

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

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

Permit: #14-251 ~ CNX Gas Company, LLC ~ Orange-Blue Waterline

Issued to: CNX Gas Company, LLC

POC: Adam White 724.627.1300

Company Address: One Energy Drive

PO Box 1248

Jane Lew, WV 26378

Lat/Long: 39.187763N/-80.781538W to 39.174486N/-80.753491W

Purpose of development: Waterline construction.

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

Date: 10/16/2014

U.S. Postal Service M CERTIFIED MAIL M RECEIPT (Domestic Mail Only; No Insurance Coverage Provided) For delivery information visit our website at www.usps.come Postage Certified Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) #14-251 I.L. Ike Morris PO Box 397 Glenville, WW 26351 See Reverse for Instructions

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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: #14-251	B. Received by (Printed Name) G. Date of Delivery G. Date of Delivery G. Date of Delivery G. Is delivery address different from item 1? If YES, enter delivery address below:
I.L. Ike Morris PO Box 397 Glenville, WV 26351	3. Service Type ☐ Certified Mail* ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ Collect on Delivery
	4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number (Transfer from service label) 7013 2250	0001 6914 9107
PS Form 3811, July 2013 Domestic Ret	turn Receipt



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Date: 10/16/2014

Legal Advertisement:

Doddridge County

Floodplain Permit Application

Please take notice that on the 30th day of July, 2014

CNX Gas Company LLC

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

39.187763N / 80.781538W to 39.174486N / 80.753491W

Permit #14-251 Orange-Blue Waterline

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

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

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

CNX Gas Company LLC

P. O. Box 305

Canonsburg, PA 15317-0305

Phone: 724-485-4031

DODDRIDGE COUNTY COMMISSION

Vendor No. 824536 Check No. 2780029953

Invoice Number	Invoice Date	Invoice Amount	Discount Amount	Net Amoust
ORG/BLU WATERLIN	07/23/2014	3,882.50	0.00	3,882.50
		Check Total		\$ 3,882.50

Doddridge County, West Virginia

RECEIPT NO:	2694		DATE: 20	14/08/0	06	
FROM	I: CNX GAS COMPA	NY	AMOUNT: \$		3,882.50	
THREE THOUSAN	D EIGHT HUNDRED	EIGHTY TWO DO	LLARS AND 5	O CENTS	5	
FOR	: #14-251 CNX G	AS ORANGE BLUE	WATERLINE			
02780029953	FP-BUILDING PE	RMITS	020-3	318 T	TOTAL: \$3,882.	50
•	HEADLEY			MEC	2	
SHER	IFF &TREASURER			CLE	RK	
		Customer C	ору			
#14-2	51					
MICHAEL SHER	HEADLEY IFF &TREASURER	· · · · · · · · · · · · · · · · · · ·		MEC	<u> </u>	50

THIS CHECK IS TENDERED IN FULL SETTLEMENT OF YOUR INVOICES LISTED HEREON.

PLEASE DETACH REMITTANCE BEFORE CASHING.

INVOICE

West Virginia Division of Natural Resources

Wildlife Resources Section, P.O. Box 67, Elkins, WV 26241
Attention: Ms. Patty Fordyce

In Account With:

CESO, Inc.

Date: August 7, 2014

800 Bursca Drive, Suite 804 Bridgeville, PA 15017-1451

Attention:

Mr. Andrew Longenecker

For the retrieval and compilation of information on rare, threatened and endangered species and sensitive habitats for the proposed Orange to Blue Waterline project in Doddridge County, WV.

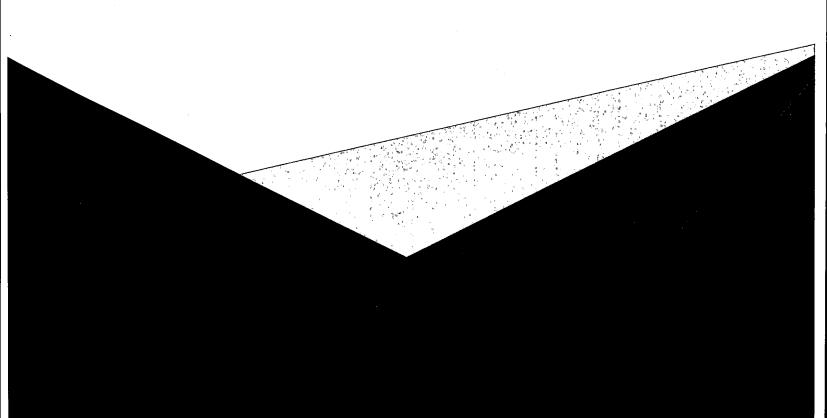
AMOUNT DUE: \$75.00

Make check payable to WV Division of Natural Resources. Please reference the invoice number on your check. Mail to the above address and to the attention of Ms. Fordyce.



CNX Gas-Orange-Blue Waterline

Doddridge County
Floodplain Permit Application
and Fees



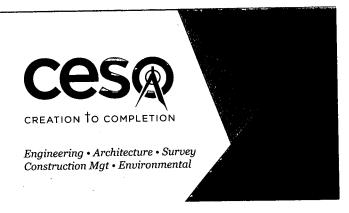


NATALIE HOOTON, M.S.

Staff Biologist (412) 221-2236 (412) 639-2231 Cell, (412) 221-2267 Fax hooton@cesoinc.com www.cesoinc.com

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







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

July 29, 2014

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

RE:

CNX Gas- Orange-Blue 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 Orange-Blue Waterline. CNX Gas Company, LLC (CNX), is proposing to construct a new temporary water transport system and associated construction access roads within a portion of Doddridge County, West Virginia. The proposed new waterlines will be approximately 1.94-miles connecting two water storage tanks at each terminus. The proposed waterlines will be located southwest of the intersection of South Fork Hughes River Road and Cain Run Road near New Milton, West Virginia. The waterlines will originate at a water storage tank at approximate coordinates 39.187763 N latitude, 80.781538 W longitude (NAD83) and will terminate at a separate water storage tank at approximate coordinates 39.174486 N latitude, 80.753491 W longitude (NAD83).

CESO. Inc. has identified a total of nine (9) named and unnamed waterways that will require crossing in Doddridge County as a result of this project. The Doddridge County Development Permit Application further describing project characteristics is presented in Attachment 1. According to the FEMA Flood Insurance Rate Maps, one waterway within the project area, South Fork Hughes River, occurs within the FEMA 100-year floodplain. A map depicting the proposed alignment location as well as a table and map identifying stream crossings are also provided.

Waterway activity associated with the Orange-Blue waterline project will be the result of crossings using cribbing and a temporary timber mat bridge. However, all waterways will be returned to their predisturbance plan, profile, and dimension after the pipe has been installed. In addition, proper construction sequencing and implementation of an approved erosion and sediment control plan will ensure water quality impacts are minimized throughout the project area and the proposed activities are in compliance with Nationwide Permit General Conditions and Regional General Conditions.

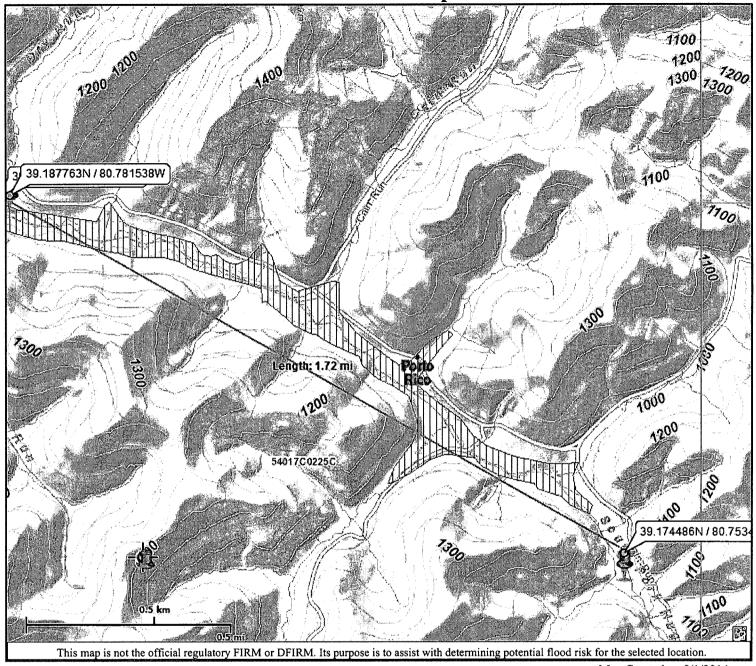
Should you have any questions or comments please don't hesitate to contact me at 412-221-2236 ext. 2009 or through email at hooton@cesoinc.com.

Sincerely.

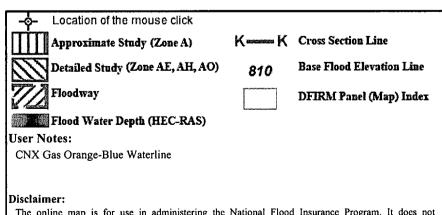
CESO, Inc.

Natalie Hooton Staff Biologist

WV Flood Map



Map Created on 8/1/2014



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.fcma.gov.

WV Flood Tool is supported by FEMA, WV NFIP Office, and WV GIS Technical Center (http://www.MapWY.gov/flood)

Flood Hazard Area:

Advisory Flood Height: N/A

Water Depth: N/A

Elevation: About 1306 feet

Location (long, lat): 80.775521 W, 39.174820 N

Location (UTM 17N): (519390, 4336201) **FEMA Issued Flood Map:** 54017C0225C

Contacts: Doddridge County CRS Information: N/A Flood Profile: No Profile HEC-RAS Model: No Model

Parcel Number:

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.

APPLICANT'S SIGNATURE

- 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 KNOWLFDGE, TRUE AND ACCURATE.

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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: CNX Gas Company, LLC
ADDRESS: c/o Adam White, One Energy Drive PO Box 1248 Jane Lew, WV 26378
TELEPHONE NUMBER: 724.627.1300
CONTRACTOR NAME:
ADDRESS:
TELEPHONE #
WV CONTRACTOR LICENCE #
ENGINEER'S NAME: CESO, Inc.
ADDRESS: 2800 Corporate Exchange Drive, Suite 160, Columbus, OH 43231
TELEHONE 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 RECERENCE. Please see Attachment A.

TAX M	AP REFERENCE:	Please se	ee Attachment A.				
EXISTI	NG BUILDINGS/L	JSES OF	PROPERTY: Pk	ease see Attac	hment A.		
	OF AT LEAST ON					OCATED UPON	THE SUBJECT
PROPE	RTY Please see Atta	achment A	٨.				
ADDRE	ESS OF AT LEAST	ONE A	DULT RESIDING	S IN EACH F	ESIDENC	E LOCATED UPO	ON THE SUBJECT
PROPE	RTY Please see Atta	achment A	۸.				
.		• .	L				m An and the talamatic salar
		essing t	ne application,	, piease pro	vide end	ougn informatio	n to easily identify the
	t location.				t	ar abarraanarind ri	ratarling and associated
							vaterline and associated Virginia to support non-
							st of the intersection of State
							linates of the withdrawal
							l point, the waterline will
transp	oort water southea	st to the	OX11 well pad	(39.1709591	V Latitude	e, 80.762926 W Lo	ongitude (NAD83)).
DESCR	RIPTION OF WOR	K (CHF	CK ALL APPLICA	ARI F ROXES	3)		
	RUCTURAL DEV	•		NDEE BOXES	,		
ACTIV				STRUC	TURAL T	YPF	
	New Structure	•		5,,,,,,	[]	Residential (1 -	– 4 Family)
Ö	Addition				Ö		ore than 4 Family)
Ö	Alteration				Ö	•	al (floodproofing)
i)	Relocation				Ö	Combined Use	
[]	Demolition				Ü	Replacement	, , , , , , , , , , , , , , , , , , , ,
Ö	Manufactured	l/Mobi	l Home			,	
.,		•					
В. С	OTHER DEVELOP	LMENT	ACTIVITIES:				
[]	Fill	[]	Mining	[]	Drilling		Pipelining
[]	Grading						
[]	Excavation (ex	cept fo	r STRUCTURAL	DEVELOPN	/IENT che	ecked above)	
	Watercourse A	Alteratio	on (including d	redging and	d channe	l modification)	
\checkmark	Drainage Impr	oveme	nts (including o	culvert wor	k)		
[]	Road, Street, o	or Bridg	e Construction	ı			
[]	·	_	g new expansio	on)			
[]	Individual Wat	ter or S	ewer System				

C. STANDARD SITE PLAN OR SKETCH

Other (please specify)

[]

- SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED (ENGINEERING PLANS MUST BE SIGNED AND SEALED).
- 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 PROJECT WITHIN THE FLOODPLAIN \$5	6 OF THE COMPLETE DEVELOPMENT/ PROPOSED CONSTRUCTION 676,500.00
OF THE SURFACE TRACT (UP & DOWN AND ALL OTHER SURFACE OWNERS UP	OWNERS OF SURFACE TRACTS ADJACENT TO THE AREA STREAM) UPON WHICH THE PROPOSED ACTIVITY WILL OCCUR & DOWN STREAM) WHO OWN PROPERTY THAT MAY BE ISTRATED BY A FLOODPLAIN STUDY OR SURVEY (IF ONE HAS BEEN
ADDRESS: Please see Attachment D.	ADDRESS:
NAME:ADDRESS:	NAME:ADDRESS:
ANY ADJACENT PROPERTY AT THE TIM AND ADDRESS OF AT LEAST ONE ADUL AFFECTED BY FLOODING AS IS DEMON	EAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE THE FLOODPLAIN PERMIT APPLICATION IS FILED AND THE NAME TO RESIDING IN ANY HOME ON ANY PROPERTY THAT MAY BE TO STRATED BY A FLOODPLAIN STUDY OR SURVEY. NAME: ADDRESS: ADDRESS:
E. CONFIRMATION FORM	
DAYS OF RECEIPT OF INVOICE BY THE APPLICATION PROCESS GREATER THAIR (A) PERSONAL SERVICE OF PROCE PERMITTED BY LAW FOR SUCH SERVICE (B) SERVICE BY CERTIFIED MAIL R (C) PUBLICATION. (D) COURT REPORTING SERVICES (E) CONSULTANTS AND/OR HEAR ADMINISTRATOR/MANAGER OR FLOCE	· - ·
NAME (PRINT): Natalie Hooton for CESO, Inc.	
SIGNATURE:	DATE: 07/29/2014

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:

FIRM	PROPOSED DEVELOPMENT IS LOCATED ON: Panel:
[] comp	Is NOT located in a Specific Flood Hazard Area (Notify applicant that the application review is plete and NO FLOOPLAIN DEVELOPMENT PERMIT IS REQUIRED).
[]	Is located in Special Flood Hazard Area. FIRM zone designation
[]	Unavailable
[]	The proposed development is located in a floodway.
[]	See section 4 for additional instructions.
AREA	SIGNED DATE ION 4: ADDITIONAL INFORMATION REQUIRED FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD (To be completed by Floodplain Administrator/Manager or his/her representative) applicant must submit the documents checked below before the application can be processed.
[] deve	A plan showing the location of all existing structures, water bodies, adjacent roads and proposed lopment.
space locate	Development plans, drawn to scale, and specifications, including where applicable: details for oring structures, storage tanks, proposed elevation of lowest floor, (including basement or crawle), types of water resistant materials used below the first floor, details of flood proofing of utilities ed below the first floor and details of enclosures below the first floor.
	Subdivision or other development plans (If the subdivision or development exceeds 10 lots or 2 s, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not rwise available).

[] Plan	s showing the extent of watercourse relocation and/or landform alterations.							
[] Top	of new fill elevationFt. NGVD.							
For floodproofing structures applicant must attach certification from registered engineer or								
architect.								
not result in	ification from a registered engineer that the proposed activity in a regulatory floodway will any increase in the height of the 100-year flood. A copy of all data and calculations his finding must also be submitted.							
License and	nufactured homes located in a Flood Hazard Area must have a West Virginia Contractor's a Manufactured Home Installation License as required by the Federal Emergency at Agency (FEMA).							
[] Othe	er:							
SECTION 5: his/her repre	PERMIT DETERMINATION (To be completed by Floodplain Administrator/Manager or esentative)							
Floodplain C	mined that the proposed activity (type is or is not) in conformance with provisions of the Ordinance adopted by the County Commission of Doddridge County on May 21, 2013. The ued subject to the conditions attached to and made part of this permit.							
SIGNED	DATE							
-	plain Administrator/Manager found that the above was not in conformance with the f the Doddridge County Floodplain Ordinance and/or denied that application, the applicant							
APPEALS:	Appealed to the County Commission of Doddridge County? [] Yes {} No Hearing Date:							
	County Commission Decision - Approved [] Yes [] No							
CONDITIONS	S:							
SECTION 6: issued).	AS-BUILT ELEVATIONS (To be submitted by APPLICANT before Certificate of Compliance is							
	g information must be provided for project structures. This section must be completed by a rofessional engineer or a licensed land surveyor (or attach a certification to this application).							
COMPLETE 1	L OR 2 BELOW:							
1 Actu	ual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space is FT. NGVD.							
2 Actu	ual (As Built) elevation of floodproofing isFT. 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.

