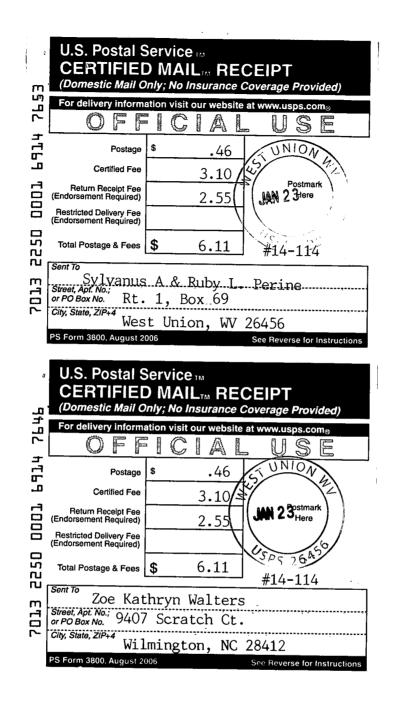
DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT

IRPOSE FOR PERMIT: Gas/ Water P. poline	
SUED TO Cone Gathering, LLC. 200 Evergreen Dr.	
DDRESS: Waynesburg, PA. 15370	
ROJECT ADDRESS: Right Fork of Arnold Creek	
SUED BY: falst Santi	
ATE: ONSTRUCTION MUST START WITHIN 180 DAYS FROM ISSUED DATE. PERMIT EXPIRES IN 12 MON SUED DATE. IF EXTENTION IS NEEDED A REQUEST MUST BE MADE IN WRITING STATING A REAS KTENTION.	ITHS FROM ON FOR THE

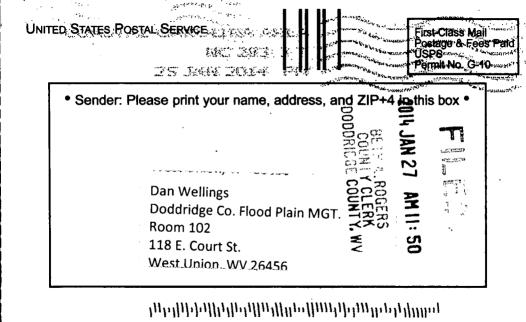
THIS PERMIT MUST BE POSTED ON THE PREMISES IN A CONSPICUOUS PLACE SO AS TO BE CLEARLY

VISIBLE FROM THE STREET.



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. 	A. Signature X
1. Article Addressed to: #14-114	D. Is delivery address different from item 1?
Zoe Kathryn Walters 9407 Scratch Ct Wilmington, NC 28412	
\$24 <u>.</u>	3. Service Type
	4. Restricted Delivery? (Extra Fee)
2. Article Number 7013 2250 (Transfer from service label)	0001 6914 7646
PS Form 3811, February 2004 Domestic Ref	turn Receipt 102595-02-M-1540

Catha .

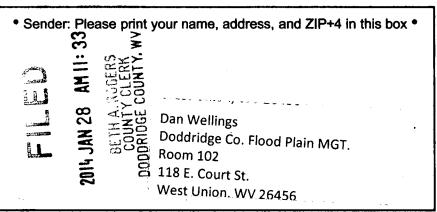


SENDER: COMPLETE THIS SEC	TION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also item 4 if Restricted Delivery is de Print your name and address on so that we can return the card to Attach this card to the back of the or on the front if space permits. 	esired. the reverse you.	A. Signature Agent Addressee B. Received by (Printed Name) C. Date of Delivery
1. Article Addressed to: #14- Sylvanus A & Ruby L. Rt. 1, Box 69 West Union, wV 2045	Perine	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
		3. Service Type Certified Mail
Article Number (Transfer from service label)	7013 225	50 0001 6914 7653
PS Form 3811, February 2004	Domestic	c Return Receipt 102595-02-M-154

United States Postal Service



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



Legal Advertisement:

Doddridge County

Floodplain Permit Application

Please take notice that on the 23rd day of January, 2014

CONE GATHERING, LLC – OXFORD 1 – EQT GAS/WATER PIPELINE

PERMIT # 14 - 114

filed an

application for a Floodplain Permit to develop land located at or about: SURFACE OWNERS: SYLVANUS A AND RUBY L PERINE, ZOE 210/158 & 158/663, T/M:8-19-26 & 8-19-27

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 **FEBURARY 12, 2014.**

Delivered to the:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk

Dan Wellings, Doddridge County Flood Plain Manager

Check Date:

1/9/2014

		0.10	O. Dato	•		
Invoice Number	Date,	Voucher	Amount	Discounts	Preyious Pay	Net Amount
01082014	1/8/2014	000000232424	1,000.00			1,000.00
Doddridge County Comm	ission	TOTAL	1,000.00			1,000.00
Operating Account	14	11261				

98815

Doddridge County, West Virginia

RECEIPT NO: 1456 DATE: 2014/02/11

FROM: CIVIL & ENVIRONMENTAL CONSULTAMOUNT: \$ 1,408.75

ONE THOUSAND FOUR HUNDRED EIGHT DOLLARS AND 75 CENTS

FOR: #14-114 CONE GATHERING LLC
OXFORD 1 EQT GAS/WATER PIPELINE

00000099669 FP-BUILDING PERMITS 020-318 TOTAL: \$1,408.75

MICHAEL HEADLEY

SHERIFF &TREASURER

Customer Copy

CLERK

Doddridge County, West Virginia

RECEIPT NO:

1455

DATE: 2014/02/11

FROM: CIVIL & ENVIRONMENTAL CONSULTAMOUNT:\$

1,000.00

ONE THOUSAND DOLLARS AND 00 CENTS

FOR: #14-114 CONE GATHERING LLC

OXFORD 1 EQT GAS/WATER PIPELINE

00000098815 FP-BUILDING PERMITS

020-318

TOTAL: \$1,000.00

MICHAEL HEADLEY

MEC

SHERIFF &TREASURER

CLERK

Customer Copy

Civil & Environmental Consultants, Inc.

333 Baldwin Road | Pittsburgh, PA 15205

Cone Gathering Cashwater 287.75

Cxford 1 - Early Pipeling Weed More

H 14-114

Weed More

Monies

Civil & Environmental Consultants, Inc.

333 Baldwin Road | Pittsburgh, PA 15205

OXFORD (GAS/WATER

KATTE - DODDRUBGE CONTY

CONE GATHERING



TRANSACTION REPORT

JAN-23-2014 THU 12:39 PM

FOR: DODDRIDGE CO. CLERK

304 873 1840

SEND

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Legal Advertisement:

Doddridge County

Floodplain Permit Application

Please take notice that on the 23rd day of January, 2014

CONE GATHERING, LLC – OXFORD 1 – EQT GAS/WATER PIPELINE

PERMIT # 14 - 114

filed an

application for a Floodplain Permit to develop land located at or about: SURFACE OWNERS: SYLVANUS A AND RUBY L PERINE,

ZOE 210/158 & 158/663, T/M:8-19-26 & 8-19-27

The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours.

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Delivered to the:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456.

Beth A Rogers, Doddridge County Clerk

Dan Wellings, Doddridge County Flood Plain Manager



December 11, 2014

Mr. Bo Wriston Doddridge County Floodplain Coordinator **Doddridge County Commission** 118 East Court Street West Union, West Virginia 26456

RE:

Request for Termination of Existing Floodplain Permit Application

EQT Production Company

EQT MOSA-SO15 Gathering Line Doddridge County, West Virginia

POTESTA Project No. 0101-13-0456-001

Dear Mr. Wriston:

Potesta & Associates, Inc. (POTESTA) is pleased to submit this letter requesting termination of existing floodplain permit number 14-114 for the MOSA-SO15 Gathering Line project. The proposed project has been completed including those portions located within the floodplain. Areas of disturbance have been stabilized and revegetated. No aboveground structures were constructed as part of this project.

If you have any questions, please feel free to contact me at (304) 342-1400 or imsmith@potesta.com, or Megan Landfried Nevlon (EOT) at (304) 848-0061.

Sincerely,

POTESTA & ASSØCIATES, INC.

Jarrett M. Smith, P.E. Senior Engineer

JMS/clr

Enclosures

Ms. Megan Landfried Neylon – EQT (via email) c:



January 3, 2014

Mr. Dan Wellings Doddridge County Clerk's Office 118 E. Court Street, Room 102 West Union, WV 26456

Dear Mr. Wellings:

Subject:

CONE Gathering, LLC

Proposed Oxford 1 to EQT Gas/Water Pipelines Project

Floodplain Development Permit Application

Doddridge County, West Virginia

CEC Project 131-955

FILED2014 JAN 15 Pri 3: 44

BETH A. ROGERS
COUNTY CLERK
DODDRIDGE COUNTY, WY

Civil & Environmental Consultants, Inc. (CEC) is pleased to submit the floodplain development permit application for the above referenced project on behalf of CONE Gathering, LLC. CONE Gathering, LLC proposes to construct the Oxford 1 gas and water pipelines near West Union, West Virginia in Doddridge County. A portion of the proposed gas line and water lines will cross the Right Fork of Arnold Creek floodplain. The proposed pipelines will be buried. The pipeline trenches will be excavated and backfilled to match the original ground contour. No increase of the base flood elevation is expected since the original ground contour will not be altered as a result of the proposed construction.

This letter is provided in support of the floodplain development permit application. CEC appreciates your time and effort in reviewing this floodplain development permit application. Please feel free to contact me at 304-933-3119 or via e-mail at glinder@cecinc.com if you have questions or need additional information.

Respectfully submitted,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Greg Linder, P.E.

Project Manager

Will Trimbath

Project Manager

Willie W. Tribat

cc: Dan Bitz, CONE Gathering, LLC

14-114 CONE Gathering LLC Oxford 1 to EQ+ Gas/water P/L

DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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

BETH A ROGERS
COUNTY CLERK

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

APPLICANT'S SIGNATURE SOLD A DATE 1714

SECTION 2: PROPOSE 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: <u>Dan Bitz – CONE Gathering, LLC.</u>
ADDRESS: <u>200 Evergreene Drive, Waynesburg, PA 15370</u>

TELEPHONE NUMBER: (724) 627-1246

BUILDER'S NAME: Unknown
ADDRESS:
TELEPHONE NUMBER:
ENGINEER'S NAME: Civil & Environmental Consultants, Inc.
ADDRESS: 99 Cambridge Place, Bridgeport, WV 26330
TELEPHONE NUMBER: (304) 933-3119
PROJECT LOCATION: N 39° 14' 33.80", W 80° 48' 42.49"
NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT): See Exhibit A
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT):
DISTRICT:
DATE/FROM WHOM PROPERTY PURCHASED:
LAND BOOK DESCRIPTION:
DEED BOOK REFERENCE:
TAX MAP REFERENCE:
EXISTING BUILDINGS/USES OF PROPERTY:
NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT
PROPERTY: Sylvanus A. and Ruby L. Perine
ADDRESS OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE
SUBJECT PROPERTY: See Exhibit A

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

From U.S. Route 50 West – Turn left onto County Route 11 and follow for approximately 3.2 miles to reach the center of the project.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

	<u>ACTI</u>	<u>VITY</u>				<u>STRU</u>	<u>CTUR</u>	AL TYPE
[]	New Structu	re			[]	Reside	ential (1	L – 4 Family)
[]	Addition			•	[]	Reside	ntial (r	more than 4 Family)
[]	Alteration				[]	Non-re	esident	ial (floodproofing)
[]	Relocation				[]	Combi	ned Us	se (res. & com.)
[]	Demolition				[]	Replac	ement	
[]	Manufacture	d/Mob	il Home					
В.	OTHER DEV	ELOPN	MENT ACTIV	/ITIES:				
[]	Fill	[]	Mining	[]	Drilling	g	[X]	Pipelining
[]	Grading							
[]	Excavation (except 1	or STRUCTUF	RAL DEVEL	OPMEN	T check	ed abo	ve)
[]	Watercourse	Alterc	ation (includi	ng dredgir	ng and cl	hannel	modific	cation)
[]	Drainage Imp	orovem	ents (includir	ng culvert	work)			
[]	Road, Street,	or Brid	lge Construct	ion				
[]	Subdivision (includii	ng new expan	ision)				
[]	Individual W	ater or	Sewer Systen	n				
[]	Other (please	e specit	y)					

C. STANDARD SITE PLAN OR SKETCH

- 1. SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED.
- 2. IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED:

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

3. SIGN AND DATE THE SKETCH.

ACTUAL TOTAL CONSTRUCTION COSTS	OF THE COMPLETE DEVELOPMENT			
IRRESPECTIVE OF WHETHER ALL OR A	NY PART OF THE SUBJECT PROPOSED			
CONSTRUCTION PROJECT IS WITHIN T				
D. ADJACENT AND/OR AFFECTED LA	ANDOWNERS:			
1. NAME AND ADDRESS OF ALL OWNER	RS OF SURFACE TRACTS ADJACENT TO THE AREA			
OF THE SURFACE TRACT (UP & DOWI	N STREAM) UPON WHICH THE PROPOSED			
ACTIVITY WILL OCCUR AND ALL OTH	ER SURFACE OWNERS UP & DOWN STREAM)			
WHO OWN PROPERTY THAT MAY BE	AFFECTED BY FLOODING AS IS DEMONSTRATED			
BY A FLOODPLAIN STUDY OR SURVEY	(IF ONE HAS BEEN COMPLETED).			
NAME: See Exhibit A	NAME:			
ADDRESS:	ADDRESS:			
NAME:	NAME:			
ADDRESS:	ADDRESS:			
1. NAME AND ADDRESS OF AT LEAST OF	NE ADULT RESIDING IN EACH RESIDENCE			
LOCATED UPON ANY ADJACENT PROI	PERTY AT THE TIME THE FLOODPLAIN PERMIT			
	E AND ADDRESS OF AT LEAST ONE ADULT			
	PPERTY THAT MAY BE AFFECTED BY FLOODING AS			
IS DEMONSTRATED BY A FLOODPLAIN	N STUDY OR SURVEY.			
NAME: Sylvanus A. and Ruby L. Perine	NAME:			
ADDRESS: Rt. 1 Box 69	ADDRESS:			

NAME:_____ADDRESS:_____

West Union, WV 26456

NAME:_____

ADDRESS:_____

E. CONFIRMATION FORM

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

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

NAME (PRINT): Dan Bitz - CONE Gathering, LLC.
SIGNATURE: Daw DATE: 17/14
After completing SECTION 2, APPLICANT should submit form to Floodplain Administrator/Manager or his/her representative for review.
SECTION 3: FLOODPLAIN DETERMINATION (to be completed by Floodplain Administrator/Manager or his/her representative)
THE PROPOSED DEVELOPMENT:
THE PROPOSED DEVELOPMENT IS LOCATED ON:
FIRM Panel: 225. Dated: /0/04/20 (/
Is <u>NOT</u> located in a Specific Flood Hazard Area (Notify applicant that the application review is complete and NO FLOOPLAIN DEVELOPMENT PERMIT IS REQUIRED).
Is located in Special Flood Hazard Area.

	FIRM zone designation	
	100-Year flood elevation is:	NGVD (MSL)
[]	Unavailable	
[]	The proposed development is located in a floodway. FBFM Panel No	Dated
[]	See section 4 for additional instructions. SIGNED Rafph Democratical Section 4 for additional instructions.	DATE 2-14-2014
	TION 4: ADDITIONAL INFORMATION REQUIRED odplain Administrator/Manager or his/her repre	
	applicant must submit the documents checked below befcessed.	ore the application can be
[]	A plan showing the location of all existing structures, videnesions and proposed development.	vater bodies, adjacent roads, lot
[]	Development plans, drawn to scale, and specifications details for anchoring structures, storage tanks, propos (including basement or crawl space), types of water refirst floor, details of flood proofing of utilities located lenclosures below the first floor. Also	ed elevation of lowest floor, sistant materials used below the pelow the first floor and details of
D	Subdivision or other development plans (If the subdivilots or 5 acres, whichever is the lesser, the applicant melevations if they are not otherwise available).	•
[]	Plans showing the extent of watercourse relocation ar	d/or landform alterations.
n	Top of new fill elevation	Ft. NGVD (MSL).

	engineer or a	oring structures applicant must attach certification from registered architect.
[]	floodway wil	from a registered engineer that the proposed activity in a regulatory I not result in any increase in the height of the 100-year flood. A copy of all culations supporting this finding must also be submitted.
[]	Contractor's	ed homes located in a floodplain area must have a West Virginia License and a Manufactured Home Installation License as required by the rgency Management Agency (FEMA).
[]	Other:	
SEC	TION 5: PERM	MIT DETERMINATION (To be completed by Floodplain
	<u>Administra</u>	tor/Manager or his/her representative)
	provisions of	mined that the proposed activity (type is or is not) in conformance with the Floodplain Ordinance adopted by the County Commission of Doddridge lay 21, 2013. The permit is issued subject to the conditions attached to and this permit.
	SIGNED	DATE
	with the pro	lain Administrator/Manager found that the above was not in conformance visions of the Doddridge County Floodplain Ordinance and/or denied that the applicant may complete an appealing process below.
	APPEALS:	Appealed to the County Commission of Doddridge County? [] Yes {} No Hearing Date:
		County Commission Decision - Approved [] Yes [] No
	CONDITIONS	:

SECTION 6: AS-BUILT ELEVATIONS (To be submitted by APPLICANT before
Certificate of Compliance is issued).
The following information must be provided for project structures. This section must be
completed by a registered professional engineer or a licensed land surveyor (or attach a

COMPLETE 1 OR 2 BELOW:

certification to this application).

1	Actual (As-Built) Elevation of the top of the lowest floor (including basement or
	crawl space isFT. NGVD (MSL)
2	Actual (As Built) elevation of floodproofing isFT. NGVD (MSL)
Note:	Any work performed prior to submittal of the above information is at risk of the ant.

SECTION 7: COMPLIANCE ACTION (To be completed by the Floodplain Administrator/Manager or his/her representative).

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

INSPECTIONS:			
DATE:		BY:	
DEFICIENCIES?	Y/N		
COMMENTS			

SECTION 8: CERTI	FICATE OF COMPLIA	NCE (To be completed	by Floodplain
Administrator/Ma	nager or his/her re	presentative).	
Certificate of Complia	nce issued: DATE:	BY:	
	CERTIFICATE O	F COMPLIANCE	
FOR DE	VELOPMENT IN SPE	CIAL FLOOD HAZARD A	REA
	(OWNER M	UST RETAIN)	
	PERMIT NUMB	ER:	
	PERMIT DATE:_		
Pl	JRPOSE –		
ONSTRUCTION LOC	ATION:		
WNER'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.

SIGNED	DA	NTE
JIOITED.		`

EXHIBIT A – Oxford 1 Pipelines				
Property Owner Name	Mailing Address	Тах Мар	Deed Book Reference	Land Book Description
	HOST PROPERTIES			
Sylvanus A. and Ruby L. Perine	Rt. 1 Box 69, West Union, WV 26456	8-19-26	210/158	47.8 AC Homesite/Tillable/Pasture/Woodland
Zoe Kathryn Walters	9407 Scratch Ct., Wilmington, NC 28412	8-19-27	158/663	261.25 AC Tillable/Woodland/Undeveloped
	PROPERTY OWNERS ABUTTING HOST PROPER			
Patricia A. Perine	PO Box 403, West Union, WV 26456	8-19-23	198/53	20.97 AC
Douglas G. and Susan Leggett	Rt. 1 Box 69BB, West Union, WV 26456	8-19-25.1	250/565	1 AC

CONE Gathering, LLC. Oxford 1 Pipelines

Pipeline	Length of Line Pipeline (feet)	Construction in Floodplain (Y/N)	Installation Method	Unit Cost/Foot	Total
16"	575	Yes	Open Cut	\$200	\$115,000
gasline	35	Yes	Bore and Jack	\$350	\$12,250
16"	575	Yes	Open Cut	\$200	\$115,000
waterline	35	Yes	Bore and Jack	\$350	\$12,250
16"	575	Yes	Open Cut	\$200	\$115,000
waterline	35	Yes	Bore and Jack	\$350	\$12,250
		Tot	 tal Floodplain Construct	ion Cost Estimate =	\$381,750



DODDRIDGE COUNTY COMMISSION

BETH A. ROGERS, Clerk Room 102 118 East Court Street West Union, WV 26456-1297 Phone (304) 873-2631

Deputies: Beth A. Kellar Jennifer L. Moore Pauletta McKinney

FAX COVER SHEET

,	3-18-14
	DATE
TO:	Gree hinder
	J
	\mathcal{J}_{i}
FROM:	Catie Stater - F/P Asst.
,	
RE:	SENDER'S DIRECT PHONE NUMBER: (304) 873-2631 F/P # 14-114 Dx God 1 - EQT Gas/water P/L
COMMENTS:	
001.11.11.11.11.11	
	· · · · · · · · · · · · · · · · · · ·
*	
Number of pag	es (including this page):

TRANSACTION REPORT

MAR-18-2014 TUE 09:50 AM

FOR: DODDRIDGE CO. CLERK

304 873 1840

SEND

DATE START	RECE I VER	TX TIME	PAGES TYPE	NOTE	M♯ DP
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DODDRIDGE COUNTY COMMISSION

BETH A. ROGERS, Clerk Room 102 118 East Court Street West Union, WV 28456-1297 Phone (304) 873-2631

Deputies: Beth A. Keliar Jennifer L. Moore Pauletta McKinney

FAX COVER SHEET

٠.	3-18-14 DATE	
то:	Green Linder	· .
FROM:	Catie Stater - F/P Aost.	
	SENDER'S DIRECT PHONE NUMBER: (304) 873-2631 F/P # 14-114 Dx & 1 - FOT 605/water	- 7/L
COMMENTS:		
Number of page	s (including this page):	

LEGAL ADVERTISEMENT: Doddridge County

Floodplain Permit Application
Please take notice that on the 23rd day of January,
2014 CONE GATHERING, LLC - OXFORD 1 - EQT
GAS/WATER PIPELINE PERMIT #14-114 filed an
application for a Floodplain Permit to develop land
located at or about: SURFACE OWNERS: SYLVANUS
A AND RUBY L PERINE, ZOE 210/158 & 158/663, T/M:
8-19-26 & 8-19-27.

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 February 12, 2014.

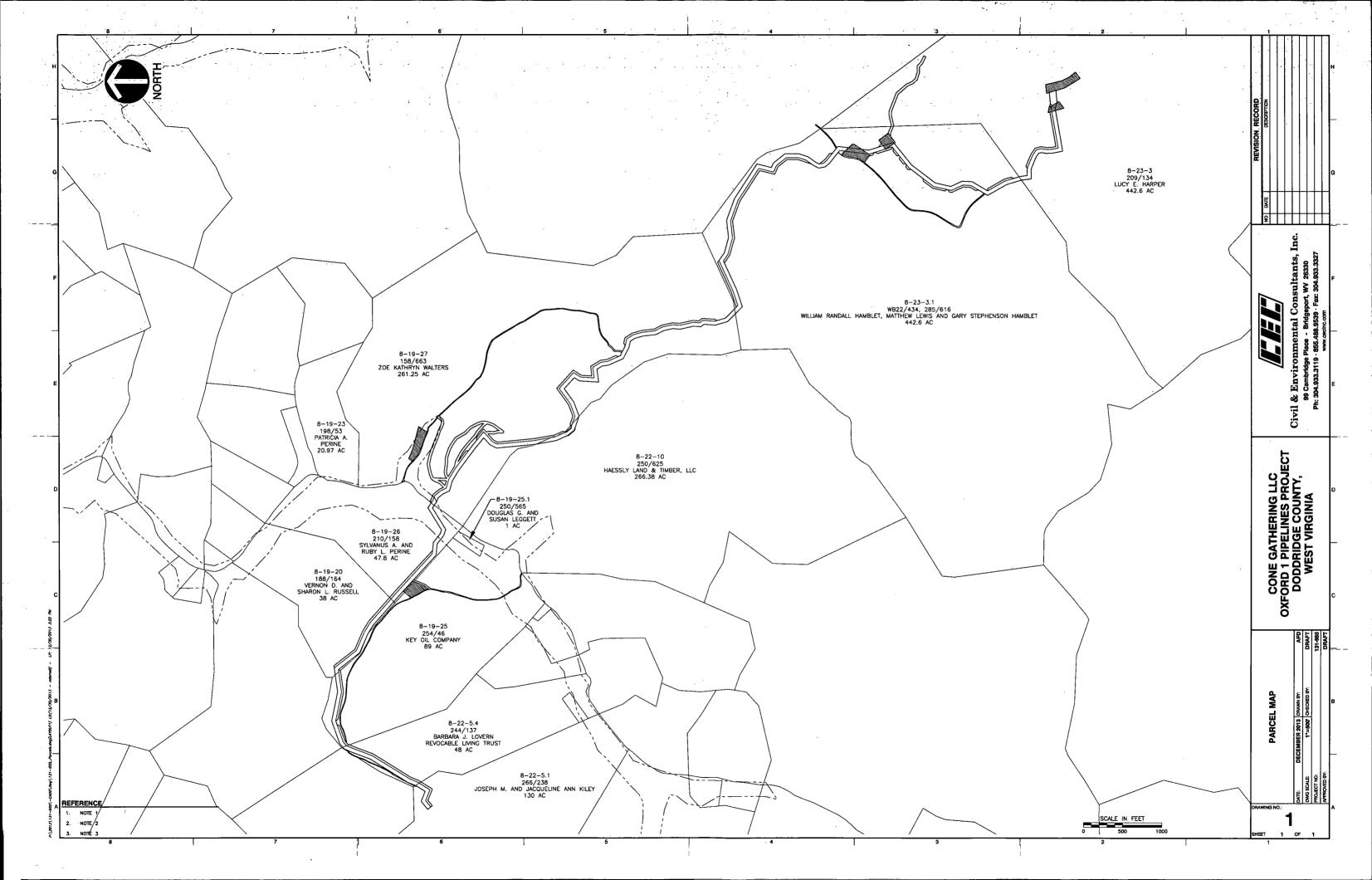
Delivered to the:
Clerk of the County Court

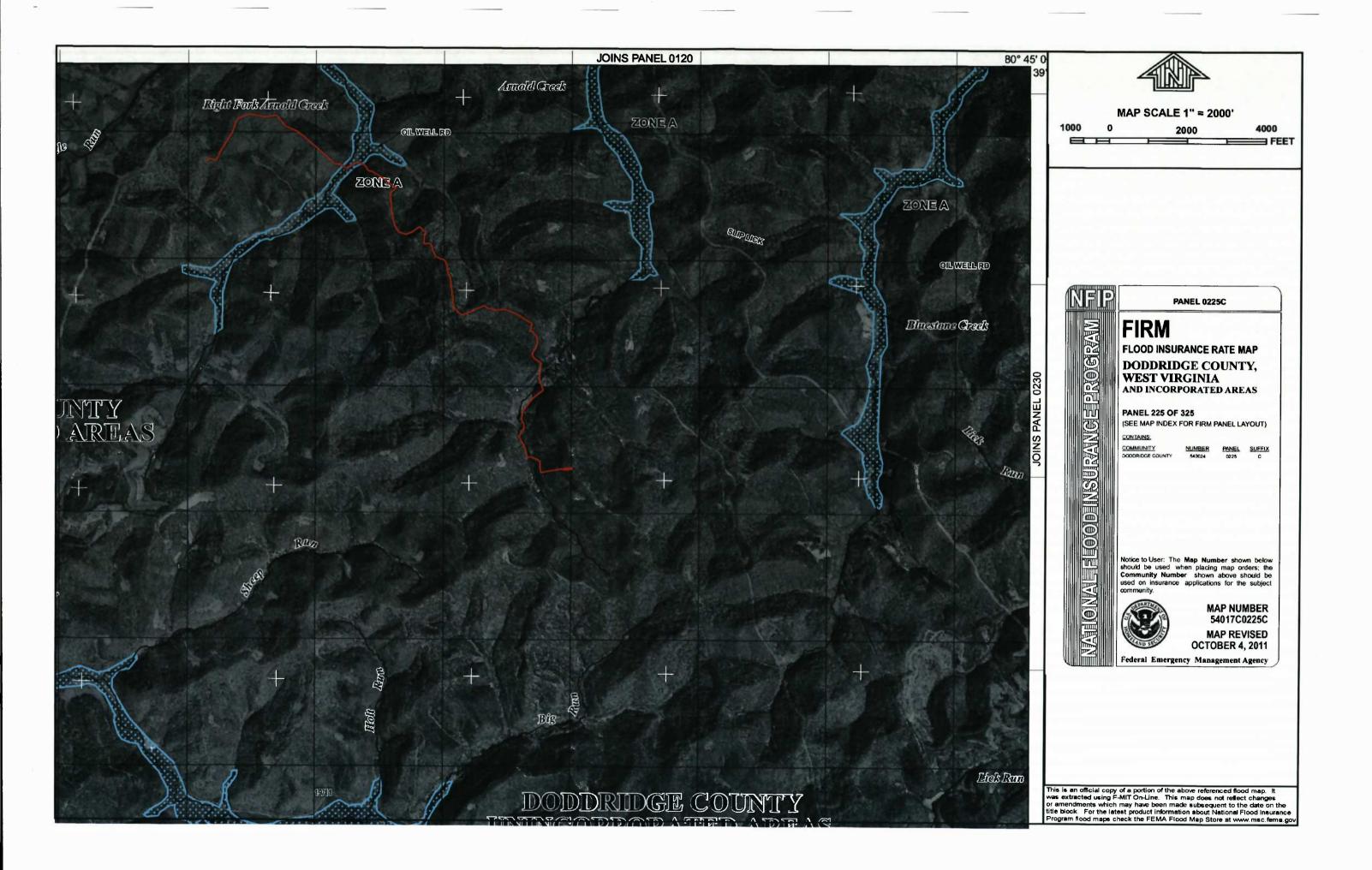
118 E. Court Street, West Union, WV 26456
Beth A. Rogers, Doddridge County Clerk
Dan Wellings, Doddridge County Flood Plain Manager.
1-28-2xb

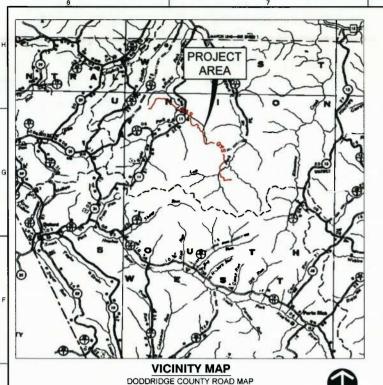
STATE OF WEST VIRGINIA, COUNTY OF DODDRIDGE, TO WIT

I, Virginia Nicholson, Editor of THE HERALD RECORD, a weekly newspaper published regularly, in Doddridge County, West Virginia, Do Hereby Certify Upon Oath That the Accompanying Legal Notice . Floodplain Permit Offord 1 - EGT 14-114 was published in said paper for ... 2 ... successive weeks beginning with the issue ending with the issue of February 4th 2014 and that said notice contains . . . 189amounts to the sum of \$.21.73FOR FIRST PUBLICATION, SECOND **PUBLICATION IS 75% OF THE FIRST PUBLICATION** and each publication thereafter ugenia Muholson SWORN TO AND SUBSCRIBED NOTARY RUBLIC









SCALE IN FEET 1 MILES 1 INCH = 1 MILE

PROJECT OWNER/APPLICANT

CONE GATHERING, LLC 200 EVERGREENE DRIVE WAYNESBURG, PA 15370 PH: (724) 627-1411 CONTACT: TARA R. MEEK

CIVIL ENGINEER

CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 99 CAMBRIDGE PLACE BRIDGEPORT, WV. 26330 PH: (304) 933-3119 FAX: (304) 933-3327 CONTACTS: GREG LINDER, P.E.



MISS UTILITY OF WEST VIRGINIA -800-245-4848 West Virginia State Law V: Chapter 24-C requires tha Il two business days before g in the state of West Virgini IT'S THE LAW

MISS UTILITY OF WEST VIRGINIA ONE CALL WAS PERFORMED IN AUGUST, 2013.

