishment Seed Mix" (available from J.F. New or Elm)

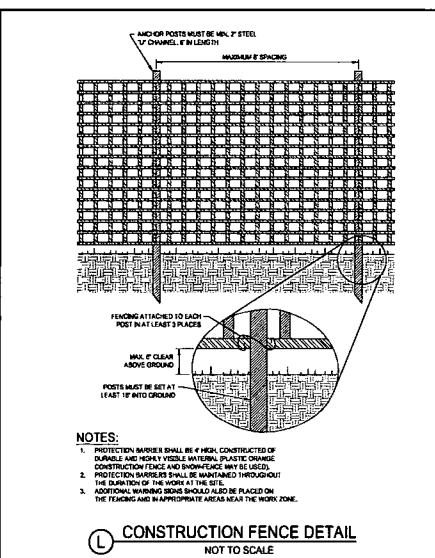
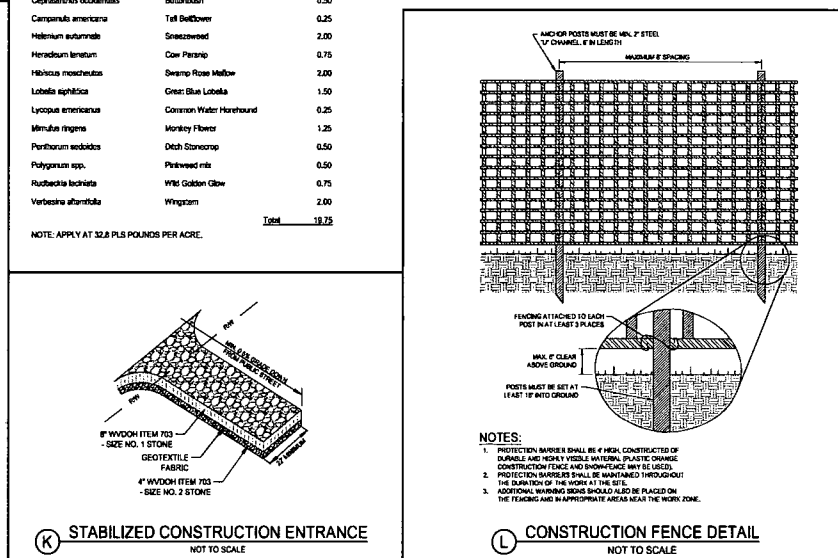
Scientific Name	Common Name	PLS	Quantity/Acre
<b>Permanent Grasses/Seeds:</b>			
<i>Perennial Grasses/Seeds:</i>			
<i>Colymbopoda canadensis</i>	Bluejays Grass	1.00	
<i>Carex crinita</i>	Fringed Sedge	2.00	
<i>Carex lasiocoma</i>	Common Hop Sedge	4.00	
<i>Carex lewisii</i>	Buttonbush Sedge	1.50	
<i>Carex frankii</i>	Bristly Cattail Sedge	3.00	
<i>Carex squarrosa</i>	Narrow-Leaved Cattail Sedge	1.00	
<i>Carex lythoides</i>	Common Cattail Sedge	1.00	
<i>Carex vulpinoidea</i>	Brown Fox Sedge	4.00	
<i>Elymus virginicus</i>	Virginia Wild Rye	20.00	
<i>Glyceris striata</i>	Fowl Manna Grass	2.00	
<i>Lernaea oxyzygoides</i>	Rice Cut Grass	2.00	
<i>Scirpus atrovirens</i>	Dark Green Rush	2.00	
<i>Spermathe pectinata</i>	Prairie Cord Grass	1.00	
<b>TOTAL</b>		<b>41.50</b>	
<b>Temporary Cover:</b>			
<i>Avena sativa</i>	Common oat	300.00	
<i>Lolium multiflorum</i>	Annual Rye	100.00	
<b>TOTAL</b>		<b>400.00</b>	
<b>Temporary Cover:</b>			
<i>Alnus spp.</i>	Water Flanula Mix	3.00	
<i>Angelica atropurpurea</i>	Great Angelica	1.00	
<i>Aster panicum</i>	Bristly Aster	0.75	
<i>Aster umbellatus</i>	Flat-Top Aster	0.25	
<i>Bidens cernua</i>	Nodding Bur Marigold	3.50	
<i>Cephalanthus occidentalis</i>	Butterbush	0.50	
<i>Composita americana</i>	Tall Bellflower	0.25	
<i>Helianthus autumnalis</i>	Swampweed	2.00	
<i>Heracodum lanatum</i>	Cow Parsnip	0.75	
<i>Hibiscus moscheutos</i>	Swamp Rose Mallow	2.00	
<i>Lobelia siphilitica</i>	Great Blue Lobelia	1.50	
<i>Lycopodium complanatum</i>	Common Water Henshroud	0.25	
<i>Mimulus ringens</i>	Monkey Flower	1.25	
<i>Penstemon sodidatus</i>	Death Stonecrop	0.50	
<i>Polygonum spp.</i>	Pineweed mix	0.50	
<i>Rudbeckia hirta</i>	Wild Golden Glow	0.75	
<i>Verbena alternifolia</i>	Wingsham	2.00	
<b>TOTAL</b>		<b>19.75</b>	