Ordinance. INSPECTIONS:					
	DATE: DEFICIENCIES ? Y/N	BY	:		
соммі	ENTS				
SECTION 8: CER his/her represe		NCE (To be c	ompleted b	y Floodplain Ad	ministrator/Manager or
Certificate of Co	ompliance issued:	DATE:	B	Y:	
CERTIFICATE OF FOR DEVELOPM	COMPLIANCE SENT IN SPECIAL FLOOI	D HAZARD AR	REA (OWNE	R MUST RETAIN)	ı
	PERM PERM	IIT NUMBER: IIT DATE:			
	PURPOSE –				
CONSTRUCTION	I LOCATION:				

OWNER'S ADDRESS:

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.
SIGNEDDATE





Table 1. Stream Crossing by Waterline Activity

Stream Field ID	Stream Category	Stream Name or Tributary Of	Project Activity	Type of Crossing	Coordinates (NAD83) (dd)	Width (feet)	Crossing Size (linear feet)
G6	Ephemeral	UNT South Hughes Fork River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.186658, -80.774939	3.0	41
G10	Ephemeral	UNT South Hughes Fork River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.1850113,-80.770129	1.5	60
G11	Intermittent	UNT South Hughes Fork River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.184188, -80.7680716	2.5	49
G12	Perennial	South Fork Hughes River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.1833064, -80.767381	7.0	41
G14	Perennial	South Fork Hughes River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.182760, -80.7663689	7.0	45
G14	Perennial	South Fork Hughes River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.182275, -80.7648574	7.0	42
G14	Perennial	South Fork Hughes River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.1820745, -80.764730	7.0	43
G19	Ephemeral	UNT South Hughes Fork River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.1816052, -80.762957	2.5	43
G14	Perennial	South Fork Hughes River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.1805922, -80.762433	7.0	53
G22	Perennial	South Fork Hughes River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.1797132, -80.761645	7.0	73
G25	Ephemeral	UNT South Hughes Fork River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.177821, -80.7558878	<u>2.</u> 0	4 <u>1</u>
G27	Ephemeral	UNT South Hughes Fork River	Waterline	Cribbed and Timber Matted Temporary Bridge	39.17578899, -80.754199	2.0	43



Attachment A- Project Location-Surface Owner Information

TAX ID: 09-07-0010-0002-0000-6001

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

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

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

DISTRICT: Southwest

LAND BOOK DESCRIPTION:

DEED BOOK REFERENCE: Book 230/ Page 307

TAX MAP REFERENCE: MAP 10/ Parcel 2

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

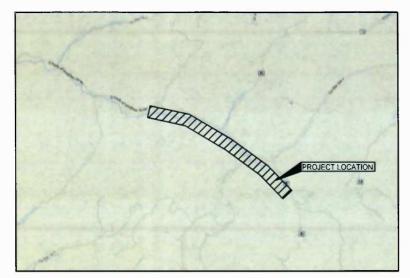
NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT

PROPERTY: Unknown

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



Orange-Blue Waterline
Location Map (Oxford, WV Quad)
Doddridge County, WV



VICINITY MAP

DRAWING INDEX DESCRIPTION SHEET NUMBER COVER SHEET SWPPP NOTES SWPPP DETAILS 4-6 PIPELINE PLAN 7-10 ROAD CROSSING DETAILS **EROSION AND SEDIMENT CONTROL TABLES**

VERTICAL DATUM NOTE

VERTICAL CONTROL IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1983

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.

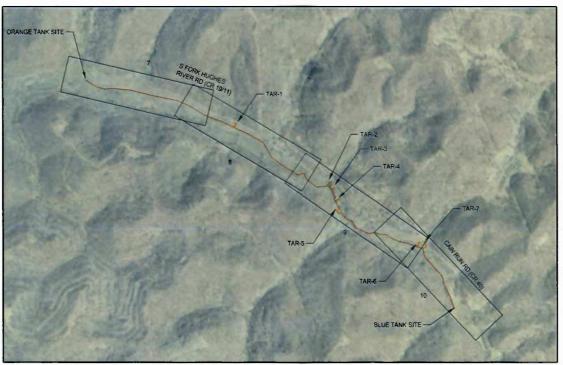
"WARNING" INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

ORANGE TO BLUE WATER LINE

DODDRIDGE COUNTY **WEST VIRGINIA**

APPROX. START POINT: STA 0+00 (NAD 83) LAT: 39.187763 N / LONG: 80.781538 W (UTM) (ZONE 17) NORTHING: 253093.23 / EASTING: 1605253.29

APPROX. END POINT: STA 101+19 (NAD 83) LAT: 39.174486 N / LONG: 80.753491 W (UTM) (ZONE 17) NORTHING: 248145.77 / EASTING: 1613147.74



PROJECT AREA MAP





- 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 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 ANDIOR COMPLETENESS. FORTY-EIGHT (48) HOURS BEFORE DISIGNIC IS TO COMMENCE, THE CONTRACTOR SHALL NOTIFY THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WW811) AT 1-800-245-4848. THE CONTRACTOR SHALL ALSO NOTIFY ALL OTHER AGENCIES WHICH MIGHT HAVE UNDERGROUND UTILITIES IN THE PROJECT AREA AND ARE NON-MEMBERS OF WW811.
- 2. QUANTITIES LISTED ARE BASED ON SLOPE LENGTH. CONTRACTOR SHALL VERIFY ALL

UTILITY OWNERS

- NOTES:

 1. CONTRACTOR SHALL CALL THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC. (WV911) AT 1-800-245-4848 72 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF
- UTILITIES SHOWN ARE TAKEN FROM THE SURVEY AND RECORDS OF RESPECTIVE UTILITY
 COMPANIES AND DO NOT NECESSARY 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 1000 CONSOL ENERGY DRIVE CANONSBURG, PA 15317

445 W MAIN STREET CLARKSBURG, WV 26301 STEVEN D. GUM 304-782-5024 STEVEN.D. GUM@DOM.COM

P.O. BOX 1550 ROUTE 19 SOUTH AT OAKMOUND RD

07/24/2014



APPROVED BY CONSOL:

REPRESENTATIVE

DATE



DATE

SUMMARY OF MATERIALS		KEFE	REFERENCE DRAWINGS			EVISIONS	
MRKR#	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
1	10,164 LF	PIPELINE (SLOPE LENGTH)					
2	56 EA	ELBOW, 45° SEGMENTABLE FITTING					
3	2 EA	ELBOW, 90° SEGMENTABLE FITTING					
4	2 EA	PIPELINE WARNING SIGN					
		- 5				1-	
						-	



ORANGE TO BLUE WATER LINE

COVER SHEET

WAYNESBURG, PA 15370

CONSOL ENERGY			
	JOB NO.:	750595	
	DESIGN:	JMS	
	DRAWN:	JMS	
	CHECKED:	ВЈМ	
200 EVERGREENE DRIVE	SHEET NO.		

1 of 13

CONTRACTOR 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 SEFORE DIGGING IS TO COMMENCE, THE
 CONTRACTOR SHALL NOTIFY THE STATEWIDE ONE CALL SYSTEM, MISS UTILITY OF WEST VIRGINIA, INC.
 (WW811) AT 1-800-245-4848. THE CONTRACTOR SHALL ALSO NOTIFY ALL OTHER AGENCIES WHICH MIGHT
 HAVE UNDERGROUND UTILITIES IN THE PROJECT AREA AND ARE NON-MEMBERS OF WW811.
- 2. ALL CONTRACTORS/SUBCONTRACTORS PERFORMING WORK ON THIS PROJECT SHALL FAMILLARIZE THEMSELVES WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM THEIR OPERATIONS. SAID EXISTING IMPROVEMENTS SHALL INCLUDE, BUT NOT BE LIMITED TO, BERMS, DITCHES, FENCES AND PLANTS. ANY REMOVAL OR DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED OR REPAIRED BY THE CONTRACTORS TO EXISTING OR BETTER CONDITIONS, AT THEIR EXPENSE, AND SHALL BE APPROVED BY THE OWNER.
- ALL CONSTRUCTION, TESTING AND MATERIALS SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE "PERMITTING ENTITY" AND LOCAL. STATE AND FEDERAL REGULATIONS.
- 4. ALL NECESSARY TESTING SHALL BE PERFORMED BY AN APPROVED LABORATORY AT THE EXPENSE OF THE CONTRACTOR
- 5. PRIOR TO CONSTRUCTION, ALL CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS AND ALL OTHER NECESSARY DETAILS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED, FAILURE ON THE PART OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL STANDARDS OR SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
- 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.
- . IN THE EVENT THAT AN ITEM IS NOT SPECIFICALLY COVERED IN THE PERTINENT AGENCIES CONSTRUCTION STANDARDS AND SPECIFICATIONS AND DETAILS, THE CONTRACTOR SHALL NOTIFY THE OWNER AND PROJECT ENGINEER. THE OWNER SHALL HAVE THE FINAL DECISION ON ALL CONSTRUCTION MATERIALS. METHODS AND PROCEDURES.
- 8. THE CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA AS SHOWN ON THE PLANS, NO ENCROACHMENTS OUTSIDE OF THE SPECIFIED AREAS SHALL BE ALLOWED. ANY DAMAGE RESULTING THERE FROM SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.
- . 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 PACILITIES.
- 10. TRENCH BEDDING SHALL BE AS PER WYDOH CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST
- 11. TOP OF NATURAL GAS PIPELINE SHALL BE A MINIMUM OF 3"-0" BELOW THE FINISHED GROUND ELEVATION IN ALL VEGETATED AREAS, EXCEPT IN AGRICULTURAL FIELDS, WHICH THE DEPTH SHALL BE 4"-0". MINIMUM BURY UNDER RODOWAYS AND OTHER PAVED AREAS SHALL BE PER THE PERMITTING ALTHOUGHIES OPERIFICATIONS AND THE ASSOCIATED PERMIT & DRAWMINGS.
- 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.
- 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.
- EXISTING EASEMENTS AND/OR RIGHT-OF-WAYS WERE NOT RESEARCHED AND SURVEYED DURING THIS
 PROJECT, OTHER THAN THOSE SHOWN WITHIN THE PLANS.
- FENCE LINES ENCOUNTERED DURING CONSTRUCTION SHOULD BE RELOCATED AND REPLACED PER LANDOWNER AND OWNER'S REPRESENTATIVE.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE GOVERNING AUTHORITIES PRIOR TO ALL ROAD CROSSINGS, MAINTENANCE OF TRAFFIC IS TO BE IMPLEMENTED AS NECESSARY TO ENSURE THAT THE ROAD HAS CONTINUAL ACCESS. MAINTENANCE OF TRAFFIC SHALL BE PER THE LOST 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 VIRIGINA DEPARTMENT OF NATURAL RESOURCES (WVDNR) AND WEST VIRIGINAD DEPARTMENT OF PROJECTION AWARDS) PROSION AND SEDIMENT CONTROL FIELD IN MAINTAIL

THE CONSTRUCTION SEQUENCE IS INTENDED AS A GENERAL COURSE OF ACTION TO COMPLY WITH WVDNR AND WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION (WVDEP) EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT REGULATIONS ASSUMED THAT 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.
- 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 CONTRILICTION ACTIVITIES
- PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING CLEARING AND GRUBBING, CONTRACTOR SHALL CLEARLY DELINEATE SENSITIVE AREAS, RIPARIAN FOREST BUFFER BOUNDARIES, THE LIMITS OF CLEARING, AND TREES THAT ARE TO BE CONSERVED WITHIN THE PROJECT SITE, AND INSTALL APPROPRIATE BARRIERS WHERE EQUIPMENT MAY NOT BE PARKED, STAGED, OPERATED OR LOCATED FOR ANY PURPOSE. APPROPRIATE BMP'S SHOULD BE INSTALLED AND
- CONSTRUCTION FENCE SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLANS. CONSTRUCTION
 FENCE SHALL BE CHECKED REGULARLY FOR WEATHER RELATED OR OTHER DAMAGE. ANY NECESSARY
 DEPOLIPS CHALL BE AND EMPLOYATED.
- INSTALLATION OF STONE CONSTRUCTION ENTRANCES AT ALL ACCESS LOCATIONS SHALL BE THE FIRST STEP OF CONSTRUCTION AND SHALL BE FOLLOWED BY INSTALLATION OF BMP's FOR ALL AREAS DESIGNATED FOR FOLIPMENT AND MATERIAL STAGING.
- 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 THAT 0.5 INCHES OF RAIN PER 24 HOUR PERIODS, CHECK TO SEE IF WATER HAS FLOWED AROUND THE EDGE OF THE STRUCTURE. REPLACE STONE AND REPAIR DAM AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT AND CONFIGURATION. SEDIMENT SHALL BE REMOVED FROM BEHIND THE CHECK DAMS WHEN IT HAS ACCUMULATED TO ONE HALF OF THE ORIGINAL HEIGHT OF THE DAM.
- INSTALL PERIMETER BMP's (SILT FENCING OR FILTER SOCKS) WHERE NECESSARY ALONG CLEARING AND GRUBBING BOUNDARIES.
- BEGIN LAND CLEARING AND GRADING (IF NECESSARY) ONLY AFTER ALL DOWNSLOPE BMP's HAVE BEEN INSTALLED. IF POSSIBLE, MINIMIZE CLEARING AND GRADING AT STREAM CROSSINGS UNTIL THE TIME OF CONCESSION.
- APPLY TEMPORARY OR PERMANENT STABILIZATION MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS REACHED FINAL GRADE, HAS BEEN DELAYED OR OTHERWISE TEMPORARILY SUSPENDED.
- 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
- 11. INSTALL BMP's FOR TEMPORARY ROAD CROSSINGS OF WETLANDS AND WATER BODIES WITHIN THE PIPELINE ROW AS NECESSARY, FOLLOW STREAM AND WETLAND CROSSING DETAILS FOR ACCESS ROAD CROSSINGS OF THESE FEATURES, FILTER SOCKS SHALL BE USED AT ALL STREAM CROSSINGS, SEE STREAM CROSSING PROCEDURES AND WETLAND CROSSING PROCEDURES FOR ADDITIONAL INFORMATION DIO WATER BODY AND WETLAND CROSSINGS.
- 12. CONSTRUCTION OF UTILITIES (INSTALL NATURAL GAS PIPELINE). WHEN TRENCH EXCAVATION TAKES PLACE IN AN AGRICULTURAL, WETLAND, OR RESIDENTIAL AREA, THEN SEGREGATION OF TOPSOIL AND SUBSOIL WILL BE PERFORMED, 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, DRINING CONSTRUCTION, INSTALL AND MAINTAIN ANY ADDITIONAL EROSION AND SEDIMENT CONTROL BMYS AND IMPLEMENT STRUCTURAL POST CONSTRUCTION ON THE BODY BMYS (PERMANENT WATERBARS) THAT MAY BE REQUIRED. SEE UTILITY LINE INSTALLATION REQUIRED FOR INJECTS FOR I MIST SO F WORK
- 13. ANY WATER ENCOUNTERED WITHIN THE EXCAVATION AREAS DURING CONSTRUCTION SHALL BE REMOVED BY USING PUMPS, NOSES, AND PUMPED WATER FILTER BAGS WHICH SHALL BE DISCHARGED INTO UNDISTURBED WELL-VEGETATED UPLAND AREAS.
- 14. BACKFILL AREAS EXCAVATED FOR THE INSTALLATION OF UTILITIES WITH SUITABLE EXCAVATED MATERIAL, IN AREAS WHERE TOPSOIL HAS BEEN SEGREGATED, THE SUBSOIL SHALL BE REPLACED FIRST, FOLLOWED BY THE TOPSOIL BEING SPREAD OVER THE AREA FROM WHICH IT WAS REMOVED. FINAL GRADES SHALL BE THE SAME AS PRE-CONSTRUCTION CONTOURS.
- 15. AFTER CONSTRUCTION IS COMPLETE, FINAL SEEDING AND MULCHING OF ALL DISTURBED AREAS NOT YET STABILIZED SHALL BE COMPLETED. INSTALL EROSION CONTROL BLANKETING ON SLOPES WHICH ARE 3:1 OR STEEPER. STABILIZE AND SEED ALL OPPON AREAS INCLIDING BORROW AND SPOIL AREAS.
- REMOVAL OF ALL TEMPORARY BMP's CAN BE PERFORMED UPON ACHIEVEMENT OF A UNIFORM 70 PERCENT PERENNIAL VEGETATIVE COVER WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION FOR ALL AREAS WHICH WOULD CONTRIBUTE RUNOFF TO THE BMP's. STABILIZE ANY DISTURBANCES ASSOCIATED WITH THE REMOVAL OF THE BMP's.

WETLAND CROSSING SEQUENCE OF CONSTRUCTION

- INSTALL TEMPORARY EROSION AND SEDIMENT CONTROLS PRIOR TO EARTH DISTURBANCE.
- SEDIMENT BARRIERS SHALL BE INSTALLED AT THE EDGE OF THE RIGHT-OF-WAY AND AROUND TOPSOIL AND SURSOIL 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.
- IN WETLAND AREAS WITHOUT STANDING WATER OR SATURATED SOILS, TOPSOIL (TOP 12 INCHES) AND SUBSOIL SHALL BE SEGREGATED AND STOCKPILED DURING TRENCHING.
- UPON COMPLETION OF PIPE INSTALLATION THROUGH WETLAND, TRENCH PLUG(S) SHALL BE INSTALLED AS REQUIRED TO MAINTAIN ORIGINAL WETLAND HYDROLOGY.
- THE SEGREGATED TOPSOIL SHALL BE RESTORED TO IT'S 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 STREAMMETLAND CROSSINGS CONTAINED IN THESE DRAWINGS. SEEDING ONLY, WITH NO FERTILIZING, SHALL BE DONE IN CRITICAL AREAS (i.e. WITHIN 50" OF AN HQ OR EV STREAM CHANNEL OR WITHIN WETLANDS). DO NOT APPLY MULCH WITHIN WETLANDS.