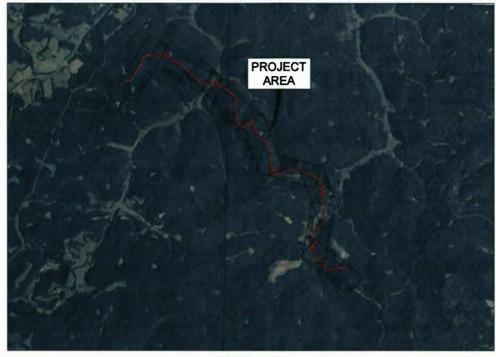
THE FOLLOWING UTILITY COMPANIES MAY BE PRESENT IN THE PROJECT AREA

- FIRSTENERGY CORP.
 FRONTIER COMMUNICATIONS (FORMERLY VERIZON)
 PDC MOUNTAINEER, LLC
 CHESTNUT RIDGE PUBLIC SERVICE DISTRICT
 DOMINION TRANSMISSION CORPORATION
 CONSOL ENERGY



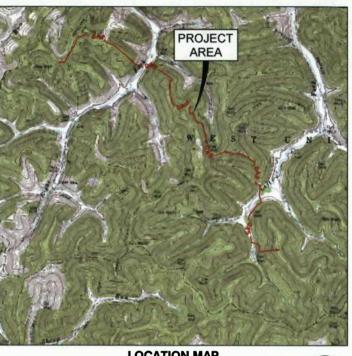
OXFORD 1 TO EQT GAS/WATER PIPELINES **WEST UNION DISTRICT DODDRIDGE COUNTY WEST VIRGINIA**

LAT./LONG: N 39° 14' 10.61" W 80° 48' 10.67" (APPROXIMATE CENTER OF PROJECT)



AERIAL MAP DODDRIDGE COUNTY SCALE IN FEET 500 1 INCH = 500 FEET





LOCATION MAP

2000 1 INCH = 2000 FEET



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.

SHEET INDEX						
SHEET 1 OF 34	COVER SHEET					
SHEET 2 TO 10	ALIGNMENT SHEETS STATION 0+00 TO 187+69.07					
SHEET 11 TO 16	ACCESS ROAD LAYOUTS					
SHEET 17 TO 20	WETLAND, STREAM, AND ROAD LOCATION MAPS					
SHEET 21 TO 29	WETLAND, STREAM, AND ROAD CROSSING DETAILS					
SHEET 30 TO 34	EROSION & SEDIMENTATION CONTROL DETAILS					

LIMITS OF CONSTRUCTION AND LIMITS OF DISTURBANCE - 39.77 AC

III III

Civil & Environmental Consultants, Inc.

99 Cambridge Place - Bridgeport, WV 26330 Ph: 304.933.3119 · Fax: 304.933.3327

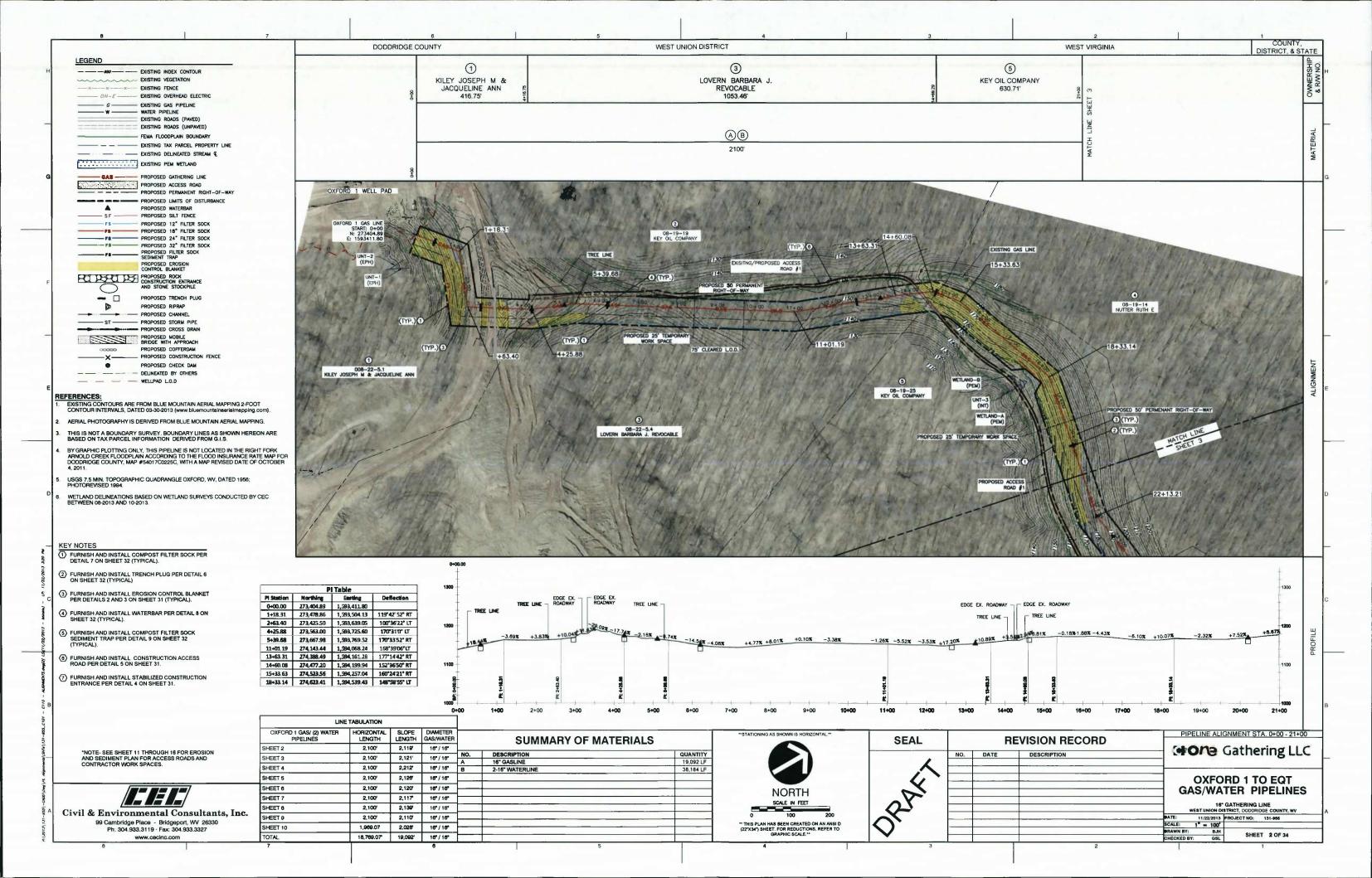
LINE	TABULATION					
OXFORD 1 GAS/ (2) WATER PIPELINES	HORIZONTAL LENGTH	SLOPE LENGTH	DIAMETER GAS/WATER	_	SUMMARY OF MATERIALS	
SHEET 2	2,100'	2,119	16" / 16"			
SHEET 3	2,100'	2,121'	16" / 16"	NO.	DESCRIPTION	QUANTIT
		-		Α	16" GASLINE	19,092 L
SHEET 4	2,100'	2,212	16" / 16"	В	2-16" WATERLINE	38,184 L
SHEET 5	2,100	2,126	16" / 16"			
SHEET 6	2,100'	2,120	16° / 16°	_		
SHEET 7	2,100'	2,117	16° / 16°			
SHEET 8	2,100	2,139'	16" / 16"			
SHEET 9	2,100'	2,110'	16" / 16"			
SHEET 10	1,969.07	2,028'	16" / 16"	_		_
TOTAL	18,769.07	19,092'	16" / 16"			
			-			

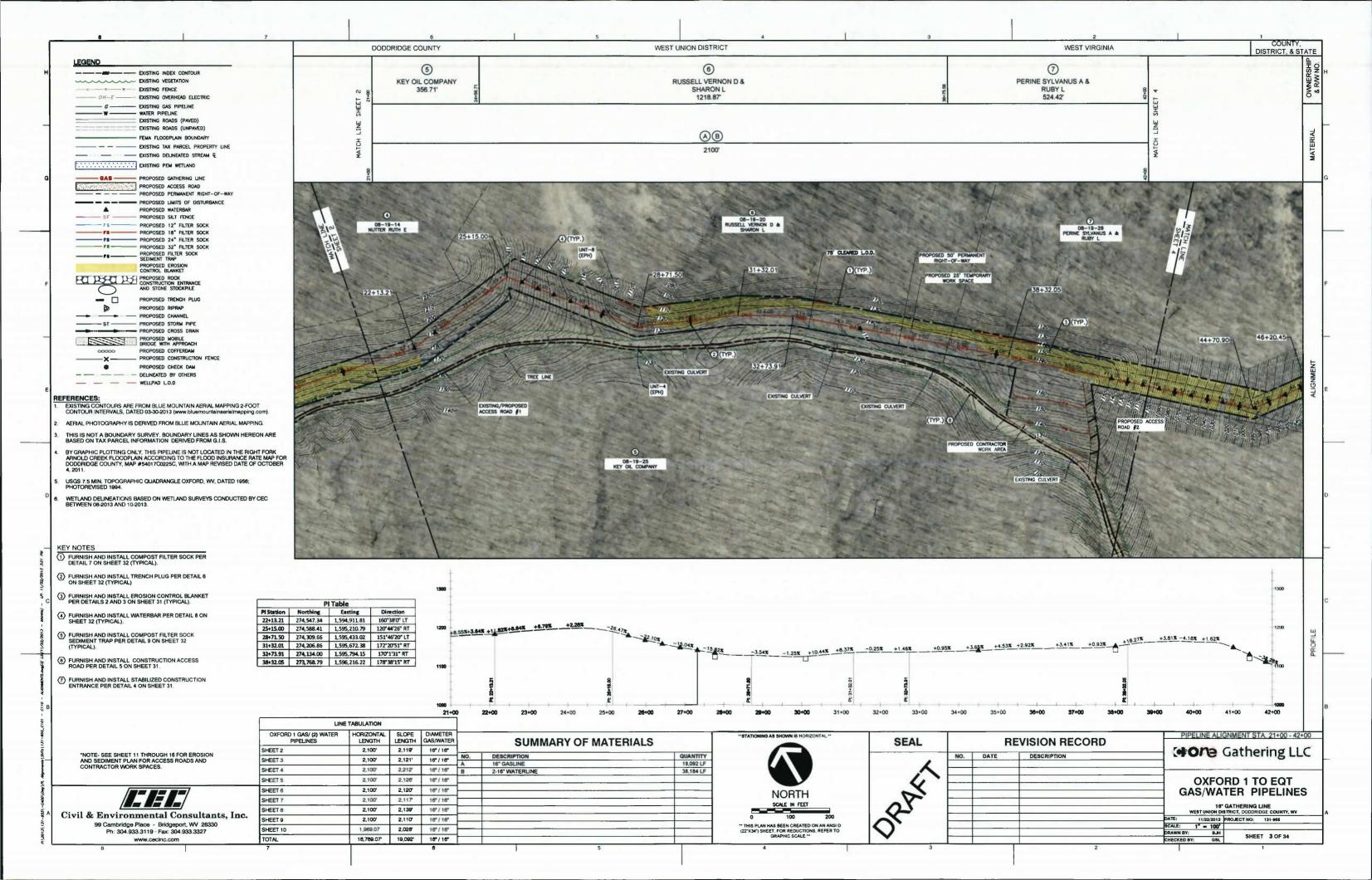
"NOTE TO CONTRACTOR" THE CONTRACTOR SHALL REFER TO ALL PLANS WITHIN THIS CONSTRUCTION SET. IT IS NOT THE ENGINEER'S INTENT THAT ANY SINGLE PLAN SHEET IN THIS SET OF DOCUMENTS FULLY DEPICT ALL WORK ASSOCIATED WITH THE PROJECT,

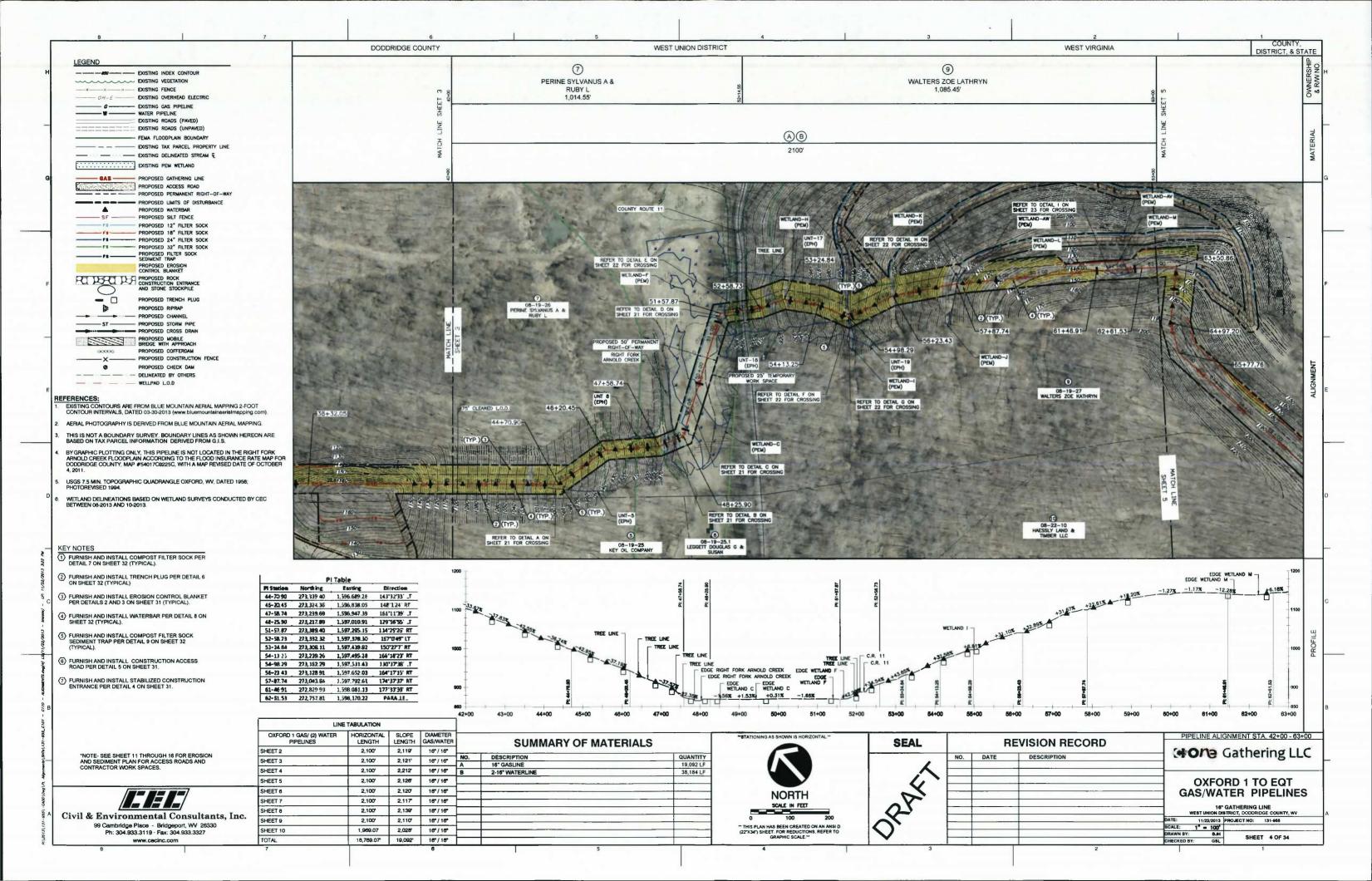
THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES. THE CONTRACTOR IS REQUIRED TO CONTACT WEST VIRGINIA ONE CALL SYSTEM PRIOR TO PERFORMING ANY EXCAVATION.

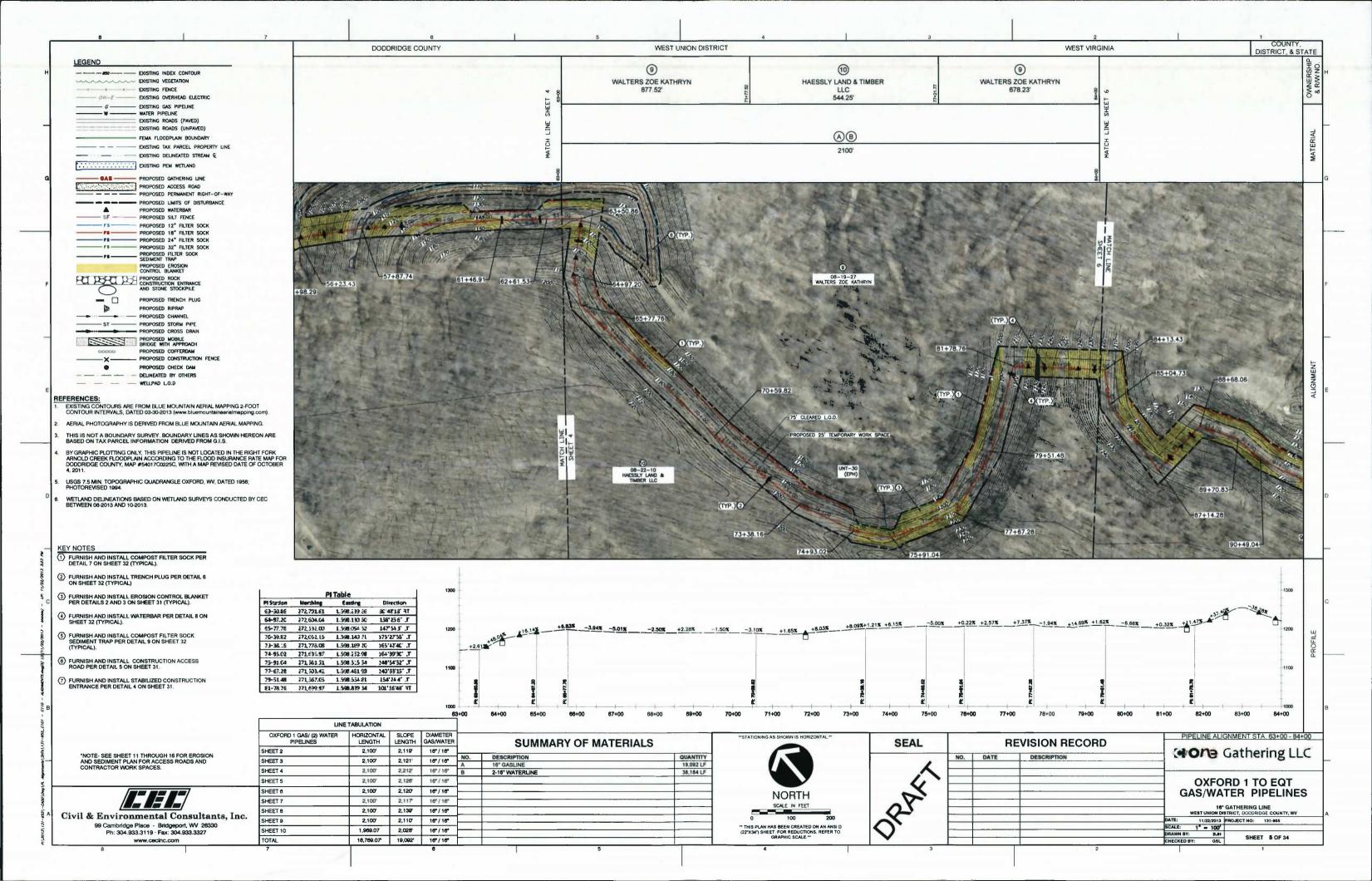
CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DOES
NOT GUARANTEE THAT THIS SURVEY OR MAP DEPICTS
COMPLETE OR CONCLUSIVE SUBSURFACE
INFORMATION, NOR DOES IT REFLECT A COMPLETED
BOUNDARY SURVEY.

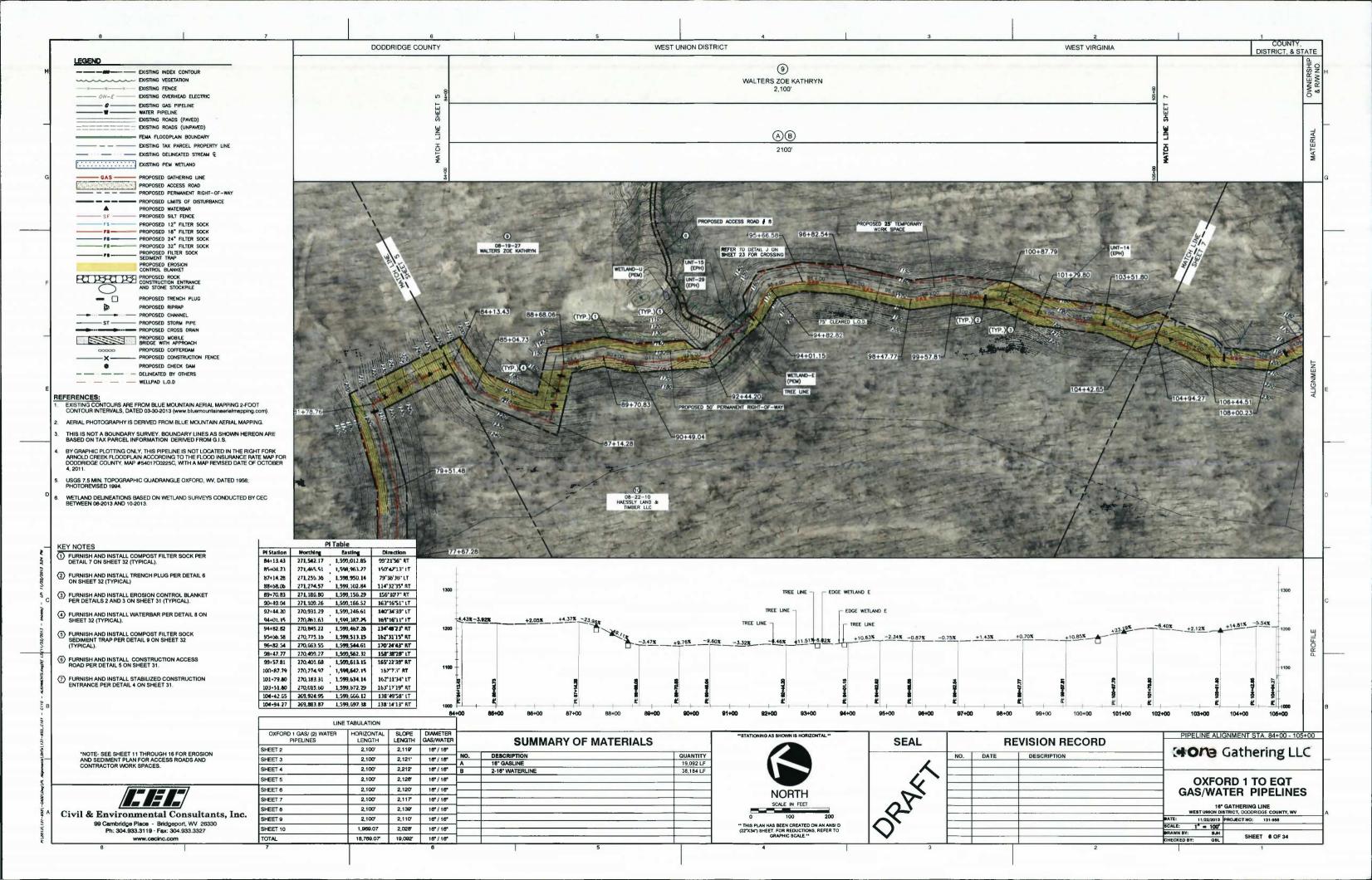
SEAL		R	EVISION RECORD		
,	NO.	DATE	DESCRIPTION	Gathering LL	
aki				GAS/WAT	RD 1 TO EQT FER PIPELINES
				DATE: 11/22/2013 P	ROJECT NO: 131-955
)				SCALE: AS SHOWN	
/				DRAWN BY: BJH	SHEET 1 OF 34
				CHECKED BY: GSL	SHEET I OF 34