OPTION B  
Wetland Restoration Mix

Scientific Name	Common Name	PLS	Quantity/Acre
<i>Avena sativa</i>	Common oat	450.00	
<i>Secale cereale</i>	Cereal Rye	450.00	
<i>Panicum virginicum</i>	Switch Grass	32.00	
<i>Peristichia ciliatissima</i>	Deer-tongue Grass	32.00	
<i>Elymus riparius</i>	Riverbank Wild Rye	32.00	
<i>Poa palustris</i>	Marsh Bluegrass	32.00	
<i>Sorghastrum nutans</i>	Indian Grass	16.00	
<i>Glyceris striata</i>	Fowl Manna Grass	8.00	
<i>Carex crinita</i>	Fringed Sedge	8.00	
<i>Carex lasiocoma</i>	Buttonbush Sedge	8.00	
<i>Scirpus atrovirens</i>	Dark Green Rush	8.00	
<i>Polygonum pennsylvanicum</i>	Pineweed	8.00	
<i>Verbena hastata</i>	Blue Vervain	8.00	
<i>Verbena alternifolia</i>	Wingsham	8.00	
<i>Senna hebecarpa</i>	Wild Senna	8.00	
<b>TOTAL</b>		<b>1188.00</b>	

**STREAMWETLAND CROSSING NOTES**

- ALL TREES AND WOODY DEBRIS REMOVED FROM STREAM OR WETLAND CROSSINGS MUST BE DISPOSED OF OUTSIDE THE RIPARIAN OR WETLAND CROSSING AREAS.
- CONSTRUCTION TIMBER MATTING MUST BE USED WHEN EQUIPMENT IS CROSSING WETLANDS AND/OR SOFT GROUND.
- THE SEED MIX FOR STREAMWETLAND CROSSING AREAS (OPTIONS A OR B) SHALL BE USED.
- NO FERTILIZER OR LIME SHALL BE USED IN STREAMWETLAND CROSSING AREAS.
- NO GRUBBING IS ALLOWED AT TEMPORARY ACCESS CROSSINGS OF STREAMS OR WETLANDS.