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

- ALL IN-STREAM DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHOULD BE COMPLETED IN COMPLIANCE WITH WYDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED ONLY TO THOSE AREAS DESCRIBED IN EACH STAGE.
- 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
- 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
- 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.
- BACKFILL TRENCH BY FIRST ADDING SUBSURFACE MATERIAL, THEN THE STREAM SUBSTRATE MATERIAL, ENSURING THAT ORIGINAL GRADE, DIMENSIONS, AND CONTOURS OF THE CHANNEL ARE RE-ESTRALISHED.
- 9. REMOVE COFFERDAM AND STABILIZE ANY REMAINING DISTURBED AREAS.

STREAM CROSSING (TEMPORARY) CONSTRUCTION SEQUENCE - ACCESS ROADS

- ALL IN STREAM DISTURBANCE ACTIVITY SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE, EACH STAGE SHALL BE COMPLETED IN COMPLIANCE WITH WYDEP, THE WEST VIRGINIA OFFICE OF LAND AND STREAMS (WYDLS), THE WDNR, AND THE U.S. ARMY CORPS OF ENGINEERS (USACE) RULES AND REGULATIONS.
- STREAM CROSSING SHALL MEET THE REQUIREMENTS OF THE WYDEPS OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL CHAPTER 3.21.
- SEE CULVERT STREAM CROSSING FROM THE WYDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL.
- ALL WORK SHALL BE PERFORMED IN LOW FLOW CONDITIONS AND EACH CROSSING SHALL BE COMPLETED WITHIN 72 HOURS OF START OF WORK.
- POINTS OF INGRESS AND EGRESS TO STREAMS FOR EQUIPMENT SHALL BE WITHIN THE WORK SITE ONLY.
- 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.
- 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

- THE CONTRACTOR SHALL LIMIT TRENCH EXCAVATION TO THE LENGTH OF PIPE PLACEMENT AND BACKFILL THAT CAN BE INSTALLED IN ONE DAY.
- 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 SEDUMENT OF THE PAGE.
- 4. ALL TRENCH EXCAVATION MATERIAL TO BE PLACED ON DOWNHILL SIDE OF TRENCH
- IN THE EVENT THAT THESE REQUIREMENTS CAN'T BE MET DUE TO FIELD CONDITION, THE CONTRACTOR SHALL COORDINATE ALTERNATE REQUIREMENTS WITH OWNER'S REPRESENTATIVE.

UTILITY RIGHT-OF-WAY RESTRICTIONS

- 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 LITILITY RIGHT-OF-WAY ARE NOT PERMITTED.
- GROUND DISTURBANCE OR EXCAVATIONS ARE NOT PERMITTED WITHIN 50 FEET OF ANY UTILITY STRUCTURES (POLES, TOWERS, GUYS, ETC.)
- EXPLOSIVES OR COMBUSTIBLE LIQUIDS, SUBSTANCES, OR MATERIALS ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY. PROHIBITED MATERIALS INCLUDE BUT ARE NOT LIMITED TO FUEL, WOOD CHIPS, MULCH, BRUSH, AND TIRES.

SUMMARY OF MATERIALS REFERENCE DRAWINGS REVISIONS

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

07/24/2014

DATE

CESSON CREATION TO COMPLETION WWW.cesoinc.com

ring • Architecture • Survey • Construction Mat • Envi

ORANGE TO BLUE WATER LINE

SWPPP NOTES

STATION(S)

200 EVEDOD

200 EVERGREENE DRIVE WAYNESBURG, PA 15370

K-PROJECTSICONSOL ENERGY/750595-01 - ORANGE-BLUE WATER LINE/03-CIVIL/PLAMPIPEL INE/250595-ORANGE TO BLUE WATER LINE IFC TABLES DWG = 7/78/20

CONSOL ENERGY

DATE: 07/24/2014

JOB NO.: 750595

DESIGN: JMS

DRAWN: JMS

CHECKED: BJM

SHEET NO.

2 of 13

EROSION AND SEDIMENT CONTROL NARRATIVE:

PLAN DESIGNER: CESO, INC.

2800 CORPORATE EXCHANGE DRIVE, SUITE 160 COLUMBUS, OH 43231

ONE ENERGY DRIVE JANE LEW, WV 26378

CONTACT: BENJAMIN J. MILLER, PE

CONTACT: ADAM WHITE P: 240-506-7299 E: ADAMWHITE@CONSOLENERGY.COM

E: MILLER@CESOINC.COM

WV DEP PERMIT #

PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF CONSTRUCTING 16" TWIN WATER LINES IN DODDRIDGE COUNTY, WEST VIRGINIA

19.50 ACRES TOTAL PROJECT AREA
0 ACRES PROPOSED IMPERVIOUS AREA
19.50 ACRES DISTURBED

0 CY CUT / 0 CY FILL (0 CY SPOIL)

EXISTING SITE CONDITIONS:

THE TOPOGRAPHY OF THIS SITE CONSISTS OF MANY RIDGES AND VALLEYS. THIS SITE CONSISTS PREDOMINATELY OF WOODS AND OPEN FIELDS. THIS SITE DRAINS TO S FORK OF HUGHES RIVER.

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

ADJACENT AREAS:

ADJACENT AREAS THAT MAY BE AFFECTED BY SITE DISTURBANCE INCLUDE WETLAND G18, WETLAND G20, WETLAND G2, STREAM G22, WETLAND G25, WETLAND G26

CRITICAL AREAS:

PIPELINE: WETLAND G5, STREAM G6, WETLAND G8, STREAM G10, STREAM G11, STREAM G12, WETLAND G13, STREAM G14, WETLAND G17, STREAM G18, STREAM 4, WETLAND G24, STREAM G25, STREAM G27 & S FORK HUGHES RIVER.

REQUIREMENTS FOR WORKING IN OR NEAR CRITICAL AREAS CAN BE FOUND ON SHEETS 2-6.

SOILS:

SOIL NAME	SOIL MAPPING UNIT	ERODIBILITY (K FACTOR, WHOLE SOIL)	SETTLEABILITY (UNAVAILABLE)	PERMEABILITY	DEPTH (cm)	TEXTURE	SOIL STRUCTURE (UNAVAILAB LE)
COTACO SILT LOAM	Co		-		-		-
GILPIN-PEABODY COMPLEX, 15 TO 35 PERCENT SLOPES, VERY STONY	GsE	0.37	-	WELL DRAINED	84	SILT LOAM	
GILPIN-PEABODY COMPLEX, 35 TO 70 PERCENT SLOPES, VERY STONY	GsF	0.37	•	WELL DRAINED	84	SILT LOAM	-
GILPIN-UPSHUR COMPLEX, 8 TO 15 PERCENT SLOPES	GuC	0.43	-	WELL DRAINED	84	SILT LOAM	
GILPIN-UPSHUR COMPLEX, 15 TO 25 PERCENT SLOPES	GuD	0.43	-	WELL DRAINED	84	SILT LOAM	
SENSABAUGH SILT LOAM	Se	0.37		WELL DRAINED	>200	SILT LOAM	
SENSABAUGH SILT LOAM, 3 TO 8 PERCENT SLOPES, RARELY FLOODED	SeB	0.37	-	WELL DRAINED	>200	SILT LOAM	-
VANDALIA SILT LOAM, 15 TO 25 PERCENT SLOPES	VaD	0.32		WELL DRAINED	>200	SILT LOAM	
VANDALIA SILT LOAM, 15 TO 35 PERCENT SLOPES, VERY STONY	VsE	0.32	•	WELL DRAINED	>200	SILT LOAM	

*DATA OBTAINED FROM NRCS-USDA WEB SOIL SURVEY

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

POLLUTION PREVENTION

CONSTRUCTION STORMWATER THE SEDIMENT CONTROL PLAN SHOWS ALL CLEARING LIMITS AND PROPOSED SEDIMENT CONTROLS. THE GENERAL NOTES ADDRESS THE STABILIZATION OF SOILS, SLOPE PROTECTION, CONTROL OF OTHER POLLUTANTS, DEWATERING CONTROL, MAINTENANCE OF BMPs, MANAGEMENT OF THE PROJECT, AND STABILIZATION, TYPES OF BMPs USED ON THIS PROJECT INCLUDE FILTER SOCKS, WATER BARS, TRENCH PLUGS, AND ROCK CHECK DAMS. REFER TO SHEETS 7-10 FOR LOCATIONS.

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

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

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

- PRIOR TO SEEDING, INSTALL NECESSARY EROSION CONTROL PRACTICES SUCH AS DIKES, WATERWAYS, AND
- SEED SHALL BE EVENLY APPLIED WITH A BROADCAST SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. SMALL GRAINS SHALL BE PLANTED NO MORE THAN 1.5 INCHES DEEP, SMALL SEEDS, SUCH AS ANNUAL RYE, SHALL BE PLANTED NO MORE THAN A QUARTER INCH DEEP. OTHER GRASSES AND LEGUMES
- 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.

	PERMANE	NT SEEDING CHART	PLS
Seed Mix	Common Name	Scientific Name	Lbs/Acre
0	Perennial Ryegrass	Lolium perenne	40
	Birdsfoot Trefoil	Lotus comiculatus	15
	Redtop	Agrostis alba	5
р	Serecia Lespedeza	Lespedeza cunata	40
	Orchardgrass	Dactylis glomerata	30
	Redtop	Agrostis alba	5

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

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
- 2. 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
- 3. CONTRACTOR SHALL MINIMIZE CLEARING AND DISTURBANCE TO THE ENVIRONMENT TO THE MAXIMUM EXTENT POSSIBLE OR AS REQUIRED BY THE GENERAL PERMIT.
- PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING WITHIN SEVEN (7) DAYS FROM THE START OF CLEARING AND GRUBBING, AND SHALL CONTINUE TO FUNCTION UNTIL THE SLOPE DEVELOPMENT AREA IS RESTABILIZED.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS
- 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
- 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 RESEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.
- TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH WYDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, CHAPTER
- 10. PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH WYDEP'S OFFICE OF CONSTRUCTION STORMWATER EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL, CHAPTER
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION, ALL SLOPES 3:1 OR GREATER THAN 3:1 SHALL BE FERTILIZED, SEEDED, AND CURLEX BLANKETS BY AMERICAN EXCELSIOR COMPANY, NORTH AMERICAN GREEN, INC. OR AN APPROVED EQUAL AS SPECIFIED IN THE PLANS SHALL BE INSTALLED ON THE SLOPES.
- 12. NO SOLID (OTHER THAN SEDIMENT) OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BI DISCHARGED IN STORM WATER RUNOFF, ALL NON-SEDIMENT POLLUTANTS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL GUIDELINES. WASHOUT OF CEMENT TRUCKS SHOULD OCCUPI IN DESIGNATED PIT OR DIKED AREAS, WHERE WASHINGS CAN BE REMOVED AND PROPERLY DISPOSED OFF-SITE WHEN THEY HARDEN. STORAGE TANKS SHOULD ALSO BE LOCATED IN PIT OR DIKED AREAS, IN ADDITION, SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS TO CLEAN AND CONTAIN FUEL AND CHEMICAL SPILLS MUST BE KEPT ON SITE.
- 13. IF THE ACTION OF VEHICLES TRAVELING OVER THE STABILIZED CONSTRUCTION EXIT DOES NOT SUFFICIENTLY REMOVE MOST OF THE DIRT AND MUD, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD, PROVISIONS MUST BE MADE TO INTERCEPT THE WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DISPOSED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE SITE THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- 15. 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 PROHIBIT
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ONTO THE ROADWAYS OR INTO THE STORM SEWERS MUST BE REMOVED IMMEDIATELY.

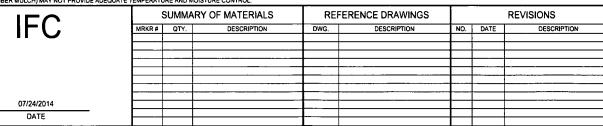
EROSION & SEDIMENT CONTROL MAINTENANCE NOTES

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 ENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED ACCORDING TO

- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STANDING OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
- SEDIMENT ACCUMULATION MUST BE REMOVED WHEN SEDIMENT HEIGHT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE OR CHECK DAM.
- SEDIMENTATION TRAPS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT MUST BE REMOVED FROM TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 40%.
- MINIMIZE OFF-SITE SEDIMENT TRACKING OF VEHICLES BY THE USE OF STONE MATERIAL IN ALL CONSTRUCTION ENTRANCES, ALONG WITH REGULARLY SCHEDULED SWEEPING/GOOD HOUSEKEEPING. STABILIZED CONSTRUCTION ENTRANCES TO BE PROPERLY MAINTAINED BY GENERAL CONTRACTOR AND IN GOOD WORKING ORDER AT ALL TIMES; THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE STONE
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE) BY GERRAL 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
- 7. ALL ROCK CHANNEL PROTECTION MUST BE PLACED OVER GEOTEXTILE FILTER.
- ROCK CHECK DAMS SHOULD BE ROUTINELY CLEANED ONCE SEDIMENT BEGINS TO APPEAR ON THE UPSTREAM SIDE OF THE ROCK.
- CONTAINERS SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES, ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF, ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL
- AREA SHALL BE DESIGNATED BY CONTRACTOR AND SHOWN ON SWPPP MAP FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME ASPHALT, OR CONCRETE, THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA
- EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY.
- 12. A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE. TOTAL ABOVE-GROUND STORAGE OF 1,330 GALLONS OR BELOW-GROUND STORAGE OF 4,200 GALLONS OF FUEL.
- ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN AN WYDEP APPROVED SOLID WASTE MANAGEMENT FACILITY OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES.
- THE CONTRACTOR SHALL CONTACT THE WYDEP THE LOCAL FIRE DEPARTMENT AND THE LOCAL EMERGENCY PLANNING COMMITTEE IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF SHEEN.

EROSION & SEDIMENT CONTROL MAINTENANCE NOTES

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



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ORANGE TO BLUE WATER LINE

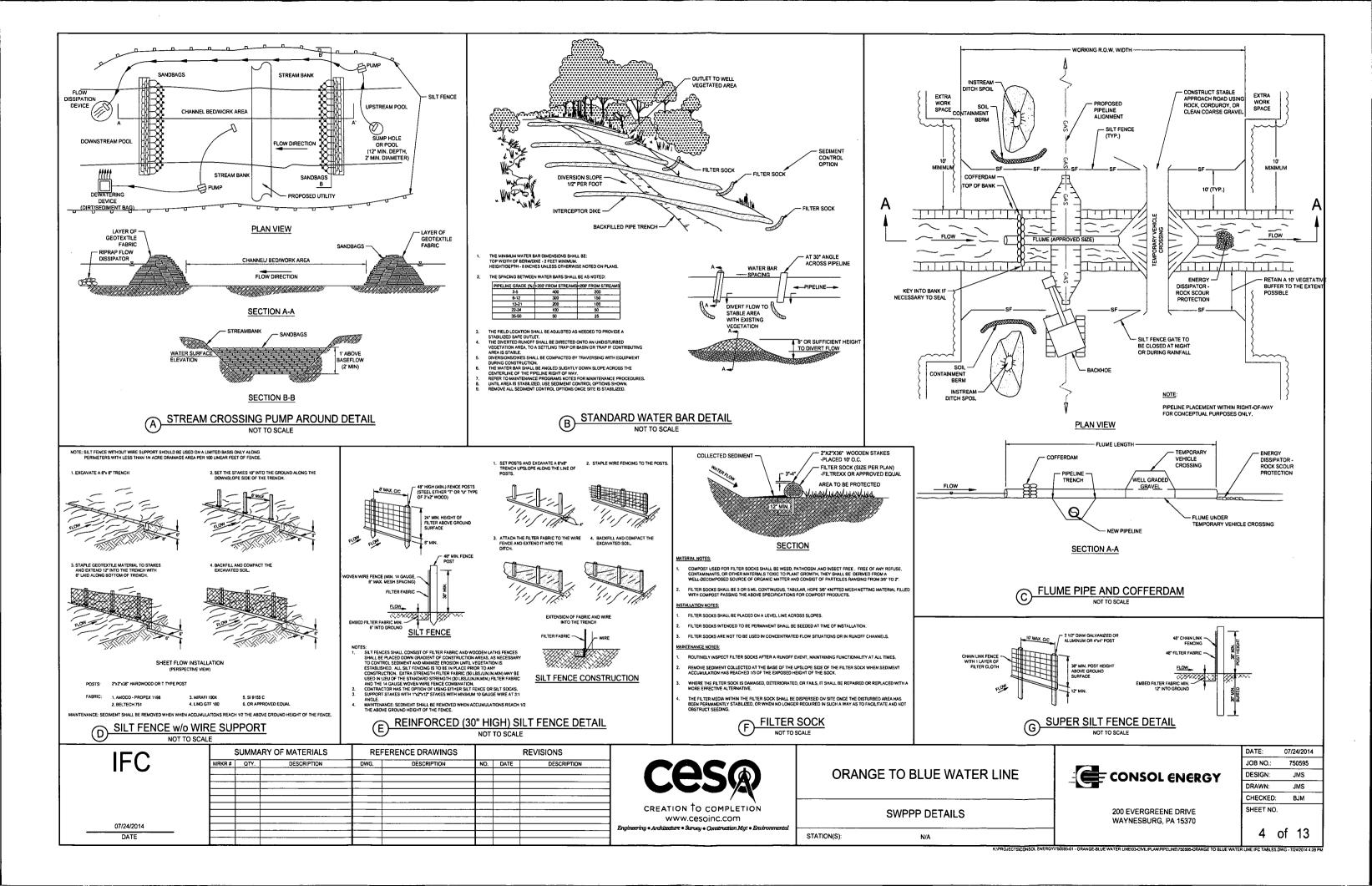
SWPPP NOTES

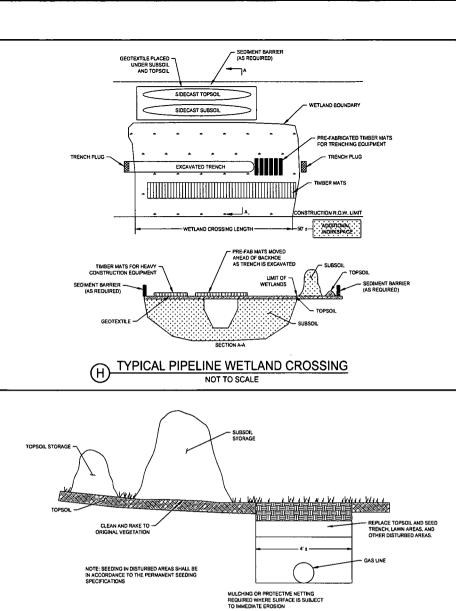
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07/24/2014

3 of 13 1 - ORANGE-BLUE WATER LINE/03-CIVIL/PLAMPIPELINE/750595-ORANGE TO BLUE WATER LINE IFC TABLE





DOUBLE DITCH FOR UTILITY TRENCHES NOT TO SCALE

SEDIMENT FILTER BAG FOR PUMPED WATER DETAIL NOT TO SCALE

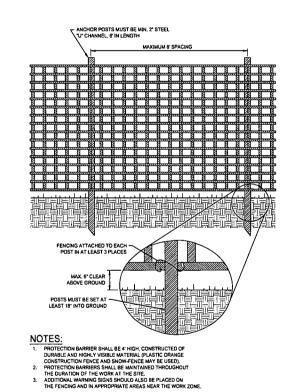
FILTER BAG

FILTER BAG -

WELL VEGETATED AREA

PLAN VIEW

ELEVATION VEW



CONSTRUCTION FENCE DETAIL

NOT TO SCALE

NOTES:

1. THE OFFICE DAM SHALL BE CONSTRUCTED OF 48" DIAMETER STONE, PLACED SO THAT IT COMPLETELY COVERS THE WINDTH OF THE CHANNEL.