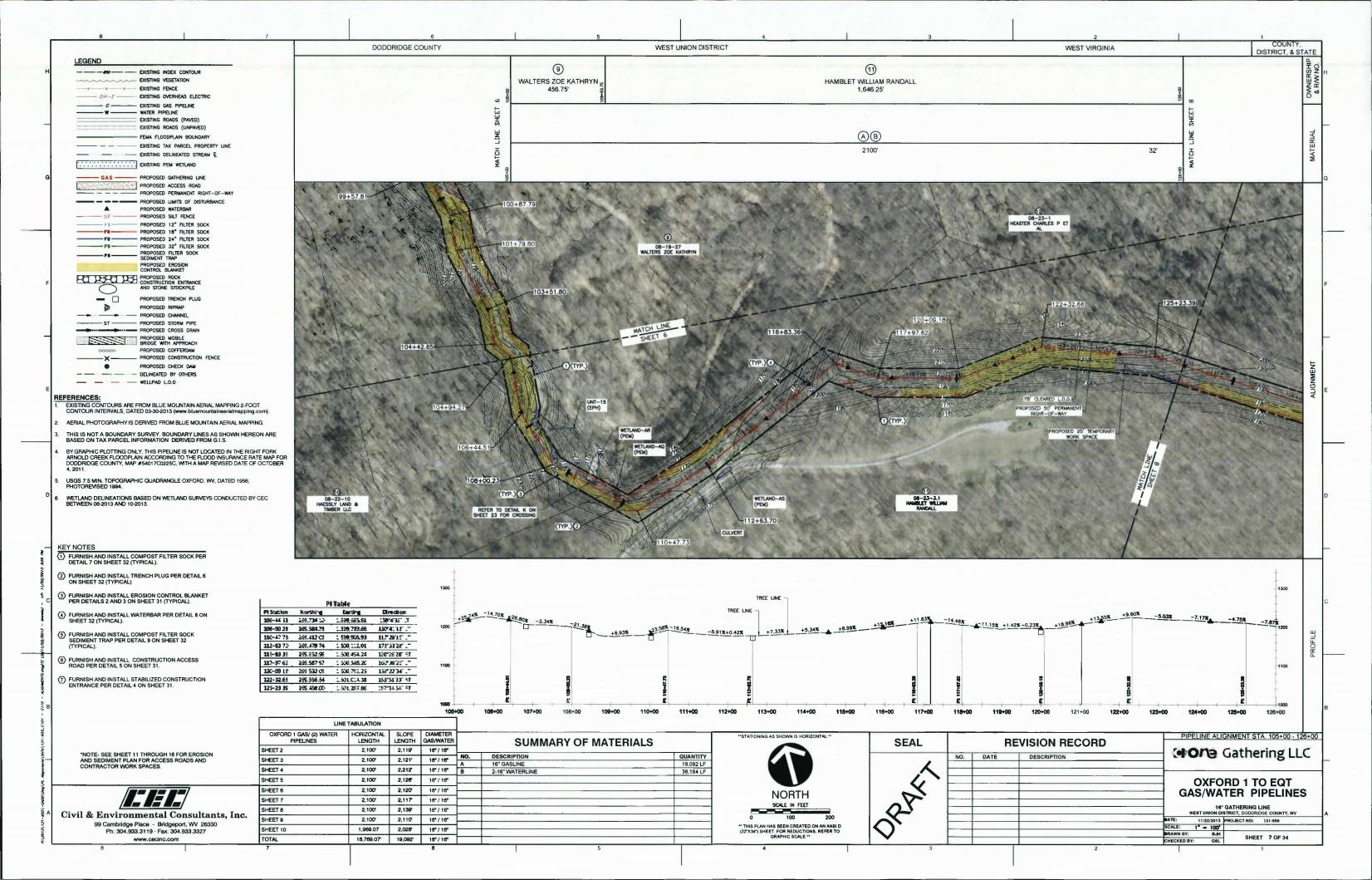


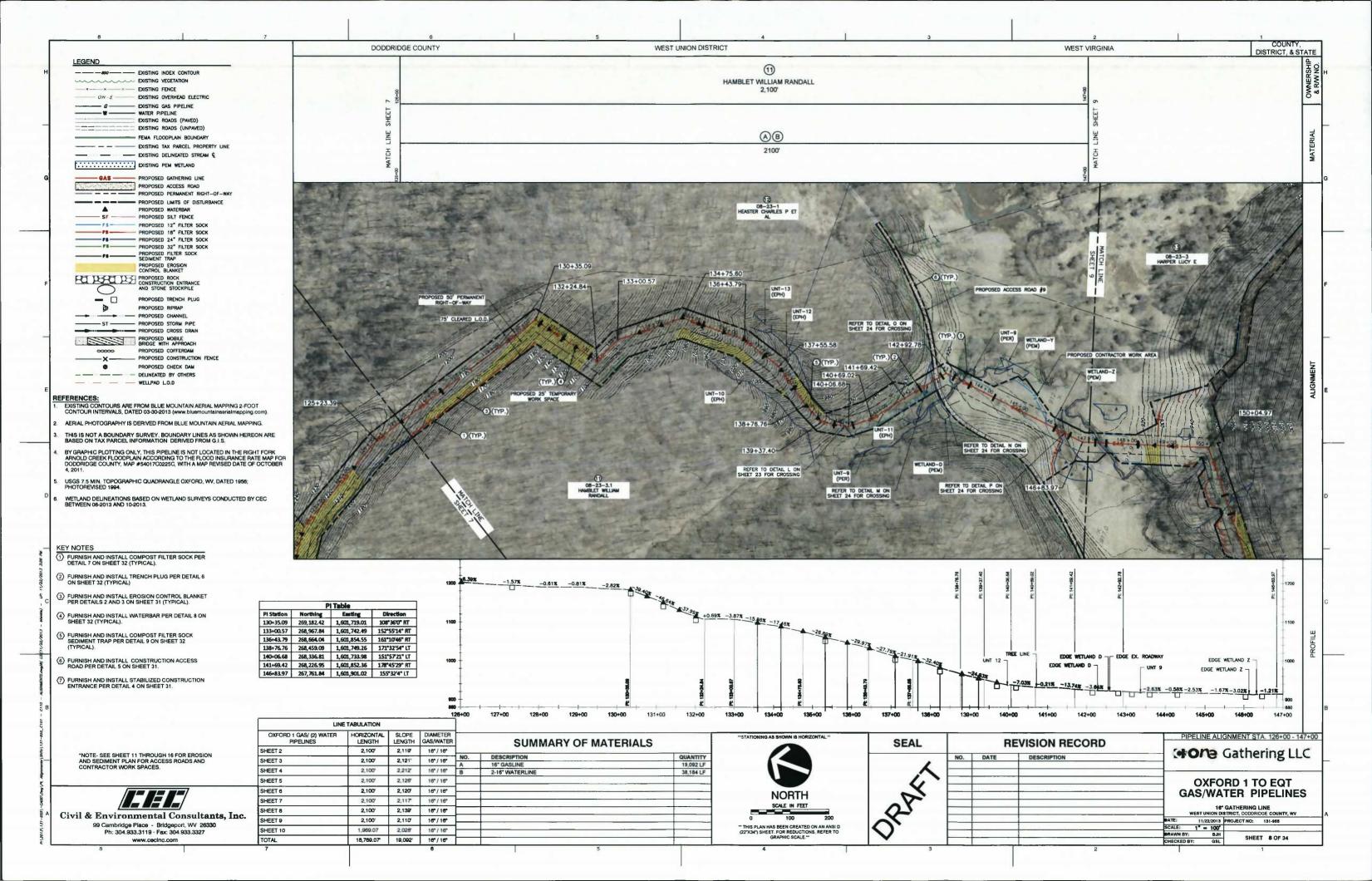


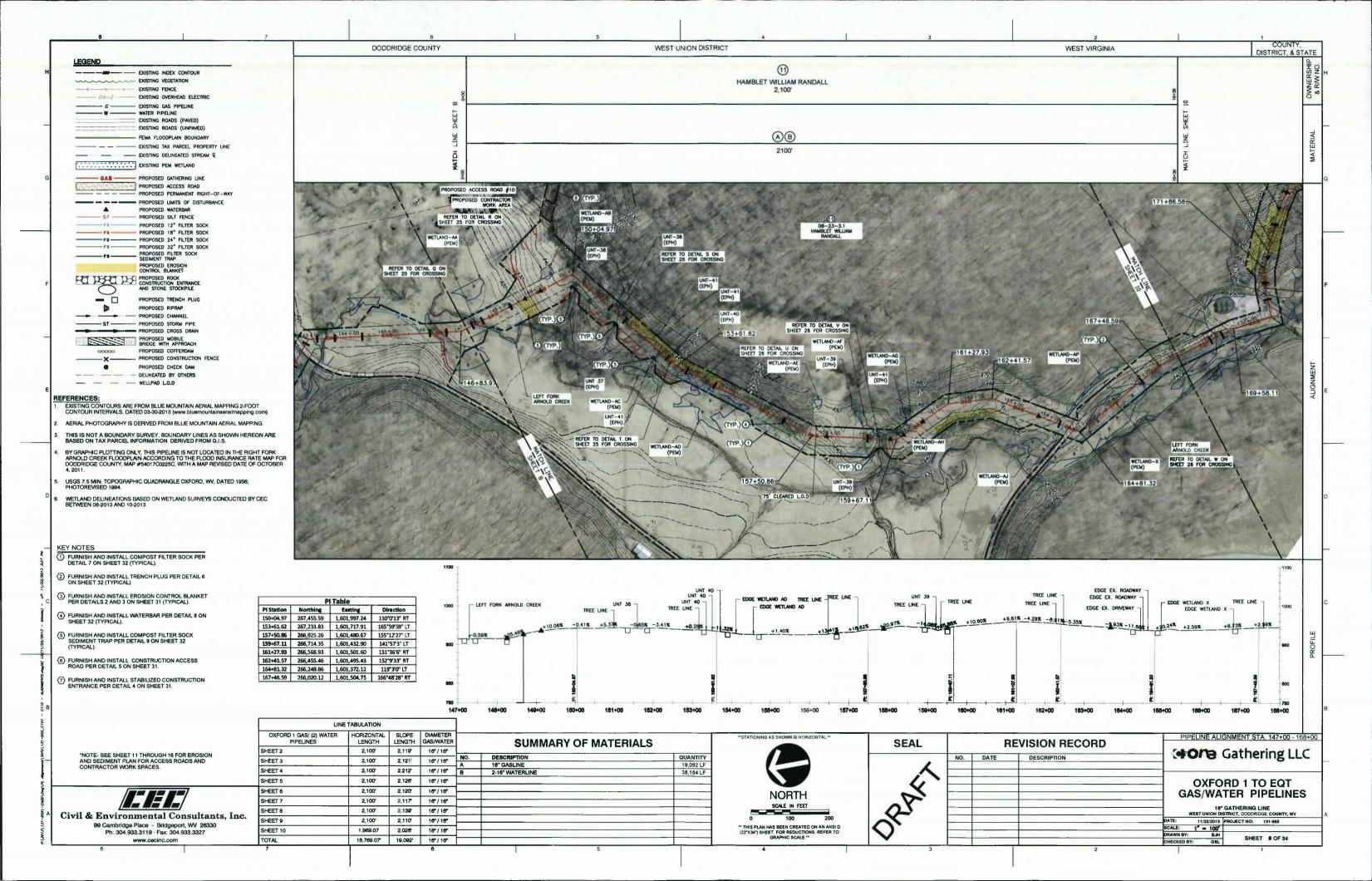


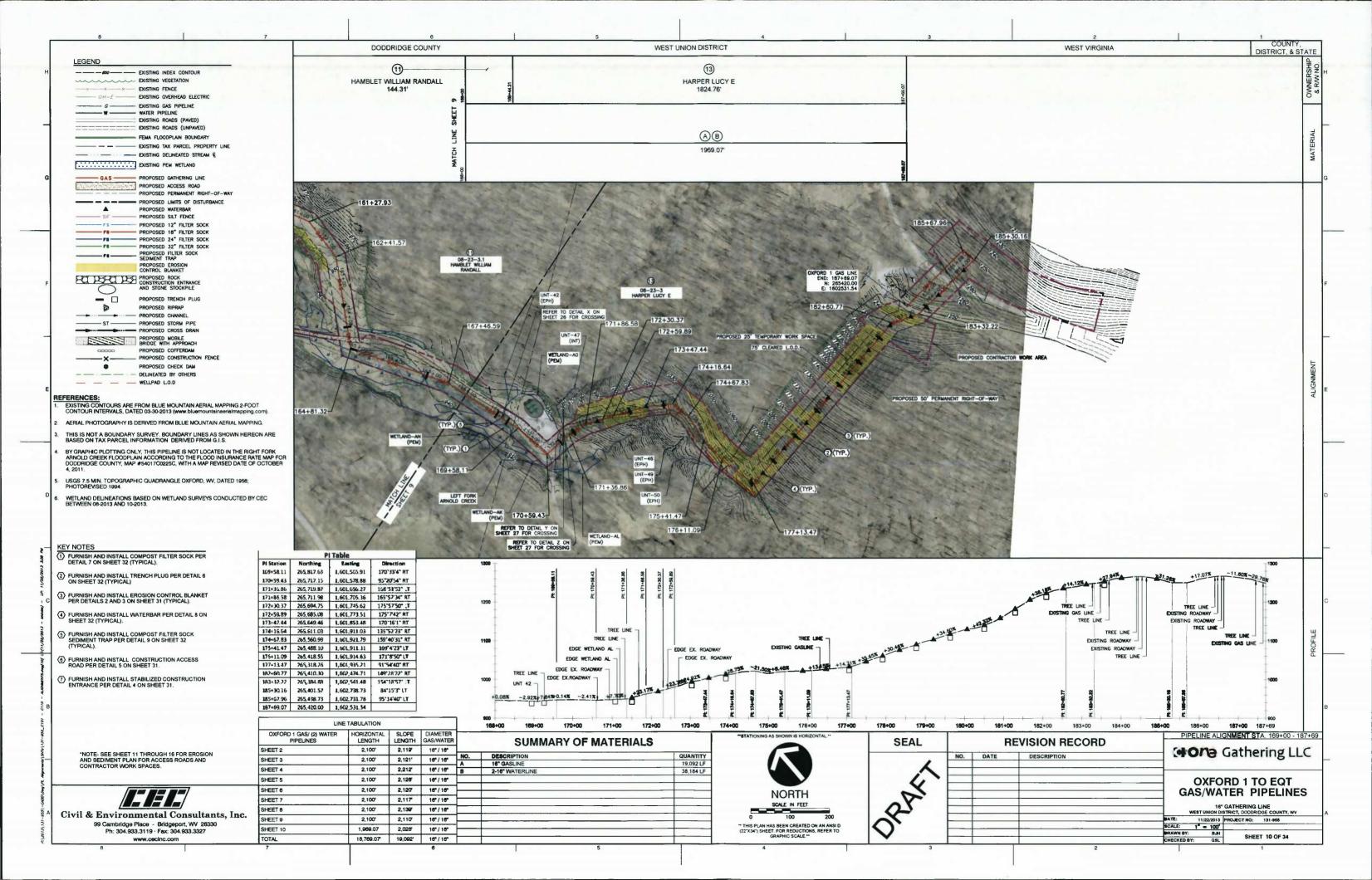


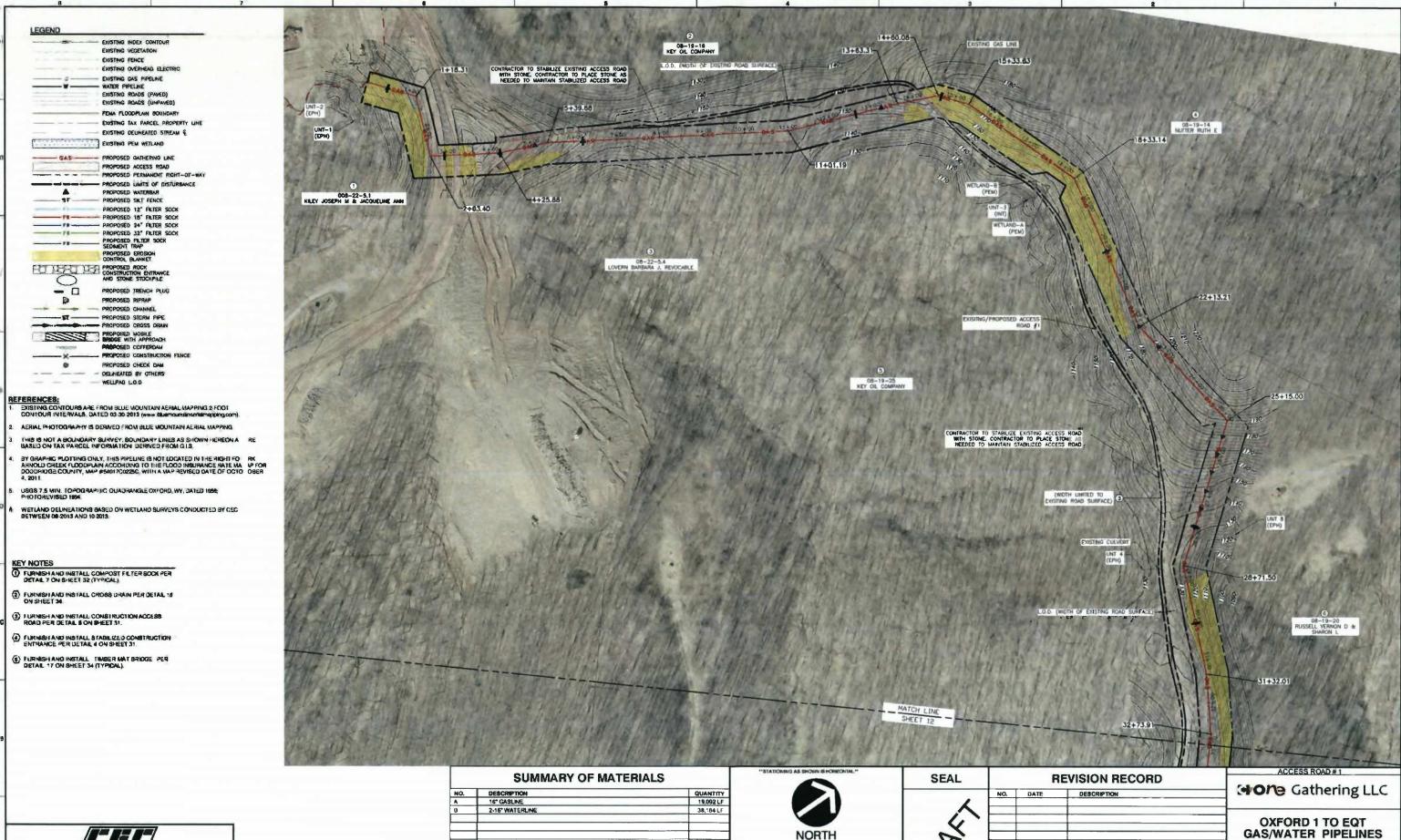












" THIS PLAN HAS BEEN CREATED ON AN ANSI D (22"X34") SHEET, FOR PEDUCTIONS, REPER TO GRAPHIC SCALE." 18" GATHERING LINE WEST UNION DISTRICT, BODDERINGE COUNTY, W

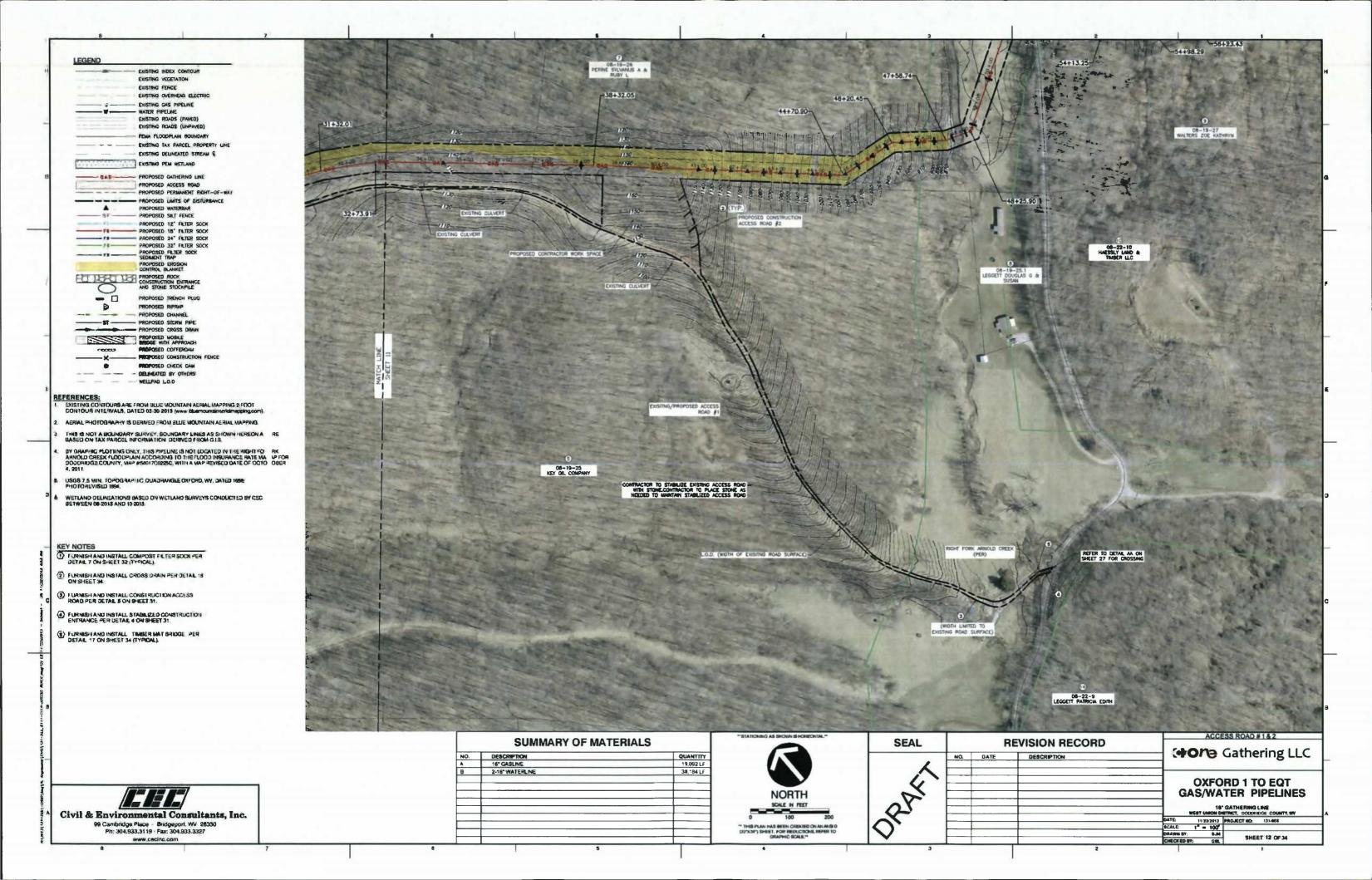
SHEET 11 OF 34

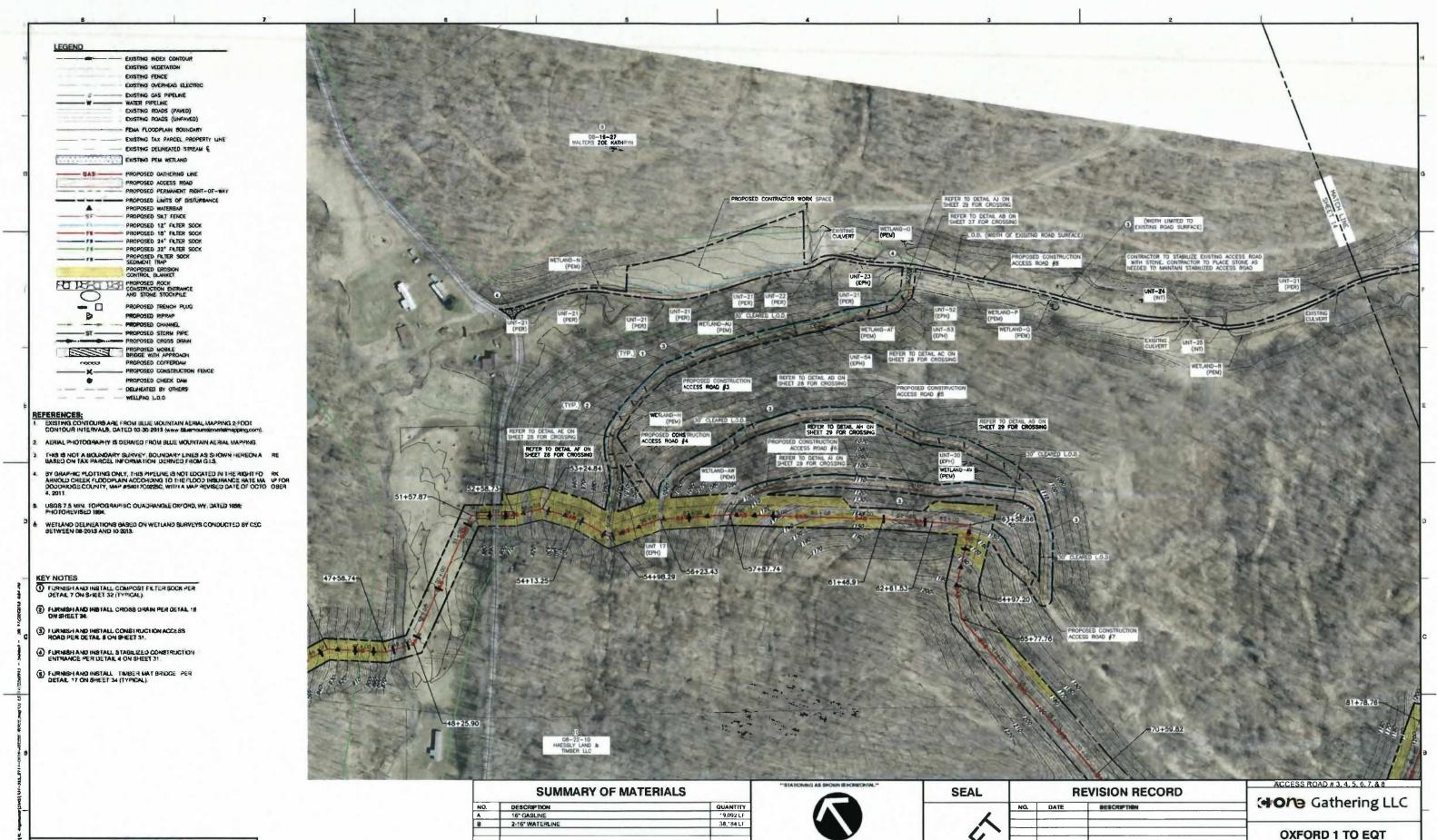
SCALE

PRO-IO SUCCESSION TO THE PROPERTY OF THE

_

Civil & Environmental Consultants, Inc.
99 Cambridge Place - Bridgeport WV 28330
Ph: 304.933.3119 - Fax: 304.933.3327





NORTH

GAS/WATER PIPELINES

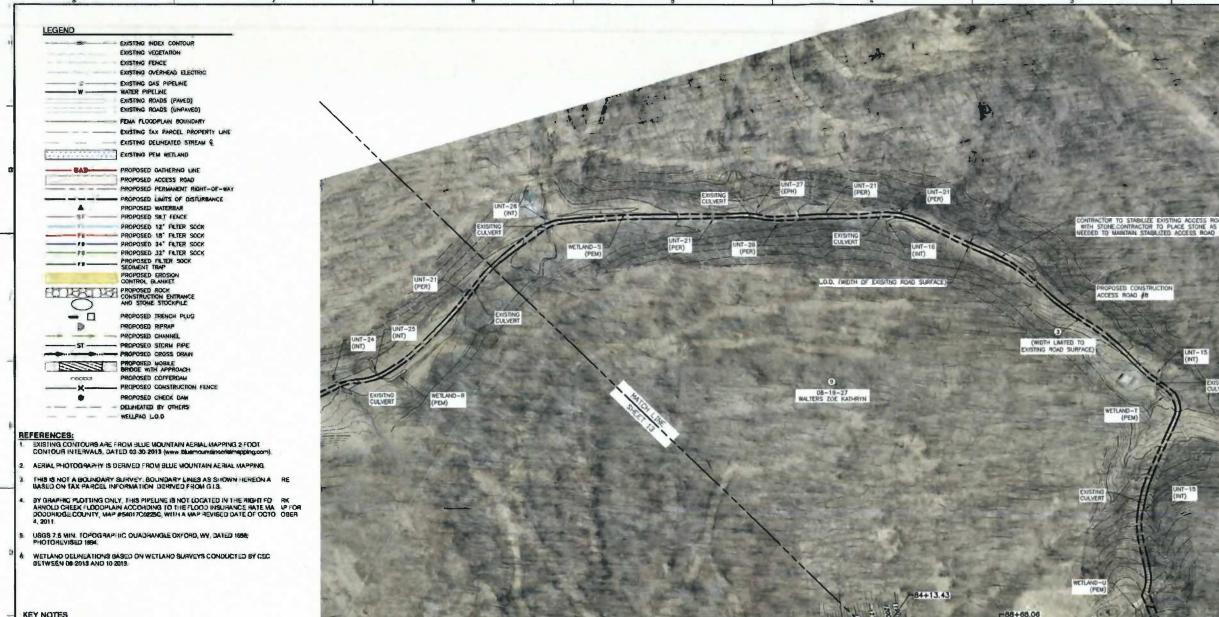
SHEET 13 OF 34

16" GATHERING LINE WEST UNION DISTRICT, DODDRIDGE COUNTY, W

DATE: 11/22/2013 PROJECT NO: 131-865
SCALE: 1" = 100"
DRAWN 8Y: SJM SMEST 13 OF:

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www.ceclnc.com



KEY NOTES

TURNISH AND INSTALL COMPOST FILTER SOCK PER DETAIL 7 ON SHEET 32 (TYPICAL).

(2) FURNISH AND INSTALL CROSS URAIN PER DETAL 18 ON SHEET 34

TURNISH AND INSTALL CONSTRUCTION ACCESS ROAD PER DETAIL S ON SHEET 31.

(a) FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET 31.

(6) FURNISH AND INSTALL TIMBER MAT BRIDGE PER DETAIL 17 ON SHEET 34 (TYPICAL).

SUMMARY OF MATERIALS NO. DESCRIPTION 19,092 LF 16" GASLINE 38,184 LF 2-16" WATERLINE

SEAL

NORTH

85+04.73 1130-

Gathering LLC

REVISION RECORD

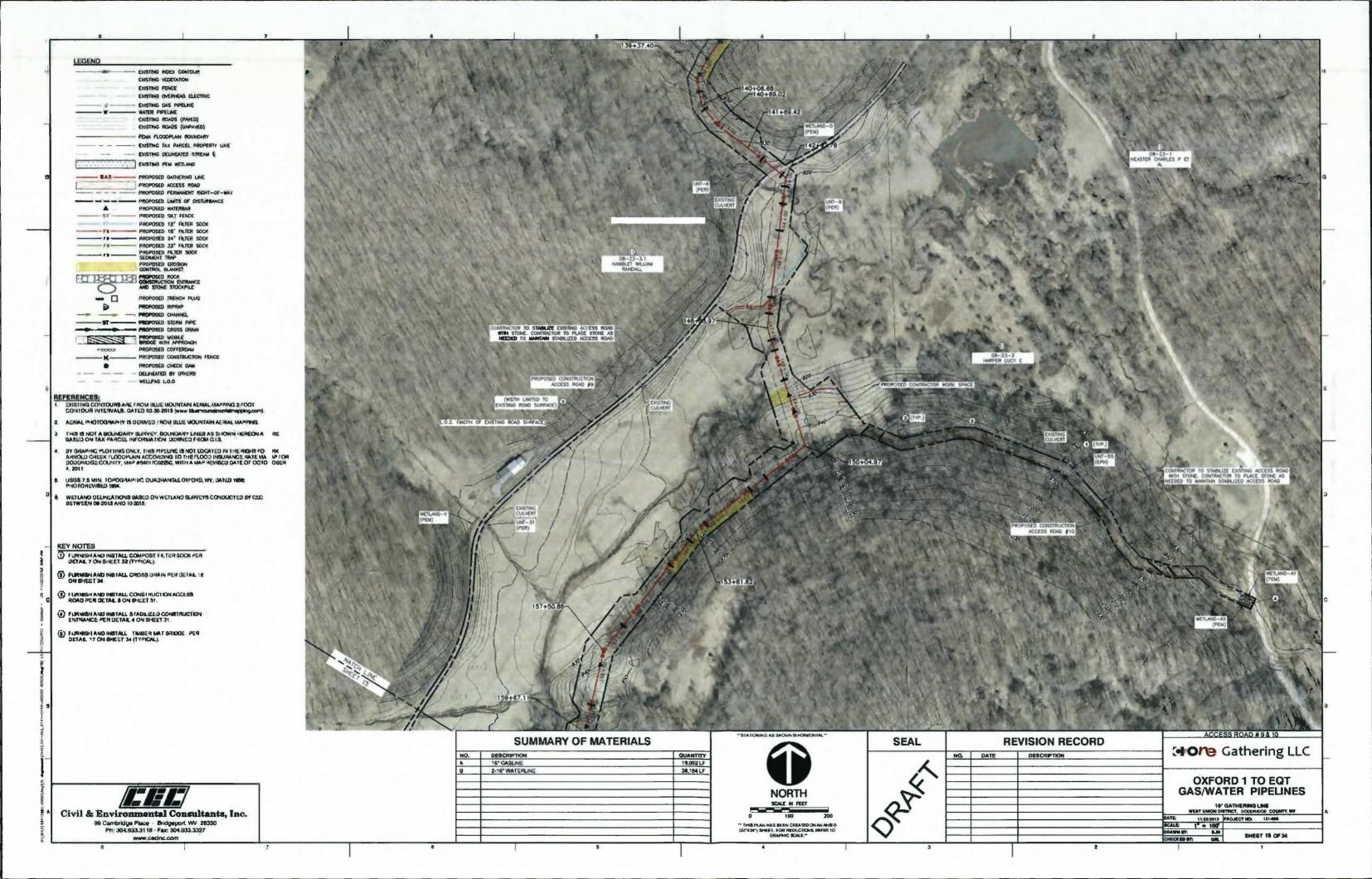
OXFORD 1 TO EQT GAS/WATER PIPELINES

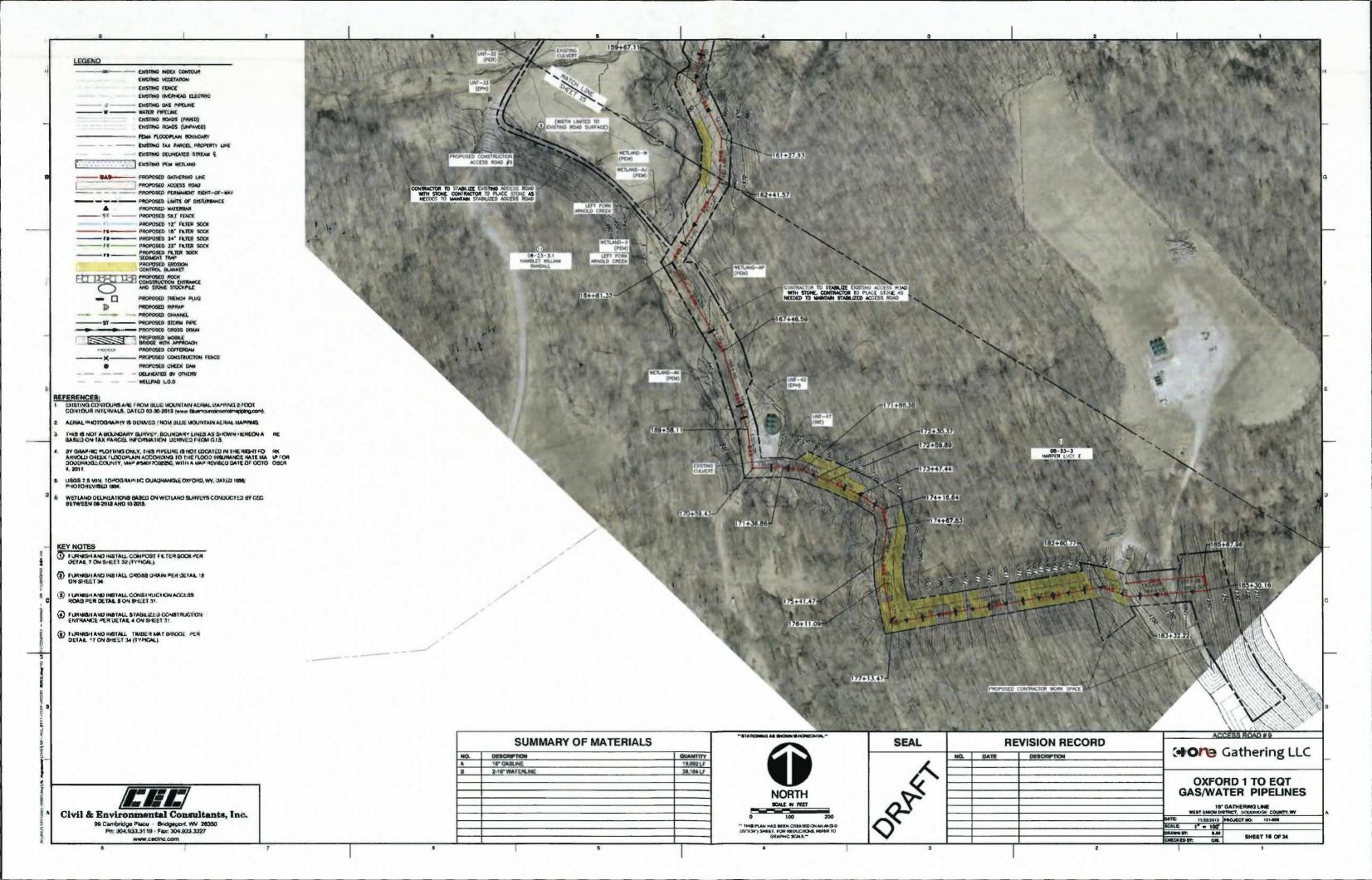
DATE: 11/22/2013 PROJECT NO: 121-668
SCALE: 1" = 100"
DRAWN 87: S.H. SHEET 14 OF

SHEET 14 OF 34

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	AM AND WETLAND IMP	
STREAM/WETLAND	CLASSIFICATION	STATION
WETLAND-C	PAULUSTRINE EMERGENT	48+51.45
WETLAND-D	PAULUSTRINE EMERGENT	412+27.69
WETLAND-E	PAULUSTRINE EMERGENT	93+35.51
WETLAND-F	PAULUSTRINE EMERGENT	51+39.69
WETLAND-H	PAULUSTRINE EMERGENT	ACCESS ROAD #4
WETLAND-1	PAULUSTRINE EMERGENT	54.98.67
WETLAND-K	PAULUSTRINE EMERGENT	57+91.67
WETLAND-L	PAULUSTRINE EMERGENT	60+65.59
WETLAND-M	PAULUSTRINE EMERGENT	61+71.23
WETLAND-N	PAULUSTRINE EMERGENT	ACCESS ROAD #8
WETLAND-X	PAULUSTRINE EMERGENT	164+98.06
WETLAND-AB	PAULUSTRINE EMERGENT	CONTRACTOR WORK ARE
WETLAND-AD	PAULUSTRINE EMERGENT	154+11.96
WETLAND-AH	PAULUSTRINE EMERGENT	159+51.69
WETLAND-AK	PAULUSTRINE EMERGENT	169+14.40
WETLAND-AL	PAULUSTRINE EMERGENT	171+12.08
WETLAND-AQ	PAULUSTRINE EMERGENT	109+75.85
WETLAND-AR	PAULUSTRINE EMERGENT	108+89.60
WETLAND-AT	PAULUSTRINE EMERGENT	ACCESS ROAD #3
WETLAND-AU	PAULUSTRINE EMERGENT	ACCESS ROAD #3
WETLAND-AV	PAULUSTRINE EMERGENT	ACCESS ROAD #6
WETLAND-AW	PAULUSTRINE EMERGENT	ACCESS ROAD #6
WETLAND-AX	PAULUSTRINE EMERGENT	ACCESS ROAD #10
WETLAND-AY	PAULUSTRINE EMERGENT	ACCESS ROAD #10
UNT-5	EPHEMERAL	44+42.95
RIGHT FORK ARNOLD	PERENNIAL	47+85.5
CREEK CROSSING 1		
RIGHT FORK ARNOLD	PERENNIAL	ACCESS ROAD #1
CREEK CROSSING 2		
UNT-9	PERENNIAL	143+37.35
UNT-12	EPHEMERAL	140+00
UNT-17 CROSSING 1	EPHEMERAL	ACCESS ROAD #3
UNT-17 CROSSING 2	EPHEMERAL	55+91.48
UNT-18	EPHEMERAL	54+83.22
UNT-20	EPHEMERAL	ACCESS ROAD 5
UNT-21	PERENNIAL	ACCESS ROAD #8
UNT-23	EPHEMERAL	ACCESS ROAD 3
UNT-25	INTERMEDIATE	ACCESS ROAD #8
EFT FORK ARNOLD CREEK CROSSING 1	PERENNIAL	147+26.61
EFT FORK ARNOLD CREEK CROSSING 2	PERENNIAL	ACCESS ROAD #9
UNT-37	EPHEMERAL	150+23.77
UNT-38	EPHEMERAL	151+60.89
UNT-39	EPHEMERAL	159+21.76
UNT-40	EPHEMERAL	153+35.68
UNT-41	EPHEMERAL	153+04.66
UNT-42	EPHEMERAL	169+08.16
UNT-44	EPHEMERAL	159+37.50
UNT-47	INTERMEDIATE	171+31.10
UNT-52	EPHEMERAL	ACCESS ROAD 3
UNT-53	EPHEMERAL	ACCESS ROAD 3
UNT-54	EPHEMERAL	ACCESS ROAD 3
UNT-55	EPHEMERAL	ACCESS ROAD #10