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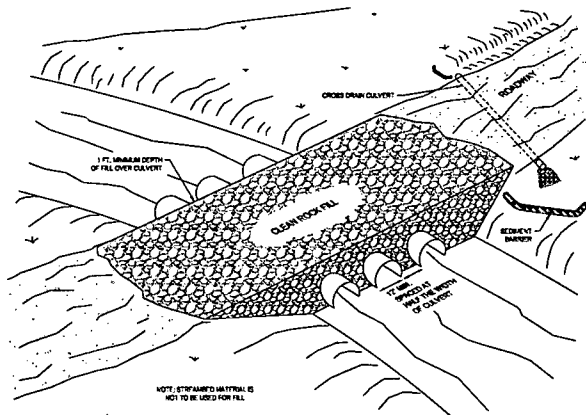
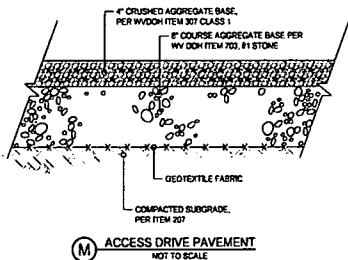
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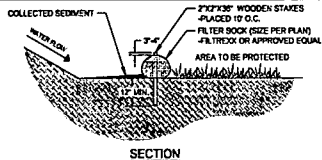
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**(O) DETAIL FIGURE II-9: STREAM CROSSING - TEMPORARY, WITH CULVERT**  
NOT TO SCALE

**NOTES**

1. THE STRUCTURE SHALL BE LARGE ENOUGH TO HANDLE A 1-YEAR FREQUENCY STORM, 24 HOUR DURATION.
2. DEPTH OF COVER OVER CULVERTS SHALL BE  $\frac{1}{2}$  THE DIAMETER OF THE CULVERTS USED OR 12 INCHES, WHICHEVER IS GREATER.
3. MULTI-CULVERTS SHOULD BE INSTALLED WITH SPACES BETWEEN THEM, EQUAL TO  $\frac{1}{2}$  THE PIPE DIAMETER.
4. LOW WATER CROSSINGS MAY BE USED, IF PROTECTED WHEN OVERFLOWING OCCURS. THIS CAN BE ACCOMPLISHED BY USING ROCK AND CONCRETE.
5. CROSS CROSSING OF THE DOWNSTREAM SIDE OF CULVERT INSTALLATIONS MAY BE NEEDED TO AID IN REDUCING STRUCTURAL DAMAGE DURING HIGH VELOCITY WATER OVERFLOW PERIODS.
6. IF CULVERTS OR BRIDGES ARE NOT USED AND A STONE BASE DOESN'T EXIST, STONE SHALL BE INSTALLED, WITH THE ENTRANCE AND EXIT BEING SLOPED FOR APPROXIMATELY 100 FEET.
7. DITCH LINE EXIT POINTS AT A STREAM CROSSINGS MUST HAVE SEDIMENT CONTROLS.



**MATERIALS:**

1. COMPOST LINED FOR FILTER SOCKS SHALL BE FREE OF NOZZES AND INSECT FREE. IF ANY REPAIRS, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH, THEY SHALL BE DERIVED FROM A WELL-COMPOSTED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES PASSING FROM 20# TO #2.
2. FILTER SOCKS SHALL BE 3/8" S.I.B. CONTINUOUS, HULL-LIKE, NON-WOVEN, NON-WETTING MATERIAL, FILLED WITH COMPOST FIBERS, THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

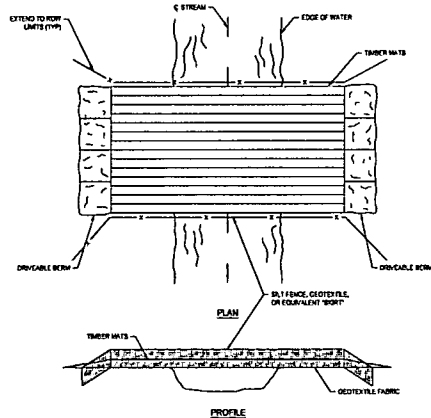
**INSTALLATION:**

1. FILTER SOCKS SHALL BE PLACED ON A LEVEL LINE ACROSS SLOPES.
2. FILTER SOCKS ATTACHED TO BE PERMANENT SHALL BE SETTED AT TIME OF INSTALLATION.
3. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATED FLOW SITUATIONS OR IN RUNOFF CHANNELS.