1. THE COVERS THE WINDTH OF THE CHANNEL.

2. MAXIMUM HEIGHT OF CHECK DAM SHALL BIOT EXCEED 3.0 FEET.

3. THE MIDPOINT OF THE ROCK CHECK DAM SHALL BE A MINIMUM OF F LOWER THAN THE SIDES IN ORDER TO DIRECT ACROSS THE CENTER AND AWAY FROM THE CHANNEL SIDES.

4. THE BASE OF THE CHECK DAM SHALL BE ENTRENCHED APPROXIMATELY 8 INCHES.

5. SPACING OF CHECK DAMS SHALL BE IN AMAINER SUCH THAT THE TOF OF THE UPSTREAM DAM IS AT THE SAME ELEVATION AS THE TOP OF THE DOWNSTREAM DAM.

6. A SPLASH APRON SHALL BE CONSTRUCTED WHERE CHECK DAMS ARE EXPECTED TO BE IN USE FOR AN EXTENDED PERIOD OF TIME, A STOKE APPROX SHALL BE CONSTRUCTED IMMEDIATELY DOWNSTREAM OF THE CHECK THE SHALL BE PERFORMED BY EFFICE THE STRUCTURE. THE APPROX SHOULD BE 8 THE CHANNEL SHALL BE PERFORMED BY EFFICE THE STRUCTURE. THE APPROX SHOULD BE 8 TO STOKE THE APPROX SHOULD BE 8 TO STOKE THE APPROX SHOULD BE 8 THE THE APPROX SHOULD BE 8 THE STRUCTURE. THE APPROX SHOULD BE 8 THE STRUCTURE THE APPROX SHOULD BE 8 THE STRUCTURE THE APPROX SHOULD BE 8 THE STRUCTURE. THE APPROX SHOULD BE 8 THE STRUCTURE THE APPROX SHOULD BE 8 THE STRUCTURE. THE APPROX SHOULD BE 8 THE STRUCTURE THE APPROX SHOULD BE 8 THE STRUCTURE THE APPROX SHOULD BE 8 THE STRUCTURE. THE APPROX SHOULD BE 8 THE STRUCTURE OF CHECK CAM IS LOWER THAN THE SIDES SAND EXTENDS ACROSS THE ENTIRE CHANNEL.

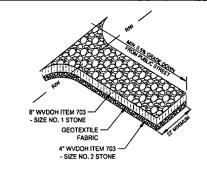
8. SIDE SLOPES SHALL BE A MINIMUM OF 21.

(I) ROCK CHECK DAM DETAIL NOT TO SCALE

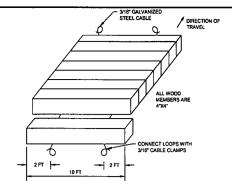
CROSS SECTION

NOTES:

PROFILE



(J) STABILIZED CONSTRUCTION ENTRANCE



TYPICAL TIMBER MAT FOR WETLAND CROSSING NOT TO SCALE

OPTION A

"Wooded Wetland Establishment Seed Mix" (available from JFNew or Ernst)

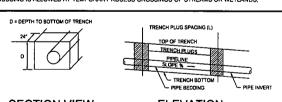
Scientific Name	Common Name	PLS Ounces/Acre
Permanent Grasses/Sedges:		
Calamagrostis canadensis	Bluejoint Grass	1.00
Carex crinita	Fringed Sedge	2.00
Carex Iupulina	Common Hop Sedge	4.00
Carex lurida	Bottlebrush Sedge	1.50
Carex frankii	Bristly Cattail Sedge	3.00
Carex squarrosa	Narrow-Leaved Cattail Sedge	1.00
Carex typhinia	Common Cattail Sedge	1.00
Carex vulpinoidea	Brown Fox Sedge	4.00
Elymus virginicus	Virginia Wild Rye	20.00
Glyceria striata	Fow! Manna Grass	2.00
Leersia oryzoides	Rice Cut Grass	2.00
Scirpus atrovirens	Dark Green Rush	2.00
Spartina pectinata	Prairie Cord Grass	1.00
	Total	44.50
Temporary Cover:		
Avena sativa	Common Oat	360.00
Lolium multibrum	Annual Rye	100.00
	Total	460.00

Elymus virginicus	Virginia Wild Rye		20.00
Glyceria striata	Fow! Manna Grass		2.00
Leersia oryzoides	Rice Cut Grass		2.00
Scirpus atrovirens	Dark Green Rush		2.00
Spartina pectinata	Prairie Cord Grass		1.00
		Total	44.50
Temporary Cover:			
Avena sativa	Common Oat		360.00
Lolium multibrum	Annual Rye		100.00
		Total	460.00
Temporary Cover:			
Alisma spp.	Water Plantain Mix		3.00
Angelica altropurpurea	Great Angelica		1.00
Aster puniceus	Bristly Aster		0.75
Aster umbellatus	Flat-Top Aster		0.25
Bidens cemua	Nodding Bur Marigold		2.50
Cephalanthus occidentalis	Buttonbush		0.50
Campanula americana	Tall Bellflower		0.25
Helenium autumnale	Sneezeweed		2.00
Heradeum lanatum	Cow Parsnip		0.75
Hibiscus moscheutos	Swamp Rose Mallow		2.00
Lobelia siphilitica	Great Blue Lobelia		1.50
Lycopus americanus	Common Water Horehound		0.25
Mimulus ringens	Monkey Flower		1.25
Penthorum sedoides	Ditch Stonecrop		0.50
Polygonum spp.	Pinkweed mix		0.50

	OPTION B Welland Restoration Mixture	PLS
Scientific Name	Common Name	Ounces/Acre
Avena sativa	Common Oat	480.00
Secale cereale	Cereal Rye	480.00
Panicum virgatum	Switch Grass	32.00
Panicum clandestinum	Deer-tongue Grass	32.00
Elymus riparius	Riverbank Wild Rye	32.00
Poa palustris	March Bluegrass	32.00
Sorghastrum nutans	Indian Grass	16.00
Glyceria striata	Fowl Manna Grass	8.00
Carex crinita	Fringe Sedge	8.00
Carex lurida	Bottlebrush Sedge	8.00
Scirpus atrovirens	Dark Green Rush	8.00
Polygonum pensylvanicum	Pinkweed	8.00
Verbena hastata	Blue Vervain	8.00
Verbesina alternifolia	Wingstem	8.00
Senna hebecarpa	Wild Senna	8.00

STREAM/WETLAND CROSSING NOTES

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



SECTION VIEW

ELEVATION

TRENCH SLOPE (%) SPACING (FT) PLUG MATERIA " EARTH FILLED SACKS " EARTH FILLED SACKS " EARTH FILLED SACKS CEMENT FILLED BAGS (WETTED) OR MORTARED STONE

> TRENCH PLUG DETAIL NOT TO SCALE

SUMMARY OF MATERIALS REFERENCE DRAWINGS REVISIONS **IFC** NO. DATE 07/24/2014 DATE

FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STREINGTH, DOUBLE STITCHEO "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.

A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISSOSAL PURPOSES MUST BE PROVIDED. FILTURE BAGS SHALL BE REPLACED WHEN THEY COME '12' FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE T

BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREA, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW

THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANUFACTURER AND SECURELY CLAMPED.

THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR 1/2 THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.



ORANGE TO BLUE WATER LINE

0.75 2.00

19.75

Wild Golden Glov

NOTE: APPLY AT 32.8 PLS POUNDS PER ACRE.

SWPPP DETAILS

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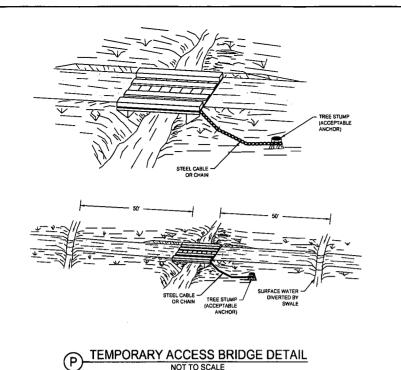
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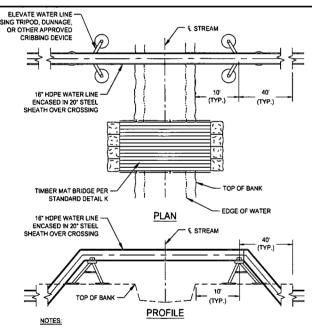
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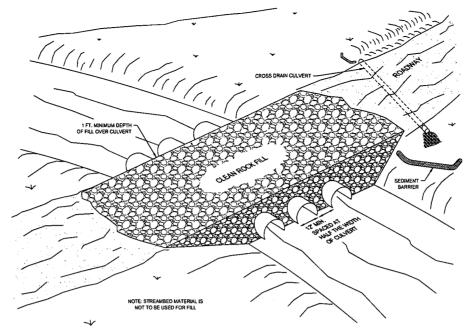


1. THE STRUCTURE SHALL BE LARGE ENOUGH TO HANDLE A 1-YEAR FREQUENCY STORM, 24 HOUR DURATION.



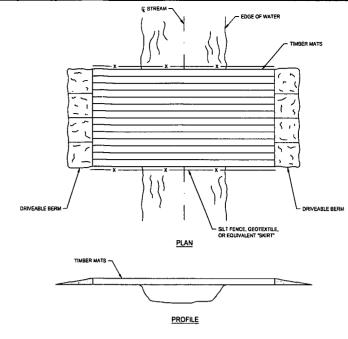
- 1. KEEP ALL VALVES AND PIPE CONNECTIONS OUTSIDE THE FLOODWAY (50 FEET
- FROM TOP OF BANK).
 CRIBBING DEVICE SHALL BE TRIPOD, DUNNAGE, OR APPROVED EQUAL.
 PLACE CRIBBING DEVICE A MINIMUM OF 10 FEET FROM TOP OF BANK TO CENTER OF CRIBBING DEVICE.
- WATER LINE SHALL REMAIN ELEVATED A MINIMUM OF 50' FROM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

CRIBBING NOT TO SCALE



DETAIL FIGURE II-9: STREAM CROSSING -TEMPORARY, WITH CULVERT

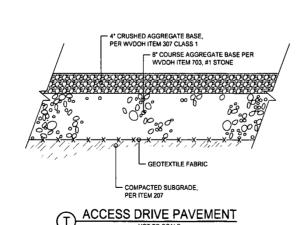
- 1. THE STRUCTURE SHALL BE LARGE ENOUGH TO HANDLE A 1-YEAR FREQUENCY STORM, 24 HOUR DURATION,
- 2. DEPTH OF COVER OVER CULVERTS SHALL BE 1/2. THE DIAMETER OF THE CULVERTS USED OR 12 INCHES, WHICHEVER IS GREATER.
- 3. MULTI-CULVERTS SHOULD BE INSTALLED WITH SPACES BETWEEN THEM, EQUAL TO 1/2 THE PIPE DIAMETER
- 4. LOW WATER CROSSINGS MAY BE USED, IF PROTECTED WHEN OVERFLOWING OCCURS. THIS CAN BE ACCOMPLISHED BY USING ROCK AND CONCRETE.
- 5. CROSS CRIBBING 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 STONED FOR APPROXIMATELY 100 FEET.
- 7. DITCH LINE EXIT POINTS AT STREAM CROSSINGS MUST HAVE SEDIMENT CONTROLS.



(R) STANDARD CONSTRUCTION DETAIL -

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 BAGS, DRIVABLE BERMS, OR OTHER APPROPRIATE EROSION CONTROL MAY BE USED INTERCHANGEABLY
- 5. A "SKIRT" FORMED OF SILT FENCE, GEOTEXTILE FABRIC, OR EQUIVALENT SHALL BE PLACED ON THE SIDES AND BOTTOM OF THE BRIDGE TO TRAP SEDIMENT AS NECESSARY.
- 6. INDIVIDUAL MATS SHALL BE ANCHORED AND BUTTED TIGHTLY TO MINIMIZE THE INTRODUCTION OF SEDIMENT TO THE WATERBODY



NOTES: TOPSOIL REPLACEMENT XISTING TOPS - EXISTING SUITABLE SUBSOIL REPLACEMENT UTILITY TRENCH BEDDING IF ROCK EXCAVATION REQUIRED BOTTOM OF TRENCH — ROCK EXCAVATION (U) TRENCH DETAIL

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 DUTNING 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 SEDIMEN CONTROL BMP's AND IMPLEMENT STRUCTURAL POST CONSTRUCTION STORMWATER BMP's (PERMANENT WATERBARS) THAT MAY BE REQUIRED. SEE UTILITY LINE INSTALLATION REQUIREMENTS NOTES FOR LIMITS OF WORK.

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.

BACKFILL AREAS EXCAVATED FOR THE INSTALLATION OF UTILITIES WITH SUITABLE EXCAVATED MATERIAL. IN AREAS WHERE TOPSOIL HAS BEEN SEGREGATED, THE SUBSOIL SHALL BE REPLACED FIRST, FOLLOWED BY THE TOPSOIL BEING SPREAD OVER THE AREA FROM WHICH IT WAS REMOVED. FINAL GRADES SHALL BE THE SAME AS PRE-CONSTRUCTION CONTOURS.

AFTER CONSTRUCTION IS COMPLETE, FINAL SEEDING AND MULCHING OF ALL DISTURBED AREAS NOT YET STABILIZED SHALL BE COMPLETED. INSTALL EROSION CONTROL BLANKETING ON SLOPES WHICH ARE 3:1 OR STEEPER. STABILIZE AND SEED ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS.