STREAM AND WETLAND LOCATION MAP SEAL **REVISION RECORD** Gathering LLC

OXFORD 1 TO EQT GAS/WATER PIPELINES

SHEET 17 OF 34

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	EAM AND WETLAND IMP	
STREAM/WETLAND	CLASSIFICATION	STATION
WETLAND-C	PAULUSTRINE EMERGENT	48+51.45
WETLAND-D	PAULUSTRINE EMERGENT	412+27.69
WETLAND-E	PAULUSTRINE EMERGENT	93+35.51
WETLAND-F	PAULUSTRINE EMERGENT	51+39.69
WETLAND-H	PAULUSTRINE EMERGENT	ACCESS ROAD #4
WETLAND-I	PAULUSTRINE EMERGENT	54.98.67
WETLAND-K	PAULUSTRINE EMERGENT	57+91.67
WETLAND-L	PAULUSTRINE EMERGENT	60+65.59
WETLAND-M	PAULUSTRINE EMERGENT	61+71.23
WETLAND-N	PAULUSTRINE EMERGENT	ACCESS ROAD #8
WETLAND-X	PAULUSTRINE EMERGENT	164+98.06
WETLAND-AB	PAULUSTRINE EMERGENT	CONTRACTOR WORK ARE
WETLAND-AD	PAULUSTRINE EMERGENT	154+11.96
WETLAND-AH	PAULUSTRINE EMERGENT	159+51.69
WETLAND-AK	PAULUSTRINE EMERGENT	169+14.40
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WETLAND-AU	PAULUSTRINE EMERGENT	ACCESS ROAD #3
WETLAND-AV	PAULUSTRINE EMERGENT	ACCESS ROAD #6
WETLAND-AW	PAULUSTRINE EMERGENT	ACCESS ROAD #6
WETLAND-AX	PAULUSTRINE EMERGENT	ACCESS ROAD #10
WETLAND-AY	PAULUSTRINE EMERGENT	ACCESS ROAD #10
UNT-5	EPHEMERAL	44+42.95
RIGHT FORK ARNOLD		
CREEK CROSSING 1	PERENNIAL	47+85.5
RIGHT FORK ARNOLD		†
CREEK CROSSING 2	PERENNIAL	ACCESS ROAD #1
UNT-9	PERENNIAL	143+37.35
UNT-12	EPHEMERAL	140+00
UNT-17 CROSSING 1	EPHEMERAL	ACCESS ROAD #3
UNT-17 CROSSING 2	EPHEMERAL	55+91.48
UNT-18	EPHEMERAL	54+83.22
UNT-20	EPHEMERAL	ACCESS ROAD 5
UNT-21	PERENNIAL	ACCESS ROAD #8
UNT-23	EPHEMERAL	ACCESS ROAD 3
UNT-25	INTERMEDIATE	ACCESS ROAD #8
LEFT FORK ARNOLD CREEK	PERENNIAL	147+26.61
CROSSING 1		-
LEFT FORK ARNOLD CREEK	PERENNIAL	ACCESS ROAD #9
CROSSING 2		
UNT-37	EPHEMERAL	150+23.77
UNT-38	EPHEMERAL	151+60.89
UNT-39	EPHEMERAL	159+21.76
UNT-40	EPHEMERAL	153+35.68
UNT-41	EPHEMERAL	153+04.66
UNT-42	EPHEMERAL	169+08.16
UNT-44	EPHEMERAL	159+37.50
UNT-47	INTERMEDIATE	171+31.10
UNT-52	EPHEMERAL	ACCESS ROAD 3
UNT-53	EPHEMERAL	ACCESS ROAD 3
UNT-54	EPHEMERAL	ACCESS ROAD 3
/	EPHEMERAL	ACCESS ROAD #10

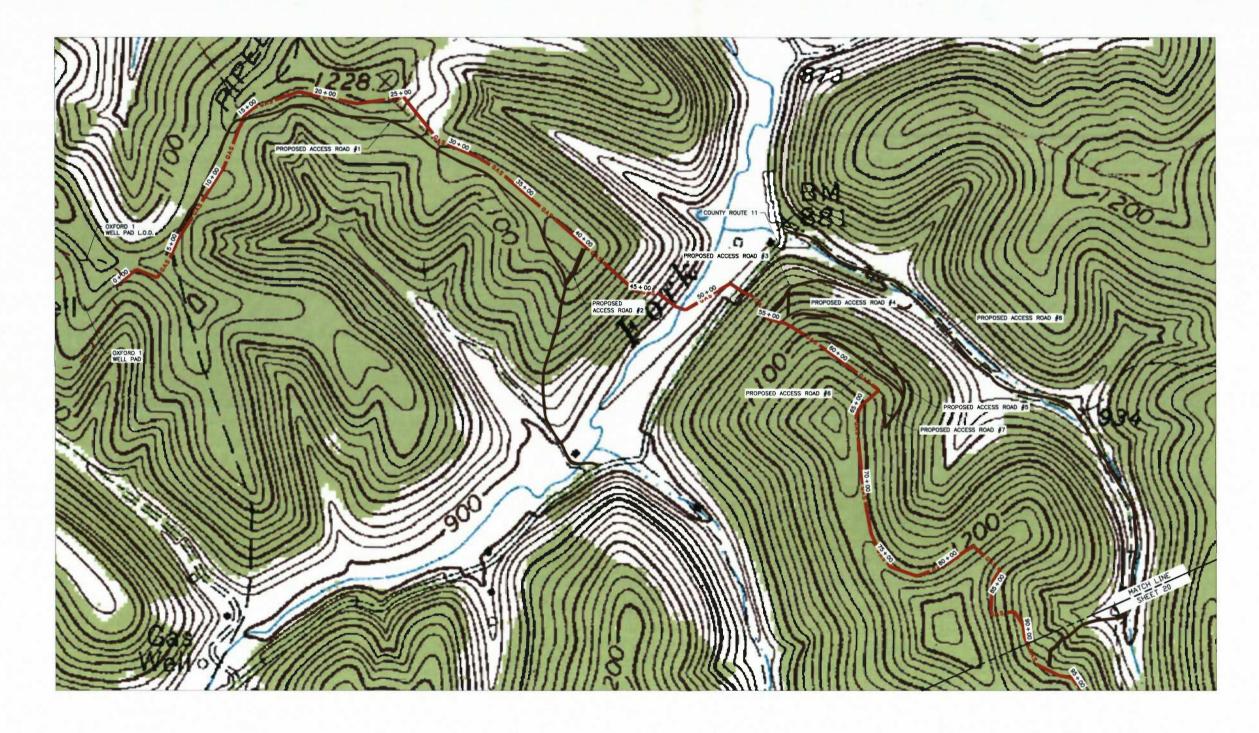
REVISION RECORD

OXFORD 1 TO EQT GAS/WATER PIPELINES

STREAM AND WETLAND LOCATION MAP

Gathering LLC

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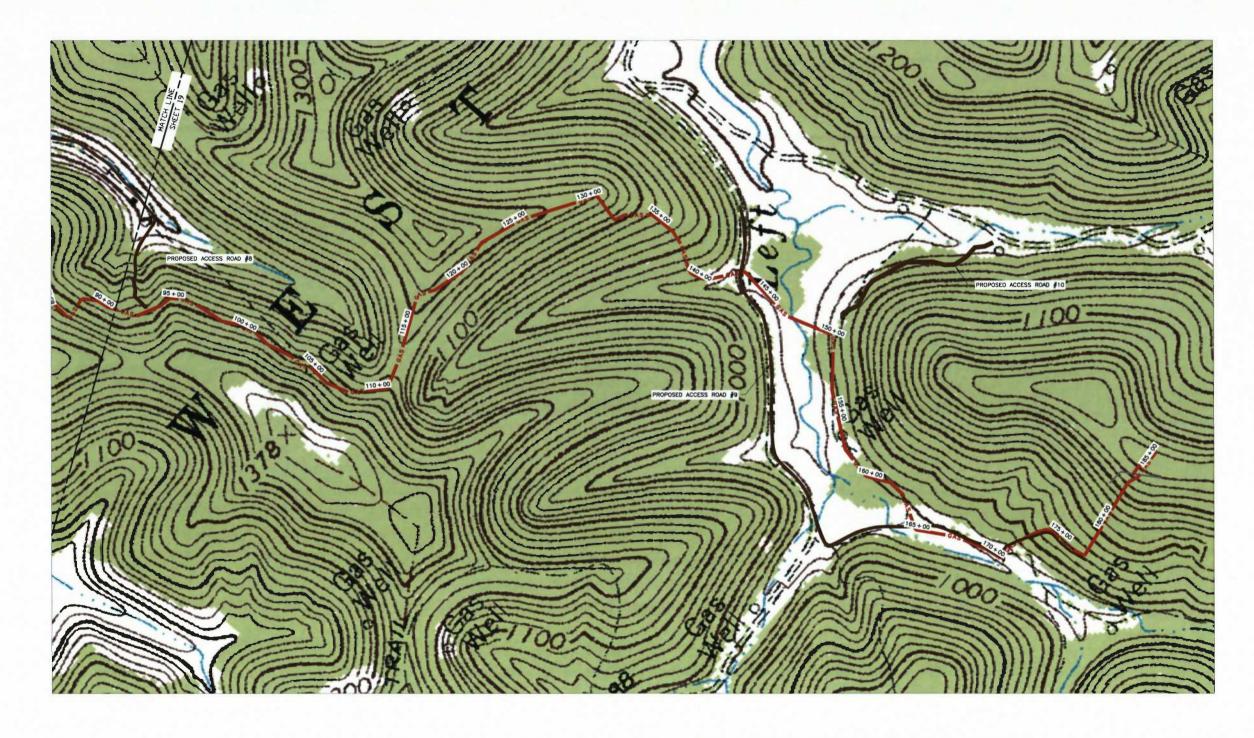


Civil & Environmental Consultants, Inc.
99 Cambridge Place - Bridgeport, W 28330
Ph: 304.833.3119 - Fax: 304.833.3327
www.oscinc.com

		ACCESS ROADS
ACCESS ROADS	LENGTH	DESCRIPTION
TEMPORARY ACCESS ROAD #1	4,970 LF	LIMITED TO EXISTING SURFACE WIDTH-TEMPORARY ACCESS ROAD #1, STA 14+27.15
TEMPORARY ACCESS ROAD #2	245 LF	20' WIDTH-TEMPORARY ACCESS ROAD #2, STA. 40+43.67
TEMPORARY ACCESS ROAD #3	1,050 LF	LIMITED TO 30' L.O.DTEMPORARY ACCESS ROAD #3, STA. 55+00
TEMPORARY ACCESS ROAD #4	155 LF	LIMITED TO 30' LO.DTEMPORARY ACCESS ROAD #4, STA. 56+18.56
TEMPORARY ACCESS ROAD #5	1,240 LF	LIMITED TO 30' LO.DTEMPORARY ACCESS ROAD #5, STA. 56+37.17
TEMPORARY ACCESS ROAD #6	670 LF	LIMITED TO 30' L.O.DTEMPORARY ACCESS ROAD #6, STA. 58+35
TEMPORARY ACCESS ROAD #7	180 LF	LIMITED TO 30' LO.DTEMPORARY ACCESS ROAD #7, STA. 63+63.81
TEMPORARY ACCESS ROAD #8	4,325 LF	LIMITED TO EXISTING SURFACE WIDTH-TEMPORARY ACCESS ROAD #8, STA. 63+13.71
TEMPORARY ACCESS ROAD #9	4,160 LF	LIMITED TO EXISTING SURFACE WIDTH-TEMPORARY ACCESS ROAD #9, STA. 142+66, STA. 164+78
TEMPORARY ACCESS ROAD #10	1,160 LF	LIMITED TO 30' LO.DTEMPORARY ACCESS ROAD #10, STA. 149+50



AD LOCATION MAP		EVISION RECORD	R		SEAL
Gathering LLC	(401.6	DESCRIPTION	DATE	NO.	,
ORD 1 TO EQT ATER PIPELINES of GATHERING LINE DISTRICT, DODORIDGE COUNTY, WY	GAS/WA				aki
PROJECT NO: 131-955	DATE: 11/22/2013				X
	SCALE: 1" = 300"				1.
SHEET 19 OF 34	DRAWN BY: BJH				
SHEET IN OF 34	CHECKED BY: GSL				



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99 Cambridge Place - Bridgeport, WV 26330
Ph: 304.933.3119 · Fax: 304.933.3327
www.cecinc.com

		ACCESS ROADS
ACCESS ROADS	LENGTH	DESCRIPTION
TEMPORARY ACCESS ROAD #1	4,970 LF	UMITED TO EXISTING SURFACE WIDTH-TEMPORARY ACCESS ROAD #1, STA 14+27.15
TEMPORARY ACCESS ROAD #2	245 LF	20' WIDTH-TEMPORARY ACCESS ROAD #2, STA. 40+43.67
TEMPORARY ACCESS ROAD #3	1,050 LF	LIMITED TO 30' LO.DTEMPORARY ACCESS ROAD #3, STA. 55+00
TEMPORARY ACCESS ROAD #4	155 LF	LIMITED TO 30' LO.DTEMPORARY ACCESS ROAD #4, STA. 56+18.56
TEMPORARY ACCESS ROAD #5	1,240 LF	LIMITED TO 30' LO.DTEMPORARY ACCESS ROAD #5, STA. 56+37.17
TEMPORARY ACCESS ROAD #6	670 LF	LIMITED TO 30' LO.DTEMPORARY ACCESS ROAD #6, STA. 58+35
TEMPORARY ACCESS ROAD #7	180 LF	LIMITED TO 30' LO.DTEMPORARY ACCESS ROAD #7, STA. 63+63.81
TEMPORARY ACCESS ROAD #8	4,325 LF	LIMITED TO EXISTING SURFACE WIDTH-TEMPORARY ACCESS ROAD #8, STA. 63+13.71
TEMPORARY ACCESS ROAD #9	4,160 LF	LIMITED TO EXISTING SURFACE WIDTH-TEMPORARY ACCESS ROAD #9, STA. 142+66, STA. 164+78
TEMPORARY ACCESS ROAD #10	1,160 LF	LIMITED TO 30' LO.DTEMPORARY ACCESS ROAD #10, STA. 149+50

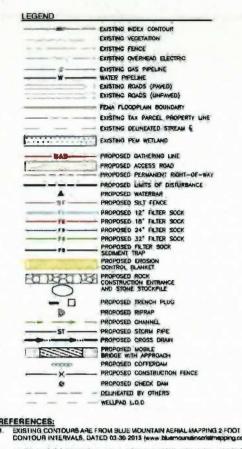


SEAL		R	EVISION RECORD	T I
1	NO.	DATE	DESCRIPTION	
4	•			
OB,				
4				
<u> </u>				

OXFORD 1 TO EQT GAS/WATER PIPELINES

Gathering LLC

ACCESS ROAD LOCATION MAP



- AERIAL PHOTOGRAPHY IS DERIVED FROM BLUE MOUNTAIN AERIAL MAPPING
- THIS IS NOT A BOUNDARY SURVEY, BOUNDARY LINES AS SHOWN HEREON A REMARKED ON TAX PARCEL INFORMATION DERIVED FROM G.I.S.
- BY GRAPHIC PLOTTING DNLY, THIS PIPELINE IS NOT LOCATED IN THE RIGHT FO PK. ARNOLD CREEK FLOODPLAIN ACCHOING TO THE FLOOD INSURANCE RATE MA UP FOR DOODHOEGE COUNTY, WAR PSIGNT FORCES, WITH A MAP REVISED DATE OF COTO OBER
- USGS 7.5 MIN. TOPOGRAPHIC OUADHANGLE OXFORD, WY, DATED 1956; PHOTOHEVISED 1954.
- WETLAND DELINEATIONS BASED ON WETLAND SURVEYS CONDUCTED BY CSC. BETWEEN DB 2013 AND 10 2013.

- (1) FURNISH AND INSTALL COMPOST FILTER SOCK PER DETAIL 7 ON BHEET 32 (TYPICAL)
- (2) FURNISH AND INSTALL TRENCH PLUG PER DETAILS ON SHEET 32 (TYPICAL)
- (3) FURNISH AND INSTALL EROSION CONTROL BLANKET PER DETAILS 2 AND 3 ON SHEET 31 (TYPICAL).
- (4) FURNISH AND INSTALL WATERBAR PER DETAIL 8 ON BHEET 32 (TYPICAL)
- (B) FURNISH AND INSTALL COMPOST FILTER BOCK SEDIMENT TRAP PER DETAIL 9 ON SHEET 32 (TYPICAL).
- (6) FURNISH AND INSTALL CROSS DRAWAS PER DÉTAIL 18 ON BHEET 34 (TYPICAL)
- (7) FURNISH AND INSTALL OPEN CUT OR FLUME CROSSING PER DETAILS 10 OR 11 ON 6HEET 33
- (8) FURNISH AND INSTALL CULVERT PER DETAIL 14 ON SHEET 33 (TYPICAL)
- FURNISH AND INSTALL OPEN CUT WETLAND CROSSING PER DETAIL 12 ON SHEET 33
- (1) FURNISH AND INSTALL BORE AND JACK CROSSING PER DETAIL 15 ON SHEET 33.
- (i) FURNISH AND INSTALL TIMBER MAT BRIDGE PER DETAIL 17 ON SHEET 34.
- (2) FURNISH AND INSTALL CONSTRUCTION ACCESS ROAD PER DETAIL S ON SHEET 31.
- (3) FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET 31.



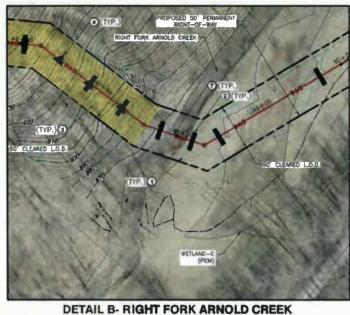
Civil & Environmental Consultants, Inc.

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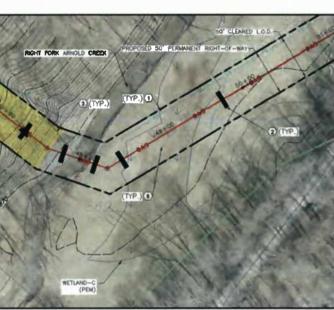
DETAIL A- UNT 5 (EPH) STREAM CROSSING

- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN.
 INSTALL COMPOST FILTER SOCK AT OUTILET OF WATERBARS.
- INSTALL A COMPOST FILTER SEDIMENT TRAP IN THE CHANNEL ADJACENT TO THE PIPELINE LO D. IN ACCORDANC, IS WITH DETAIL BON SHEET 32
- INSTALL TIMBER MATS OVER THE STREAM FOR VEHICLE ACCESS



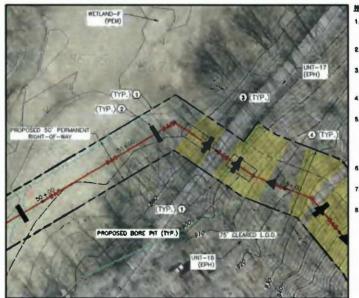
CROSSING

- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN INSTALL COMPOST FILTER SOCK AT QUILET OF WATERBARS
- REFER TO DETAIL 11 OR 13 ON SHEET 33 FOR CROSS SECTION OF FILIME PIPE WITH SAND BAG COFFERDAM
- INSTALL FLUME PIPE ON EXISTING STREAMBED IMMEDIATELY PAIGH TO UTILITY LINE INSTALLATION, FLUME PIPE SHALL ONLY REWAIN IN PLACE DURING THE UTILITY LINE INSTALLATION TIME PERIOD THE UTILITY LINE INSTALLATION TIME PERIOD IS 24 HOURS FOR A STREAM WITH A 10 BOTTOM WIDTH UNLESS OTHERWISE APPROYED IN WRITING BY THE BOTTOM WIDTH UNLESS OTHERWISE APPROYED IN WRITING BY THE
- INSTALL WATERBARS AT APPROACH TO STHEAM CHOOSING AND FILTER SOCK ALONG STREAM BANKS, INSTALL COMPOST FILTER SOCK AT OLITET OF WATERBARS.
- INSTALL A ROCK PAD APPROACH TO PRIOR TO THE THATER MATE
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF INCHES ABOVE ORIGINAL GRADE
- MOBILE BRIDGE IS TO EXTEND FROM TOP OF BANK TO TOP OF BANK OF THE ETREAM, CONTRACTOR SHALL NOT PLACE FILLUNDER THE MOBILE BRIDGE, FLUME PIPE SHALL NOT SUPPORT MOBILE BRIDGE.
- CONTRACTOR WAY SUPPLEMENT FILIME PIPE SHOWN WITH ADDITIONAL FILIME PIPES OR PUMPS TO ACCOMMODATE STREAM FLOW DURING CONSTRUCTION.
- DEWATERING ZONE IS TO BE PUMPED OUT USING A PUMP AND FILTER BAG
- 10. GEOTEXTILE SHALL BE AFTACHED TO THE UNDERSIDE OF THE TIMBER WAT
- 11. THESE NOTES PERTAIN TO A FLUME CROSSING REFER TO DETAIL 18. NOTES ON SHEET 33 IF TRENCHING OPTION IS USED.



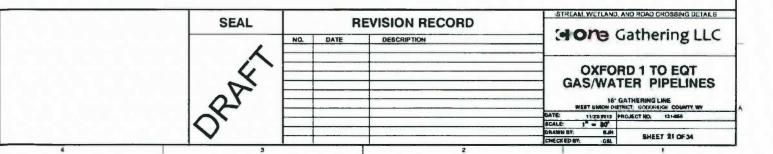
DETAIL C - WETLAND C (PEM) CROSSING

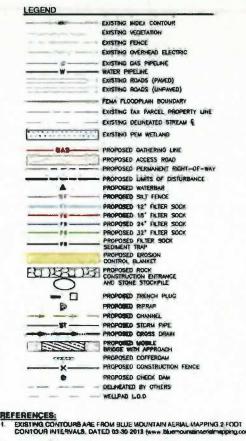
- INSTALL COMPOST FILTER SOCK ACROS IS THE RIGHT-OF-WAY, MANEDIATELY UP-BLOPE OF THE WETLA. NO BOUNDARY, AT THE EDGE OF THE RIGHT OF-WAY, AND AS NECESSAR IY, AROUND SOIL STOCKPILE.
- EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER MATS FOR VEHICULAR CRO SSING OF WETLAND. VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBBER MATS.
- INSTALL TRENCH PLUGS ON EACH SIDE. DF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETL AND OR CHANGING HYDROLOGY
- WHEN EXCAVATING TRENCH IN WETLAN ID, EXCAVATE WETLAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE SEPAPATELY FROM SUBSOIL DURING BACKFILING OF TRENCH, REPLACE TOPPSOIL IN TOP OF TRENCH TO RESTORE WETLAND. STOCKPILE SOIL O INTO GEOTEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH. (UNLESS T. THERE IS STANDING WATER OR THE SOIL IS TO SATURATED TO SEGREGATE....)
- SWAMP MATS SHOULD BE UTILIZED IN WYORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLA NOS.
- UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP MATS, INSTALL WATERBARS, AND RESTORE WETLAND TITO EXISTING GRADE.
- REE DETAIL 12 ON SHEET SS.



DETAIL D - WETLAND F (PEM) CROSSING

- INSTALL COMPOST FILTER SOCK ACADSS THE RIGHT-OF-MAY, IMMEDIATELY UP SLOPE OF THE WETLAND BOUNDARY, AT THE EDGE OF THE RIGHT-OF-WAY, AND AS NECESSARY, AROUND SOIL STOCKPILE.
- EQUIPMENT STAGING AREA MUST BE LOCATED A VINIMUM OF 50 FEET FROM THE SOCIE OF THE WETLAND.
- USE TIMBER HATS FOR VEHICULAR CROSSING OF WEITLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WEITLAND CROSSING UNLESS THE WEITLAND IS BEING PROTECTED BY TIMBER HATS.
- INSTALL TRENCH PLUGS ON EACH SIDE OF THE WEILAND TO PREVENT THE TRENCHING FROM DRAINING WETLAND OR CHANGING HYDROLDGY
- WHEN EXCAVATING TRENCH IN WETLAND, EXCAVATE WETLAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE SEPARATELY FROM SUBSOIL DURING BACKFILLING OF TRENCH REPLACE TOPSOIL IN TOP OF TRENCH TO RESTORE WETLAND. STOCKPILE SOIL ONTO GEOTEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH, UNLESS THERE IS STANDING WATER OR THE SOIL IS TO SATURATED TO SEGNICIATE.
- SWAMP MATS SHOULD BE UTILIZED IN WORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLANDS
- UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP WATS INSTALL WATERBARS, AND RESTORS WETLAND TO EXISTING GRADE
- SEE DE FAIL 12 ON SHEET 35





- AERIAL PHOTOGRAPHY IS DERIVED FROM BLUE MOUNTAIN AERIAL MAPPING
- THIS IS NOT A BOUNDARY SURVEY, BOUNDARY LINES AS SHOWN HEREON A REBASED ON TAX PARCEL INFORMATION DERIVED FROM G.I.S.
- BY GRAPHIC PLOTTING ONLY, THIS PIPELINE IS NOT LOCATED IN THE RIGHT FO RK ARNOLD CREEK FLOODPILAIN ACCORDING TO THE FLOOD INSURANCE HATE MA UP FOR DOODRIDGE COUNTY, MAP #59017G0225G, WITH A MAP REVISED DATE OF OCTO OBER 4, 2011
- USGS 7.5 MIN. TOPOGRAPHIC QUADHANGLE OXFORD, WY, DATED 1656, PHOTOREVISED 1864
- WETLAND DELINEATIONS BASED ON WETLAND SURVEYS CONDUCTED BY CSC BETWEEN 08 2013 AND 10 2013.

- THRMSH AND INSTALL COMPOST FILTER SOCK PER DETAIL 7 ON SHEET 32 (TYPICAL).
- (2) FURNISH AND INSTALL TRENCH PLUG PER DETAIL 6 ON SHEET 32 (TYPICAL)
- 3 FURNISH AND INSTALL EROSION CONTROL BLANKET PER DETAILS 2 AND 3 ON SHEET 31 (PYPICAL)
- (4) FURNISH AND INSTALL WATERBAR PER DETAIL 8 ON SHEET 32 (TYPICAL)
- (5) FURNISH AND INSTALL COMPOST FILTER SOCK SEDIMENT TRAP PER DETAIL 9 ON SHEET 32 (TYPICAL).
- (5) FURNISH AND INSTALL CROSS DRAWAS PER DETAIL 18 ON SHEET 34 (TYPICAL)
- (7) FURNISH AND INSTALL OPEN CUT OR FLUME CROSSING PER DETAILS 10 OR 11 ON SHEET 33
- (B) FURNISH AND INSTALL CULVERT PER DETAIL 14 ON SHEET 33 (TYPICAL)
- 9 FURNISH AND INSTALL OPEN CUT WETLAND CROSSING PER DETAIL 12 ON SHEET 33
- (1) FURNISH AND INSTALL HORE AND JACK CROSSING PER DETAIL 15 ON SHEET 33.
- FURNISH AND INSTALL TIMBER MAT BRIDGE PER DETAIL 17 ON SHEET 34.
- (12) FURNISH AND INSTALL CONSTRUCTION ACCESS ROAD PER DETAIL 5 ON SHEET 31.
- FURNISH AND INSTALL STABSLIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET 31.



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WETLAND I UNT-17 (EFH) (TYP.)(2) OTH

DETAIL E - C.R. 11 **BORE AND JACK CROSSING**



DETAIL G - UNT 18 & 17 (EPH) STREAM CROSSING

UNT-18

NOTES:

UNT-17

NOTES:

INSTALL WATERBARS AT APPROACH TO STREAM CHOSSING AS SHOWN. INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.

REFER TO DETAIL 11 OR 19 ON SHEET 39 FOR CROSS SECTION OF FLUME PIPE WITH BAND BAG COFFERDAM.

INSTALL FLUME PIPE ON EXISTING STAE: AMBED IMMEDIATELY PRIOR TO UTILITY LINE WASTALLATION. FLUME PIPE: SHALL ONLY REMAIN IN PLACE DURING THE UTILITY LINE INSTALLATION IT TIME PERIOD. THE UTILITY LINE INSTALLATION TIME PERIOD IS SU-HOURS FOR A STREAM WITH A 10 BOTTOM WIDTH OR LESS AND 48-HOURS FOR A STREAM WITH A 10-BOTTOM WIDTH UNLESS OTHERWISE AP PROVED IN WRITING BY THE

INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AND FILTER SOCK ALONG STREAM BANKS INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.

APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE ORIGINAL GRADE.

MOBILE BRIDGE IS TO EXTEND FROM TO JP OF BANK TO TOP OF BANK OF THE BTREAM, CONTRACTOR SHALL NOT PLACE FILL UNDER THE MOBILE BRIDGE, FLUME PIPE SHALL NOT SUPPO JRT MOBILE BRIDGE.

CONTRACTOR MAY SUPPLEMENT FLUME E PIPE SHOWN WITH ADDITIONAL FLUME PIPES OR PUMPS TO ACCOMMODDATE STREAM FLOW DURING CONSTRUCTION.

DEWATERING ZONE IS TO BE PUMPED O JUT USING A PUMP AND FILTER BAG

GEOTEXTILE SHALL BE ATTACHED TO THRE UNDERSIDE OF THE TIMBER MAT

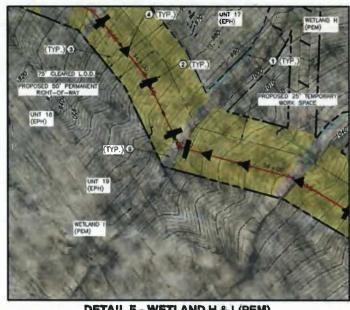
INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN. INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.

2. INSTALL A COMPOST FILTER SEDIMENT TRAP IN THE CHANNEL ADJACENT TO THE PIPELINE LO.D. IN ACCORDAN. CE WITH DETAIL 9 ON SHEET \$2.

9 INSTALL TIMBER WATS OVER THE STREAM FOR VEHICLE ACCESS

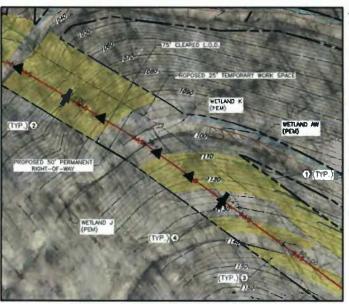
INSTALL A ROCK PAD APPROACH 10 PRI IOR TO THE TIMBER MATS.

SEE DETAIL 15 ON SHEET 39



DETAIL F - WETLAND H & I (PEM) CROSSING

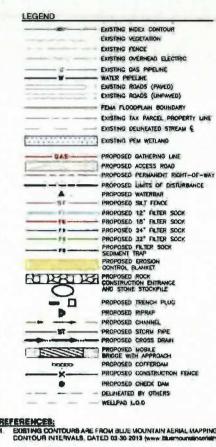
- INSTALL COMPOST FILTER SOCK ACROSS THE RIGHT-OF-WAY, IMMEDIATELY UP SLOPE OF THE WETLAND BOUNDARY, AT THE EDGE OF THE RIGHT OF-WAY, AND AS NECESSARY, AROUND SOIL STOCKPILE.
- EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER MATS FOR VEHICULAR CROSSING OF WEILAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WEILAND CROSSING UNLESS THE WEILAND IS SEING PROTECTED BY TIMBER MATS.
- INSTALL TRENCH PLUGS ON EACH SIDE OF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETLAND OR CHANGING HYDROLOGY
- WHEN EXCAVATING TRENCH IN WETLAND, EXCAVATE WETLAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE SEPARATELY FROM SUBBOIL DURING BACKFILLING OF TRENCH, REPLACE TOPSOIL IN TOP OF TRENCH TO RESTORE WETLAND, STOCKPILE SOIL ONTO GEOTEXCITE IN THE SPOIL AREA NEXT TO THE TRENCH, LINILESS THERE IS STANDING WATER ON THE SOIL IS TO BATURATED TO SEGREGATE)
- SWAMP MATS SHOULD BE UTILIZED IN WORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLANDS.
- UPON RESTORATION, REMOVE GEOTEXHILL, SWAMP MATS MISTALL WATERBARS, AND RESTORE WETLAND TO EXISTING BRADE.
- SEE DETAIL IR ON SHEET 33



DETAIL H - WETLAND K & AW (PEM) CROSSING

- INSTALL COMPORT FILTER SOCK ACROSS THE RIGHT-OF-WAY, IMMEDIATELY UP SLOPE OF THE WETLAND BOUNDARY, AT THE EDGE OF THE RIGHT-OF-WAY, AND AS NECESSARY, AROUND SOIL 6TOCKPILE
- EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER WATS FOR VEHICULAR CHOSSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND OR BEING PROTECTED BY TIMBER WATS.
- INSTALL TRENCH PLUGS ON EACH SIDE OF THE WEILAND TO PREVENT THE TRENCHING FROM DRAINING WETLAND OR CHANGING HYDROLOGY
- WHEN EXCAVATING TRENCH IN WETLAND, DICAVATE WETLAND TOPSOIL (TOP IS INCHES) AND STOCKPILE BEPARATELY FROM SUBSOIL DURING BACKFELING OF TRENCH REPLACE TORPOIL IN TOP OF TRENCH TO RESTORE WETLAND, STOCKPILE SOIL ONTO GEOTEXTILE IN THE SPOIL AREA NICHT TO THE TRENCH, UNKESS THERE IS STANDING WATER OF THE SOIL OF THE SATIVATION OF SEGRICIANTS.
- SWAMP MATS SHOULD BE UTILIZED IN WORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLANDS
- UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP WATS, INSTALL WATERBARS, AND RESTORE WETLAND TO EXISTING GRADE
- SEE DE JAIL 12 ON SHEET 25

, -	NO. D				
		ATE	DESCRIPTION	- Gove	Gathering LLC
8				OXFO GAS/WA	RD 1 TO EQT TER PIPELINES
2					GATHERING LINE STRICT, DODGRIGGE COUNTY WY



EXISTING CONTOURS ARE FROM BLUE WOUNTAIN AERIAL MAPPING 2-FOOT CONTOUR INTERVALS, DATED 03-30-2013 (www.bluemountaingerialmapping.co

AERIAL PHOTOGRAPHY IS DERIVED FROM BLUE MOUNTAIN AERIAL MAPPING

THIS IS NOT A BOUNDARY SURVEY. BOUNDARY LINES AS SHOWN HEREON A REBASED ON TAX PARCEL INFORMATION DERIVED FROM GLS.