**MAINTENANCE:**

1. ROUTINELY INSPECT FILTER SOCKS AFTER A RAINY EVENT, MAINTAINING FUNCTIONALITY AT ALL TIMES.
2. REMOVE SEDIMENT COLLECTED AT THE BASE OF THE UPRAMP SIDE OF THE FILTER SOCK WHEN SEDIMENT ACCUMULATION HAS REACHED 1/3 OF THE EXPOSED HEIGHT OF THE SOCK.
3. WHERE THE FILTER SOCK IS DAMAGED, DETERIORATED, OR FAILS IT SHALL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
4. THE FILTER MEDIA WITHIN THE FILTER SOCK SHALL BE DISPENSED ON SITE ONCE THE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, OR WHEN NO LONGER REQUIRED IN SUCH A WAY AS TO FACILITATE AND NOT OBSTRUCT RESTORATION.

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



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

**NOTES**

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

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SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS		
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STATION(S):

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JANE LEW, WV 26378

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OWNER/PARCEL ID	1 POWELL DENNIS & MELLIE M 09-03-0019-0031-0000-0000	2 GORE GEORGE R 09-03-0019-0030-0000-0000	3 POWELL DENNIS & MELLIE M 09-03-0019-0031-0001-0000	4 POWELL DENNIS & MELLIE M 09-03-0019-0031-0000-0000	
ENVIRONMENTAL	WOODS			OPEN	OPEN

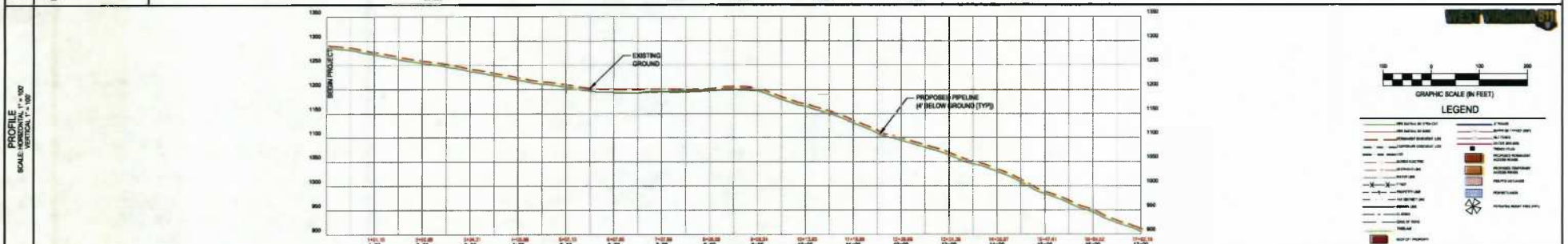
STATIONS & TRAVERSE ANGLES		27°00'00" RT	4°53'47" LT	4°53'47" RT	4°53'47" RT	4°53'47" RT	4°53'47" RT	4°53'47" RT	4°53'47" RT	4°53'47" RT	4°53'47" RT	4°53'47" RT	4°53'47" RT	4°53'47" RT	4°53'47" RT
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PIPELINE DATA SCALE 1" = 100'	<p>PIPELINE SCHEMATIC</p> <ul style="list-style-type: none"> <li>PIPE MATERIAL BY OPEN CUT</li> <li>PIPE MATERIAL BY SHIELD</li> <li>PROPOSED EXISTING</li> <li>PIPELINE MARKING DEVICE</li> <li>PIPELINE MARKER NUMBER</li> </ul>
----------------------------------	--



NOTE:  
CONTRACTOR SHALL NOTIFY EXISTING UTILITY OWNERS 48 HOURS PRIOR TO COMMENCEMENT OF EXCAVATION AT SAID EXISTING UTILITY CROSSINGS.