SUMMARY OF MATERIALS REFERENCE DRAWINGS REVISIONS **IFC** NO. DATE 07/24/2014 DATE

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ORANGE TO BLUE WATER LINE

SWPPP DETAILS

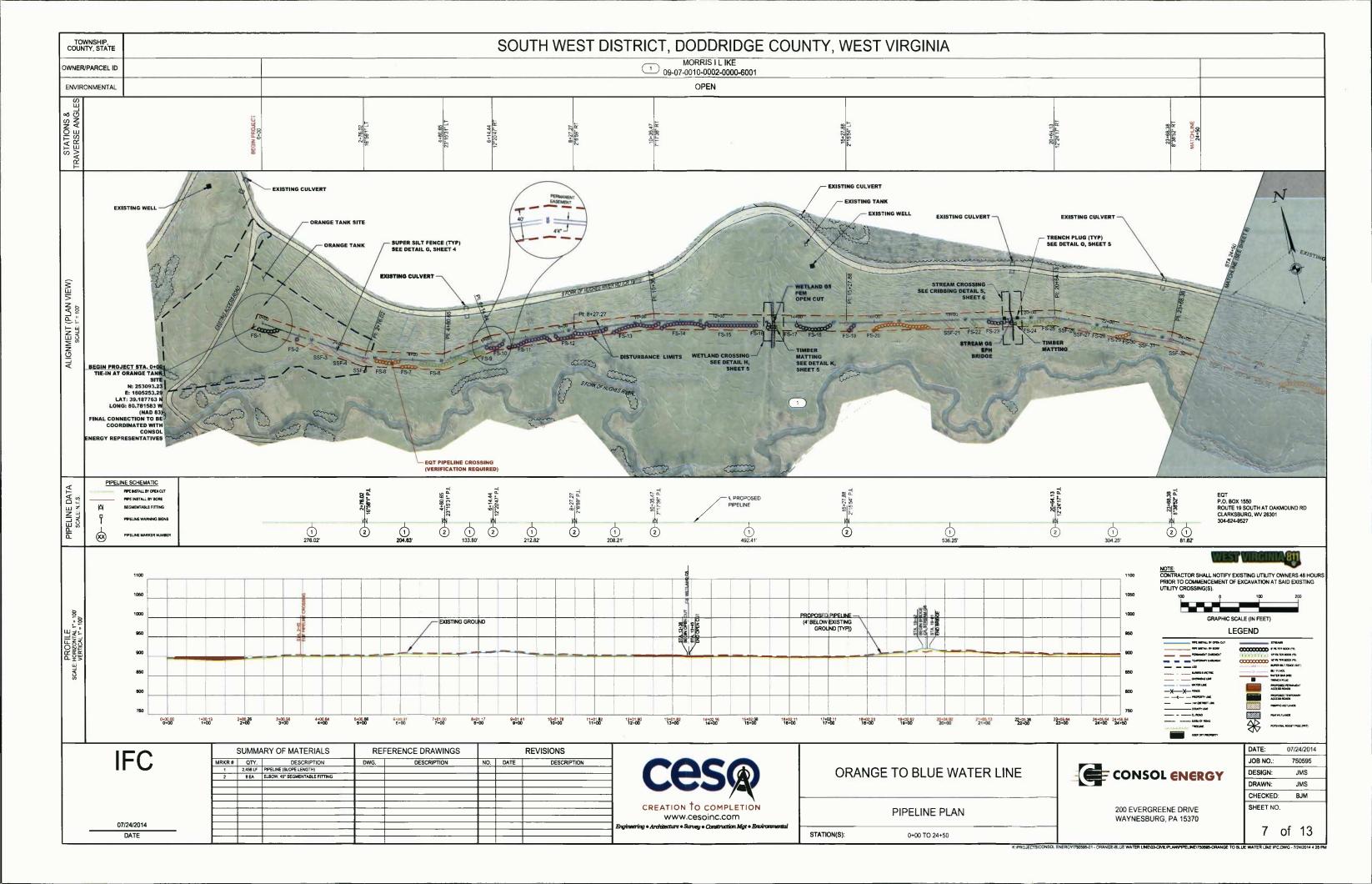
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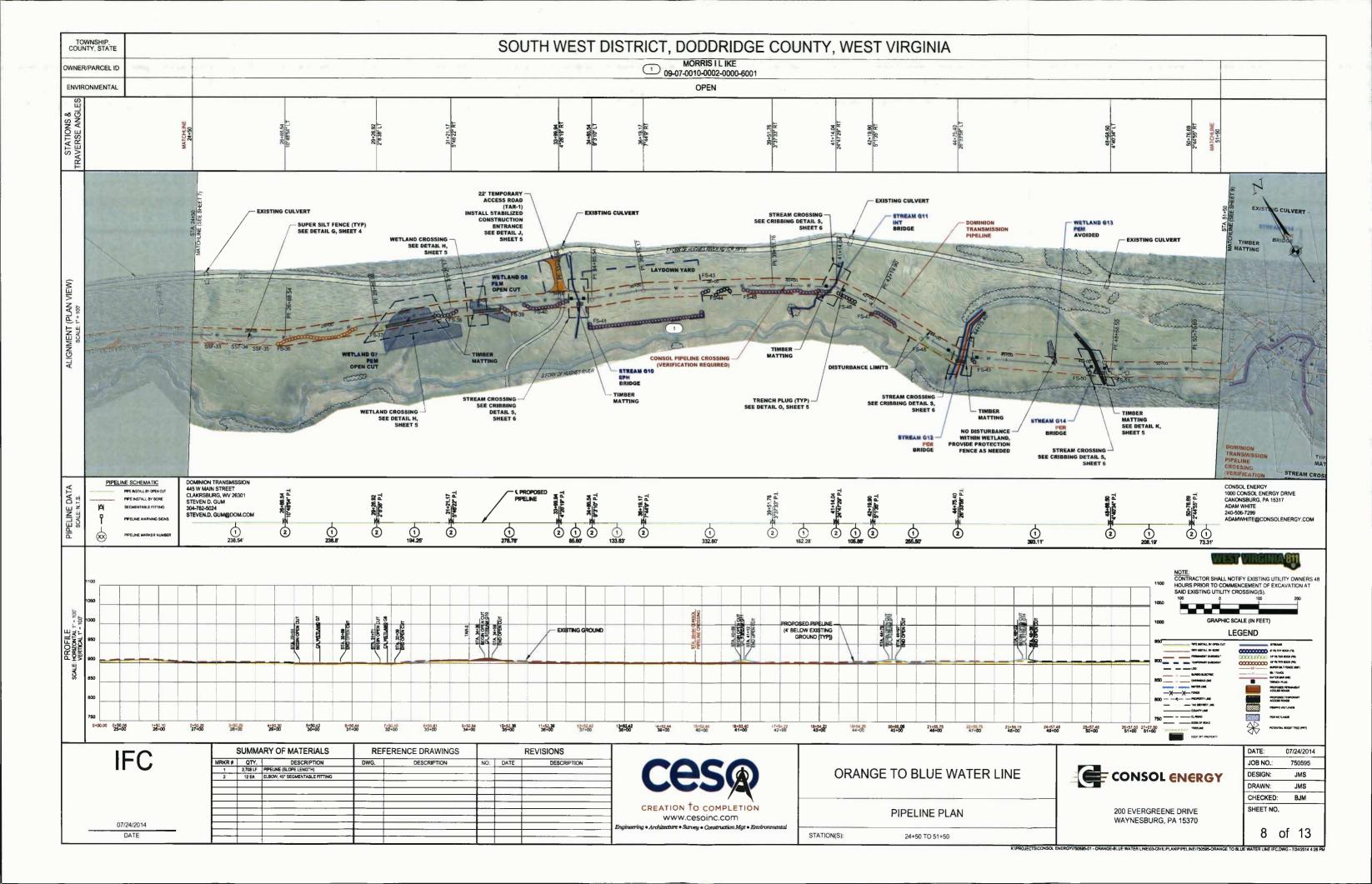
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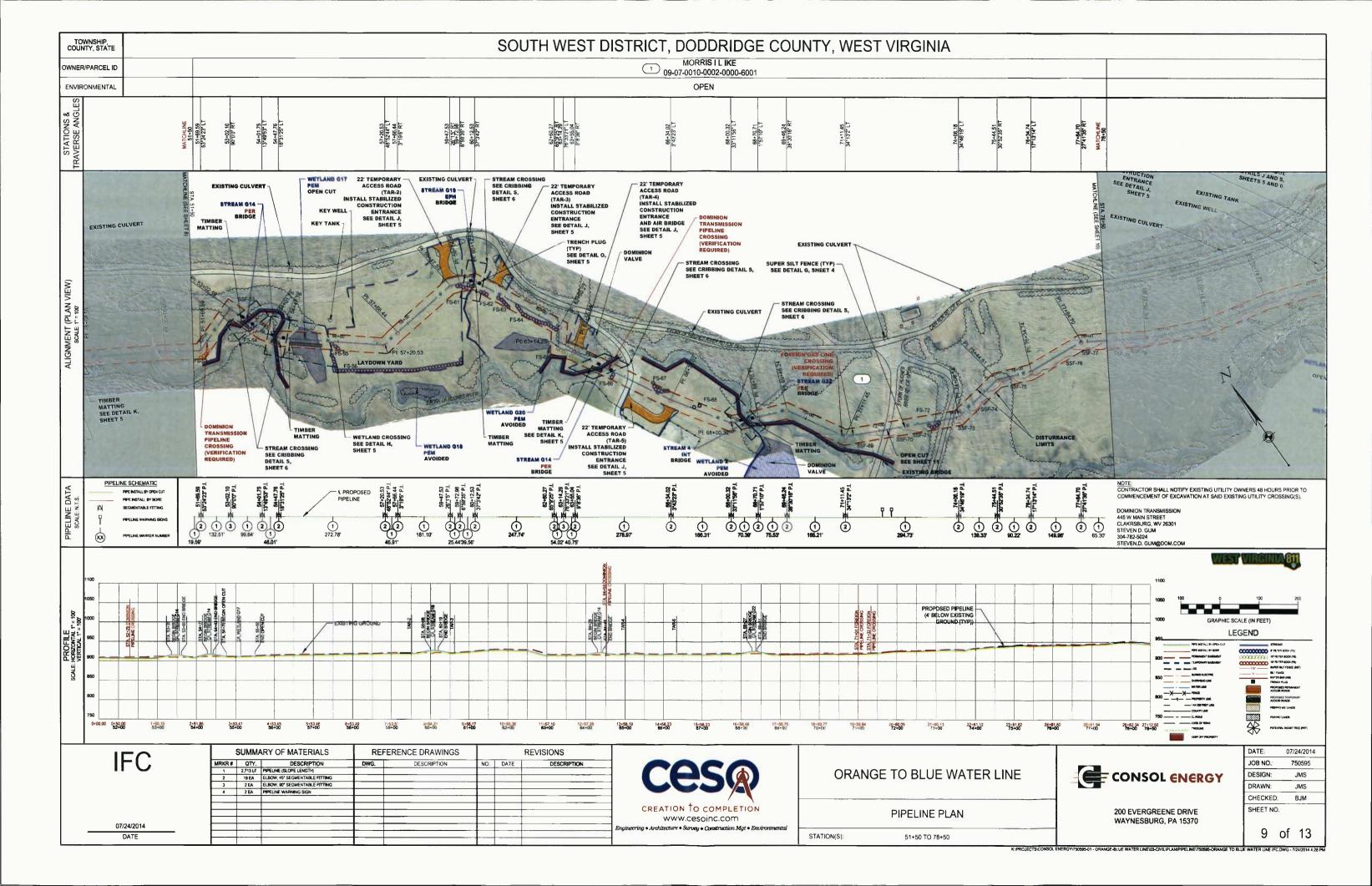
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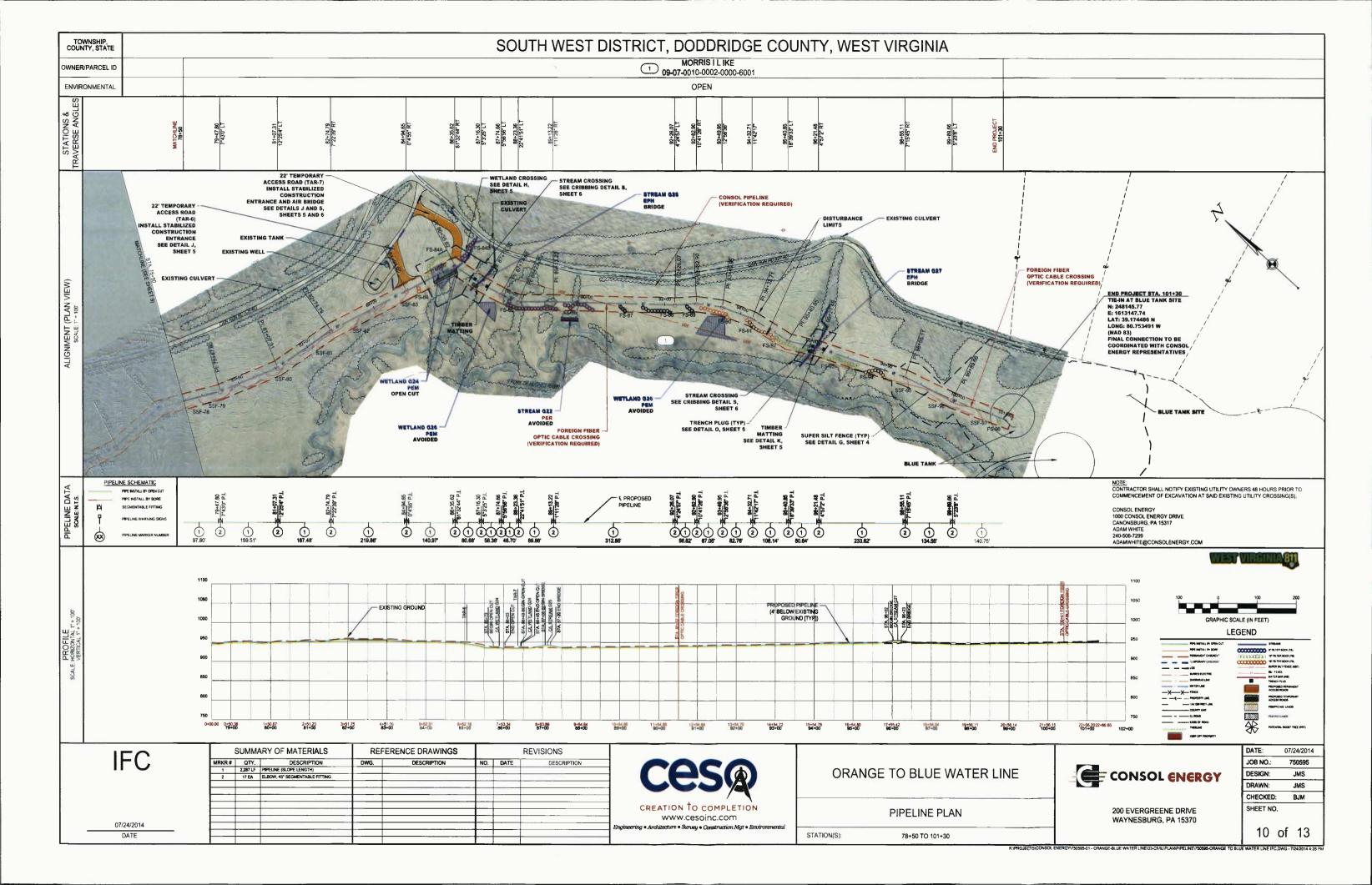
6 of 13

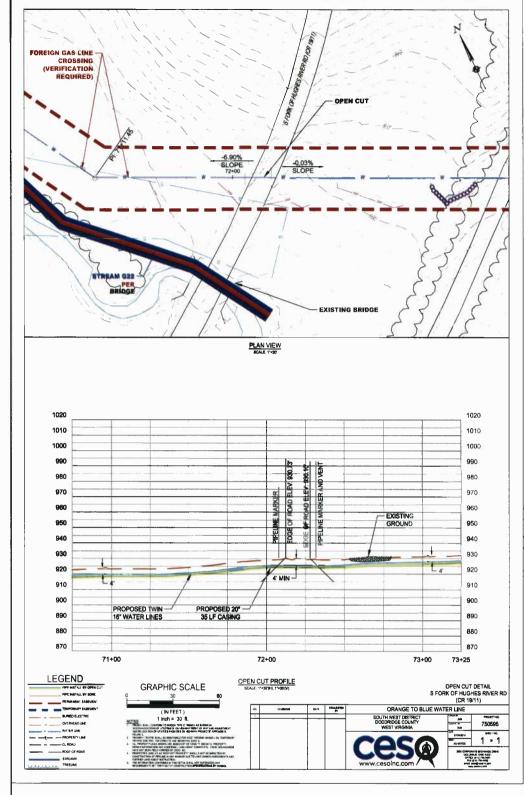
07/24/2014

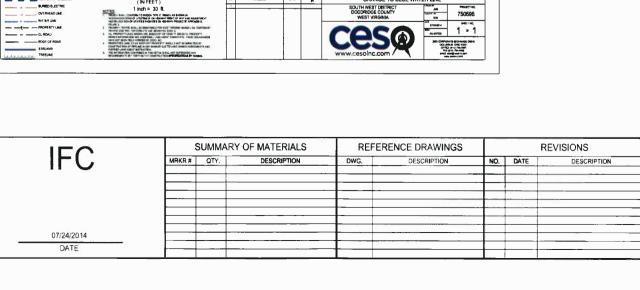














ORANGE TO BLUE WATER LINE

ROAD CROSSING DETAILS

STATION(S):

CONSOL ENERGY	1
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200 EVERGREENE DRIVE WAYNESBURG, PA 15370

	_		
DATE:	07/	24/2014	
JOB NO.:	7	50595	
DESIGN:		JMS	_
DRAWN:		JMS	
CHECKE) :	ВЈМ	
SHEET NO	o .		
11	of	13	

ORANGE -BLUE FILTER SOCK/SILT FENCE SIZING CHART*							
SOCK#	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (fl.)	SOCK LENGTH (ft.)	APPROXIMATE LOCATION	
FS-1	8	5	251	400	58	0+00	
FS-2	12	7	252	250	. 15	1+00	
SSF-3	24	18	160	260	66	1+50	
SSF-4	24	18	141	260	74	2+00	
SSF-5	24	18	141	260	55	2+50	
FS-6	18	19	129	140	70	4+00	
FS-7	18	19	131	140	48	4+50	
FS-8	12	20	124	125	134	4+90	
FS-9	12	22	90	100	40	5+50	
FS-10	8	20	88	100	53	6+00	
FS-11	8	25	80	80	125	7+00	
FS-12	8	20	100	100	152	8+00	
FS-13	8	20	98	100	136	10+00	
FS-14	8	20	99	100	123	11+00	
FS-15	8	5	190	400	136	12+40	
FS-16	12	9	230	250	22	13+30	
FS-17	12	9	230	250	24	13+60	
FS-18	8	7	180	200	99	14+50	
FS-19	12	11	159	170	31	15+50	
FS-20	18	19	130	140	159	17+00	
SSF-21	24	19	155	260	24	18+00	
FS-22	12	16	125	125	31	18+50	
FS-23	В	14	128	140	59	19+15	
FS-24	12	17	120	125	44	19+75	
FS-25	12	18	110	125	92	20+25	
SSF-26	24	22	121	200	30	21+00	
SSF-27	24	24	125	200	38	21+35	
FS-28	12	20	125	125	60	21+80	
F\$-29	18	21	140	140	41	22+50	
SSF-30	24	22	145	200	24	22+80	
SSF-31	24	25	125	200	109	23+10	
SSF-32	24	24	151	200	79	24+10	