BY GRAPHIC PLOTTING ONLY, THIS PIPELINE IS NOT LOCATED IN THE RIGHT FO RIGHT FO ANNULD CREEK "LIDODIPLAIN ACCORDING TO THE FLOOD INSURANCE RATE MA UP FOR DOODRINGS COUNTY, WAR PERSON TO ARE POST OF OCTOOD OBER

UBGS 7.6 MIN. TOPOGRAPHIC QUADHANGLE OXFORD, WY, DATED 1956; PHOTOREVIBED 1994

WETLAND DELINEATIONS BASED ON WETLAND SURVEYS CONDUCTED BY CEC BETWEEN DB 2013 AND 10-2013.

TURNISH AND INSTALL COMPOST FILTER SOCK PER DETAIL 7 ON SHEET 32 (TYPICAL).

(2) FURNISH AND INSTALL TRENCH PLUG PER DETAIL 6 ON SHEET 32 (TYPICAL)

(3) FURNISH AND INSTALL EROSION CONTROL BLANKET PER DETAILS 2 AND 3 ON 8-FEET 31 (TYPICAL).

(4) FURNISH AND INSTALL WATERBAR PER DETAIL 8 ON BHEET 32 (TYPICAL).

(E) FURNISH AND INSTALL COMPOST FILTER SOCK SEDIMENT TRAP PER DETAIL 9 ON SHEET 32 (1YPICAL).

(E) FURNISH AND INSTALL CROSS DRAIN AS PER DETAIL 18 ON SHEET 34 (TYPICAL)

(7) FURNISH AND INSTALL OPEN CUT OR FLUME CROSSING PER DETAILS 10 OR 11 ON SHEET 33

(I) FURNISH AND INSTALL CULVERT PER DETAIL 14 ON SHEET 33 (TYPICAL).

FURNISH AND INSTALL OPEN GUT WETLAND CROSSING PER DETAIL 12 ON 5-HEET 33

(I) FURNISH AND INSTALL BORE AND JACK CROSSING PER DETAIL 15 ON SHEET 33.

(ii) FURNISH AND INSTALL TIMBER MAT BRIDGE PER DETAIL 17 ON SHEET 34.

(2) FURNISH AND INSTALL CONSTRUCTION ACCESS ROAD PER DETAIL 5 ON SHEET 31.

13 FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET 31



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WETLAND-M (PEM) 75 CLEARED LO.D.

DETAIL I - WETLAND L, & M (PEM) CROSSING

INSTALL COMPOST FILTER SOCK ACROS SS THE RIGHT-OF WAY, MANEDIATELY UP-SLOPE OF THE WETLA IND BOUNDARY, AT THE EDGE OF THE RIGHT OF WAY, AND AS NECESSAR IY, AROUND SOIL STOCKPILE.

EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.

USE TIMBER MATS FOR VEHICULAR CRO 388ING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBBER MATS.

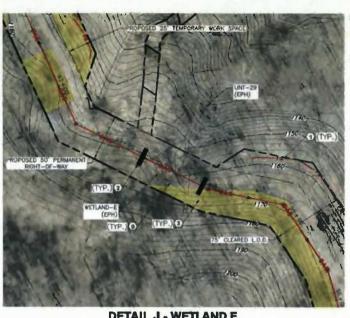
INSTALL TRENCH PLUGS ON EACH SIDE. OF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETL AND OR CHANGING HYDROLOGY

WHEN EXCAVATING TRENCH IN WEILAN ID, EXCAVATE WEILAND TOPSOIL (TOP 18 INCHES) AND STOCKPILE SEPARATELY FROM SUBSOIL DURING BACKFILLING OF TRENCH, REPLACE TOP PSOIL IN TOP OF TRENCH TO RESTORE WEILAND, STOCKPILE SOIL O INTO GEDIEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH, LINLESS IT HERE IS STANDING WATER OR THE SOIL IS TO SATURATED TO SEGREGATE...)

SWAMP MATS SHOULD BE UTILIZED IN WYORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLA NOS.

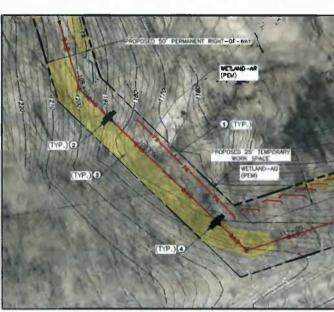
UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP MATS, INSTALL WATERBARS, AND RESTORE WETLAND TIO EXISTING GRADE.

SEE DETAIL 12 ON SHEET 33



DETAIL J - WETLAND E CROSSING

- INSTALL COMPOST FILTER BOCK ACROSS THE RIGHT-OF-WAY, IMMEDIATELY UP-SLOPE OF THE WETLAND BOUNDARY. AT THE EDGE OF THE RIGHT-OF-WAY, AND AS NECESSARY, AROUND SOIL STOCKPILE
- EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER MATS FOR VEHICULAR CROSSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBER MATS.
- INSTALL TRENCH PLUGS ON EACH SIDE OF THE WETLAND TO PREVENT THE TRENCHING FROM GRAINING WETLAND OR CHANGING HYDROLOGY
- WHEN EXCAVATING THENCH IN WETLAND, EXCAVATE WETLAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE BEPARATELY FROM BURSOIL DURING BACKFILLING OF THENCH, REPLACE TOPSOIL IN 100 OF THENCH TO RESTORE WETLAND. STOCKPILE SOIL ONTO GEOTEXTILE IN THE SPOIL AREA NICKT TO THE TRENCH (UNLESS THERE IS STANDING WATER ON THE SOIL BY TO SATURATED TO SEGREGATE)
- SWAMP MATS SHOULD BE UTILIZED IN WORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLANDS
- UPON HESTORATION, REMOVE GEOTEVIILE, SWAMP MATS, INSTALL WATERBARS, AND RESTORE WETLAND TO EXISTING BRADE
- SEE DETAIL 12 ON SHEET 33



DETAIL K - WETLAND AR & A Q (PEM) CROSSING

INSTALL COMPOST FILTER SOCK ACROS IS THE RIGHT-OF-WAY, IMMEDIATELY UP-SLOPE OF THE WETLA. NO BOUNDARY, AT THE EDGE OF THE RIGHT-OF-WAY, AND AS NECESSAR IY, AROUND SOIL STOCKPILE.

EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.

USE TIMBER WATS FOR VEHICULAR CHO XSSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBER MATS.

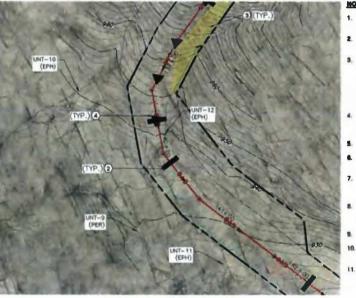
INSTALL TRENCH PLUGS ON EACH SIDE. OF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETL. AND OR CHANGING HYDROLOGY

WHEN EXCAVATING TRENCH IN WETLAN ID, EXCAVATE WETLAND TOPSOIL (TOP 12 INCHES) AND BTOCKPILE BEPARATELY FROM BUBSOIL OURING BACKFILING OF TRENCH REPLACE TOPPOIL IN TOP OF TRENCH TO RESTORE WETLAND, STOCKPILE SOIL O INTO GEOTEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH. (UNLESS T THERE IS STANDING WATER OR THE SOIL IS TO SATURALED TO SEGREGATE.

SWAMP MATS SHOULD BE UTILIZED IN WYORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLA NOS.

UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP MATS, INSTALL WATERBARS, AND RESTORE WETLAND 1 TO EXISTING GRADE.

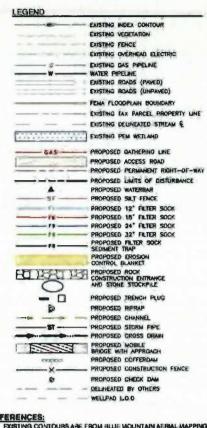
REE DETAIL 12 ON SHEET 38.



DETAIL L - UNT 12 (EPH) STREAM CROSSING

- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS S-KWN.
 INSTALL COMPOST FILTER SOOK AT OUTLET OF WATERBARS.
- REFER TO DETAIL 11 OR 13 ON SHEET 35 FOR CHOSS SECTION OF FLUME PIPE WITH SAND BAG COFFERDAM
- INSTALL FLUME PIPE ON EXISTING BY REAMBED IMMEDIATELY PRIOR TO UTILITY LINE INSTALLATION. FLUME PIPE SHALL ONLY REWAYN IN PLACE ID URING THE UTILITY LINE INSTALLATION THE PERIOD. THE UTILITY LINE INSTALLATION TIME PERIOD IS 24 HOURS FOR A STREAM WITH A 10 BOTTOM WID IT ON LESS AND A SHOUND FOR A STREAM WITH A 10 100 BOTTOM WID IT ON LESS AND A SHOUND FOR A STREAM WITH A 10 100 BOTTOM WID IT ON LESS AND A SHOUND IN WITH IN STREAM
- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AND FILTER SOCK ALONG STREAM BANKS. INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- INSTALL A ROCK PAD APPROACH TO PRICH TO THE TIMBER MAIS.
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6-INCHES ABOVE ORIGINAL GRADE.
- MOBILE BRIDGE IS TO EXTEND FROM TOP OF BANK TO TOP OF BANK OF THE STREAM. CONTRACTOR SHALL NOT PLACE FILL WIDER THE MOBILE BRIDGE. FLUME PIPE SHALL NOT SUPPORT MOBILE BRIDGE.
- CONTRACTOR MAY SUPPLEMENT TILIME PIPE SHOWN WITH ADDITIONAL FILIME PIPES OR PLMPS TO ACCOMMODATE STREAM FLOW DURING CONSTRUCTION.
- DEWATERING ZONE IS TO SE PUMPED OUT LISING A PUMP AND FILTER BAG.
- 10. GEOTEXTILE SHALL BE ATTACHED TO THE UNDERSIDE OF THE TIMBER MAT
- THESE NOTES PERTAIN TO A FLUME CROSSING REFERTO DETAIL IN NOTES ON SHEET 33 IF TRENCHING OPTION IS USED.

STREAM, WETLAND, AND ROAD CROSSING DETAILS SEAL **REVISION RECORD** Gathering LLC NO. DATE DESCRIPTION **OXFORD 1 TO EQT** GAS/WATER PIPELINES DATE: 11/22/2013 PROJECT NO. 131465 SCALE: 1" = 80" SHEET 23 OF 34



REFERENCES:

EXISTING CONTOURS ARE FROM BLUE MOUNTAIN AERIAL MAPPING 2-FODT CONTOUR INTERVALS, DATED 03:30 2013 (www.bluemountainceristmepping.co

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BY GRAPHIC PLOTTING ONLY, THIS PIPELINE IS NOT LOCATED IN THE RIGHT FO RK AHNOLD CREEK FLOODPHAIN ACCORDING TO THE FLOOD INSURANCE RATE MA UP FOR DOODPHORE COUNTY, MAY PERSHIT DOOD THE COUNTY OF THE PRINT FOR THE MAY PRINTED DATE OF COTO OBER

USGS 7.5 MIN. TOPOGRAPHIC OUADHANGLE OXFORD, WY, DATED 1986; PHOTORICVISIED 1994

WETLAND DELINEATIONS BASED ON WETLAND SURVEYS CONDUCTED BY CEC BETWEEN DB 2013 AND 10 2013.

1) FURNISH AND INSTALL COMPOST FILTER SOCK PER DETAIL 7 ON SHEET 32 (TYPICAL)

(2) FURNISHAND INBIALL TRENCH PLUG PER DETAIL 5 ON SHEET 32 (TYPICAL)

3 FURNISH AND INSTALL EROSION CONTROL BLANKET PER DETAILS 2 AND 3 ON SHEET 31 (TYPICAL).

(4) FURNISH AND INSTALL WATERBAR PER DETAIL 8 ON BRIEF 32 (TYPICAL).

(5) FURNISH AND INSTALL COMPOST FILTER BOOK BEDIMENT TRAP PER DETAIL 9 ON SHEET 32 (1YPICAL).

(7) FURNISH AND INSTALL OPEN CUT OR FLUME CROBBING PER DETAILS 10 OR 11 ON SHEET 33

(8) FURNISH AND INSTALL CULVERT PER DETAIL 14 ON SHEET 33 (TYPICAL)

FURNISH AND INSTALL OPEN GUT WEILAND CROSSING PER DETAIL 12 ON 5-REET 33

(19) FURNISH AND INSTALL BORE AND JACK CROSSING PER DETAIL 15 ON SHEET 33

FURNISH AND INSTALL TIMBER MAT GRIDGE PER DETAIL 17 ON SHEET 34.

(3) FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET 31.



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DETAIL M - WETLAND D (PEM) CROSSING

INSTALL COMPOST FILTER SOCK ACROS 3S THE RIGHT OF 4WAY, IMMEDIATELY UP-SLOPE OF THE WETLA IND SOUNDARY, AT THE EDGE OF THE RIGHT OF-WAY, AND AS NECESSAR IY, AROUND SOIL STOCKPILE.

EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF SO FEET FROM THE EDGE OF THE WETLAND.

USE TIMBER WATS FOR VEHICULAR CRO ISSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBBER MATS.

INBTALL THENCH PLUGS ON EACH SIDE OF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETL AND OR CHANGING HYDROLOGY

WHEN EXCAVATING TRENCH IN WEILAN ID, EXCAVATE WEILAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE SERVANTELY FROM SUBSOIL CURING BACKFILLING OF TRENCH, REPLACE 10P FSOIL IN 10P OF TRENCH TO RESTORE WEILAND, STOCKPILE SOIL O INTO GEOTEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH, LUNLESS T. HERR IS STANDING WATER OR THE SOIL IS TO SATURATED TO SEGREGATE.)

SWAMP MATS SHOULD BE UTILIZED IN WYORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLA NOS.

UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP MATS, INSTALL WATERBARS, AND RESTORE WETLAND 1 TO EXISTING GRADE.

SEE DETAIL 12 ON SHEET 33



DETAIL N - ROAD CROSSING



DETAIL O - UNT 9 (PER) STREAM CROSSING

INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN, INSTALL COMPOST FILTER SOCK AT OUTILET OF WATERBARS.

RÉFER TO DETAIL 11 OR 13 ON SHEET 33 FOR CROSS SECTION OF FLUME PIPE WITH SAND BAG COFFERDAM.

INSTALL FLIME PIPE ON EXISTING STRE JAMBED IMMEDIATELY PRIOR TO UTILITY LINE INSTALLATION, FLUME PIPE : SHALL ONLY REMAIN IN PLACE DURING THE UTILITY LINE INSTALLATION THE PERIOD. THE UTILITY LINE INSTALLATION TIME PERIOD IS SH-HOLMS FOR A STREAM WITH A 10' BOSTOOM WIDTH OR LESS AND 48-HOURS FOR A STREAM WITH A 10-100 BOTTOM WIDTH UNLESS OTHERWISE AP PROVED IN WRITING BY THE

INSTALL WATERBARS AT APPROACH TO STREAM CHOSSING AND FILTER SOCK ALONG STREAM BANKS. INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.

INSTALL A ROCK PAD APPROACH 10 PRI IOR TO THE TIMBER MATS.

APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6-INCHES ABOVE ORIGINAL GRADE.

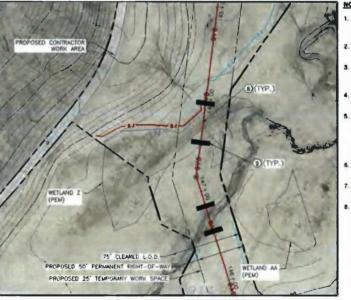
MOBILE BRIDGE IS TO EXTEND FROM TO IP OF BANK TO TOP OF BANK OF THE STREAM, CONTRACTOR SHALL NOT PLACE FILL UNDER THE MOBILE BRIDGE, FLUME PIPE SHALL NOT SUPPO INT MOBILE BRIDGE.

CONTRACTOR WAY SUPPLEMENT FLUWEE PIPE SHOWN WITH ADDITIONAL FLUWE PIPES OR RUMPS TO ACCOMMODDATE STREAM FLOW DURING CONSTRUCTION.

DEWATERING ZONE IS TO BE PUMPED O JUT USING A PUMP AND FILTER BAG.

GEOTEXTILE SHALL BE ATTACHED TO THHE UNDERSIDE OF THE TIMBER MAT BRIDGE

THESE NOTES PERTAIN TO A FLUME CROSSING, REFER TO DETAIL 10 NOTES ON SHEET 33 IF TRENCHING OPTION IS USED.



DETAIL P - WETLAND Z (PEM) CROSSING

SEE DETAIL 85 DN 844EE1 13

INSTALL COMPOST FILTER SOCK ACADSS THE RIGHT-OF-MAY, IMMEDIATELY UP SLOPE OF THE WETLAND BOUNDARY, AT THE EDGE OF THE RIGHT-OF-WAY, AND AS NECESSARY, AROUND SOIL STOCKPILE.

EQUIPMENT STAGING AREA MUBT BE LOCATED A VINIVUM OF 50 FEET FROM THE EDGE OF THE WETLAND.

USE TIMBEH WATS FOR VEHICULAR CROSSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBER WATS.

INSTALL TRENCH PLUGS ON EACH SIDE OF THE WEILAND TO PREVENT THE TRENCHING FROM DRAINING WEILAND OR CHANGING HYDROLDGY

WHEN EXCAVATING TRENCH IN WETLAND, EXCAVATE WETLAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE SEPARATELY FROM SUSSOIL DURING BACKFELING OF TRENCH, REPLACE TOPSOIL IN TOP OF TRENCH TO RESTORE WETLAND, STOCKPILE SOIL ONTO GEOTEXTILE IN THE SPOIL AREA MEXT TO THE TRENCH, OWNERS THERE IS STANDING WATER OR THE SOIL IS TO SATURATED TO SERRICATE IN

SWAMP MATE SHOULD BE UTILIZED IN WORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLANDS

UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP WATS, INSTALL WATERBARS, AND RESTORE WETLAND TO EXISTING GRADE

SEE DETAIL 12 ON SHEET 35

STREAM, WETLAND, AND ROAD CROSSING DETAILS SEAL **REVISION RECORD** Gone Gathering LLC NO. DATE DESCRIPTION **OXFORD 1 TO EQT GAS/WATER PIPELINES** 16' GATHERING LINE WEST UNION DISTRICT, DOEDERING COUNTY IN 11/22/2010 PROJECT NO. 131-665 SHEET 24 OF 34



- EXISTING CONTOURS ARE FROM BLUE VIOUNTAIN AERIAL MAPPING & FOOT CONTOUR INTERVALS, DATED 03 30 2013 (www.bluernourseinspring.co
- AERIAL PHOTOGRAPHY IS DERIVED FROM BLUE MOUNTAIN AERIAL MAPPING
- THIS IS NOT A BOUNDARY SPACE, NOUNDAY LINES AS SHOWN HEREON A REBASSOON TAX PARCEL INFORMATION DESIVED FROM \$1.8
- BY GRAPHIC PLOTTING ONLY, THIS PIPELINE IS NOT LOCATED IN THE RIGHT FO RIGHT FO ARNOLD CREEK FLOODIPLAIN ACCORDING TO THE FLOOD INSUIANCE ARTE MA. P FOR DOODIPRIOGE COUNTY, WAY #5801702025C, WITH A MAP REVISED DATE OF COTO BER
- USGS 7.5 MIN. TOPOGRAPHIC QUADHANGLE OXFORD, WY, DATED 1856; PHOTOREVISED 1894.
- WETLAND DELINEATIONS BASED ON WETLAND SURVEYS CONDUCTED BY CEC BETWEEN DB 2013 AND TO 2013.

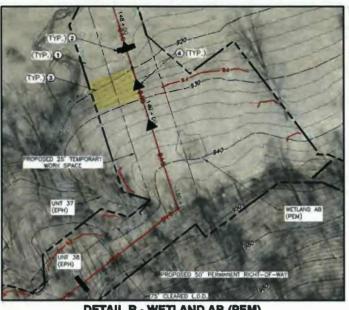
- 1) FURNISH AND INSTALL COMPOST FILTER SOCK PER DETAIL 7 ON SHEET 32 (TYPICAL).
- (2) FURNISH AND INSTALL TRENCH PLUG PER DETAIL 6 ON SHEET 32 (TYPICAL)
- (3) FURNISH AND INSTALL EROSION CONTROL BLANKET PER DETAILS 2 AND 3 ON SHEET 31 (TYPICAL).
- (4) FURNISH AND INSTALL WATERBAR PER DETAIL 8 ON BHEET 32 (TYPICAL)
- (\$) FURNISH AND INSTALL COMPOST FILTER SOCK BEDMENT TRAP PLR DETAIL 9 ON SHEET 32 (1YPICAL).
- (1) FURNISH AND INSTALL OPEN CUT OR FLUME CROSSING PER DETAILS 10 OR 11 ON SHEET 33
- (3) FURNISH AND INSTALL CULVERT PER DETAIL 14 ON SHEET 33 (TYPICAL)
- (9) FURNISH AND INSTALL OPEN GUT WETLAND CROSSING PER DETAIL 12 ON SHEET 33
- (19) FURNISH AND INSTALL BORE AND JACK CROSSING PER DETAIL 15 ON SHEET 33.
- FURNISH AND INSTALL TIMBER MAT BRIDGE PER DETAIL 17 ON SHEET 34.
- 13 FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET 31



Civil & Environmental Consultants, Inc.

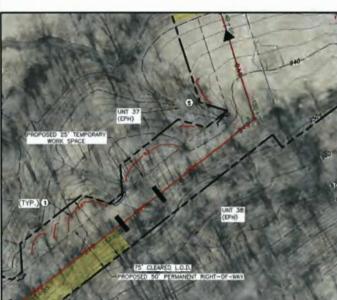
99 Cambridge Place - Bridgeport, WV 26330 Ph; 304.933.3119 - Fax; 304.933.3327 www.cacinc.com

- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN. INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- REFER TO DETAIL 11 OR IS ON SHEET 33 FOR CAOSS SECTION OF FLUME PIPE WITH BAND BAG COFFERDAM.
- INSTALL FLUME PIPE ON EXISTING STRE MARBOD MIMEDIATELY PRIOR TO UTILITY LINE INSTALLATION. FLUME PIPE: 8-MALL ONLY REMAIN IN PLACE DURING THE UTILITY LINE INSTALLATION, TIME PERIOD, THE UTILITY LINE INSTALLATION THE PERIOD IS 24-HOURS FOR A BTREAM WITH A 10-100 TOTAL WIDTH OR LESS AND 48-HOURS FOR A STREAM WITH A 10-100 TOTAL STREAM WITH A 10-BOTTOM WIDTH UNLESS OTHERWISE AP PROVED IN WRITING BY THE
- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AND FILTER SOCK ALONG STREAM BANKS, INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- INSTALL A ROCK PAD APPROACH TO PRI TOR TO THE TIMBER WATS.
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE ORIGINAL GRADE
- MOBILE BRIDGE IS TO EXTEND FROM TO IP OF BANK TO TOP OF BANK OF THE STREAM, CONTRACTOR SHALL NOT PLACE FILL UNDER THE MOBILE BRIDGE FILIME PIPE SHALL NOT SUPPO INT MOBILE BRIDGE
- DEWATERING ZONE IS TO BE PUMPED O JUT USING A PUMP AND FILTER BAG.
- GEOTEXTILE SHALL BE ATTACHED TO THHE UNDERSIDE OF THE TIMBER MAT
- THESE NOTES PERTAIN TO A FLUME CHOSSING, REFER TO DETAIL 10 NOTES ON SHEET 33 IF TRENCHING OPTION IS USED.



DETAIL R - WETLAND AB (PEM) CROSSING

- INSTALL COMPOST FILTER BOCK ACROSS THE RIGHT-OF WAY, IMMEDIATELY UP SLOPE OF THE WETLAND BOUNDARY, AT THE EDGE OF THE RIGHT OF WAY, AND AB NECESSARY, AROUND BOIL STOCKPILE.
- EQUIPMENT STAGING AREA WUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER WATS FOR VEHICULAR CROSSING OF WEILAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WEILAND CROSSING UNLESS THE WEILAND IS BEING PHOTECTED BY TIMBER MATS.
- INSTALL TRENCH PLUGS ON EACH SIDE OF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETLAND OR CHANGING HYDROLOG
- WHEN EXCAYATING TRENCH IN WETLAND, EXCAVATE WETLAND TOPBOIL (TOP 12 INCHES) AND STOCKPILE SEPARATELY FROM SUSPOIL DURING BACKFILLING OF THENCH REPLACE TOPPOIL IN TOP OF TRENCH TO RESTORE WETLAND, STOCKPILE SOIL ONTO GEOTEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH, UNLESS THERE IS STANDING WATER OH THE SOIL IS TO SATURATED TO BEGREGATE.
- SWAMP MATS SHOULD BE UTILIZED IN WORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLANDS.
- UPON RESTORATION, REMOVE GEOTEVITIE, BYMAN STALL WARD STALL WARD SOME BAND RESTORE WATERS ON CHARLES OF CHARLE
- SEE DETAIL 12 ON SHEET 33



DETAIL Q - LEFT FORK

ARNOLD CREEK CROSSING

DETAIL S - UNT 37 & 38 (EPH) STREAM CROSSING

UNT-38

NOTES

- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- REFER TO DETAIL 11 OR 13 ON SHEET 33 FOR CROSS SECTION OF FILINE PIPE WITH SAND BAG COFFERDAM.
- INSTALL FLUME PIPE ON EXISTING STAE AMBED IMMEDIATELY PRIOR TO UTILITY LINE WISTALLATION, FLUME PIPE : SHALL ONLY REMAIN IN PLACE DURING THE UTILITY LINE INSTALLATION THE PERIOD THE UTILITY LINE INSTALLATION THE PERIOD IS 24 HOURS FOR A STREAM WITH A 10 90THOM WIDTH OR LESS AND 48-HOURS FOR A STREAM WITH A 10-100 BOTTOM WIDTH UNLESS OTHERWISE AP PROVED IN WRITING BY THE
- INSTALL WATERBARS AT APPROACH TO STREAM CHOSSING AND FILTER SOCK ALONG STREAM BANKS. INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- INSTALL A ROCK PAD APPROACH 10 PRI IOR TO THE TIMBER WATS.
- APPROACHES TO CHOSSINGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE ORIGINAL GRADE.
- MOBILE BRIDGE IS TO EXTEND FROM TO IP OF BANK TO TOP OF BANK OF THE STREAM, CONTRACTOR SHALL NOT PLACE FILL UNDER THE MOBILE BRIDGE, FILIME PIPE SHALL NOT SUPPO INT MOBILE BRIDGE.
- CONTRACTOR MAY SUPPLEMENT FLUME E PIPE SHOWN WITH ADDITIONAL FLUME PIPES OR PUMPS TO ACCOMMODIDATE STREAM FLOW DURING CONSTRUCTION.
- DEWATERING ZONE IS TO BE PUMPED O JUT USING A PUMP AND FILTER BAG.
- ID GEOTEXTILE SHALL SE ATTACHED TO THIS UNDERSIDE OF THE TIMBER MAT
- THESE NOTES PERTAIN TO A FLUME CROSSING, REFER TO DETAIL TO NOTES ON SHEET 33 IF THENCHING OPTION IS USED.

UNT-37

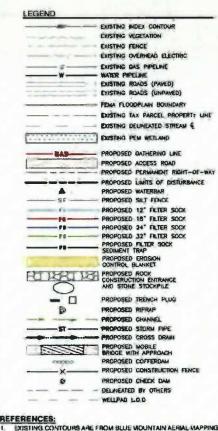
- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- INSTALL A COMPOST FILTER SEDIMENT TRAP IN THE CHANNEL ADJACENT TO THE PIPELINE LO.D. IN ACCORDANC :E WITH DETAIL 9 ON SHEET 32.
- 9 INSTALL TIMBER WATE OVER THE STREAM FOR VEHICLE ACCESS



DETAIL T - UNT 41 & 40 (EPH) STREAM CROSSING

- INSTALL WATERBARS AT APPROACH TO BUREAU CHOSSING AS SHOWN INSTALL COMPOST FILTER SOCKAT OLILLET OF WATERBARS.
- REFER TO DETAIL 11 DR 13 DN SHEET 33 FOR CROSS SECTION OF FLUME PIPE WITH BAND BAG COFFERDAM
- INSTALL FILIMS PIPE ON EXISTING STREAMBED IMMEDIATELY PRIOR TO UTILITY LINE INSTALLATION, FLUME PIPE SHALL ONLY REMAIN IN PLACE. DURING THE UTILITY LINE INSTALLATION TIME PERIOD, THE UTILITY LINE INSTALLATION TIME PERIOD IS 64 HOURS FOR A STREAM WITH A 19 BOTTOM WIDTH OR LESS AND 48 HIQUINS FOR A STREAM WITH A 10 TO BOTTOM WIDTH UNILSS OTHERWISE APPROVED IN WRITING BY THE
- INSTALL A ROCK PAD APPROACH TO PRIOR TO THE TIMBER WATS.
- APPROACHES TO CROSSINGS ARE NOT TO EXCED A DEPTH OF 8-NICHES ABOVE ORIGINAL GRADE.
- MOBILE BRIDGE IS TO EXTEND FROM TOP OF BANK 10 TOP OF BANK OF THE STREAM, CONTRACTOR SHALL NOT PLACE FALL UNDER THE MOBILE BRIDGE FLUME PIPE SHALL NOT BUPPORT MOBILE BRIDGE
- CONTRACTOR MAY SUPPLEMENT FLIME PIPE SHOWN WITH ADDITIONAL FLIME PIPES OF PLIMPS TO ACCOMMODATE STREAM FLOW DURING CONSTRUCTION.
- DEWATERING ZONE IS TO BE PUMPED OUT USING A PUMP AND FILTER SAG.
- O. GEOTEXTILE SHALL BE ATTACHED TO THE UNDERSIDE OF THE TIMBER MAT
- THESE NOTES PERTAIN TO A FLUME CHOSSING REFER TO DETAIL 10 NOTES ON SHEET 33 IF TRENCHING OPTION IS USED.