IFC	DATE: 09/30/14
DATE	

SUMMARY OF MATERIALS			REFERENCE DRAWINGS		REVISIONS	
MINOR #	QTY.	DESCRIPTION	NO.	DATE	DESCRIPTION	
1	150 LF	12" HDPE WATERLINE (DISP. LENGTH)				
2	3 EA.	Class. 40' Single-Sided Filing				

**ceso**  
CREATION TO COMPLETION  
www.cesoinc.com  
Engineering • Architecture • Survey • Construction Mgt • Environmental

SHERWOOD-BUCKEY CREEK WATERLINE  
**WATERLINE PLAN**  
STATION(S): 0+00 TO 17+00

**CONSOL ENERGY**  
ONE ENERGY DRIVE  
JANE LEW, WV 26378

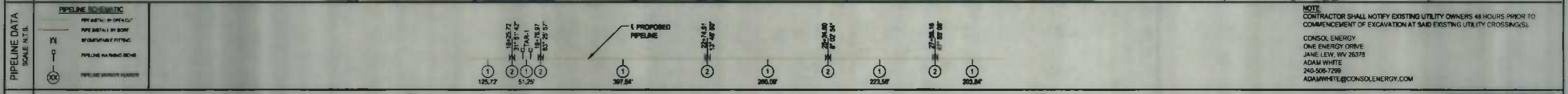
DATE:	09/30/14
JOB NO.:	750727
DESIGN:	BEM
DRAWN:	BEM
CHECKED:	BJM
SHEET NO.:	7 of 10

PROJECT: CONSOL ENERGY/750727-01 - SHERWOOD-BUCKEY CREEK WATERLINE/02.04/PLANNING/17-0000/020777-SHERWOOD-BUCKEY CREEK - 9/30/14 14.14

**GRANT DISTRICT, DODDRIDGE COUNTY, WEST VIRGINIA**

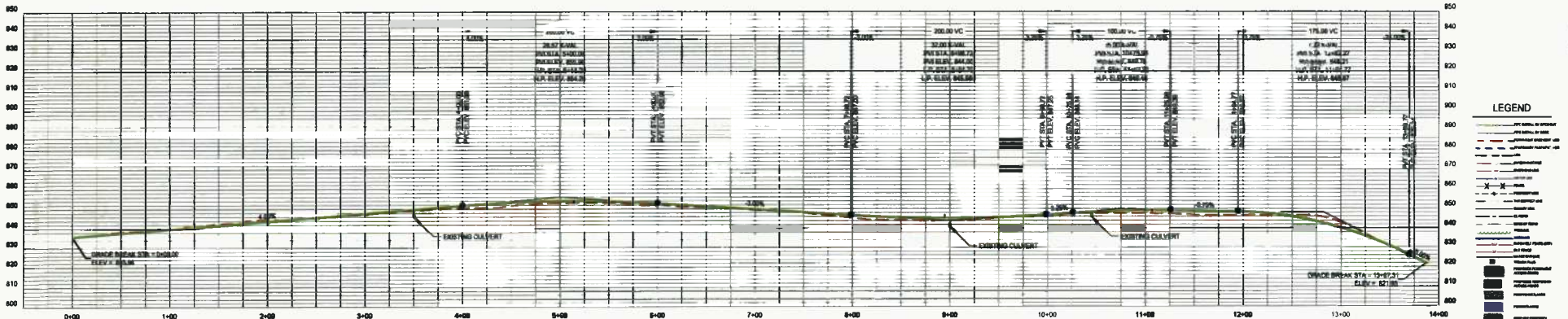
TOWNSHIP, COUNTY, STATE			
OWNER/PARCEL ID	1 POWELL DENNIS & MELLIE M 09-03-0019-0031-0000-0000	4 POWELL DENNIS & MELLIE M 09-03-0019-0031-0002-0000	3 POWELL DENNIS & MELLIE M 09-03-0019-0031-0001-0000
ENVIRONMENTAL	OPEN		

STATIONS & TRAVERSE ANGLES	MATCHLINE 17+00 31° 15' 00" LT 17+00 31° 15' 00" LT 17+00 31° 15' 00" LT	22+45.1 17° 40' 00" LT	28+00 17° 40' 00" LT	32+45.1 17° 40' 00" LT	37+00 17° 40' 00" LT	42+00 17° 40' 00" LT	END PROJECT 29+82
----------------------------	--	---------------------------	-------------------------	---------------------------	-------------------------	-------------------------	----------------------