ORANGE -BLUE FILTER SOCK/SILT FENCE SIZING CHART*							
SOCK#	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (fl.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (fl.)	APPROXIMATE LOCATION	
SSF-33	24	18	154	260	81	25+00	
SSF-34	24	19	150	260	66	25+75	
SSF-35	24	17	175	260	33	26+15	
FS-36	18	20	135	140	219	28+00	
FS-37	12	37	75	75	27	29+50	
FS-38	8	13	131	140	68	31+00	
FS-39	8	9	115	200	32	32+50	
FS-40	8	7	75	200	123	33+50	
FS-41	8	4	120	400	312	36+00	
FS-43	8	15	100	140	31	37+00	
FS-44	8	15	114	140	56	38+15	
FS-45	8	7	101	200	214	40+00	
FS-46	8	2	130	600	61	41+50	
FS-47	8	4	145	400	84	42+50	
FS-48	12	10	220	250	125	44+25	
FS-49	8	3	120	400	29	45+25	
FS-50	8	5	190	400	22	48+00	
FS-51	12	10	245	250	24	48+75	
FS-52	18	12	190	200	35	52+00	
SSF-53	24	24	115	200	38	53+00	
FS-54	8	7	165	200	23	53+60	
FS-55	8	5	225	400	30	56+00	
FS-56	8	3	242	400	382	57+00	
FS-61	8	5	85	400	40	59+50	
FS-62	8	16	75	100	29	60+50	
FS-63	8	23	65	80	45	61+00	
FS-64	8	22	45	80	132	62+00	
FS-65	12	25	95	100	93	63+50	
FS-66	8	3	195	400	18	64+50	

	ORANGE -BLUE FILTER SOCK/SILT FENCE SIZING CHART*						
F6-68 8 4 125 400 31 67-100 SSF-40 24 20 178 260 19 71-50 SSF-70 24 19 155 260 67 72-40 SSF-71 18 12 1155 200 48 72-75 FS-72 8 13 135 140 41 73-23 SSF-74 24 14 265 325 25 74-40 SSF-75 24 13 234 325 70 74-50 SSF-76 24 12 215 325 104 75-50 SSF-77 24 18 182 260 152 77-40 SSF-77 24 24 135 200 81 78-50 SSF-78 24 23 154 200 42 78-50 SSF-79 24 23 154 200 42 78-50 SSF-78 </td <td>SOCK#</td> <td>SIZE (in.)</td> <td>SLOPE (%)</td> <td>ACTUAL SLOPE LENGTH (ft.)</td> <td>MAX SLOPE LENGTH (ft.)</td> <td>SOCK LENGTH (fL)</td> <td>APPROXIMATE LOCATION</td>	SOCK#	SIZE (in.)	SLOPE (%)	ACTUAL SLOPE LENGTH (ft.)	MAX SLOPE LENGTH (ft.)	SOCK LENGTH (fL)	APPROXIMATE LOCATION
SSF-69 24 20 178 260 19 71+50 SSF-70 24 19 155 260 67 72+00 SSF-71 18 12 155 200 48 72-75 FS-72 8 13 135 140 41 73-25 SSF-74 24 14 265 325 25 74-60 SSF-75 24 13 234 325 70 74-50 SSF-76 24 12 215 325 104 75-50 SSF-77 24 16 182 260 152 77-60 SSF-78 24 22 135 200 61 78-60 SSF-78 24 23 154 200 42 78-50 SSF-79 24 23 155 200 61 78-60 SSF-79 24 23 154 200 147 82-50 SSF-80	FS-67	8	4	135	400	59	66+00
SSF-70 24 19 155 260 67 72-40 SSF-71 18 12 155 200 48 72-75 FS-72 8 13 135 140 41 73-25 SSF-74 24 14 265 325 25 74-60 SSF-75 24 13 234 325 70 74-50 SSF-76 24 12 215 325 104 75-60 SSF-77 24 18 182 260 152 77-90 SSF-78 24 24 135 200 81 78-60 SSF-79 24 23 154 200 42 78-50 SSF-80 24 25 155 200 205 80-90 SSF-81 24 21 148 200 101 81-90 SSF-82 24 19 145 200 147 82-50 SSF-	FS-68	8	4	125	400	31	67+00
SSF-71 18 12 155 200 40 72+75 FS-72 8 13 135 140 41 73-25 SSF-74 24 14 265 325 25 74-40 SSF-75 24 13 234 325 70 74-50 SSF-76 24 12 215 325 104 75-60 SSF-77 24 18 182 260 152 77-40 SSF-78 24 24 135 200 81 76-60 SSF-79 24 23 154 200 42 78-50 SSF-80 24 25 155 200 205 80-40 SSF-81 24 21 148 200 101 81-40 SSF-82 24 19 145 280 147 82-50 SSF-83 24 22 135 200 116 83-50 SSF	SSF-69	24	20	178	260	19	71+50
FS-72 8 13 135 140 41 73-25 SSF-74 24 14 265 325 25 74-00 SSF-75 24 13 234 325 70 74-60 SSF-76 24 12 215 325 104 75-60 SSF-77 24 18 182 260 152 77-60 SSF-78 24 24 135 200 81 78-60 SSF-79 24 23 154 200 42 78-50 SSF-40 24 25 195 200 205 80-60 SSF-41 24 21 148 200 101 81-60 SSF-42 24 19 145 260 147 82-50 SSF-43 24 22 135 200 118 83-50 SSF-84 24 18 165 260 147 84-55 SS	SSF-70	24	19	155	260	67	72+00
SSF-74 24 14 265 325 25 74-00 SSF-75 24 13 234 325 70 74-50 SSF-76 24 12 215 325 104 75-50 SSF-77 24 18 182 260 152 77-00 SSF-78 24 24 135 200 81 78-00 SSF-79 24 23 154 200 42 78-50 SSF-80 24 25 155 200 205 80-00 SSF-81 24 21 148 200 101 81-00 SSF-82 24 19 145 260 147 82-50 SSF-83 24 22 135 200 118 83-50 SSF-84 24 18 165 260 147 84-55 FS-84B 8 2 136 600 68 86-50 FS	SSF-71	18	12	155	200	48	72+75
SSF-75 24 13 234 325 70 74-50 SSF-76 24 12 216 325 104 75-50 SSF-77 24 18 182 260 152 77+00 SSF-78 24 24 135 200 81 78+00 SSF-79 24 23 154 200 42 78+50 SSF-80 24 25 195 200 205 80+00 SSF-81 24 21 148 200 101 81+00 SSF-82 24 19 145 260 147 82+50 SSF-83 24 22 135 200 118 83+50 SSF-84 24 18 165 260 147 84+55 FS-84A 12 17 102 125 110 88+00 FS-84B 8 2 136 600 68 86+50 F	FS-72	8	13	135	140	41	73+25
SSF-76 24 12 215 325 104 75+50 SSF-77 24 18 182 260 152 77+00 SSF-78 24 24 135 200 81 78+00 SSF-79 24 23 154 200 42 78+50 SSF-80 24 25 155 200 205 80+00 SSF-81 24 21 148 200 101 81+00 SSF-82 24 19 145 260 147 82+50 SSF-83 24 22 135 200 118 83+50 SSF-84 24 18 165 260 147 84+55 FS-84A 12 17 102 125 110 86+00 FS-848 6 2 136 600 68 86+50 FS-848 8 15 200 200 24 85+00 FS	SSF-74	24	14	265	325	25	74+00
SSF-77 24 16 162 260 152 77+00 SSF-78 24 24 135 200 81 78+00 SSF-79 24 23 154 200 42 78+50 SSF-80 24 25 155 200 205 80+00 SSF-81 24 21 148 200 101 81+00 SSF-82 24 19 145 260 147 82+50 SSF-83 24 22 135 200 118 83+50 SSF-84 24 16 165 260 147 84+55 FS-84A 12 17 102 125 110 68+00 FS-84B 8 2 138 600 68 86+50 FS-845 18 15 200 200 24 85+00 FS-85 8 3 115 400 150 88+00 FS-8	SSF-75	24	13	234	325	70	74+50
SSF-78 24 24 135 200 81 78+00 SSF-79 24 23 154 200 42 78+50 SSF-80 24 25 155 200 205 80+00 SSF-81 24 21 148 200 101 81+00 SSF-82 24 19 145 260 147 82+50 SSF-83 24 22 135 200 118 83+50 SSF-84 24 18 165 260 147 84+55 SSF-84 24 18 165 260 147 84+55 SSF-84 12 17 102 125 110 88+00 FS-84B 8 2 136 600 68 86+50 FS-85 18 15 200 200 24 85+00 FS-86 8 3 115 400 150 88+00 FS-87	SSF-76	24	12	215	325	104	75+50
SSF-79 24 23 154 200 42 78+50 SSF-80 24 25 155 200 205 80+00 SSF-81 24 21 148 200 101 81+00 SSF-82 24 19 145 260 147 82+50 SSF-83 24 22 135 200 118 83+50 SSF-84 24 18 165 260 147 84+55 FS-84A 12 17 102 125 110 86+00 FS-84B 8 2 138 600 68 86+50 FS-85 18 15 200 200 24 85+00 FS-86 8 3 115 400 150 88+00 FS-87 8 9 90 200 93 90+00 FS-88 8 21 72 80 86 91+75 FS-99	SSF-77	24	18	182	260	152	77+00
SSF-80 24 25 155 200 205 80+00 SSF-81 24 21 148 200 101 81+00 SSF-82 24 19 145 280 147 82+50 SSF-83 24 22 135 200 118 83+50 SSF-84 24 18 165 260 147 84+55 FS-84A 12 17 102 125 110 86+00 FS-84B 8 2 136 800 68 86+50 FS-85 18 15 200 200 24 85+00 FS-86 8 3 115 400 150 88+00 FS-87 8 9 90 200 93 90+00 FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90	SSF-78	24	24	135	200	81	78+00
SSF-81 24 21 148 200 101 81+00 SSF-82 24 19 145 260 147 82+50 SSF-83 24 22 135 200 118 83+50 SSF-84 24 18 165 280 147 84+55 FS-84A 12 17 102 125 110 86+00 FS-84B 8 2 138 600 68 86+50 FS-85 18 15 200 200 24 85+00 FS-86 8 3 115 400 150 88+00 FS-87 8 9 90 200 93 90+00 FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 <t< td=""><td>SSF-79</td><td>24</td><td>23</td><td>154</td><td>200</td><td>42</td><td>78+50</td></t<>	SSF-79	24	23	154	200	42	78+50
SSF-82 24 19 145 260 147 82+50 SSF-83 24 22 135 200 118 83+50 SSF-84 24 18 165 260 147 84+55 FS-84A 12 17 102 125 110 86+00 FS-84B 8 2 136 600 68 86+50 FS-845 18 15 200 200 24 85+00 FS-86 8 3 115 400 150 88+00 FS-87 8 9 90 200 93 90+00 FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93+25 FS-92 <td< td=""><td>SSF-80</td><td>24</td><td>25</td><td>155</td><td>200</td><td>205</td><td>80+00</td></td<>	SSF-80	24	25	155	200	205	80+00
SSF-83 24 22 135 200 118 83+50 SSF-84 24 18 165 280 147 84+55 FS-84A 12 17 102 125 110 88+00 FS-84B 8 2 136 600 68 86+50 FS-85 18 15 200 200 24 85+00 FS-86 8 3 115 400 150 88+00 FS-87 8 9 90 200 93 90+00 FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93+25 FS-92 18 14 183 200 99 94+50 FS-93 12	SSF-81	24	21	148	200	101	81+00
SSF-84 24 18 165 260 147 84+55 FS-84A 12 17 102 125 110 86+00 FS-84B 8 2 136 600 68 86+50 FS-85 18 15 200 200 24 85+00 FS-86 8 3 115 400 150 88+00 FS-87 8 9 90 200 93 90+00 FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93+25 FS-92 18 14 183 200 99 94+50 FS-93 12 8 235 250 96 95+50 FS-94 12 <td>SSF-82</td> <td>24</td> <td>19</td> <td>145</td> <td>260</td> <td>147</td> <td>82+50</td>	SSF-82	24	19	145	260	147	82+50
FS-84A 12 17 102 125 110 86+00 FS-84B 8 2 136 600 68 86+50 FS-85 18 15 200 200 24 85+00 FS-86 8 3 115 400 150 88+00 FS-87 8 9 90 200 93 90+00 FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93+25 FS-92 18 14 183 200 99 94+50 FS-93 12 8 235 250 96 95+50 FS-94 12 7 250 250 119 97+50 FS-95 18	SSF-83	24	22	135	200	118	83+50
FS-84B 8 2 136 600 68 86+50 FS-85 18 15 200 200 24 85+00 FS-86 8 3 115 400 150 88+00 FS-87 8 9 90 200 93 90+00 FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93*25 FS-92 18 14 183 200 99 94+50 FS-93 12 8 235 250 96 95+50 FS-94 12 7 250 250 119 97+00 FS-95 18 13 196 200 69 97+50 SSF-96 24	SSF-84	24	18	165	260	147	84+55
FS-85 18 15 200 200 24 85+00 FS-86 8 3 115 400 150 88+00 FS-87 8 9 90 200 93 90+00 FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93+25 FS-91 18 22 105 110 85 93+25 FS-92 18 14 183 200 99 94+50 FS-93 12 8 235 250 96 95+50 FS-94 12 7 250 250 119 97+00 FS-95 18 13 196 200 69 97+50 SSF-96 24	FS-84A	12	17	102	125	110	86+00
FS-86 8 3 115 400 150 88+00 FS-87 8 9 90 200 93 90+00 FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93+25 FS-91 18 22 105 110 85 93+50 FS-92 18 14 183 200 99 94+50 FS-93 12 8 235 250 96 95+50 FS-94 12 7 250 250 119 97+00 FS-95 18 13 196 200 69 97+50 SSF-96 24 22 174 200 24 98+50	FS-84B	8	2	136	600	68	86+50
FS-87 8 9 90 200 93 90+00 FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93+25 FS-92 18 14 183 200 99 94+50 FS-93 12 8 235 250 96 95+50 FS-94 12 7 250 250 119 97+00 FS-95 18 13 196 200 69 97+50 SSF-96 24 22 174 200 24 98+50	FS-85	18	15	200	200	24	85+00
FS-88 8 15 84 140 31 91+00 FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93+25 FS-92 18 14 183 200 99 94+50 FS-93 12 8 235 250 96 95+50 FS-94 12 7 250 250 119 97+00 FS-95 18 13 196 200 69 97+50 SSF-96 24 22 174 200 24 98+50	FS-86	8	3	115	400	150	88+00
FS-89 8 21 72 80 86 91+75 FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93+25 FS-92 18 14 183 200 99 94+50 FS-93 12 8 235 250 96 95+50 FS-94 12 7 250 250 119 97+00 FS-95 18 13 196 200 69 97+50 SSF-96 24 22 174 200 24 98+50	FS-87	8	9	90	200	93	90+00
FS-90 8 20 90 100 29 92+50 FS-91 18 22 105 110 85 93*25 FS-92 18 14 183 200 99 94+50 FS-93 12 8 235 250 96 95+50 FS-94 12 7 250 250 119 97+00 FS-95 18 13 196 200 69 97+50 SSF-96 24 22 174 200 24 98+50	FS-88	8	15	84	140	31	91+00
FS-91 18 22 105 110 85 93*25 FS-92 18 14 183 200 99 94*50 FS-93 12 8 235 250 96 95*50 FS-94 12 7 250 250 119 97*00 FS-95 18 13 196 200 69 97*50 SSF-96 24 22 174 200 24 98*50	FS-89	8	21	72	80	86	91+75
FS-92 18 14 183 200 99 94+50 FS-93 12 8 235 250 96 95+50 FS-94 12 7 250 250 119 97+00 FS-95 18 13 196 200 69 97+50 SSF-96 24 22 174 200 24 98+50	FS-90	8	20	90	100	29	92+50
FS-93 12 8 235 250 96 95+50 FS-94 12 7 250 250 119 97+00 FS-95 18 13 196 200 69 97+50 SSF-96 24 22 174 200 24 98+50	FS-91	18	22	105	110	85	93+25
FS-94 12 7 250 250 119 97+00 FS-95 18 13 196 200 69 97+50 SSF-96 24 22 174 200 24 98+50	FS-92	18	14	183	200	99	94+50
FS-95 18 13 196 200 69 97+50 SSF-96 24 22 174 200 24 98+50	FS-93	12	8	235	250	96	95+50
SSF-96 24 22 174 200 24 98+50	FS-94	12	7	250	250	119	97+00
	FS-95	18	13	196	200	69	97+50
SSF-97 24 23 180 200 143 100+00	SSF-96	24	22	174	200	24	98+50
	SSF-97	24	23	180	200	143	100+00
SSF-98 24 22 190 200 34 100+50	SSF-98	24	22	190	200	34	100+50
FS-99 12 12 145 170 20 101+00	FS-99	12	12	145	170	20	101+00

"WATER BAR SPACING IS BASED ON THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL TABLE 3.18.1: RIGHT OF WAY DIVERSION SPACING. SOME WATER BARS HAVE BEEN OVER-DESIGNED AT THE DISCRETION OF THE ENGINEER BASED ON EXISTING FIELD CONDITIONS.