STREAM, WEILAND, AND ROAD CROSSING DETAILS SEAL **REVISION RECORD** Gone Gathering LLC NO. DATE DESCRIPTION **OXFORD 1 TO EQT GAS/WATER PIPELINES** 18' GATHERING LINE 11/23/2013 PROJECT NO. 131-868 WEST UMON DISTRICT, DODDRIDGE COUNTY I SHEET 25 OF 34



- EXISTING CONTOURS ARE FROM BLUE WOUNTAIN AERIAL MAPPING 2-FOOT CONTOUR INTERVALS, DATED 03:30-2013 (www.bluemoundingerialmapping.co.
- AERIAL PHOTOGRAPHY IS DERIVED FROM BLUE MOUNTAIN AERIAL MAPPING
- THIS IS NOT A BOUNDARY SURVEY, BOUNDARY LINES AS SHOWN HEREON A REBUSED ON TAX PARCEL INFORMATION DERIVED FROM GLB.
- BY GRAPHIC PLOTTING ONLY, THIS PIPELINE IS NOT LOCATED IN THE RIGHT FD. PK. ARNOLD CHEEK FLOODINAN ACCORDING TO THE FLOOD INSURANCE WATE MA. VE FOR DODDRINGE COUNTY, MAY PSIMITOZESIC, WITH A MAY PAYNECID DATE OF COTO. DEER
- USGS 7.5 MIN. TOPOGRAPHIC QUADRANGLE OXPORD, WY, DATED 1856, PHOTORICYISED 1854.
- WETLAND DELINEATIONS BASED ON WETLAND SURVEYS CONDUCTED BY CEC BETWEEN 08 2013 AND 10 2013.

- 1) FURNISH AND INSTALL COMPOST FILTER SOCK PER DETAIL 7 ON SHEET 32 (TYPICAL).
- (2) FURNISH AND INSTALL TRENCH PLUG PER DETAIL 6 ON SHEET 32 (TYPICAL)
- (3) FURNISH AND INSTALL EROSION CONTROL BLANKET PER DETAILS 2 AND 3 ON 8-IEET 31 (TYPICAL)
- (4) FURNISH AND INSTALL WATERBAR PER DETAIL 8 ON BHEET 32 (TYPICAL).
- (5) FURNISH AND INSTALL COMPOST FILTER SOCK SEDIMENT TRAP PUR DETAIL 9 ON SHEET 32 (1YPICAL).
- (5) FURNISH AND INSTALL CROSS DRAIN AS PER DÉTAIL 18 ON SHEET 34 (TY=ICAL)
- (1) FURNISH AND INSTALL OPEN CUT OR FLUME CROSSING PER DETAILS 10 OR 11 ON SHEET 33
- (E) FURNISH AND INSTALL CULVERT PER DETAIL 14 ON SHEET 33 (TYPICAL).
- FURNISH AND INSTALL OPEN GUT WETLAND CROSSING PER DETAIL 12 ON 5-EET 33
- (19) FURNISH AND INSTALL BORE AND JACK CROSSING PER DETAIL 15 ON SHEET 33.
- FURNISH AND INSTALL TIMBER MAT BRIDGE PER DETAIL 17 ON SHEET 34.
- FURNISH AND INSTALL CONSTRUCTION ACCESS ROAD PER DETAIL 5 ON SHEET 31.
- (13) FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET 31.

Civil & Environmental Consultants, Inc.

99 Cambridge Place - Bridgeport, WV 26330 Ph; 304.933.3119 - Fax: 304.933.3327

O (TYP.) PROPOSED 25" TEMPORAR WORK SPACE

DETAIL U - WETLAND AD (PEM) STREAM CROSSING

WETLAND-AJ (PEM)

(TYP.) O

LEFT FORK ARNOLD CREEK

- INSTALL COMPOST FILTER SOCK ACROS 3S THE RIGHT OF WAY, IMMEDIATELY UP-SLOPE OF THE WETLA. NO BOUNDARY, AT THE EDGE OF THE RIGHT OF WAY, AND AS NECESSAR IY, AROUND SOIL STOCKPILE.
- EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF SO FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER WATS FOR VEHICULAR CRO ISSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBBER MATS.
- INSTALL TRENCH PLUGS ON EACH SIDE OF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETL AND OR CHANGING HYDROLOGY
- WHEN EXCAVATING TRENCH IN WETLAN ID, EXCAVATE WETLAND TOPSOIL WHITE BLUNVAINS THENCH IN WEILAN & SUVANTE WEILAND LONDON. ITOP 12 INCHES AND STOCKPILE SEPARATELY FROM SUSSOIL DUTING BACKFILING OF TRENCH, REPLACE TOP FOOL IN TOP OF TRENCH IN THE STORE WEILAND, STOCKPILE BOIL TO, NITO GEOTIEVITLE IN THE SPOIL AREA RICKT TO THE TRENCH, LINLESS T HERE IS STANDING WATER OR THE SOIL IS TO STURE THE TRENCH, LINLESS T HERE IS STANDING WATER OR THE SOIL IS TO STURE AT THE STORE WEILAND STANDING WATER OR THE
- SWAMP MATS SHOULD BE UTILIZED IN WYORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLA NOS.
- UPON RESTORATION, REMOVE GEOTEXTILE SWAMP MATS, INSTALL WATERBARS, AND RESTORE WETLAND 1 TO EXISTING GRADE.
- SEE DETAIL 12 ON SHEET 33



STREAM & WETLAND CROSSING

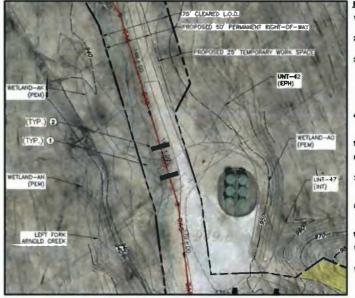
- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS
- REFER TO DETAIL 11 OR 13 ON SHEET 33 FOR CROSS SECTION OF FILIME PIPE WITH SAND BAG COFFERDAM.
 - INSTALL FLIME PIPE ON EXISTING STREAMBED IMMEDIATELY PAIDA TO UTILITY LINE INSTALLATION, FLIME PIPE SHALL ONLY REWAIN IN PLACE DURING THE UTILITY LINE INSTALLATION THE PERIOD IS 24 HOURS FOR A STREAM WITH A 10 BOTTOM WIDTH ON LESS AND 48 HOURS FOR A STREAM WITH A 10 BOTTOM WIDTH UNLESS OTHERWISE APPROVED IN WRITING BY THE
 - INSTALL WATERBARS AT APPROACH TO STREAM CHOSSING AND FILTER SOCK ALONG STREAM BANKS, INSTALL COMPOST FILTER SOCK AT OLITLET OF WATERBARS.
 - INSTALL A ROCK PAD APPROACH 10 PRIOR TO THE TIMBER MATS.
 - APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF BINCHES
- MOBILE BRIDGE IS TO EXTEND FROM TOP OF BANK TO TOP OF BANK OF THE ETREAM CONTRACTOR SHALL NOT PLACE FILLUNDER THE MOBILE BRIDGE FLUME PIPE SHALL NOT SUPPORT MOBILE BRIDGE
- CONTRACTOR MAY SUPPLEMENT FLUME PIPE SHOWN WITH ADDITIONAL FLUME PIPES OR PUMPS TO ACCOMMODATE BIREAM FLOW DURING
- DEWATERING ZONE IS TO BE PUMPED OUT USING A PUMP AND FILTER BAG.
- 10. GEOTEXTILE SHALL BE ATTACHED TO THE UNDERSIDE OF THE TIMBER WAT
- THESE NOTES PERTAIN TO A FLUME CROSSING REFER TO DETAIL TO NOTES ON SHEET 33 IF TRENCHING OPTION IS USED.
- FOR NOTES PERTAINING TO WEILAND AH CHOSSING REFER TO DETAIL U ON THIS SHEET.



SO PERMANENT HIGHT-DF-NAY



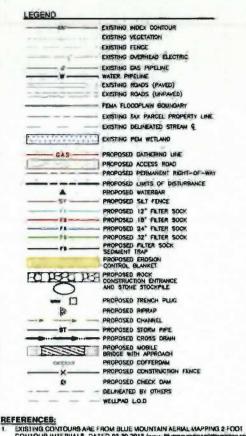
- INSTALL COMPOST FILTER SOCK ACROS 3S THE RIGHT OF WAY, MANEDIATELY UP BLOPE OF THE WETLA IND BOUNDARY, AT THE EDGE OF THE RIGHT OF WAY, AND AS NECESSAR IY, AROUND SOIL STOCKPILE.
- EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER MATS FOR VEHICULAR CRO ISSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBBER MATS.
- WHEN EXCAVATING TRENCH IN WETLAN ID, EXCAVATE WETLAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE SEPAPATELY FROM SUBSOIL DURING SACKFILMS OF TRENCH, REPLACE TOP PROIL IN TOP OF TRENCH TO RESTORE WETLAND, STOCKPILE BOIL O INTO GEOTEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH, (INLESS T THERE IS STANDING WATER OR THE SOIL IS STO SATURATED TO SEGREGATE.)
- SWAMP WATS SHOULD BE UTILIZED IN WYORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLA NOS.
- UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP MATS, INSTALL WATERBARS, AND RESTORE WETLAND 1 TO EXISTING GRADE.
- SEE DETAIL 12 ON SHEET 33.



DETAIL X - UNT 42 (EPH) STREAM CROSSING

- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN.
 INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- HEFER TO DETAIL 11 OR 18 ON SHEET 39 FOR CHOSS SECTION OF FLUME
- OT ROISE YUSTENDAME CHEMBER BONTERY NO SPIRE MELL INTO UTILITY UNE RESIDENCE. TUDIE PIPE SHALL ONLY REVAIN IN SPACE. TO DURING THE UTILITY UNE HISTARD THE UTILITY UNE HISTARD THE UTILITY UNE HISTARD THE WITH WHITE WAS A FOR SPACE. IS SEEN AS THE WAS A FOR SPACE. BOTTOM WIDTH ON LESS AND 48 HOURS ON A STREAM WIT TA 10 100 BOTTOM WIDTH UNLESS OTHERWISE APPROVED IN WRITING BY THE
- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AND FILTER SOCK ALONG STREAM BANKS. INSTALL COMPOSITETER SOCK AT OUTLET OF WATERBARS.
- INSTALL A HOCK PAD APPROACH TO PRIOR TO THE TIMBER MATS.
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE ORIGINAL GRADE.
- MOBILE BHIDGE IS TO EXTEND FROM TOP OF BANK TO TOP OF BANK OTHE STREAM CONTRACTOR SHALL NOT PLACE FILL UNDER THE MODILE BRIDGE FLUME PIPE SHALL NOT SUPPORT MOBILE BRIDGE.
- CONTRACTOR MAY SUPPLEMENT Y LUME PIPE & KOWN WITH ADDITIONAL FLUME PIPES OR PUMPS TO ACCOMMODATE STREAM FLOW DURING CONSTRUCTION.
- DEWATERING ZONE IS TO BE PUMPED OUT USING A PUMP AND FILTER BAG
- GEOTEXTILE SHALL BE ATTACHED TO THE UNDERSIDE OF THE TIMBER MAT BRIDGE.
- THESE NOTES PERTAIN TO A FLUME CROSSING REFERTO DETAIL TO NOTES ON SHEET 33 IF TRENCHING OPTION IS USED.

STREAM, WETLAND, AND ROAD CROSSING DETAILS SEAL **REVISION RECORD** Gone Gathering LLC NO. DATE DESCRIPTION **OXFORD 1 TO EQT** GAS/WATER PIPELINES 18" GATHERING LINE WEST UMON DISTRICT DODDRINGE COUNTY W 11/22/2013 PROJECT NO. 131-658 SHEET 26 OF 34



ETLAND-AN (PEM)

LEFT FORK

TYP.)

SED ACCESS ROAD #1

DETAIL Y - WETLAND AK & AL (PEM)

CROSSING

DETAIL AA-RIGHT FORK

ARNOLD CREEK CROSSING

- CONTOUR INTERVALS. DATED 03-30 2013 (w)
- AERIAL PHOTOGRAPHY IS DERIVED FROM BLUE MOUNTAIN AERIAL MAPPING
- THIS IS NOT A BOUNDARY SURVEY, BOUNDARY LINES AS SHOWN HEREON A REBABLD ON TAX PARCEL INFORMATION DERIVED FROM G.I.S.
- BY GRAPHIC PLOTTING ONLY, THIS PIPELINE IS NOT LOCATED IN THE RIGHT FO RK ARNOLD CREEK FLOODPIAM ACCORDING TO THE FLOOD INSURANCE RATE MA UP FOR DODDRIDGE COUNTY, MAP #51017C0225C, WITH A MAP REVISED DATE OF OCTO OBER
- USGS 7.5 MIN. TOPOGRAPHIC QUADRANGLE OXFORD, WY, DATED 1956. PHOTOREVISED 1884.
- WETLAND DELINEATIONS BASED ON WETLAND SURVEYS CONDUCTED BY CSC. BETWEEN DB 2013 AND 10-2013.

- FURNIS I AND INSTALL COMPOST FILTER SOCK PER DETAIL 7 ON SHEET 32 (TYPICAL)
- (2) FURNISH AND INSTALL THENCH PLUG PER DETAIL 6 ON SHEET 32 (TYPICAL)
- (3) FURNISH AND INSTALL EROSION CONTROL BLANKET PER DETAILS 2 AND 3 ON SHEET 31 (TYPICAL)
- (4) FURNISH AND INSTALL WATERBAR PER DETAIL 8 ON BMGET 32 (TYPICAL)
- (3) FURNISH AND INSTALL COMPOST FILTER SOCK SEDIMENT TRAP PER DETAIL II ON SHEET 32 (1YPICAL).
- (FURNISH AND INSTALL OPEN CUT OR FLUME CROSSING PER DETAILS 10 OR 11 ON SHEET 33
- (8) FURNISH AND INSTALL CULVERT PER DETAIL 14 ON BHEET 33 (TYPICAL).
- FURNISH AND INSTALL OPEN CUT WETLAND CROSSING PER DETAIL 12 ON SHEET 33
- (9) FURNISH AND INSTALL BORE AND JACK CROSSING PER DETAIL 15 ON SHEET 33.
- (i) FURNISH AND INSTALL TIMBER MAT BRIDGE PER DETAIL 17 ON SHEET 34.
- 13 FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET 31.



Civil & Environmental Consultants, Inc.

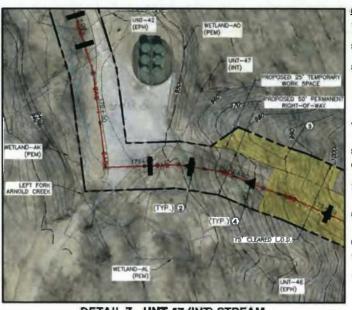
99 Cambridge Place - Bridgeport WV 26330 www.cecinc.com

UNT-42 (EPH)

O (DE)

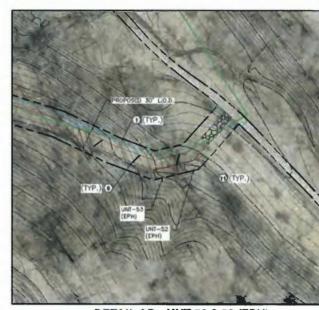
- INSTALL COMPOST FILTER SOCK ACROS SS THE RIGHT-OF-WAY, IMMEDIATELY UP-SLOPE OF THE WETLA. NO BOUNDARY, AT THE EDGE OF THE RIGHT-OF-WAY, AND AS NECESSAR IY, AROUND SOIL STOCKPILE.
- EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER MATS FOR VEHICULAR CRO ISSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBBER MATS.
- INSTALL TRENCH PLUGS ON EACH SIDE OF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETL AND OR CHANGING HYDROLOGY
- WHEN EXCAVATING TRENCH IN WETLAN JD, EXCAVATE WETLAND TOPSON, (TOP 12 NICHES) AND STOCKPILE SEPARATELY FROM SUSSOIL, DURING BACKFILLING OF TRENCH, REPLACE TOPPSOIL IN TOP OF TRENCH TO RESTORE WETLAND, STOCKPILE SOIL O INTO GEOTEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH, (JUNESS T, HERE IS STANDING WATER OR THE SOIL IS TO SATURATED TO SEGREGATE.)
- SWAMP MATS SHOULD BE UTILIZED IN WYORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLA NOS.
- UPON RESTORATION, REMOVE GEOTEXTILE SWAMP MATS, INSTALL WATERBARS, AND RESTORE WETLAND TITO EXISTING GRADE.
- SEE DETAIL 12 ON SHEET 39

SEE DETAIL 17 ON SHEET SA



DETAIL Z - UNT 47 (INT) STREAM CROSSING

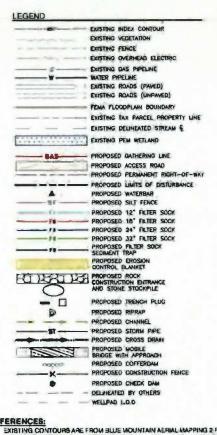
- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- REFER TO DETAIL 11 OH 13 ON SHEET 33 FOR CROSS SECTION OF FILIME. PIPE WITH SAND BAG COFFERDAM.
- INSTALL FLUME PIPE ON EXISTING STREAMBED IMMEDIATELY PHIOR TO UTILITY LINE INSTALLATION. FLUME PIPE 8-HALL ONLY REWAIN IN PLACE DURING THE UTILITY LINE INSTALLATION THE PERIOD THE UTILITY LINE INSTALLATION THE PERIOD IS 24 HOURS FOR A STREAM WITH A TO BOTTOM WIDTH UNLESS OTHERWISE APPROYED IN WRITING BY THE BOTTOM WIDTH UNLESS OTHERWISE APPROYED IN WRITING BY THE
- INSTALL WATERBARS AT APPROACH TO STHEAM CHOSSING AND FILTER SOCK ALONG STREAM BANKS. INSTALL COMPOST FILTER SOCK AT OLTILE! OF WATERBARS.
- INSTALL A ROCK PAD APPROACH TO PRIOR TO THE TIMBER MATE
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF S-INCHES
- MOBILE BRIDGE IS TO EXTEND FROM TOP OF BANK TO TOP OF BANK OF THE STREAM CONTRACTOR SHALL NOT PLACE FILL UNDER THE MOBILE BRIDGE FLUME PIPE SHALL NOT BUPPORT MOBILE BRIDGE
- CONTRACTOR MAY SUPPLEMENT FLUME PIPE SHOWN WITH ADDITIONAL FLUME PIPES OF PUMPS TO ACCOMMODATE STREAM FLOW DURING CONSTRUCTION.
- DEWATERING ZONE IS TO BE PUMPED OUT USING A PUMP AND FILTER BAG.
- O GEOTEXTILE SHALL BE ATTACHED TO THE UNDERSIDE OF THE TIMBER MAT BRIDGE.
- 11. THESE NOTES PERTAIN TO A FLUME CROSSING REFER TO DETAIL 10 NOTES ON SHEET 33 IF TREND HIND DIFTION IS USED.



DETAIL AB - UNT 52 & 53 (EPH) STREAM CROSSING

- INSTALL WATERBARS AT APPROACH TO STREAM CHOSSING AS S-KWN. INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- REFER TO DETAIL 11 OR 13 ON SHEET 33 FOR CHOSS SECTION OF FLUME PIPE WITH SAND BAG COFFERDAM
- OT ROISE YLETACIANM CJENKARTE BONTERE NO BREE BRULL LIATEM PLACE WITH THE PLACE WITH THE PLACE WITH THE PROPERTY OF THE PRINCIPAL PLACE WITH PARTICIPATION OF THE PRINCIPAL PLACE WITH PARTICIPATION OF A THE PARTICIPATION OF THE PARTICIPATION BOTTOM WIDTH OH LESS AND 48 HOURS FOR A STREAM WIT IA 10 100 BOTTOM WIDTH UNLESS OTHERWISE APPROVED IN WRITING BY THE
- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AND FILTER SOCK ALONG STREAM BANKS. INSTALL COMPOSITELER SOCK AT OUTLIET OF WATERBARS.
- INSTALLA HOCK PAD APPROACH TO PRIOR TO THE TIMBER MATS.
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 8-MICHES ABOVE ORIGINAL GRADE.
- MOBILE BRIDGE IS TO EXTEND FROM TOP OF BANK TO TOP OF BANK OF THE STREAM CONTRACTOR SHALL NOT PLACE FILL MODER THE MOBILE BRIDGE FLUME PIPE SHALL NOT SUPPORT MOBILE BRIDGE
- CONTRACTOR MAY SUPPLEMENT FLUME PIPE SHOWN WITH ADDITIONAL FILIME PIPES OR PUMPS TO ACCOMMODATE STREAM FLOW DURING CONSTRUCTION.
- DEWATEHING ZONE IS 10 9E PUMPED OUT USING A PUMP AND FILTER BAG.
- 10. GEOTEXTILE SHALL BE ATTACHED TO THE UNDERSIDE OF THE TIMBER MAT BRIDGE.
- THESE NOTES PERTAIN TO A FLUME CROSSING REFER TO DETAIL 10 NOTES ON SHEET 83 IF TRENCHING OPTION IS USED.

SEAL		R	EVISION RECORD	STREAM, WETLAND, AND ROAD CROSSING DETAILS
,	NO.	DATE	DESCRIPTION	Gone Gathering LLC
aki				OXFORD 1 TO EQT GAS/WATER PIPELINES 18' GATHERING LINE WEST UMION DISTRICT, I OCCUPIENCE COUNTY WY
				DATE: 11/28/013 PROJECT NO. 131-666
				SCALE: 1" = 80' DRAWN BY: SAM CNECKED BY: OSL SHEET 27 OF 34
3			2	

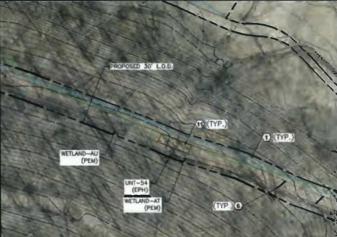


REFERENCES:

- AERIAL PHOTOGRAPHY IS DERIVED FROM BLUE MOUNTAIN AERIAL MAPPING
- THIS IS NOT A BOUNDARY SURVEY, BOUNDARY LINES AS SHOWN HEREON A REBABLD ON TAX PARCEL INFORMATION DERIVED FROM G.I.S.
- BY GRAPHIC PLOTTING CRLY, THIS PIPELINE IS NOT LOCATED IN THE RIGHT FO RK
 ARNOLD CREEK LODDPLAIN ACCORDING TO THE FLOOD BINDRANCE HATE MA POP FOR
 DODDRINGE COUNTY, MAP #5601702025C, WITH A MAP REVISED DATE OF COTO OBER
- USGS 7.5 MIN. TOPOGRAPHIC QUADHANGLE OXFORD, WY, DATED 1856. PHOTORIEVISED 1864.
- WETLAND DELINEATIONS BASED ON WETLAND SURVEYS CONDUCTED BY CEC BETWEEN DB 2013 AND 10 2013.
- KEY NOTES 1) FURNISH AND INSTALL COMPOST FILTER SOCK PER DETAIL 7 ON SHEET 32 (TYPICAL).
- (2) FURNISH AND INSTALL TRENCH PLUG PER DETAIL 6 ON 6-HEET 32 (TYPICAL)
- 3 FURNISH AND INSTALL EROSION CONTROL BLANKET PER DETAILS 2 AND 3 ON SHEET 31 (TYPICAL).
- FURNISH AND INSTALL WATERBAR PER DETAILS ON BRIGET 32 (TYPICAL).
- (E) FURNISH AND INSTALL COMPOST FILTER SOCK BEDIMENT TRAP PER DETAIL 9 ON SHEET 32 (TYPICAL).
- (E) FURNISH AND INSTALL CROSS DRAIN AS PER DÉTAIL 18 ON SHEET 34 (TYPICAL)
- (?) FURNISH AND INSTALL OPEN CUT OR FLUME CROSSING PER DETAILS 10 OR 11 ON SHEET 33
- (I) FURNISH AND INSTALL CULVERT PER DETAIL 14 ON BHEET 33 (TYPICAL)
- FURNISH AND INSTALL OPEN GUT WETLAND CROSSING PER DETAIL 12 ON SHEET 33
- (B) FURNISH AND INSTALL BORE AND JACK CROSSING PER DETAIL 15 ON SHEET 33. (i) FURNISH AND INSTALL TIMBER MAT DRIDGE PER DETAIL 17 ON SHEET 34.
- FURNISH AND INSTALL CONSTRUCTION ACCESS ROAD PER DETAIL 5 ON SHEET 31.
- (1) FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET 31.

Civil & Environmental Consultants, Inc.

99 Cambridge Place - Bridgeport, WV 26330 Ph; 304,933,3119 - Fax; 304,933,3327 www.cecinc.com



DETAIL AC - UNT 54 (EPH) STREAM CROSSING

- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN. INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- REFER TO DETAIL 11 OR 13 ON SHEET 33 FOR CROSS SECTION OF FLUME PIPE WITH SAND BAG COFFERDAM
- INSTALL FILIME PIPE ON EXISTING STRE SAMBED MIMEDIATELY PRIOR TO UTILITY LINE INSTALLATION. FILIME PIPE: 8-ALL ONLY REMAIN IN PAGE DURING THE UTILITY LINE INSTALLATION & TIME PERIOD. THE UTILITY LINE INSTALLATION THE PERIOD THE 24-HOURS FOR A STREAM WITH A 10-100 SOTTOM WIDTH OR LESS AND 48-HOURS FOR A STREAM WITH A 10-100
- INSTALL WATERBARS AT APPROACH TO BIREAM CROSSING AND FILTER SOCK ALONG STREAM BANKS, INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- INSTALL A ROCK PAD APPROACH TO PRI YOR TO THE TIMBER MATS.
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE ORIGINAL GRADE.
- MOBILE BRIDGE IS TO EXTEND FROM TO IP OF BANK TO TOP OF BANK OF THE STREAM, CONTRACTOR SHALL NOT PLACE FILL UNDER THE MOBILE BRIDGE FLUME PIPE SHALL NOT SUPPO INT MOBILE BRIDGE
- CONTRACTOR MAY SUPPLEMENT FLUME E PIPE SHOWN WITH ADDITIONAL FILING PIPES OR PUMPS TO ACCOMMODIDATE STREAM FLOW DURING CONSTRUCTION.
- DEWATERING ZONE IS TO BE PUMPED O JUT USING A PUMP AND FILTER BAG.
- 10. GEOTEXTILE SHALL BE ATTACHED TO THHE UNDERSIDE OF THE TIMBER MAT

INSTALL COMPOST FILTER SOCK ACROS 35 THE RIGHT OF WAY, IMMEDIATELY UP SLOPE OF THE WETLA NO BOUNDARY, AT THE EDGE OF THE RIGHT OF WAY, AND AS NECESSAR IY, AROUND SOIL STOCKPILE.

EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF SO FEET FROM THE EDGE OF THE WETLAND.

USE TIMBER MATS FOR VEHICULAR CRO (SSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBBER MATS.

INSTALL TRENCH PLUGS ON EACH SIDE. OF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETL AND OR CHANGING HYDROLOGY.

WHEN EXCAVATING TRENCH IN WETLAN ID, EXCAVATE WETLAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE SEPARATELY FROM SUSBOIL OURING BACKFILING OF TRENCH, REPLACE TOPPSOIL IN 100 OF TRENCH TO RESTORE WETLAND. STOCKPILE SOIL O INTO GEOTEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH. (UNLESS T) THERE IS STANDING WATER OR THE SOIL IS TO SATURATED TO SEGREGATE.)

SWAMP MATS SHOULD BE UTILIZED IN WYORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLA NOS.

UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP MATS, INSTALL WATERBARS, AND RESTORE WETLAND IT TO EXISTING GRADE.

SEE DETAIL 12 ON SHEET 33

11. THESE NOTES PERTAIN TO A FLUME CROSSING, REFER TO DETAIL 10 NOTES ON SHEET 33 IF TRENCHING OPTION IS USED.



CROSSING

- INSTALL COMPOST FILTER SOCK ACROSS THE RIGHT-OF WAY, IMMEDIATELY UP SLOPE OF THE WETLAND BOUNDARY, AT THE EDGE OF THE RIGHT-OF WAY, AND AS NECESSARY, A HOUND SOIL STOCKPILE.
- EQUIPMENT STAGING ARE WUST BE LOCATED A WINWUM OF 50 FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER MATS FOR VEHICULAR CROSSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBER MATS.
- INSTALL TRENCH PLUGS ON EACH SIDE OF THE WETLAND TO PREVENT THE TRENCHING FORM DRAINING WETLAND OR CHANGING HYDROLOGY
- WHEN EXCAYATING TRENCH IN WETLAND, EXCAYATE WETLAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE SEPARATELY FROM BUISDIL, DURING SACKFILLING OF THENCH, REPLACE TOPSOIL IN TOP OF TRENCH TO HESTORE WETLAND, STOCKPILE SOIL ONTO GEOTEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH (INLESS THERE IS STANDING WATER OF THE SOIL IS TO SATURATED TO SERMICANTE.
- SWAMP MATS SHOULD BE UTILIZED IN WORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLANDS
- UPON RESTORATION, REMOVE GEOTEVILLE, SWAMP MATS, INSTALL WATERBARB, AND RESTORE WETLAND TO EXISTING GRADI.



DETAIL AF - UNT 17 (EPH) STREAM CROSSING

- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN.
 INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- REFER TO DETAIL 11 OR 18 DN SHEET 33 FOR CHOSS SECTION OF FLUME PIPE WITH SAND BAG COFFERDAM
- INSTALL / LIME PIPE ON EXISTING STREAMBLA MANDATELY PART TO UTILITY LINE RISTALDATION. ILLUME PIPE SHALL ONLY REMAIN IN PLACE TO DURING THE UTILITY LINE RISTALLATION THE PERILITY LINE INSTALLATION THE PERILO IS BENEVAL THE RESEARCH OF THE INSTALLATION THE PERILO IS BENEVAL THE REMAINS OF THE MOTTOM WIDTH ON LESS AND 48 HOURS FOR A STREAM WITH A 10 100 SOLTOM WIDTH UNLESS OTHERWISE APPROVICE BY WRITING BY THE
- INSTALLA HOCK PAD APPROACH TO PAIDS TO THE TIMBER MATS.
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6-INCHES ABOVE ORIGINAL GRADE.
- MOBILE BRIDGE IS TO EXTEND FROM TOP OF BANK TO TOP OF BANK OF THE STREAM, CONTRACTOR SHALL NOT PLACE FILL UNDER THE MOBILE BRIDGE FLUME PIPE SHALL NOT SUPPORT MOBILE BRIDGE
- CONTRACTOR MAY SUPPLEMENT FLUME PIPE SHOWN WITH ADDITIONAL FLUME PIPES OR PLUMPS TO ACCOMMODATE STREAM FLOW DURING CONSTRUCTION.
- DEWATERING ZONE IS 10 9E PUMPED OUT USING A PUMP AND FILTER BAG.
- 10. GEDTEXTILE SHALL BE ATTACHED TO THE UNDERSIDE OF THE TIMBER MAT
- THESE NOTES PERTAIN TO A FLUME CROSSING REFERTO DETAIL TO NOTES ON SHEET 59 IF TRENCHING OPTION (SUSED.

STREAM, WETLAND, AND ROAD CROSSING DETAILS SEAL **REVISION RECORD** HONE Gathering LLC NO. DATE DESCRIPTION **OXFORD 1 TO EQT** GAS/WATER PIPELINES 18" GATHERING LINE
WEST UMON DISTRICT DOCUMENCE COUNTY IN
DATE: 11/22/1913 PROJECT NO. 131465
SCALE: 1" - 80" SHEET 26 OF 34

DETAIL AE- WETLAND H (PEM) CROSSING



- AERIAL PHOTOGRAPHY IS DERIVED FROM BLUE MOUNTAIN AERIAL MAPPING
- THIS IS NOT A BOUNDARY SURVEY, BOUNDARY LINES AS SHOWN HEREON A REBASED ON TAX PARCEL INFORMATION DERIVED FROM G.I.S.
- BY GRAPHIC PLOTTING DNLY, THIS PIPELINE IS NOT LOCATED IN THE RIGHT FO RK
 AHNOLD CHEEK ("LODDIPLIN ACCOMONG TO THE FLOOD INSURANCE RATE MA UP FOR DOJDRIDGE COUNTY, MAP #560170225C, WITH A MAP REVISED DATE OF OCTO DBER
- USGS 7.5 MIN. TOPOGRAPHIC QUADRANGLE OXFORD, WY, DATED 1856, PHOTORICY (SED 1894.
- WETLAND DELINEATIONS BASED ON WETLAND SURVEYS CONDUCTED BY CEC BETWEEN 08 2013 AND 10 2013.