<b>IFC</b>  09/30/14 DATE	<b>SUMMARY OF MATERIALS</b>	<b>REFERENCE DRAWINGS</b>	<b>REVISIONS</b>	 Engineering • Architecture • Survey • Construction Mgt • Environmental	<b>SHERWOOD-BUCKEYE CREEK WATERLINE</b>  <b>WATERLINE PLAN</b>	  ONE ENERGY DRIVE JANE LEW, WV 26378	DATE: 09/30/14 JOB NO.: 750727 DESIGN: BEM DRAWN: BEM CHECKED: BJM SHEET NO.: 8 of 10								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>ROW#</th> <th>QTY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1281 LF</td> <td>12" HDPE WATERLINE (SLOPE 1.00%)</td> </tr> <tr> <td>2</td> <td>2 BA</td> <td>24" dia. 40' Sagittate Filing</td> </tr> </tbody> </table>	ROW#	QTY	DESCRIPTION	1	1281 LF	12" HDPE WATERLINE (SLOPE 1.00%)	2	2 BA	24" dia. 40' Sagittate Filing					
ROW#	QTY	DESCRIPTION													
1	1281 LF	12" HDPE WATERLINE (SLOPE 1.00%)													
2	2 BA	24" dia. 40' Sagittate Filing													





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

**IFC**

09/30/14  
DATE

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



**SHERWOOD-BUCKEY CREEK WATERLINE**

ACCESS ROADS PLAN AND PROFILE

STATION(S): 0+00 TO 13+89

**CONSOL ENERGY**

ONE ENERGY DRIVE  
JANE LEW, WV 26378

DATE: 09/30/14  
JOB NO.: 750727  
DESIGN: BEM  
DRAWN: BEM  
CHECKED: BEM  
SHEET NO. 9 of 10

PROJECT: IFC0822 - 09/30/2014 - SHERWOOD-BUCKEY CREEK WATERLINE ACCESS ROADS PLAN AND PROFILE - 09/30/2014 - 11:11

**SHERWOOD-BUCKEYE  
TRENCH PLUG LOCATION  
CHART\***

PLUG #	STATION
1	3+00
2	6+00
3	11+00
4	12+00
5	14+00
6	15+00
7	16+00
8	17+00
9	18+00
10	18+78
11	23+75
12	26+55

EROSION AND SEDIMENT CONTROL BMP PRACTICES		
BMP	UNITS	QUANTITY
SUPER DIRT FENCE	LF	3139
STABILIZED CONSTRUCTION ENTRANCE	EA	1
TRENCH PLUG	EA	12
TEMPORARY WATERBARS	EA	13

TAR-1 EARTHWORK SUB-SUMMARY		
DESCRIPTION	QUANTITY	UNITS
<b>ACCESS DRIVE</b>		
RAW CUT (EXIST. TO FINISHED GRADE)	315	CY
RAW FILL (EXIST. TO FINISHED GRADE)	315	CY
TOTAL DRIVE EARTHWORK	0	CY

**EARTHWORK NOTES:**  
 1. ESTABLISHING THE GRADES SHOWN ON THIS PLAN WILL REQUIRE THAT A NET OF 0 CY BE SPOOLED.  
 CONTRACTOR SHALL CONFIRM QUANTITIES.

\*TRENCH PLUG DESIGN BASED ON THE TABLE PROVIDED ON THE TRENCH PLUG DETAIL ON SHEET 6. SOME TRENCH PLUGS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.