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

IFO		SUMMARY	OF MATERIALS	REFE	REFERENCE DRAWINGS		REVISIONS		
IFC	MRKR#	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION	
									
						1			
				-		\bot			
07/24/2014					•	\pm			
DATE									



ORANGE TO BLUE WATER LINE

EROSION AND SEDIMENT CONTROL TABLES



DRAWN: JMS CHECKED: BJM SHEET NO. 200 EVERGREENE DRIVE WAYNESBURG, PA 15370

12 of 13

07/24/2014

750595

JMS

JOB NO.:

DESIGN:

ВМР	UNITS	QUANTITY
B* COMPOST FILTER SOCK	FT	3,297
12" COMPOST FILTER SOCK	FT	1,070
18" COMPOST FILTER SOCK	FT	849
TRENCH PLUG	EA	24
TOB TO TOB (PIPELINE CONST.)	FT	57
SUPER SILT FENCE	FT	2,153
STABILIZED CONSTRUCTION ENTRANCE	EA	7
TIMBER MATS (10 FT WIDTH, ASSUME 8 FT SECTION LENGTHS)	LF	672

	STREAM CR	OSSINGS - PII	PELINE	
STREAM ID	тов	ТОВ	LENGTH (LF)	TIMBER MAT LENGTH (LF)
STREAM G6	19+53	19+55	3	16
STREAM G10	34+50	34+52	2	16
STREAM G11	41+07	41+09	3	16
STREAM G12	44+79	44+97	7	32
STREAM G14	48+23	48+41	7	32
STREAM G14	53+35	53+53	7	32
STREAM G14	54+17	54+35	7	32
STREAM G19	59+99	60+01	3	16
STREAM G14	64+19	64+37	7	32
STREAM G22	68+24	68+26	7	32
STREAM G25	87+00	87+02	2	16
STREAM G27	96+02	96+04	2	16
		TOTAL:	57	288

WETLAND CROSSINGS - PIPELINE							
WETLAND ID	EDGE	EDGE	LENGTH (LF)	TIMBER MAT LENGTH (LF)			
WETLAND G5	13+38	13+45	7	16			
WETLAND G7	29+64	30+69	105	136			
WETLAND G8	31+71	32+09	38	72			
WETLAND G17	54+65	55+39	74	88			
WETLAND G24	85+61	86+33	72	72			
		TOTAL:	296	384			

IEC	SUMMARY OF MATERIALS		REFERENCE DRAWINGS			REVISIONS		
IFC	MRKR#	QTY.	DESCRIPTION	DWG.	DESCRIPTION	NO.	DATE	DESCRIPTION
						=		
				+		+		
			······································	1		\vdash		
07/24/2014						士		
DATE						-		



ORANGE TO BLUE WATER LINE

QUANTITIES

CONSOL ENERGY

200 EVERGREENE DRIVE WAYNESBURG, PA 15370

DATE:	07/24/2014
JOB NO.:	750595
DESIGN:	JMS
DRAWN:	JMS
CHECKED:	ВЈМ
SHEET NO.	
13 (of 13

Due to the condition of the original document(s), the following images may be of poor quality.



Attach roject Location-Adjacent and rifected Landowners

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

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

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

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

TAX ID: 09-07-0011-0005-0000-3001

NAME OF SURFACE OWNER/OWNERS: May Revocable Trust

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

ADDRESS OF SURFACE OWNER/OWNERS: 641 Scott Street, Port Townsend, WA 98368



DIVISION OF NATURAL RESOURCES

324 Fourth Avenue, Room 200 South Charleston WV 25303-1228 TDD (304) 558-1439 TDD 1-800-354-6087 Fax (304) 558-6048 Telephone (304) 558-3225

Frank Jezioro

Director

Earl Ray Tomblin Governor

September 24, 2014
Division of Natural Resources
RIGHT OF ENTRY

Re: L

LS-14-VI/09-1144

CNX Gas Company, LLC Adam White c/o CESO, Inc. 800 Bursca Drive Suite 804 Bridgeville, PA 15017-

Dear Mr. White:

The Division of Natural Resources hereby grants to you for a period of ten (10) years from the date hereof, a Right of Entry for the purpose of a timber mat crossing (Orange-Blue Waterline) at twelve (12) separate crossings along the South Fork Hughes River and unnamed tributaries of the South Fork Hughes River near Porto Rico in Doddridge County, West Virginia.

This Right of Entry is subject to the following terms and conditions:

- 1. No in stream work during the fish-spawning season (April 1-June 30).
- 2. Work should be completed as quickly as possible during low flows in designated work areas only.
- 3. Any streambed disturbance should be restricted to the immediate area. In stream use of equipment should be kept to a minimum.
- 4. All shore areas disturbed by this operation must be reshaped, seeded and mulched immediately upon completion of work. The prompt establishment of vegetative cover will reduce future damage from high water levels.
- 5. Green concrete must not be put in the stream (highly toxic to aquatic life).
- 6. Guidance should be obtained from NRCS (formerly SCS) and a registered engineer for the design and construction. Must allow for passage of at least ten-year year flood flow.
- 7. Best management practices should be followed; measures such as hay bales must be used to reduce downstream siltation.
- 8. Applicant is responsible for removing debris from in and around the installation periodically to prevent stream flow obstruction.

CNX Gas Company, LLC LS-14-VI/09-1144 Page 2 September 24, 2014

- Durable head walls of logs, crossties, rock, or concrete shall be constructed at both the upstream and downstream ends of crossing to prevent erosion of fill material into the stream.
- 10. Bridge installation should not impede passage of recreational water craft. Water craft must be able to pass through or over the structure, whichever the applicant prefers.
- 11. The State's issuance of this Right-of-Entry does not provide for the applicant to work outside the requested boundaries nor does the State assume any liability for the applicant's/landowner's construction activities. By accepting this Right-of-Entry, the applicant/landowner assumes liability for any/all damages caused by this activity to both upstream and downstream landowners.
- 12. A 404 permit may be required from the U.S. Army Corps of Engineers. You may call them at 304-529-5710 or 412-395-7155.

Guidelines of Best Management Practices for Sediment and Erosion Control as outlined by the Section of Water Resources, Division of Environmental Protection must be followed. Copies of those guidelines are available from the Section of Water Resources, Telephone No. (304) 926-0440.

The issuance of this Right of Entry by the Division of Natural Resources does not preclude the necessity for you to obtain a permit from the U.S. Corps of Engineers District Office, Permit Section, or any other state or federal permits which may be required by law, nor does this Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your payment in the amount of \$1200.00 is now due and payable to the Division of Natural Resources covering the first year's annual fee of this agreement. You must notify the Division in writing with this installation has been removed. Your agreement will be effective upon receipt of your payment in full.

Sincerely,

Joe V Scarberry, Supervisor Office of Land and Streams

JTS:cb

pc: DNR Fish Biologist

Jeremy Bandy, Environmental Enforcement

DNR Conservation Officers



DIVISION OF NATURAL RESOURCES 324 Fourth Avenue, Room 200 South Charleston WV 25303-1228 TDD (304) 558-1439 TDD 1-800-354-6087 Fax (304) 558-6048

Earl Ray Tomblin

Governor

Frank Jezioro

Director

September 26, 2014

Telephone (304) 558-3225

Division of Natural Resources
LICENSE AND RIGHT OF ENTRY

Re: P-14-VI/09-1145

CNX Gas Company, LLC Adam White c/o CESO, Inc. 800 Bursca Drive Suite 804 Bridgeville, PA 15017-

Dear Mr. White:

The Division of Natural Resources hereby grants to you for a term of ten (10) years, from the date hereof, a License and Right of Entry to construct, replace, cover, repair, operate, maintain, use and remove two (2) sixteen inch (16") HDPE pipelines (Orange-Blue Waterline) at twelve (12) separate crossings along the South Fork Hughes River and unnamed tributaries of the South Fork Hughes River, Southwest District, Doddridge County, West Virginia, as shown located and highlighted in red on the map attached hereto as Exhibit A - B.

This License and Right of Entry is subject to the following terms and conditions:

High Quality Streams (HQS) as listed in the West Virginia Division of Natural Resources High Quality Stream Sixth Edition published in 2001 and for any trout streams and direct tributaries of trout streams:

Directional boring is the only method permitted during the fish spawning season.
 Fish spawning season for warmwater streams runs from April 1st through June 30th.
 Trout spawning season runs from October 1st through April 30th.

 Other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used outside of spawning seasons.

 Each crossing that utilizes dry ditch methods must be completed in 2 consecutive work days.

Non-high quality stream:

 Directional boring or other dry ditch methods (pump around, flume or cofferdam) as described in WVDEP water resources manual (published 2006) on page 3.21-4 may be used at all times during fish spawning season from April 1st through June 30th. This eliminates the need for spawning season restrictions. CNX Gas Company, LLC P-14-VI/09-1145 Page 2 September 26, 2014

- Crossings using methods other than directional boring. Must be completed in 1 work day.
- Only ephemeral/intermittent streams that are dry can be trenched.

Bank Stabilization

All bank stabilization projects must begin immediately upon completion of utility line crossing and be completed within 24 hours of completion of utility line crossing.

Freshwater Mussels

Mussel surveys on streams with known US Fish and Wildlife listed or candidate endangered species will be required if directional boring is not an option. Contact Janet Clayton of the WVDNR Wildlife Diversity Program for information concerning mussels at 304-637-0245.

For further assistance, contact the appropriate WVDNR District Fisheries Biologist. District 1 304-825-6787 District 2 304-822-3551 District 3 304-924-6211 District 4 304-256-6947 District 5 304-675-0871 District 6 304-420-4550

The issuance of this License and Right of Entry by the Division of Natural Resources does not preclude the necessity to obtain a permit from the Corps of Engineers or any other state or federal permits which may be required by law, nor does this License and Right of Entry negate the need to comply with the West Virginia Water Pollution Control Act and/or the State Environmental Quality Board's administrative regulations, applicant is also responsible for determining if the proposed activity is located within an identified flood plain and it is the applicant's responsibility for contacting the local governmental agency in charge of that program and obtaining a flood plain development permit for it. This License and Right of Entry does not grant any rights or privileges, or permission to enter upon or to cross the property of any other person, nor is permission granted to remove any material that lies upon the property of any other persons. Work should be completed in as brief a period as possible and within one year from the date of this letter. In the event you fail or refuse to comply with any of the terms or conditions herein, this License and Right of Entry will be canceled and considered null and void and the Division will reject further applications.

Your check in the amount of \$5400.00 is now due and payable to the Division of Natural Resources covering the (10) ten-year fee of this agreement. Your agreement will be effective upon receipt of your payment in full.

Sincerely,

Joe T Scarberry, Supervisor Office of Land and Streams

JTS:cb

attachment

pc: DNR Fish Biologist

Jeremy Bandy, Environmental Enforcement

DNR Conservation Officers



Edwin Wriston < doddridgecountyfpm@gmail.com>

Floodplain Permit Application Status- Orange-Blue Waterline

1 message

Natalie Hooton hooton@cesoinc.com To: Edwin Wriston <doddridgecountyfpm@gmail.com> Wed, Oct 15, 2014 at 8:08 AM

Good morning Mr. Wriston.

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

Once all regulatory letters of approval for our additional projects (Meathouse-OX11, Red-Orange Waterline, EQT-OX11, and Sherwood South) have been received, I will forward them to you for Doddridge County floodplain permit approval.

Thank you for your time and assistance.

Natalie Hooton



CESO, Inc.

800 Bursca Dr. Suite 804

Bridgeville, PA 15017

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

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

From: Edwin Wriston [mailto:doddridgecountyfpm@gmail.com]

Sent: Thursday, October 02, 2014 12:36 PM

To: Natalie Hooton Cc: Andrew Longenecker

Subject: Re: Floodplain Permit Application Status

Natalie,

In order to issue final approval for these projects, we need to have the approval letters from DEP, USACE, WV Fish & Wildlife, etc. on file. All other regulatory agencies must give approval before we can issue a floodplain permit.

We do not need copies of the entire correspondence or applications to the additional regulatory agencies, just a copy of their approval letters. You may email those as attachments, or send us hard copies via normal delivery.

If you can get me copies of the approval letters for the projects, I can have those approved and announced as such at the next Commission meeting, scheduled for Tuesday (Oct 7).

If you have any further questions, please do not hesitate to ask.

Respectfully,

On Fri, Sep 26, 2014 at 12:28 PM, Natalie Hooton hooton@cesoinc.com wrote:

Good afternoon Mr. Wriston. We spoke on the phone earlier today regarding my request for an update on the status of our permit applications. Could you please let me know the status of the following projects?

- 1. Meathouse-OX11 Submitted 7/31
- 2. Red to Orange Submitted 07/29
- 3. Orange to Blue Submitted 07/29
- 4. EQT-OX11 Submitted 07/28

Please feel free to call me on my cell phone(412.639.2231) or contact me at this email address with any questions or concerns.

Thank you for your time and assistance. Have a great weekend.

Natalie Hooton



CESO, Inc.

800 Bursca Dr. Suite 804

Bridgeville, PA 15017

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

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

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Edwin L. "Bo" Wriston, Floodplain Manager

Doddridge County Commission

118 East Court Street

West Union, WV 26456

Work Phone: 1-304-873-2631

Mobile Phone: 1-304-629-3735

Fax: 1-304-873-1840

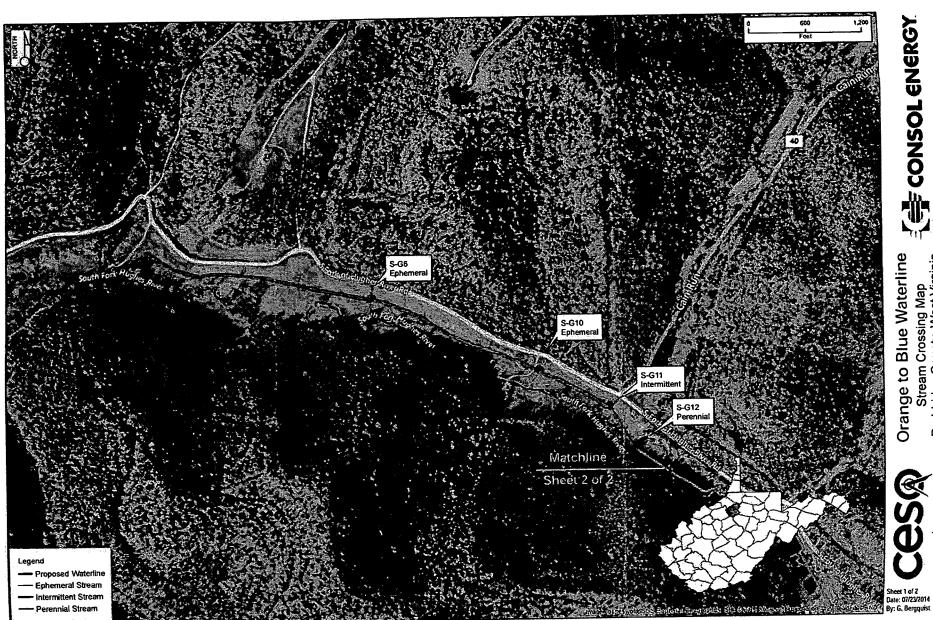
doddridgecountyfpm@gmail.com

www.doddridgecounty.wv.gov

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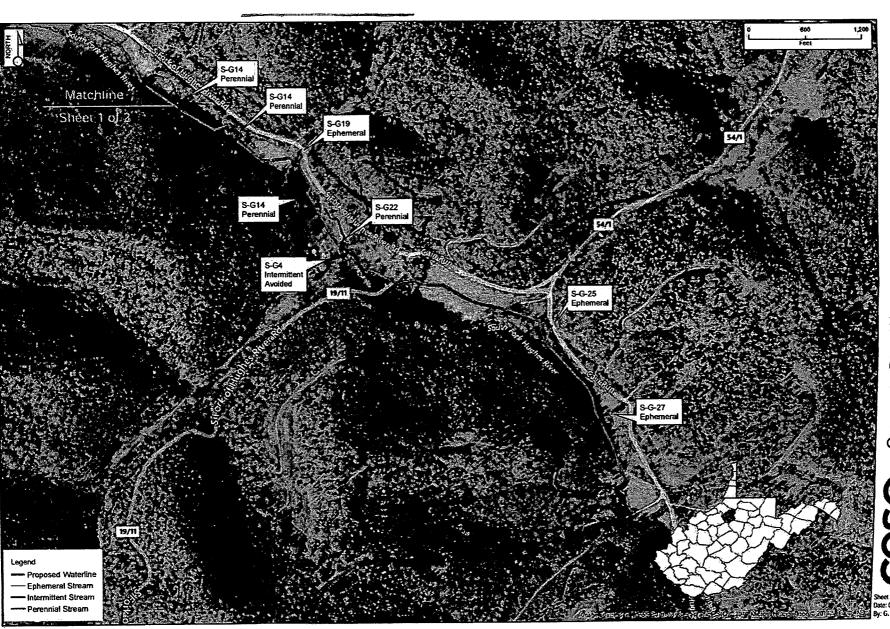
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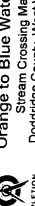
- Orange-Blue_WVDEP Approval Permit #WVR310354.pdf 62K
- Orange-Blue_USACE_Approval.pdf 605K
- Orange-Blue_WVDNR_Response.pdf 75K
- Orange-Blue_RightofEntry_WVDNR_LS-14-VI_09-1144.pdf
- Orange-Blue_Stream Activity_LicenseRightofEntry_WVDNR_P-14-VI_09-1145.pdf
- Oran. 442K Orange-Blue_USFWS_Response.pdf





Orange to Blue Waterline Stream Crossing Map Doddridge County, West Virginia











DEPARTMENT OF THE ARMY

HUNTINGTON DISTRICT, CORPS OF ENGINEERS 502 EIGHTH STREET HUNTINGTON, WEST VIRGINIA 25701-2070

October 8, 2014

Regulatory Division Energy Resource Branch

LRH-2014-761-South Fork Hughes River-OHR

Mr. Adam White CNX Gas, LLC One Energy Drive Post Office Box 1248 Jane Lew, WV 26378

REPLY TO

Dear Mr. White:

I refer to the Pre-Construction Notification (PCN) submitted on your behalf by CESO, Inc., received in this office on July 29, 2014 and additional information received on August 9, 2014 and September 29, 2014. You have requested authorization to discharge dredged and/or fill material into waters of the United States (U.S.) in conjunction with the construction of the Orange to Blue Waterline Project. The project will include the installation of approximately 1.94 miles of twin 16-inch waterlines to connect the proposed Orange Water Storage Tank to the proposed Blue Water Storage Tank near Porto Rico, Doddridge County, West Virginia. The installation of the waterlines will require the temporary discharge of dredged and/or fill material into six (6) palustrine emergent wetlands adjacent to tributaries to the South Fork Hughes River, a tributary of the Ohio River, a traditionally navigable water of the U.S.