- 1) FURNISH AND INSTALL COMPOST FILTER SOCK PER DETAIL 7 ON SHEET 32 (TYPICAL).
- (2) FURNIGHAND INSTALL TRENDH PLUG PER DETAIL 6 ON SHEET 32 (TYPICAL)
- (3) FURNISH AND INSTALL EROSION CONTROL BLANKET PER DETAILS 2 AND 3 ON 8-IEET 31 (TYPICAL).
- FURNISH AND INSTALL WATERBAR PER DETAL 8 ON BIGGET 32 (TYPICAL)
- (3) FURNISH AND INSTALL COMPOST FILTER SOCK SEDIMENT TRAP PER DETAIL 9 ON SHEET 32 (TYPICAL).
- (5) FURNISH AND INSTALL CROSS DRAIN AS PER DETAIL 18 ON SHEET JM (TYPICAL)
- (7) FURNISH AND INSTALL OPEN CUT OR FLUME CROSSING PER DETAILS 10 OR 11 ON 6HEET 33
- (E) FURNISH AND INSTALL CULVERT PER DETAIL 14 ON SHEET 33 (TYPICAL).
- (9) FURNISH AND INSTALL OPEN GUT WETLAND CROSSING PER DETAIL 12 ON SHEET 33
- (1) FURNISH AND INSTALL BORE AND JACK CROSSING PER DETAIL 15 ON SHEET 33.
- FURNISH AND INSTALL TIMBER MAT BRIDGE PER DETAIL 17 ON SHEET 34.
- (3) FURNISH AND INSTALL CONSTRUCTION ACCESS ROAD PER DETAIL 5 ON SHEET 31.
- 13 FURNISH AND INSTALL STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 4 ON SHEET 31



Civil & Environmental Consultants, Inc.

99 Cambridge Place - Bridgeport, WV 26330 Ph; 304.933.3119 - Fax: 304.933.3327



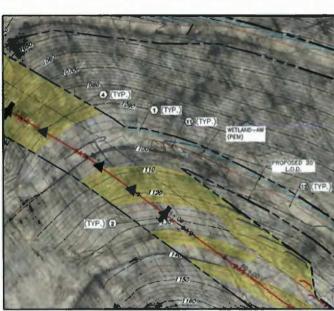
DETAIL AG - UNT 20 (EPH) STREAM CROSSING

- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AS SHOWN INSTALL COMPOST FILTER SOCK AT OUTILET OF WATERBARS.
- REFER TO DETAIL 11 OR 13 ON SHEET 33 FOR CROSS SECTION OF FLUME PIPE WITH SAND BAG COFFERDAM
- INSTALL FLUME PIPE ON EXISTING STRE JAMBED MIMEDIATELY PRIOR TO UTILITY LINE INSTALLATION. FLUME PIPE I SHALL ONLY REMAIN IN PLACE DURING THE UTILITY UNE INSTALLATION. THE PERIOD. THE UTILITY LINE INSTALLATION THE PERIOD IS 24-HOURS FOR A STREAM WITH A 10' BOOTTOM WIDTH OR LESS AND 48-HOURS FOR A STREAM WITH A 10-BOOTSOM WIDTH UNLESS AND 48-HOURS FOR A STREAM WITH A 10-BOOTSOM WIDTH UNLESS OTHERWISE AP PROVED IN WRITING BY THE
- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AND FILTER SOCK ALONG STREAM BANKS, INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- INSTALL A ROCK PAD APPROACH TO PRI FOR TO THE TIMBER MATS.
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE ORIGINAL GRADE
- MOBILE BRIDGE IS TO EXTEND FROM TO IP OF BANK TO TOP OF BANK OF THE STREAM, CONTRACTOR SHALL NOT PLACE FILL UNDER THE MOBILE BRIDGE FLUME PIPE SHALL NOT SUPPO INT MOBILE BRIDGE.
- CONTRACTOR MAY SUPPLEMENT FLUME E PIPE SHOWN WITH ADDITIONAL FLUME PIPES OR PUMPS TO ACCOMMODIDATE STREAM FLOW DURING CONSTRUCTION.
- DEWATERING ZONE IS TO BE PUMPED O JUT USING A PUMP AND FILTER BAG.
- IO. GEOTEXTILE SHALL BE ATTACHED TO THHE UNDERSIDE OF THE TIMBER MAT
- THESE NOTES PERTAIN TO A FLUME CROSSING, REFER TO DETAIL 10 NOTES ON SHEET 33 IF TRENCHING OPTION IS USED.



DETAIL AH - WETLAND AV (PEM) CROSSING

- INSTALL COMPOST FILTER BOCK ACROSS THE RIGHT-OF WAY, IMMEDIATELY UP-SLOPE OF THE WETLAND BOUNDARY, AT THE EDGE OF THE RIGHT OF WAY, AND AS NECESSARY, AROUND SON, STOCKPILE
- EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER WATS FOR VEHICULAR CROSSING OF WEILAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WEILAND CROSSING LINLESS THE WEILAND IS BEING PHOTECTED BY TIMBER MATS.
- INSTALL TRENCH PLUGS ON EACH SIDE OF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETLAND OR CHANGING HYDROLOGY
- WHEN EXCAVATING TRENCH IN WETLAND, EXCAVATE WETLAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE BEPARATELY FROM BURBOIL DURING BACKFLUNG OF THENCH TO THE TOPSOIL IN TOP OF TRENCH TO RESTORE WETLAND. STOCKPILE SOIL CONTO GEOTEXTILE MITHE SPOIL AREA NEXT TO THE TRENCH (UNLESS THERE IS STANDING WATER ON THE SOIL IS TO SATURATED TO SECRECATE.)
- SWAMP MATS SHOULD BE UTILIZED IN WORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLANDS
- UPON RESTORATION, REMOVE GEOTEVIRE, SWAMP MATS, INSTALL WATERBARB, AND RESTORE WETLAND OF CHATTEN GRAD.
- SEE DETAIL IP ON SHEET 33



DETAIL AI - WETLAND AW (PEM) CROSSING

- INSTALL COMPOST FILTER SOCK ACROS 3S THE RIGHT OF WAY, IMMEDIATELY UP SLOPE OF THE WETLA ND BOUNDARY, AT THE EDGE OF THE RIGHT OF WAY, AND AS NECESSAR IY, AROUND SOIL STOCKPILE.
- EQUIPMENT STAGING AREA MUST BE LOCATED A MINIMUM OF 50 FEET FROM THE EDGE OF THE WETLAND.
- USE TIMBER MATS FOR VEHICULAR CRO ISSING OF WETLAND, VEHICLES ARE NOT ALLOWED ACCESS TO THE WETLAND CROSSING UNLESS THE WETLAND IS BEING PROTECTED BY TIMBBER MATS.
- INSTALL TRENCH PLUGS ON EACH SIDE. OF THE WETLAND TO PREVENT THE TRENCHING FROM DRAINING WETL AND OR CHANGING HYDROLOGY.
- WHEN EXCAVATING TRENCH IN WETLAN 10, EXCAVATE WETLAND TOPSOIL (TOP 12 INCHES) AND STOCKPILE SEPARATELY FROM SUBSOIL OURING BACKFILLING OF TRENCH, REPLACE TOPPOIL IN TOP OF TRENCH TO RESTORE WETLAND, STOCKPILE SOIL O TAITO GEOTEXTILE IN THE SPOIL AREA NEXT TO THE TRENCH, (UNLESS T THERE IS STANDING WATER OR THE SOIL IS TO SATURATED TO SEGREGATE...)
- SWAMP MATS SHOULD BE UTILIZED IN WYORKING AREA TO MINIMIZE DISTURBANCE/COMPACTION OF WETLA NOS.
- UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP MATS, INSTALL WATERBARS, AND RESTORE WETLAND ITTO EXISTING GRADE.
- SEE DETAIL 12 ON SHEET 33



DETAIL AJ - UNT 23 (EPH) CROSSING

- INSTALL WATERBARS AT APPROACH TO STREAM CHOSSING AS S-KWN.
 INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- REFER TO DETAIL 12 OR 18 ON SHEET 19 FOR CHOSS SECTION OF FLUME PIPE WITH SAND BAG COFFERDAM
- INSTALL WATERBARS AT APPROACH TO STREAM CROSSING AND FILTER SOCK ALONG STREAM BANKS. INSTALL COMPOST FILTER SOCK AT OUTLET OF WATERBARS.
- INSTALL A HOCK PAD APPROACH TO PRIOR TO THE TIMBER MATS.
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF S-WICHES ABOVE ORIGINAL GRADE.
- MOBILE BRIDGE IS TO EXTEND FROM TOP OF BANK TO TOP OF BANK OF THE STREAM, CONTRACTOR BHALL NOT PLACE FILL MODEL THE MOBILE BRIDGE FLUME PIPE SHALL NOT SUPPORT MOBILE BRIDGE
- CONTRACTOR MAY SUPPLEMENT TUME PIPE SHOWN WITH ADDITIONAL FLUWE PIPES OR PLUPS TO ACCOMMODATE STREAM FLOW DURING CONSTRUCTION.
- DAME RETURN A DAME IN OUR PLANT OF THE BAG SHEET AND FILTER BAG
- 10. GEDTENTILE SHALL BE ATTACHED TO THE UNDERSIDE OF THE TIMBER WAT
- THESE NOTES PERTAIN TO A FLUME CROSSING REFER TO DETAIL 12 NOTES ON SHEET 13 IF TRIENCHING OPTION IS USED.

STREAM, WETLAND, AND ROAD CROSSING DETAILS SEAL **REVISION RECORD** Gone Gathering LLC DESCRIPTION NO. DATE **OXFORD 1 TO EQT** GAS/WATER PIPELINES 18" GATHERING LINE
WEST UNION DISTRICT, OCCIDENCE COUNTY WA
11/22/2013 PROJECT NO. 1314655
15" 80" SHEET 20 OF 34

CONTRACTOR NOTES:

1. ALL EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHO UGH THE DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED TH AT THE DEVELOPER AND THE ENGINEER NEITHER ASSUME NOR IMPLY ANY RESPONSIBILITY FOR THE ACCURACY OF

2. ALL CONTRACTORS/SUBCONTRACTORS PERFORMING WORK ON THIS PRO JECT SHALL FAMILIARIZE THRESELVES WITH THE SITE AND SHALL BE SOLELY RESPONSIB JLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM THEIR O DEPRATIONS. SAID PLANTS. ANY REMOVAL OR DAMAGE TO EXISTING IMPROVEMENTS SHALL INCLUDE BUT NOT BE LIMITED TO BERMS, D. ITCHES, FENCES AND PLANTS. ANY REMOVAL OR DAMAGE TO EXISTING IMPROVEMENTS SHALL BE : REPLACED OR REPAIRED BY THE CONTRACTORS AT THEIR EXPENSE AND SHALL BE APPROV. VED BY THE

3. ALL CONSTRUCTION SHALL MEET OR EXCEED ALL REQUIREMENTS OF THE PERMITTING ENTITY AND WYDOT, WYDNR & WYDEP.

4. ALL TESTING SHALL BE DONE BY AN APPROVED LABORATORY AT THE EXPE ENSE OF THE

5. PRIOR TO CONSTRUCTION, ALL CONTRACTORS SHALL FAMILIARIZE THEMS :ELVES WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS, THE PLANS INCLUDING ALL NOTES, THE CONDITIONS OF ALL PERMITS AND ANY OTHER APPLICABLE STANDARDS OR SPECIFICATIO. WS RELEVANT TO THE OF ALL PERMITS AND ANY OF THE WORK SPECIFICA FILE OF THE PART OF T
PROPER COMPLETION OF THE WORK SPECIFICA FILE OF THE PART OF T
FAMILIARIZE HIMSELF WITH ALL STANDARDS OR SPECIFICATIONS PERTAINING
G TO THIS WORK SHAL
IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PERFORMIN
G THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATION IS

6. CONTRACTORS SHALL HAVE IN THEIR POSSESSION, PRIOR TO CONSTRUCT
PERMITS, LICENSES, BONDS, INSURANCE, ETC. CONTRACTORS SHALL EACH
SET OF APPROVED ENGINEERING PLANS AND SPECIFICATIONS, SWPPP, AND
GPP ON-SITE AT ALL

7. CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO DENCROACHMENTS ONTO DEVELOPED AREAS WILL BE ALLOWED. ANY DAMAGE RESULTING THEIR REFROM SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR.

8. IT WILL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO PROTECT ALL E EXISTING PUBLIC AND PRIVATE UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. CO ONTRACTORS SHALL CALL WEST VIRGINIA UTILITIES PROTECTION SERVICE AT 1-800-245-4848 OR 811 AND CONTACT THE APPROPRIATE UTILITY COMPANIES OR LINE LOCATIONS AT LEAST 2 WORKING 3 DAYS (48 HOURS) PRIOR TO CONSTRUCTION AND SHALL ASSUME FULL LIABILITY TO THOSE COMPANIES FOR ANY

9. TRENCHES WHICH LIE OUTSIDE EXISTING OR FUTURE PAVEMENTS SHALL B. 3E BACK-FILLED ABOVE THE TOP OF THE EMBEDMENT AND COMPACTED TO 95% PROCTOR DENSITY

10. TOP OF NATURAL GAS PIPELINE SHALL BE A MINIMUM OF 3'-0' BELOW THE FINISHED GROUND ELEVATION EXCEPT IN AGRICULTURAL FIELDS IN WHICH THE DEPTH SHALL B E 4'-0'.

11 CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFET. Y REQUIREMENTS IN ACCORDANCE WITH STANDARD ANTERO RESOURCES CORPORATION TRENC

H SAFETY GUIDELINES
AND SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF LABOR OCC

UPATIONAL SAFETY AND

12. THIS IS NOT A BOUNDARY SURVEY. BOUNDARY LINES AS SHOWN HEREON JARE BASED ON TAX PARCEL INFORMATION DERIVED FROM THE WEST VIRGINIA DEPARTMENT OF REVENUE, DATED 2008.

13. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE PROJECT DES IGN ENGINEER FOR ANY DEVIATION FOUND RELATIVE TO PROJECT.

14.. EXISTING EASEMENTS AND/OR RIGHT-OF-WAYS WERE NOT ADDRESSED D $\;$ DURING THIS SURVEY, OTHER THAN SHOWN HEREON.

15. FENCE LINES ENCOUNTERED DURING CONSTRUCTION SHOULD BE RELOC. ATED AND REPLACED THE THE CHIDANCE OF THE LANDOWNER AND THE AMTERO RESOURCES COR ROPARTION REPRESENTATIVE. CONTRACTOR SHALL SURVEY THE LOCATION OF ALL EXIS STING FENCES PRIOR TO REMOVAL AND RECONSTRUCTION IS COMPLETE.

16. CONTRACTOR IS TO INSTALL TEMPORARY DIVERSION DITCHES WITH STAB. BILIZED OUTLETS IN ACCORDANCE WITH THE PLANS AND THE OWNER'S CONSTRUCTION SPECIAL IST OR THE CHIEF INSPECTOR IN ACCORDANCE WITH WY DEP EROSION AND SEDIMENT CONTROLOUS OLD BMP MANUAL.

SPECIAL NOTES: STREAM/WETLAND CROSSINGS

ALL TREES AND WOODY DEBRIS REMOVED FROM STREAM OR WETLAND C COSSINGS MUST BE DISPOSED OF OUTSIDE THE RIPARIAN OR WETLAND CROSSING AREAS.

CONSTRUCTION TIMBER MATTING MUST BE USED WHEN EQUIPMENT IS CR ROSSING WETLANDS AND/OR

THE SEED MIX FOR STREAMWETLAND CROSSING AREAS SHALL BE LISED.

FERTILIZER OR LIME SHALL BE USED IN STREAMWETLAND CROSSING

NO GRUBBING IS ALLOWED AT TEMPORARY ACCESS CROSSINGS OF STRE FAMS OR WETLANDS.

SEED MIXTURE: WETLAND/STREAM SPECIES EMPIRE BIRDSFOOT TREFOR (EMPIRE, VIKING)

CONSTRUCTION NOTES:

1, DATUM BASED ON WEST VIRGINIA STAILTE PLANE COORDINATES SYSTEM, NAD 83 NORTH ZONE.

2. PRIOR TO CONSTRUCTION CALL WEST I VIRGINIA UTILITIES PROTECTION SERVICE AT 1-809-245-4848 OR 811 AND ALL OTHER UTILITY COMPANIES : AT LEAST 2 WORKING DAYS (48 HOURS) PRIOR TO

3. ALL EXCAVATION AND EARTH MOVING FACTIVITIES INCLUDING BUT NOT LIMITED TO OPEN EXCAVATIONS, OVERBURDEN AND BACK (FILL REQUIREMENTS, FINAL CUT AND FILL SLOPES AND BENCHING REQUIREMENTS WILL BE IN S JUBSTANTIAL CONFORMANCE WITH CONSTRUCTION

EXCAVATION - EXCAVATION WILL NOT BE E CLASSIFIED AND WILL INCLUDE ALL MATERIALS ENCOUNTERED, REGARDLESS OF NATUR RE.

PRODUCT TRANSPORTED: NATURAL GAS WATER

EROSION CONTROL NOTES:

1. ADEQUATE MEASURES SHALL BE TAKE EN TO PREVENT EROSION. IN THE EVENT THAT EROSION OCCURS AS A RESULT OF CONSTRUCTION, THE CON TRACTOR SHALL RESTORE THE ERODED AREA TO ITS ORIGINAL

2. ALL CONSTRUCTION, EROSION CONTR (OL MEASURES, AND STORM WATER DISCHARGES FROM THE SITE SHALL ADHERE TO THE CONDITIONS OF THE WEST VIRGINIA OIL AND GAS CONSTRUCTION STORMWATER

WATER QUALITY
THE CONTRACTOR WILL BE RESPONSIBL .E FOR WATER QUALITY THROUGHOUT THE OPERATION OF CONSTRUCTION. THE CONTRACTOR WIL LL BE RESPONSIBLE FOR THE FOLLOWING:

- IMPLEMENTING THE EROSION CONTRO 4. PLAN.
- DIRECTING THE CONSTRUCTION, OPER 'ATING, AND DISMANTLING OF TEMPORARY EROSION CONTROL FEATUURES.

IMPLEMENTING REMEDIAL ACTION REQ. JUIRED TO REPAIR FAILING EROSION

- IMPLEMENT IND REMEDIAL ACTION REQ. INTED TO REPAIR PAILING ENCOUNT AND SEDMENTATION CONTROL FEATU RES. - IMPLEMENTING STORM AND WINTER SH-IUTDOWN PROCEDURES AS REQUIRED. - THE CONTRACTOR WILL SHAPE EARTH WORK PRIOR TO THE SUSPENSION OF GRADING OPERATIONS EACH DAY IN A MANNER T THAT WILL PERMIT STORM RUNDER

WITH A MINIMUM AMOUNT OF FROSION

EROSION CONTROL FEATURES INSTALL LED BY THE CONTRACTOR WILL BE OPERATED AND MAINTAINED IN AN ACC SEPTABLE CONDITION.

WHEN ANY EROSION OR SEDIMENT CO INTROLIFEATURE HAS REACHED HALF

OF IT'S CAPACITY, THE DEVICE IS TO BE E CLEANED OUT AND RESTORED TO IT'S ORIGINAL CONDITION

CONTACTOR IS ADVISED TO CLOSELY E EXAMINE THE WATERBAR DETAILS TO ENSURE THAT A FILTER SOCK BARRIER IS PLACED AROUND THE OUTLIET OF EACH WATERBAR.

EROSION CONTROL PROGRAM

EROSION CONTROL SHALL BE MAXIMIZED TH IROUGH RAPID STABLIZATION OF THE DISTURBED AREAS AND BY DIVERTING CLEAN WATER AND EROSIVE R.OWS AROUN DOR THROUGH DISTURBED AREAS IN A NON-EROSIVE MANNER. WHERE FINAL GRADING HAS BEEN ESTABLISHED, FER RITLIZER (OUTSIDE OF STREAMWETLAND CROSSING AREAS) PERMANENT AND TEMPORARY SEEDING, AND MULCHING. SHALL BE APPLIED IMMEDIATELY, BARE SOL AREAS MUST BE FERTILEED (OUTSIDE STREAMWEILAND CROSSING ARE: AS) SEEDED, AND MULCHED AFTER 14 DAYS WHEN TEMPORARY OR FINAL GRADE IS ESTABLISHED IF NOWORK IS PLAN INED IN THAT AREA DURING THE POLLOWING 7 DAYS (I.E. 2) CONSECUTIVE DAYS). REVEGETATION ACTIVITIES SHALL BE: PERFORMED IN AN AGGRESSIVE MANNER THROUGHOUT THE CONSTRUCTION PROCESS.

SEDIMENT CONTROL PROGRAM.
SEDIMENT CONTROL SHALL BE ACCOMPLISH IED THROUGH RAPID STABILIZATION AND BY THE INSTALLATION OF STRUCTURAL DEVICES, AS SHOWN ON THE C. CONSTRUCTION PLANS.

VEGETATIVE PRACTICES

1. SURFACE ROUGHENING - AREAS TO BE SEEDED SHALL BE LIGHTLY ROUGHENED AND LOOSE TO A DEPTH OF 2'TO 4"
PRIOR TO SEEDING AREASWHICH HAVE : BEEN GRADED AND WILL NOT BE STABILIZED IMMEDIATELY, MAY BE
ROUGHENED TO REDUCE VELOCITY UN TIL SEEDING TAKES PLACE.

2. TOP SOILING (STOCKPLE) - TOPSOIL WIL .1. BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPLED FOR LATER USE. STOCKPLE LOCATION SHALL BE LOCATED WITHIN CONSTRUCTION RW, AND TO BE STABILZED WITH TEMPORARY VEGETATION. AREAS OF S. TOCKPLE, ONCE REMOVED, SHALL BE GRADED/RESTORED & PERWANENTLY

TEMPORARY STABILIZATION - SELECTION OF THE SEED MIXTURE WILL DEPEND ON THE TIME OF THE YEAR IT IS APPLIED AND SHALL BE DONE WITH T EMPORARY SEEDING MEASURES SPECIFIED BELOW. MULCHING SHALL BE APPLIED AT A RATE OF TWO T 'ONS OF STRAWO'R WEED FREE HAY PER ACRE. EXCEPT IN STREAMWETLAND CROSSING AREAS, F ERTILIZER SHALL BE APPLIED AT A RATE OF 1,000 LBS/ACRE AND LIME SHALL BE APPLIED AT 1.0 TOWACR IE.

PERMANENT STABILIZATION ALL AREAS DISTURBED BY CONSTRUCT ION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISHED GRADING, SEEDIN NG SHALL BE DONE WITH PERMANENT SEEDING MESSURES AS SPECIFIED BELOW, IN ALL SEEDING OPE :RATIONS, SEED WILL BE APPLIED PRIOR TO MULCHING MULCHING SHALL BE APPLIED AT A RATE OF TWO T'ONS OF STRAW OR WEED FREE HAY PER ACRE. OUTSIDE OF STREAMWETLAND CROSSING AREAS, F ERTILIZER SHALL BE APPLIED AT A RATE OF 1000 BESIACRE AND LIME SHALL BE APPLIED AT 1.0 TOWACRE.

"NOTE: SEED MIXES SHALL NOT BE MOD DIFFED WITHOUT APPROVAL OF ENGINEER

SEED MIXTURE: OUTSIDE STREAM/WETL. .AND CROSSING

PER	MANENT SEE	DING
SPECIES	PLANTING DATES	APPLICATION RATE LBS/ACRE
SWITCHGRASS	3/1-6/5 B/15-9/15	15
PERENNIAL RYEGRASS	3/1-6/5 6/15-9/15	20
REDTOP	3/1-6/15	5
BIRDSFOOT TREFOIL	3/1-6/5 6/15-9/15	15
JAPANESE MILLET	06/16-08/14	15
WINTER RYE	09/16-08/26	85

LIME: AGRICULTURAL GROUND LIMESTONE AT 1. TON PER ACRE FEHTILIZER: 10-20-10 AT A RATE OF 1,000 FOUND IS HER ACHE.
MULCH: GRASS HAY OR CEREAL STRAW AT 2 TON 45 FER
ACRE. ANCHOR STRAW AND HAY WITH ASPHALT
EMULSION, CHEMICAL ANCHORING SOLUTION, NE STITING OR EMULSION, CHEMICAL ANCHORING SOLUTION, NE ETTING OR A MULCH-ANCHORING TOOL. A LIQUID MULCH BI NDER SHOULD NOT BE USED WITHIN 100 FEET OF A WE :TLAND OR WATERBODY.

TEMPORARY SEEDING KIND OF SEED FIELD ROMEGRASS 3/1-6/15 6/1-9/5 49 SPRING OATS 3/1-6/15 100 WINTERRYE R/15-2/28 17D INTER WHEA 6/15-2/26 180 JAPANESE MILLET 5/15-8/15 3D REDTOP 3/1-6/15 10 ANNUAL RYEGRASS 3/1-6/15 ND SHRIN OATS 5/1-8/1 AIL MILLET HAIRY VETCH 8/15-4/1 60

EROSION & SEDIMENT CONTROL NARRATIVE

THE EROSION AND SEDIMENT (E&S) CONTROL MEASURES FOR THE PIPEL COMPOST FILTER SOCK, SUPER SILT FENCE, ROW DIVERSIONS, TRENCH BREAKERS (PLUGS), EROSION CONTROL MATTING, TEMPORARY/PERMANENT SEEDING, AND MULCHING. BMP INSTA DEPICTED ON SHEETS 11,12, AND 13. STRAWHAY BALES WILL NOT BE US ED AS AN ESS CONTROL.

GENERAL CONSTRUCTION SEQUENCE

1. PRIOR TO COMMENCEMENT OF ANY EARTH DISTURBANCE ACTIVITY, I INCLUDING CLEARING, GRUBBING, AND GRADING, THE REGISTRANT SHALL CLEARLY DELINEATE SENSITIVE A .. REAS, THE LIMITS OF CLEARING, AND TREES THAT ARE TO BE CONSERVED WITHIN THE PROJECT SITE. INSTALL AP PROPORIATE BARRIERS WHERE EQUIPMENT MAY NOT BE PARKED, STAGED, OPERATED, OR LOCATED FOR ANY PU JRPOSES.

- SITE ACCESS THIS IS THE FIRST LAND DISTURBANCE ACTIVITY TO TA

 AKE PLACE AT THE SITE, AND SHALL PROVIDE
 BMPS TO MINIMIZE ACCELERATED EROSION AND SEDIMENTATION FR

 OM THE FOLLOWING AREAS: ENTRANCE TO THE
 SITE, CONSTRUCTION ROUTES, AND AREAS DESIGNATED FOR EQUIPM WENT OR OTHER USE AT THE SITE INCLUDING
 PARKING AND STOCKED ES.
- SEDIMENT BARRIERS INSTALL PERIMETER BMPS AFTER THE CONST. RUCTION SITE IS ACCESSED KEEPING THE ASSOCIATED GRUBBING AND GRADING LIMITED TO ONLY THAT AMOU. INT REQUIRED FOR INSTALLING PERIMETER.
- PIPEL INE TO BE INSTALLED AS SOON AS PRACTICABLE AFTER CLEAR LARGE DIAMETER PIPELINES WITH WELDED JOINTS WHERE THE PIPE JOINTS ARE WELDED WHILE THE PIPELINE IS OUT OF THE TRENCH USUALLY REQUIRE A FAIRLY LONG LENGTH OF O PEN PIPELINE TRENCH. THE TOTAL TIME OF EARTH EXPOSURE FOR THIS TYPE OF PIPELINE CONSTRUCTION, INCL. EARTH EXPOSURE FOR THIS TYPE OF PIPELINE CONSTRUCTION, INCL.

 JUDING THE ACCESS ROADWY PARALLEL TO THE PIPELINE, SHOLLO GENERALLY BE LIMITED TO NO MORE THAN 80 JCLENDAR DAYS AT ANY GIVEN POINT ALONG THE PIPELINE. TRENCH SPOILS SHALL BE PLACED ON THE UPSLOPE
 AS A TEMPORARY DIVERSION FOR UPSLOPE RINOFF DURING PIPELIN IN EINSTALLATION. RIGHT-OF-WAY SHALL BE STABILIZED WITH SEED AND STRAW AND/OR ROLLED EROSION CONTR ROL MATTING AS SPECIFIED ON PLANS AS SOON AS PRACTICABLE FOLLOWING INSTALLATION OF PIPELINE. THESE OP "ERATIONS SHALL BE CONDUCTED PROGRESSIVELY ALONG PIPELINE ALIGNMENT (J.E., THE PIPELINE TRE ENCHING AND INSTALLATION CREW SHALL FOLLOW CLOSELY BEHIND THE CLEARING AND GRUBBING CREW, AND JTHE SOIL STABILIZATION CREW SHALL FOLLOW CLOSELY BEHIND THE PIPELINE INSTALLATION CREW).
- FOR SIDE-SLOPE CONSTRUCTION, TOPSOIL AND TRENCH SPOILS SHA
 LL BE PLACED AT THE UPHILL LIMIT OF THE
 CONSTRUCTION RIGHT-OF-WAY. THIS MATERIAL SHALL BE PLACED IN
 PLE FORMING A BERM TO DIVERT CLEAN WATER RUNOFF FROM THE
 AREA UPSLOPE OF THE CONSTRUCTION
 RIGHT-OF-WAY. THE UPSLOPE FACE OF THE SPOIL PILESDIVISHENSION
 BERM SSHALL BE STABILZED IMMEDIATELY
 AFTER PLACEMENT WITH STRAW MULCH AND TEMPORARY SECDING.
 TO CREATE A STABILZED CONSEYANCE
 WITH SEDIMENT. IF SUFFICIENT MATERIAL TO BUILD A BERM IS NOT A
 VALLABLE, A DIVERSION OF THE
 USED IN PLACE OF THE BERM. THE CONTRACTOR IS RESPONSIBLE FO OR SELECTING AND PROVIDING RELIF CUTS
 (OPENINGS) IN THE UPSLOPE DIVERSION TO ALLOW ACCUMULATED C
 ACROSS THE CONSTRUCTION RIGHT-OF-WAY. THE CONTRACTOR IS RESPONSIBLE FOOR PROVIDING A STABLE
 RIGHT-OF-WAY CROSS CONVEYANCE FOR THIS CLEAN WATER RUNOF F TO BE PROVIDING A STABLE
 RIGHT-OF-WAY CROSS CONVEYANCE FOR THIS CLEAN WATER RUNOF F TIN THE FORM OF AN UNDISTURBED AREA,
 STABILZED CHANNEL. THE PROPARRY CONVEYANCE PIPE. OR SOME COMMENSION TO AN UNDISTURBED AREA,
 STABILZED CHANNEL. THE PROPARRY CONVEYANCE PIPE. OR SOME COMMENSION TO THE OTHER CTOR IS RIGHT-OF-WAY CROSS CONVEYANCE FOR THIS CLEAN WATER RUNDF FF IN THE FORM OF AN UNDISTURBED AREA, STABILIZED CHANNEL, TEMPORARY CONVEYANCE PIPE, OR SOME CO. MBINATION THEREOF. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A STABLE OUTFALL AT THE DISCHARG. IE POINT OF THE RIGHT-OF-WAY CROSS CONVEYANCE MEASURES. THE CONTRACTOR SHALL REGULARLY INSP. PECT THE RIGHT-OF-WAY CROSS CONVEYANCE MEASURES TO IDENTIFY SIGNS OF EROSION OR OFFSITE SEDIMENT P. POLLUTION. IT IS THE INTENT OF THIS PLAN THAT THE RUNDFF DIVERTED BY THE UPSLOPE DIVERSION AND CONV. VEYED BY THE INTENT OF THIS PLAN CROSS CONVEYANCE MEASURES BY LE BE KEPT FREE OF SEDIMENT POLLUTI ION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE FOR AND MAINTAIN RIGHT-OF-WAY CROSS.

 S CONVEYANCE MEASURES THAT WILL ACHIEVE THIS GOAL. STABILZATION OF PROBLEM AREAS SHALL BE HANDLED.

 Y THE CONTRACTOR ON A SITE-SPECIFIC, CASE BASIS IN CONSULTATION WITH THE ENGINEER-OF-REC.
- SURFACE STABILIZATION STABILIZATION MEASURES SHALL BE INITIA
 OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY
 OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY
 OR PERMANENTLY CEASED, BUT IN NO CASE
 MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN TH
 CEASED, WHERE THE INITIATION OF STABILIZATION MEASURES BY TH
 OR SEVENTH DAY AFTER CONSTRUCTION
 ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED B
 SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW, WHERE CONST
 PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEAS
 TONISTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21
 HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVEN
 THAT SEMPORABILY CRASED

LAND GRUBBING AND GRADING - IMPLEMENT GRUBBING AND GRADIN IG ONLY AFTER ALL DOWNSLOPE PERIMETER EROSION AND SEDIMENTATION BMPS HAVE BEEN CONSTRUCTED AND DISTABILIZED.