  09/30/14 DATE	<b>SUMMARY OF MATERIALS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MARK #</th> <th>QTY.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	MARK #	QTY.	DESCRIPTION																															<b>REFERENCE DRAWINGS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>DWG.</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	DWG.	DESCRIPTION																					<b>REVISIONS</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	DATE	DESCRIPTION																															 <b>ceso</b> CREATION TO COMPLETION <a href="http://www.cesoinc.com">www.cesoinc.com</a> <small>Engineering • Architecture • Survey • Construction Mgt • Environmental</small>	<b>SHERWOOD-BUCKEYE CREEK WATERLINE</b>  <b>E&amp;S TABLES, EARTHWORK, AND QUANTITIES</b>  STATION(S):                      N/A	  ONE ENERGY DRIVE JANE LEW, WV 26378	DATE: 09/30/14 JOB NO.: 750727 DESIGN: BEM DRAWN: BEM CHECKED: BJM SHEET NO. <b>10 of 10</b>
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I:\WORK\218CONSO\ERHDP\07101 - B&S\SHERWOOD-BUCKEYE WATERLINE\DESIGN\PLAN\9911.MXD DWG:07101 - SHERWOOD-BUCKEYE E&S TABLES.DWG - 9/30/14 11:13 AM



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

---

TAX ID: 09-03-0019-0031-0001-0000

NAME OF SURFACE OWNER/OWNERS: Dennis & Mellie M. Powell

ADDRESS OF PROPERTY: Old Route 50, Salem, WV 26426

ADDRESS OF SURFACE OWNER/OWNERS: 304 Stuart Street, West Union, WV 26456

---

TAX ID: 09-03-0019-0031-0002-0000

NAME OF SURFACE OWNER/OWNERS: Dennis & Mellie M. Powell

ADDRESS OF PROPERTY: Old Route 50, Salem, WV 26426

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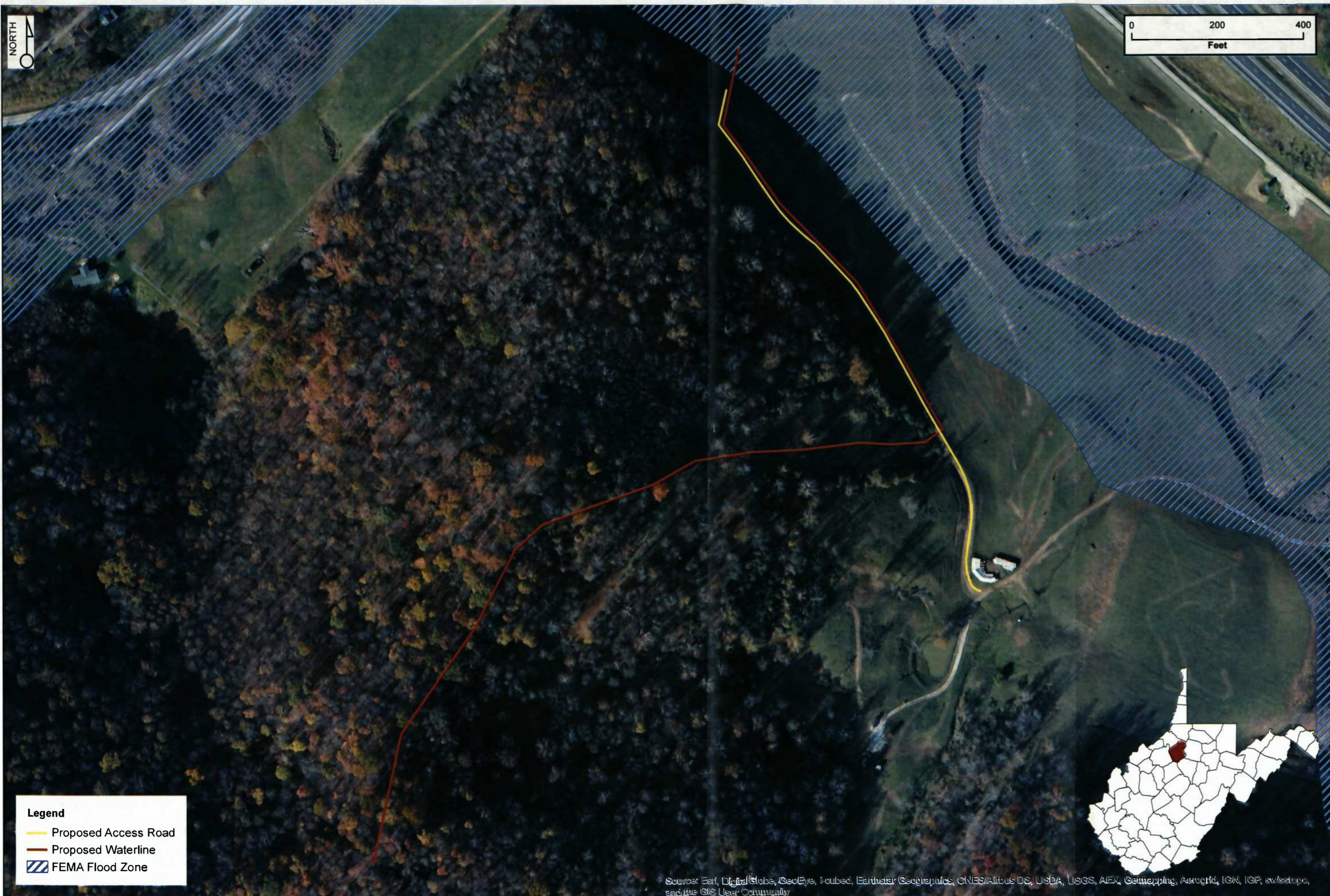
TAX ID: 09-03-0019-0030-0000-0000