The United States Army Corps of Engineers (Corps) authority to regulate waters of the U.S. is based on the definitions and limits of jurisdiction contained in 33 CFR 328 and 33 CFR 329. Section 404 of the Clean Water Act (Section 404) requires a Department of the Army (DA) permit be obtained prior to discharging dredged or fill material into waters of the U.S., including wetlands. Section 10 of the Rivers and Harbors Act of 1899 (Section 10) requires a DA permit be obtained for any work in, on, over or under a navigable water.

Based on a review of the aquatic resources in the PCN submittal, twelve (12) stream channels totaling 3,341 linear feet and ten (10) wetlands totaling 1.47 acres are located within the Area of Interest (AOI) as indicated in Table 1, which is attached to the PJD form. The on-site aquatic resources may be waters of the U.S. in accordance with the Regulatory Guidance Letter for Jurisdictional Determinations (JDs) issued by the Corps on June 26, 2008 (Regulatory Guidance Letter NO. 08-02). As indicated in the guidance, this Preliminary Jurisdictional Determination (PJD) is non-binding and cannot be appealed (33 CFR 331.2) and only provides a written indication that waters of the U.S. may be present on-site.

You have declined to exercise the option to obtain an approved JD in this instance and at this time. However, for the purposes of discharges of fill into waters of the U.S., compensatory mitigation, and aquatic resource protection measures for activities which require authorization from this office, the streams referenced above will be evaluated as if they were waters of the U.S.

Enclosed please find two (2) copies of the PJD form. If you agree with the findings of this PJD and understand your options regarding the same, please sign and date one copy of the PJD form and return it to this office within thirty (30) days of receipt of this letter. You should submit the signed copy to the following address:

United States Army Corps of Engineers
Huntington District
Attn: Energy Resource Branch
502 8th Street
Huntington, WV 25701

You have requested authorization to discharge fill material into waters of the U.S. in conjunction with the installation of twin 16-inch High Density Polyethylene (HDPE) waterlines into six (6) palustrine emergent wetland utilizing the open trench method. The excavation of the trench and subsequent installation of the twin waterlines will result in the temporary discharge of dredged material into 0.23 acre of six (6) palustrine emergent wetlands within the project limits. Upon completion of the installation of the waterlines, the temporarily affected wetlands will be restored to their pre-disturbance contours and elevations. In addition, twelve (12) streams, including six (6) crossings of South Fork Hughes River, will be crossed via aerial crossings (cribbing with timber mat bridges). The cribbing devices will be installed on either end of the stream crossing at a minimum of ten (10) feet from the top of bank to the center of the cribbing bank and will be above the 25-year storm event elevation. Additionally, temporary access roads will cross streams using timber mat bridges that will extend from top of each bank. The installation of the aerial crossings and timber mat bridges will not result in the discharge of fill material into waters of the U.S. and therefore will not require authorization from this office.

Based on the information provided in the permit application, it has been determined the discharge of dredged and/or fill material into waters of the U.S., to facilitate the installation of 1.94 miles of twin 16-inch HDPE waterlines meets the criteria for authorization under Nationwide Permit (NWP) #12 (enclosed) under the February 21, 2012 Federal Register, Notice of Reissuance of NWPs (77 FR 10184) provided you comply with all terms and conditions of the enclosed material. A copy of this NWP can be found on our website at http://www.lrh.usace.army.mil/Missions/Regulatory.aspx. Please note that you must comply with all applicable terms and conditions of the enclosed material and the attached special conditions for the authorizations to be valid.

In view of the above, your utility line activities project is authorized subject to the terms and conditions of the enclosed material, including the enclosed special conditions. It is your responsibility to ensure that your work conforms to all of the environmental management conditions listed within the enclosed material. Please be aware this NWP verification does not obviate the requirement to obtain any state or local assent required by law for the activities.

A copy of this NWP and verification letter must be supplied to your project engineer responsible for construction activities. A copy of the verification letter must be kept at the site during construction. Upon completion of the work, the enclosed certification must be signed and returned to this office. If you have any questions concerning the above, please contact Kimberly Courts-Brown at (304) 399-6906 or by email at Kimberly.d.courtsbrown@usace.army.mil.

Sincerely,

Samantha Dailey

Se Delly

Regulatory Project Manager Energy Resource Branch

Regulatory Division

CF: (w/out encls)

Mr. Andrew Longenecker CESO Inc. 800 Bursca Drive Suite 804 Bridgeville, Pennsylvania 15017-1451 Longenecker@cesoinc.com



United States Department of the Interior



FISH AND WILDLIFE SERVICE

West Virginia Field Office 694 Beverly Pike Elkins, West Virginia 26241

September 25, 2014

Mr. Andrew Longenecker CESO, Inc. 800 Bursca Drive, Suite 804 Bridgeville, Pennsylvania 15017-1451

Re: Orange to Blue Waterlines & Orange to Red Waterlines Project, Doddridge County, WV

Dear Mr. Longenecker:

This responds to your August 29, 2014, request for information regarding the potential occurrence of federally listed endangered and threatened species and their designated critical habitats. Cone Gathering, LLC (Cone) proposes to install waterlines and a temporary water withdrawal unit to extract water from the South Fork Hughes River, in Doddridge County, West Virginia. These comments are provided pursuant to the Endangered Species Act (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

The U.S. Fish and Wildlife Service (Service) has determined that three federally listed endangered species may occur within the project impact area, and may be affected by the proposed water withdrawal. They are the Indiana bat (*Myotis sodalis*), the clubshell mussel (*Pleurobema clava*), and the snuffbox mussel (*Epioblasma triquetra*).

Additionally, on October 2, 2013, in the Federal Register (78 FR 61045 -61080) the Service proposed the northern long-eared bat (Myotis septentrionalis) for listing under the ESA. A final listing determination is anticipated by April 2015. If a decision is made to list this species, potential impacts from this project to this species will need to be addressed if this project is not completed by the time the listing takes effect. We encourage you to begin incorporating conservation measures to protect these species prior to any potential final listing decisions. Additional information regarding the northern long eared bat and conference procedures can be found at the following address:

http://www.fws.gov/midwest/endangered/mammals/nlba/pdf/NLEBinterimGuidance6Jan2014.pdf

Indiana bat

The project area is within the range of the Indiana bat and may provide summer foraging and roosting habitats, as well as winter habitat, for this endangered mammal. Indiana bats may use the proposed site for foraging and roosting between April 1 and November 14. In West Virginia, the Service considers all forest habitats containing trees greater than or equal to 5 inches in

diameter at breast height to be potentially suitable as summer roosting and foraging habitat for the Indiana bat. Indiana bats use caves or mine portals for winter hibernation habitat between November 15 and March 31.

The Service has evaluated the availability of suitable foraging and roosting habitats on the West Virginia landscape relative to the best estimate of the statewide population of Indiana bats. On that basis, we have determined that projects affecting 17 acres or less of suitable forest habitat and that occur more than 10 miles from a known priority 1 or 2 Indiana bat hibernaculum, more than 5 miles from a known priority 3 or 4 Indiana bat hibernaculum, or more than 2.5 miles from any known maternity roost, or more than 5 miles from summer capture sites where no roosts were identified are very unlikely to result in direct or indirect impacts to the species. The effects of such projects are considered discountable and the projects, therefore, are not likely to adversely affect the species. Tree removal associated with such projects can occur at any time of year.

The proposed action involves less than 17 acres of tree clearing, does not occur within the hibernacula or summer-use buffers described above, and does not require work in the vicinity of any caves or mine portals. Therefore, the project is not likely to adversely affect the Indiana bat.

Freshwater Mussels

This project proposes to withdraw water from the South Fork Hughes River, which contains suitable habitat for clubshell and snuffbox mussels. Freshwater mussels play a key role in the health of aquatic environments by helping to maintain water quality, cycle nutrients, stabilize substrates, remove suspended sediments, and create habitat complexity (Anderson and Kreeger, 2012). Mussels remove suspended particulates from water by filter-feeding, which involves straining water over gills to remove microscopic food particles. Filter-feeding makes mussels very sensitive to excessive sedimentation caused by runoff from streambank and upland activities. Excessive sedimentation into a stream reduces suitable habitat for mussels and can smother them, causing death. Excessive suspended sediments can also impair feeding processes of mussels, leading to acute short-term or chronic long-term stress. Both excessive sedimentation and excessive suspended sediments can lead to reduced populations of mussels and therefore reduced benefits to the ecosystem (Anderson and Kreeger, 2010; Box and Mossa, 1999; Ellis, 1931; Ellis, 1936; Houp, 1993).

In electronic mail correspondence on September 8, 2014, you stated that the temporary withdrawal intake will be secured to a floating buoy that will be constructed from the streambank in such a manner so as to not disturb the stream bottom. The intake structure will have a 4 inch screen, with an open area that will cause a maximum allowable velocity of 0.50 ft/s, on it to protect aquatic life and will only extract water from the top of the water column to further avoid any impacts to the stream bottom. The temporary water withdrawal intake is estimated to be in place for no more than one year.

Please note that although the West Virginia Department of Environmental Protection (WVDEP) has drafted guidance and a web-based tool for water withdrawal limits related to natural gas production and other development activities, the tool has not yet been validated as adequately

protective of freshwater mussels or other aquatic species under all weather and precipitation conditions. We recommend that the tool be checked daily before withdrawing significant quantities of water from any watershed known to contain freshwater mussels. It is also recommended that users exercise caution and use common sense, particularly during drought or extended dry conditions, or in cases where multiple users may be withdrawing water from the same source. If a stream is low and withdrawing additional water could expose portions of the stream bottom or banks that are normally submerged, including riffle areas downstream from pools from which water is typically withdrawn, we recommend that users find a different location or water source that does not contain federally listed species. We recommend that water users not block, dam, or divert flows, or excavate pools or otherwise create unnatural deep spots in the aquatic habitats listed above or in their direct tributaries. Use of the tool does not absolve users of liability for the loss of aquatic life, including potential violation of the Endangered Species Act if take of federally listed species occurs. Cone has committed to utilize the WVDEPs water withdrawal guidance tool to ensure that it is environmentally safe to withdraw water from the South Fork Hughes River.

Additionally, Cone commits to implement best management practices (BMPs) for reduction of erosion and sedimentation as shown and described in the construction documents received by this office on September 3, 2014. These BMPs cover all work areas of the proposed project. The Service believes that implementation of these BMPs will minimize, to the extent practicable, the likelihood of adverse impacts to the South Fork Hughes River and the clubshell and snuffbox mussels. This office should be notified immediately if any deviations from the submitted project plans and associated BMPs are anticipated, or if any significant erosion-control or sedimentation issues occur during construction of the project. All erosion and sedimentation measures will be in accordance with the West Virginia online BMP manual for standard guidelines and specifications available at: https://apps.dep.wv.gov/dwwm/stormwater/bmp/index.html.

Because the proposed construction of the water withdrawal location will not directly impact the stream bottom and screens will protect aquatic life, the Service concludes that the project is not likely to adversely affect any federally endangered or other freshwater mussels.

In the event that these proposed waterlines and temporary water withdrawal structure are made permanent, consultation with the Service will need to be reinitiated. The Service is concerned that a permanent water withdrawal facility on the South Fork Hughes River would adversely impact downstream mussel populations. The recent spike in oil and gas development has led to increased disturbances in the South Fork Hughes watershed. The accumulation of pipeline crossings, access roads, and water withdrawal intake structures along this river has led to increases in erosion and sedimentation. Disturbances along the river can cause degradation of habitat quality for mussel populations downstream. A long term water withdrawal facility could exacerbate these impacts and adversely affect endangered freshwater mussels. Because the South Fork Hughes watershed is small, supports large populations of native freshwater mussels, including populations of clubshell and snuffbox mussels, the Service recommends not permanently withdrawing water from this river. As an alternative, we recommended withdrawing water from a larger or alternative watershed that does not support federally listed aquatic species.

Mr. Andrew Longenecker September 25, 2014

As a result of the information presented above, the Service has concluded that the project may affect, but is not likely to adversely affect any federally listed endangered or threatened species. Therefore, no biological assessment or further section 7 consultation under the ESA is required with the Service. Should project plans change or amendments be proposed that we have not considered in your proposed action, or if additional information on listed and proposed species becomes available, or if new species become listed or critical habitat is designated, this determination may be reconsidered. If you have any questions regarding this letter, please contact Tiernan Lennon of my staff, at (304) 636-6586, Ext. 12, or at tiernan_lennon@fws.gov, or at the letterhead address.

Sincerely,

John E. Schmidt Field Supervisor

Benjamin Miller

From:

DEP NPDESEP < DEP.NPDESEP@wv.gov>

Sent:

Wednesday, August 27, 2014 3:53 PM

To:

DEP NPDESEP; adamwhite@consolenergy.com

Cc: Subject: Benjamin Miller; Hodge, Timothy W; Swiger, Bradley C; Minigh, Christina D Approval for WVR310354, Orange-Blue Waterline, Doddridge Co., 19.5 Acres

Adam White CNX Gas Company LLC One Energy Drive Jane Lew, WV 26378

Physical Site Location: Co. Rt. 40, Porto Rico

Please be advised that this e-mail constitutes approval for your project associated with Oil and Gas Construction Activities and your registration no. is WVR310354. You are now authorized to operate under WV General Water Pollution Control Permit No. WV0116815, issued on May 13, 2013.

You should carefully read the contents of this General Permit and become familiar with all requirements needed to remain in compliance with your permit. A "Notice of Termination" form is to be completed and submitted when all disturbed areas are stabilized. You can find the permit and Notice of Termination form via the Internet by visiting Permitting, Division of Water and Waste Management at www.dep.wv.gov

Your annual permit fee has been assessed as \$500.00. You will be invoiced by this agency upon the anniversary date of this approval date. Failure to submit the annual fee within ninety (90) days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect. Please be advised that a pro-rated annual permit fee may be assessed upon the completion date and proper stabilization.

If you have any questions relative to this approval, please do not hesitate to contact Joseph Cochran at (304) 926-0499 Ext. 1069 or by email at joseph.w.cochran@wv.gov.

Scott G. Mandirola, Director WV DEP-Division of Water & Waste Mgt. 601 57th St. SE Charleston, WV 25304-2345 Phone: (304) 926-0495

Fax: (304) 926-0496



DIVISION OF NATURAL RESOURCES Wildlife Resources Section Operations Center P.O. Box 67 Elking West Virginia 26241-3235

Elkins, West Virginia 26241-3235 Telephone (304) 637-0245 Fax (304) 637-0250

Earl Ray Tomblin Governor Frank Jezioro Director

August 7, 2014

Mr. Andrew Longenecker CESO, Inc. 800 Bursca Drive, Suite 804 Bridgeville, PA 15017-1451

Dear Mr. Longenecker:

We have reviewed our files for information on rare, threatened and endangered (RTE) species and sensitive habitats for the area of the proposed Orange to Blue Waterline project in Doddridge County, WV.

We have no known records of any RTE species or sensitive habitats within the project area. The Wildlife Resources Section knows of no surveys that have been conducted in the area for rare species or rare species habitat. Consequently, this response is based on information currently available and should not be considered a comprehensive survey of the area under review.

The information provided above is the product of a database search and retrieval. This information does not satisfy other consultation or permitting requirements for disturbances to the natural resources of the state, and further consultation may be required. Additionally, any concurrence requirements for federally listed species must come from the US Fish and Wildlife Service.

Thank you for your inquiry, and should you have any questions please feel free to contact me at the above number, or barbara.d.sargent@wv.gov. Enclosed please find an invoice.

Sincerely

Environmental Resources Specialist

Wildlife Diversity Unit

enclosure



Edwin Wriston < doddridgecountyfpm@gmail.com>

Floodplain Fee Calculations for Projects submitted by CESO

1 message

Natalie Hooton hooton@cesoinc.com

Fri, Aug 1, 2014 at 1:30 PM

To: "doddridgecountyFPM@gmail.com" <doddridgecountyFPM@gmail.com>

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

EQT-OX11

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

Meathouse Fork-OX11

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

Red to Orange Waterline

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

Orange to Blue Waterline

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

Natalie Hooton



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STATE OF WEST VIRGINIA, COUNTY OF DODDRIDGE, TO WIT

I, Virginia Nicholson, Editor of THE

HERALD RECORD, a weekly newspaper published regularly, in Doddridge County, West Virginia, Do Hereby Certify That the Accompanying Legal Notice Entitled: was published in said paper for successive weeks beginning with the issue ending with the issue of August 12 th 2014 and that said notice contains . . . amounts to the sum of \$ FOR FIRST PUBLICATION, SECOND PUBLICATION IS 75% OF THE FIRST **PUBLICATION** and each publication thereafter **EDITOR** SWORN TO AND SUBSCRIBED ... DAY 2014 NOTARY PUBLIC OFFICIAL SEAL Notary Public, State Of West Virginia

LAURA J ADAMS 212 Edmond Street West Union, WV 26456 My Commission Expires June 14, 2023