NAME OF SURFACE OWNER/OWNERS: George R. Gore

ADDRESS OF PROPERTY: Old Route 50, Salem, WV 26426

ADDRESS OF SURFACE OWNER/OWNERS: Rt 2 Box 97A, West Union, WV 26456





NORTH

0 200 400  
Feet

- Legend**
- Proposed Access Road
  - Proposed Waterline
  - ▨ FEMA Flood Zone

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Geomatics, Aerogité, IGN, IGP, swisstopo, and the GIS User Community

# Sherwood-Buckeye Creek Waterline

Floodplain Map  
Doddridge County, West Virginia



Date: 10/07/2014  
By: N. Hooton





STATE OF WEST VIRGINIA,  
COUNTY OF DODDRIDGE, TO WIT

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

*Floodplain Permit*  
*# 14-308*  
*Sherwood to Buckeye*  
*Waterline*  
was published in said paper for ... *2* .....

successive weeks beginning with the issue  
of ... *November 11<sup>th</sup>* ... 2014 and  
ending with the issue of  
*November 18<sup>th</sup>* ... 2014 and

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

WORD SPACE at ... *115* ... cents a word  
amounts to the sum of \$ ... *21.74* .....

FOR FIRST PUBLICATION, SECOND  
PUBLICATION IS 75% OF THE FIRST  
PUBLICATION  
\$ ... *16.31* .....

and each publication thereafter  
\$ ... *38.05* ..... TOTAL

EDITOR  
*Virginia Nicholson* .....

SWORN TO AND SUBSCRIBED  
BEFORE ME THIS THE ... *18<sup>th</sup>* ... DAY  
OF ... *November* ... 2014

NOTARY PUBLIC  
*Laura J. Stickle* .....

LEGAL ADVERTISEMENT  
Doddridge County  
Floodplain Permit Application  
Please take notice that on the 21<sup>st</sup> day of October, 2014  
Consolidated Energy filed an application for a Floodplain  
Permit to develop land located at or about: Grant District  
39:274775N/80:697603W; to 39:280096N/80:694657W  
Permit #14-308, Sherwood to Buckeye Creek Waterline.  
The Application is on file with the Clerk of the County  
Court and may be inspected for copies during regular  
business hours. Any interested persons who desire to  
comment shall present the same in writing by November  
27, 2014.  
Delivered to the  
Clerk of the County Court  
118 E. Court Street, West Union, WV 26456  
Beth A. Rogers, Doddridge County Clerk  
Edwin L. "Bo" Wriston, Doddridge County Flood Plain  
Manager  
11-11-24b