- 8. CONSTRUCTION DURING CONSTRUCTION, INSTALL AND MAINTAIN AN INVADDITIONAL EASIBMPS AND IMPLEMENT ANY STRUCTURAL POST CONSTRUCTION STORMWATER BMPS THAT MAY BIBE REQUIRED.
- FINAL STABILIZATION AREAS SHOULD BE RETURNED TO PRECONSTR RUCTION CONDITIONS IN TERMS OF GRADE AND VEGETATIVE STABILIZATION TO RESTORE DRAINAGE PATTERNS. AFT "ER CONSTRUCTION IS COMPLETED, INSTALL STABILIZATION BMPS INCLUDING: PLACING TOPSOIL AND PERMANEN T SEEDING, MULCHING, AND COMPLETE IMPLEMENTATION OF STORMWATER BMPS (AS APPROPRIATE) AS SHO DWN ON THE PLANS. STABILIZE ALL OPEN AREAS INCLUDING BORROW AND SPOIL AREAS.
- 10. AFTER 70 PERCENT UNIFORM, VEGETATIVE COVER HAS BEEN ACHIEV /ED AND THE SITE HAS BEEN STABILIZED, REMOVE ALL TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND STABILIZE ANY DISTURBANCES ASSOCIATED WITH THE REMOVAL OF THE BMPS. TEMPORARY BMPS 8 MAY INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING: SILT FENCE, WETLAND CROSSINGS (REMOVE IMMEDIATE ELV JUPON WORK COMPLETION IN THAT AREA), RIGHT-OF-WAY DIVERSIONS, STABILIZED CONSTRUCTION ENTRANCES S, ETC.

MINIMUM CONSTRUCTION STANDARDS NARRATIVE

- FERTILIZING, SEEDING, AND MILLO I SHALL DE APPLIED TO ALL DISTURBED AREASYMHERE CONSTRUCTION IS NOT TO DIÉ COMMITCHE FOR A PERIOD OF 7 DAYS OF MORE AND TO ALL AREAS WHERE PHAL GRADE AND THE STEED HERE ON STRUCTIVA ACTIVITY WILL RESUME ONA PORTION OF THE STIE WITHIN 25 DAYS FROM WHEN ACTIVITIES CEASEO, THE STABILIZATION MEASURES DO NOT HAVE TO DE MITATED ON THAT PORTION OF THE STIE BY THE THE DAY AFTER ODES TRUCTION ACTIVITIES HAVE THE PROPARATY. CEASED, REVEGETANION ACTIVITIES SHALL DE PERFORMED NAY AGGRESSIVE MANYER
- DURING CONSTRUCTION OF THE PROJECT, SOL STOCKPILES SWILL BE STABLIZED WITH APPROPRIATE REST MANAGEMENT PRACTICES.
- PERMANENT VEGETIATIONS HALL NOT BE CONSIDERED ESTABLISHED LATIL A GROUND COVER IS ACHIEVED THAT IS LINFORM, MATURE ENDUCH TO SLAVING, AND MAL-WHISTI EROSION. 70% VEGETIATIVE COVER SHALL DE CONSIDERED STABLIZED.
- WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT RAVED OF PLATE OR PLATE OF PLATE
- ALL TEMPORARY SEEDMENT CONTROL MEABURES BHALL REMAIN NIPLACE LINTIL VEGETATION IS WELLL ESTABLISHED ON ALL AREAS TO WHICH THE STRUCTURE IS BEING UTILIZED. NO EROSKON CONTROL MEASURE CAN BE CHANGED O'R REMOVED WITHOUT THE
- PROPERTIES AND WIATERWAYS DOMAISTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SSEDAJENT DEPOSITION, EROSION AND DAMAGE DUE TO NOREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNDIFF
- ALL MEASURES USED TO PROTECT PROPERTIES AND YMATERWAYS \$HALL BE EMPLOYED IN A MANNER WHOCH MININDES MYACIS ON THE PHYSICAL OF EMIGLA AND LIQUOGICAL INTEGRITY OF RIVERS, STREAMS, AND OTHER WATERS OF THE STATE.
- STABLIFATION MEA SURFES SHALL BE APPLIED IN MEDIATELY TO EARTHEN STRUCTURES SUCH AS BERMS ANIO DIVERSIONS MATERIATELY AFTER INSTALLATION
- AREAS WHERE THE SEED, AS TALED TO GERMINATE ADEQUARELY (UNIFORM PERFINANAL VEGETATIVE COVERY WITH ADEASINY OF TRAJUNTHAN STICKYS AFTER SEEDING AND MILLOHING MUST BEE RESEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS
- 10. CLEAN WATER DIVE RISIONS MUST BE STABLUSED PRIOR TO BECOMING PUNCTIONAL

MAINTENANCE PROGRAM!

ALL PERSONNEL INVOLVE DIN THE INSTALLATION OF THE TEMPORARY SEDMENT CONTROL.

STRUCTURES SHALL BE PROPERLY INSTRUCTED ON THE CONTRECT PUSTALLATION PROCEDURES

OF EACH MESSURE ON THIS LOG STRAINES SHALL BE CONDUCTED TO BENEVILE THOSE

PERSONNEL PERFORMINGS CONSTRUCTION ACTIVITIES ON THE PROJECT SITE ARE AWARE OF THE COMPONENTS, METH 100S, AND SOPECIED PERFORMANCE OF THE EROSION & SEDMENT ROCEDURES

ATA MINIMUM, ALL EROSIOON CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY. SEVEN CALENDAR DAYS AIND WITHIN AT HOURS AFTER ANY STORM EVEN FOR BEATER THAN 05 INCHES OF RAIN PER 24 HOOUR PERIOD,

ALL STRUCTURES ARE TO 19E REPARED OR REPLACED IMMEDIATELY LIPONTHE FINDING OF ANY DEFICIENCY, REFER TO NOTES ON EROSION CONTROL MEASURE DETAILS FOR ADDITIONAL

CONSTRUCTION ENTRANCES: INSPECTION 6-HALL BE MADE DALLY FOR ENTRANCE INTEGRITY; REQUIRED REPAIRS SHALL LIE MADE MANEDIATELY; THE EXISTING ROAD/OSINEWAY SHALL LIE MAINTAINED AND REMAIN. ACCESSIBLE TO LISERS.

RIGHT OF WAY INTERCEPTTOR OWERSION: INSPECTION SHALL BE MADE ONCE EVERY WEEK AND AFTER EVERY RAINFALL E IVENT OF DISINCHOR MORE WHEN ETH AS FORM EVENT HAS OCCURRED OR NOT AND PREPARES SHALL BE MADE AS RICESSARY. IN ARRAS WHERE CONSTRUCTION IS ACTIVELY OCCURRING, INSPECTIONS SIGN HAS PERFORMED DALY AND ANY DAMAGE SHALL BE REPAIRED BY THE END OF THE DAY.

SLT FENCESILT SOCK: NSSRECȚION SIALL BE NADE DÂLY FOR FENCE, INTEGRITY, RÉQUIRED REPARS SHALL BE NADE: INMEDIAȚILY, FENCES SIOULD BE NSFECTED AMER RANFALL OF DS INCH OR GREATER. SEDIMIENT 19 TO BE REMOVED WHEN DEPOSITS REACH ONER ALIFTHE FENCE

PERMANENT SEEDING: SE :EDED AREAS SI MILLEE CHECKED REGLARILY TO EMBLIRE A COCO STAND OF GRASS IS BEINCOMÁINTÁINED ÁREÁSTHAT FAL TO ÉSTÁBLISH VÉGETATIVE ÓOMÉR ADEQUATE TO PREVENT RRIL EROSION DI MILLEE RE-SEEDIED ÁS SOON AS THEY ARE DISMITÍRED.

MULCHING: ALL MULCHED TAGEAS SHALL BE PASPECTED PERIODICALLY, PARTICULARLY AFTER

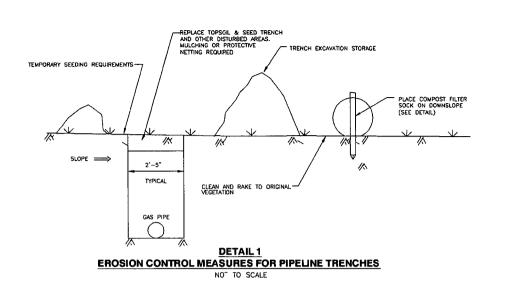
DEVICES SHOWN ARE TO BDE CONSIDERED AS MINIMUM EROBION AND SEDMENTATION CONTROLS, ADDITIONAL C XONTROLS MAY BE NECESSARY OUE TO CONTRACTOR'S IN ASING OR CONTROLS AUDITIONS C DISTRICTS MAY BE CONTRACTOR'S RESPONSBILITY TO PROVIDE ADDITIONAL DEVICES AS NIÈCESSAY IN DISTRICT D'ATOMICE ADDITIONAL DEVICES AS NIÈCESSAY IN DISTRICT DO CONTROL ÉTICS ION AND SEDMENTATION MASSIFIES THALLE INSTALLED AND MINITANED IN ACCOMPANCE WITH THE POLICIES AND REDURBANETS OF THE WAST VIGGIN DEPARTMENT OF EMPROVMENTAL PROTECTION BEST MANAGENENT PRACTICES MANUAL, CONTROLS MAY BE REMOVED AFTER THE ARESAS AROVE THE MINAVERSEN STARD (FOR ANDWIRD THE APPROVAL OF

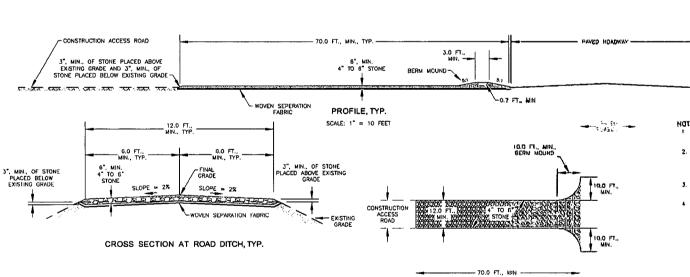
SPECIAL CARE NOTES
IT IS THE INTENT OF THIS PRIAN TO PRECLUDE SEDIMENT POLILITION FROM LEAVING THE DELINEATED CONSTRUCT ION ZONES, THE CONTRACTOR AND THE DEVELOPER SHALL TAKE DELINEATED CONSTRUCT (ONZONES, THE CONTRACTOR AND THE CEYELOPER SHALL TAKE SPECIAL CARE TO PREVENT CONSTRUCTION DEBHIS AND MILD TROM ESUCHROCKED ONTO SURROUNDING PUBLICANNO PRIMATE ROADS. CONSTRUCTION TRAFFIC SHALL ONLY ENTERAND EXIT THE CONSTRUCTION ISTIEVED CESCONATED LOCATIONS. THE CONTRACTOR AND DEVELOPER SHALL TAKE SEPCIAL CARE TO PROTECT THE EXISTING VECETATION AND WATERNAY'S OUTSIDE OF THE DESIGNATED LIMITS OF WORK SHOWNOWN THE PRANS.

OXFORD 1 TO EQT GAS/WATER PIPELINES 10' GATHERING LINE WEST UNION DISTRICT, CODDINGE COUNTY, WY DATE: 11/22/2013 PROJECT NO. 131-605	OXFORD 1 TO EQT GAS/WATER PIPELINES 15' GATHERING LINE WEST UNION DISTRICT, DODD/RIGG: COUNTY, MY	OXFORD 1 TO EQT GAS/WATER PIPELINES	SEAL	EAL		EVISION RECORD	
GAS/WATER PIPELINES 16' GATHERING LINE WEST UNION DISTRICT, DODD/RIGHE COUNTY, WY DATE: 11/20/2013 PROJECT NO. 131425	GAS/WATER PIPELINES 16' GATHERING LINE WEST UNION DISTRICT, DODDINGS: COUNTY, WW DATE: 11/22/2013 PROJECT NO. 131-025 SCALE: 107-22-2013 PROJECT NO. 131-025	GAS/WATER PIPELINES		NO.	DATE	DESCRIPTION	Gre Gathering LLC
18" GATHERING LINE WEST UNION DISTRICT, DODD/RIDG: COUNTY, WY DATE: 11/22/2013 PROJECT NO. 131423	16' GATHERING LINE WEST UNION DISTRICT, DODDINGS: COUNTY, WW DATE: 11/22/2013 PROJECT NO. 131-025 SCALE*						OXFORD 1 TO EQT GAS/WATER PIPELINES
THE PER PROCEST AND TOTAL	SCALE						18' GATHERING LINE
		11/38/2019 [-11/0000 110/000		\vdash			THE POINT PRODUCT NO. 181003









DETAIL 4
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

DOT SYSTEM STAPLE PATTERN GUIDE

NORTH

AMERICAN

GREEN

Storm 12.6dm)

Storm 12.6dm)

Storm 12.6dm)

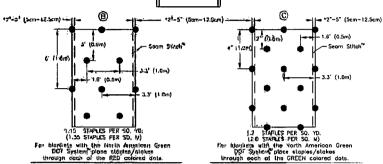
Storm Stitch

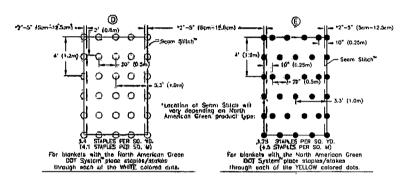
Storm Storm Stitch

Storm Storm Stitch

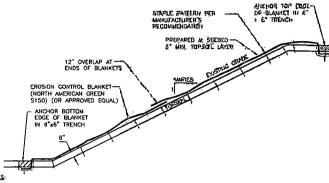
Storm Storm Stitch

Storm Storm





STAPLE PARTERIA FER



NOTES:

- 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LINE, FERTILIZED, AND SEED,
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCIPOPING THE BLANNET \$1 6" DEEP \$ 6" WILLE TRENCH. BADAFILL ANCI-COMPACT THE TRENCH AFTER STAPLING.
- 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY AGROSS THE SLOPE.
- . THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATEL 2' OVERLAP.
- WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, STABE BLANKETS END OVER END (SHANGLE STYLE) WITH APPROXIMATELY 12" OVERLAP, STAPLE THROUGH OVERLAPPED ASEA, APPROXIMATELY 12" APART.
- B. EROSION CONTROL BLANKETS SHALL BE INSTALLED BIJ ALL 3:1 OR STEEDER SLOPES
- 7. REFER TO DETAIL 7, THIS SHEET FOR STAPLE MATTERN.

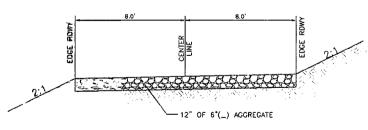
DETAIL 2 EROSION CONTROL BLANKET STAPLE PATTERN NOT TO SCALE

DETÁÍL 3 EROSION CONTROL BLANKET NOT TO SCÁLE

NOTES:

1 4" 16 6" STONE SHALL EXTEND THE FULL WINTH OF THE ACCESS WOMD.

- 4° 16 6° STONE SHALL MEET THE ARADATION REQUIREMENTS FOR CLASS 7 ACCRECATE IN TABLE 70.6 2A 0F THE WYDON STANDARD SPECIFICATIONS FOR ROADS AND BROKES.
- 3. A MOUNDED BERN MUST BE USED AT ALL STONE CONSTRUCTION DATRANCES.
- TURINGUES OFFO PAVED ROADS FROM STONE
 CONSTRUCTION ENTRANCES CHAIL RE A MEMIMUM DE LOS FETA MESABLES DE LAPA THE DAVED ROAD.
 RECARDLESS DE THE ANGLE AF WHICH THE STONE
 CONSTRUCTION EMTRANCE ENCOUNTERS THE PAVED
 ROAD.



DETAIL 5
TEMPORARY CONSTRUCTION ACCESS ROAD

SEAL		R	EVISION RECORD		Clare Cathering II C			
	NO.	DATE	DESCRIPTION		*O16	Gathering LLC		
					GAS/WA	PRD 1 TO EQT TER PIPELINES		
				DATE:		PROJECT NO: 121-058		
				SCALE	1			
				DRAW	M 6Y: GAM	CUPET 31 OF A		
				CHEC	KED 84: GSL	SHEET 31 OF 34		
3			2		1	1		

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- 1. TRENCH PLUG SHALL BE INSTALLED:

 ON SLOPES ALONG THE TRENCH LINE WHERE THE NATURAL DRAINAGE PATTERN, PROFILE, AND TYPE OF BACKFILL MATERIAL AND RESULT IN LOSS OF BACKFILL MATERIAL OR ALTERATION OF NATURAL PATTERN:

 AT THE BASE OF SLOPES ADJACENT TO WATERBODIES AND WETLANDS

 WHERE REFEDED TO AVIOLD DRAINING A WETLAND

 ON UPLAND SLOPES, AT THE SAME SPACING AS SLOPE BREAKERS AND UP SLOPE OF SLOPE BREAKERS

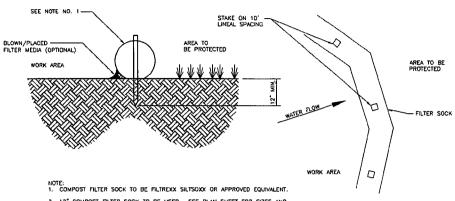
 IN CULTMATED LAND AND RESIDENTIAL AREAS WHERE PERMANENT SLOPE BREAKERS NOT TYPICALLY INSTALLED, AT THE SAME SPACING AS IF PERMANENT SLOPE BREAKERS WHERE REQUIRED.
- AS AN ALTERNATIVE TO THE MATERIALS SPECIFIED IN THE TABLE BELOW, OPEN WEAVE HEMP OR JUTE SACKS MAY BI FILED WITH A MINIMUM OF 551bs. MIXTURE OF 1 PART CEMENT TO 6 PARTS SAND OR SUBSOIL SO THAT NATURAL GROUND WATER WILL PERMIT MIXTURE TO EXUDE AND BOND SACKS TOGETHER.
- 3. TRENCH PLUG SPACING AND CONFIGURATION MAY BE CHANGED AS DIRECTED BY COMPANY. DEPTH OF DITCH MAY VARY WITH SITE CONDITIONS.
- 4. ALL MATERIALS SHALL BE SUPPLIED BY CONTRACTOR.
- 5. GEOTECHNICAL POLYURETHANE FOAM TRENCH PLUGS MAY BE USED IN LIEU OF SACKS FILLED WITH CEMENT / SOIL MIXTURE.

	MAXIMUM SE	PACING AND MATERIALS FOR TRENCH PLUGS
TRENCH SLOPE (X)	SPACING L (FEET)	TRENCH PLUG MATERIAL
0 - 5	1,000	*CLAY, BENTONITE, OR CONCRETE FILLED SACKS, OR AS SPECIFIED IN NOTES 2 AND 5
5 - 15	500	*CLAY, BENTONITE, OR CONCRETE FILLED SACKS, OR AS SPECIFIED IN NOTES 2 AND 5
15 - 25	300	CLAY, BENTONITE, OR CONCRETE FILLED SACKS, OR AS SPECIFIED IN NOTES 2 AND 5
25 - 35	200	*CLAY, BENTONITE, OR CONCRETE FILLED SACKS, OR AS SPECIFIED IN NOTES 2 AND 5
35 - 100	100	CLAY, BENTONITE, OR CONCRETE FILLED SACKS, OR AS SPECIFIED IN NOTES 2 AND 5
OVER 100	50	CEMENT FILLED BAGS, (WETTED), MORTARED STONE, OR GEOTECHNICAL POLYURETHANE FOAM

*TOPSOIL MAY NOT BE USED TO FILL SACKS.

**IMPERVIOUS TRENCH PLUGS ARE REQUIRED AT ALL STREAM, RIVER, WETLAND, OR OTHER WATERBODY CROSSINGS

DETAIL 6 TRENCH PLUG

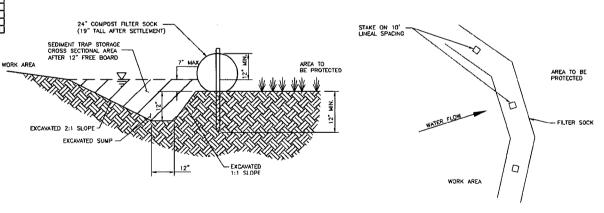


2. 12" COMPOST FILTER SOCK TO BE USED. SEE PLAN SHEET FOR SIZES AND LOCATIONS.

3. ACCUMULATED SEDIMENT SHALL BE REMOVED AND DISPOSED OF WHEN IT REACHES 1/2. THE ABOVE GROUND HEIGHT OF THE COMPOST FILTER SOCK.

4. COMPOST FILTER SOCK SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED COMPOST FILTER SOCK SHALL BE REPARED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

DETAIL 7 COMPOST FILTER SOCK



COMPOST FILTER SOCK (TYP.)

WELL VEGETATED— AREA

SECTION A-A
(NOT TO SCALE)

- 1. WATERBARS (SLOPE BREAKERS, INTERCEPTOP DIKES) SHOULD BE DISTALLED ACROSS THE ENTIRE RIGHT-OF-WAY ON ALL SLOPES CREATER THAN 5%.
- 2. WATERBARS SHALL BE PLACED AT 2% SLOPE GOWNHILL THEY SHALL BE SPACED AT THE INCREMENTS AS SHOWN ON THE PLANS, AND IN ACCOMPANCE WITH THE WYDEP EROSION AND SEDMENT POLLEHRIN GOTIFRED STANDARDS SUP LANDAUL AND THE WY DAY BEST MANAGEMENT PRACTICES FOR THE AND GAS WELL SITE CONSTRUCTION MANUAL.
- 3. WATERBARS SHOULD BE CONSTRUCTED AT A SLOPE OF 2F. AND DISCHARGE TO A WELL-VEGETARED ARCA. WATERBARS BHOULD NOT DISCHARGE SITT AN OFFICIAL TREACH, WATERBARS SHOULD BE ORGHIND SO THAT THE STEEDINGS BOS MOT FLOW BACK ONTO THE RIGHT-OF-WAY. SUPER SILE FUND. FUNCE SHIRELD BY LOCATED BELOW THE DISCHARGE ROOT THE WATERBAR.
- 4. A SOFT TRENCH PLUG WILL BE USED IN AREAS WHERE WATER GUEST BE CONNEYED ACROSS THE PIPELINE TRENCH.

REQUIRED SPACING FOR	R PERMANENT WATERGARS
PERCENT SLOPE	SPACING(FT)
1%	400
2%	250
5%	135
10%	60
15%	. 60
20%	45

DETAIL 8 TYPICAL WATERBARINSTALLATION

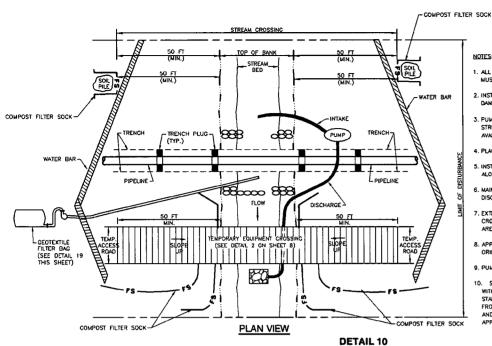
NOTE:
1. COMPOST FILTER SOCK TO BE FILTREXX SILTSOXX OR APPROVED EQUIVALENT.

- 3. COMPOST FILTER SOCK SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED COMPOST FILTER SOCK SHALL BE REPARED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.

DETAIL 9 COMPOST FILTER SOCK SEDIMENT TRAP SEAL **REVISION RECORD** Gone Gathering LLC NO. DATE DESCRIPTION **OXFORD 1 TO EQT** GAS/WATER PIPELINES 16" GATHERING LINE
WEST UNION DISTRICT, DODDRIDGE COUNTY, W
11/22/2019 PROJECT NO: 131-605 SHEET 32 OF 34

III II II Civil & Environmental Consultants, Inc. 99 Cambridge Place - Bridgeport, WV 26330 Ph: 304.933.3119 - Fax: 304.933.3327

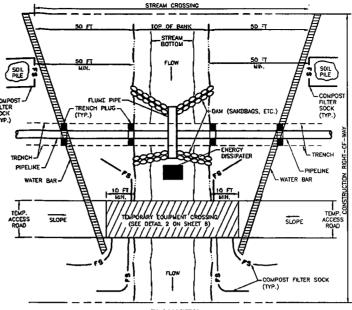
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- 1. ALL RUNOFF FROM DISTURBED UP SLOPE AREAS WITHIN LIMIT OF DISTURBANCE MUST BE TREATED FOR SEDIMENT BEFORE IT REACHES STREAM.
- 2. INSTALL COMPOST FILTER SOCK, TRENCH PLUGS, PUNP, ENERGY DISSIPATER, AND DAMS BEFORE TRENCHING WITHIN STREAM BED.
- 3. PUMP MUST BE OF SUFFICIENT CAPACITY TO CONVEY NORMAL AND/OR DXISTING STREAM FLOW OVER TRENCH, A BACK-UP PUMP OF EQUAL CAPACITY MUST BE AVAILABLE ON-SITE DURING EXCAVATION AND THE 6 NORTH MADITEMANCE PERIOD.
- 5. INSTALL WATER BARS AT APPROACHES TO STREAM CROSSING AND SOLT FENCE ALONG STREAM BANKS AND AT DOWNSLOPE END OF WATER BARS.
- MAINTAIN SURFACE OF TEMPORARY EQUIPMENT CROSSING TO PREVENT SOIL
- Extend timber mat 50 feet, from top of bank, on both sides of stream crossing in order to minimize disturbance of stream banks and riparum areas.
- 8. APPROACHES TO CROSSUNGS ARE NOT TO EXCEED A DEPTH OF 6 INCHES ABOVE
- 9. PUMP INTAKE SHALL HAVE AN ANTI-AQUATEC IMPEDIMENT SCREEN.

FROM: YA DSWC

10. STREAM CHANNELS 10 FEET IN BOTTOM WIDTH OR LESS SHALL BE COMPLETED MITHIN 24 HOURS FROM START TO PUNSH, INCLUDING TREIGH BACKFILL,
STABILIZATION OF STREAM BANKS AND STABILIZATION OF THE AREA 50 FEET BACK
FROM THE TOP OF EACH STREAM BANKS. STREAM CANNILLS ETIMEEN 10 FEET
AND 100 FEET IN BOTTOM WIDTH SHALL BE COMPLETED WITHIN 48 HOURS OR AS



PLAN VIEW

- EQUES:
 1. ALL RUNOFF FROM DISTURBED UP-SLOPE AREAS WITHIN CONSTRUCTION RICHT-OF-WAY MUST BE TREATED FOR SEDIMENT BEFORE IT REACHES THE STREAM CROSSING.
 2. DESTALL COMPOST FILTER SOCK, TRENCH PLUCS, PUINP, DIERRY DISSIPATER, AND DAMS BEFORE TRENCHING STREAM.
 3. FOR FLUME POPE AND ROCK FILL CROSSINGS, INSTALL FILME POPE ON DISTRING STREAMGED. MORE THAN 1 PLUME PIPE WAY BE NECDED TO SPAN STREAM CHANNEL.

- MAY BE NEEDED TO SPAN STREAM CHANNEL.

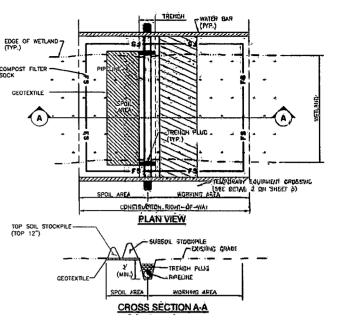
 4. PLACE SPOIL PLES A MINISTMO OF SO FEET FROM TOP OF BANK.

 5. BETALL WATER BARS AT APPROCHES TO STREAM CROSSING AND COMPOST FILTER SOCKS ALONG STREAM BANKS AND AT DOWN SLOPE END OF WATER BARS.

 6. MAINTAIN SURFACE OF TEMPORARY EQUIPMENT CROSSING TO PREVENT SOIL DISCHARGES TO STREAM.
- APPROACHES TO CROSSINGS ARE NOT TO EXCEED A DEPTH OF 6 DICHES ABOVE ORIGINAL GRADE.

DETAIL 11

PIPELINE AND EQUIPMENT CROSSING OF STREAM TRENCHING - FLUME PIPE DIVERSION



DETAIL 12 PIPELINE AND EQUIPMENT CROSSING OF

WETLAND TRENCHING NOT TO SCALE

- INMEDIA.

 INSTALL COMPOST FILTER SOCK ACROSS THE RIGHT-OF HAVY, UNEQUATED UP-SLOPE OF THE WITHARD SOUNDARY, AT THE EDGE
 OF THE RIGHT-OF-MAY, AND AS INCESSARY, AROUND SON, STORPHIES.
 2. EQUIPMENT STAGING AREA UNITS ELECTED A MADWING OF 20 FET FROM THE BUILT OF THE OFFILMING.
 3. USE TIMBER MATS FOR VEHICULAR CROSSING OF THE WEILAND.

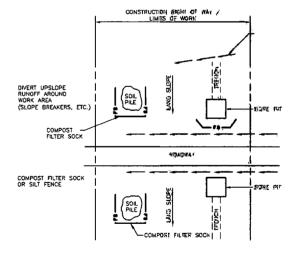
 VENGLES ARE NOT ALLONED ASCESS TO THE WEILAND. OFFICE WEILAND.
- UNLESS THE WETLAND IS BEING PROTECTED BY THERE MAYS.

 INSTALL TRENCH PLUGS ON EACH SIDE OF THE WETLAND TO PROMETH THE TREVEN FROM DEVAMEN WITHARD OF CHAMMEN
- HYDROLOGY.

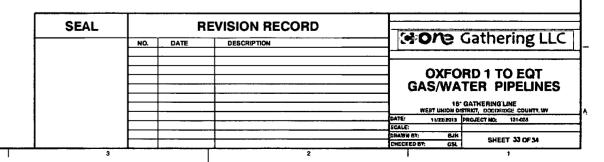
 5. WHEN EXCAVATING TRENCH IN WETLAND, EXCAVATE WETLAND TORSUL (TOP 12 MIGHES) AND STOCKHOLE SANKATELY FROM SUBSCILL DURING BACKFILLING OF TRENCH, REPLACE TOPSCILLIN JOB OF TRENCH TO PESTIGNE WETLAND STOCKHOLE STILL CHICA CECTEXTILE IN THE SPOIL AREA NEXT TO THE TRIJNCH. (WARESP DILCRE IS STANDING WATER OF THE SQIL IS TOD SATURANED TO
- SCORECATE.)

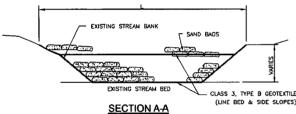
 8. SWAMP MATS SHOULD BE UTILIZED IN WORKING AFEA TO MIRROUGE ENSTAINEANCE/COMMANTICA OF WETLANDS

 7. UPON RESTORATION, REMOVE GEOTEXTILE, SWAMP WATS, DISTALL WAITERARS, AND RESTORE WAITLAND TO DUSTING GRADE



DETAIL 15 CONVENTIONAL BORE AND JACK CROSSING NOT TO SCALE

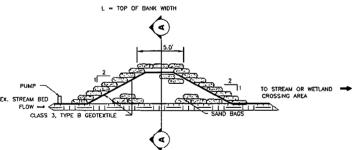




PIPELINE AND EQUIPMENT CROSSING OF STREAM

TRENCHING - PUMP AROUND

NOT TO SCALE



NOTES:

- 1. PUMP OUTLET PIPE TO BE LOCATED AT APPROXIMATE LOCATION SHOWN ON THE PLAN. R-2 STONE 10 BE PLACED AI OUTLET. SEE DETAIL 15 AND 16 FOR CONSTRUCTION SEQUENCE OF STREAM AND WETLAND CROSSINGS.
- 2. ADDITIONAL SAND BAGS SHALL BE PLACED AS NEEDED TO PREVENT LEAKAGE INTO CONSTRUCTION AREA.

DETAIL 13 SANDBAG DAM

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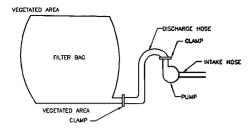
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SO FEET 50 FEST

> **DETAIL 14** CULVERT STREAM CROSSING NOT TO SCALE



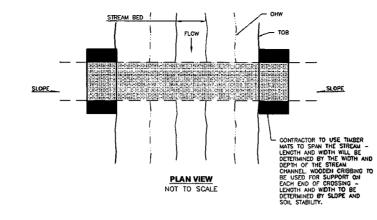
PLAN VIEW

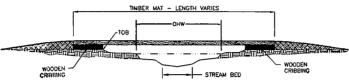
NOTES:

- FILTER BAGS MAY BE USED TO FILTER WATER PUMPED FROM DISTURBED AREAS SUCH AS UTILITY TRENCHES AND FOOTERS.
- FILTER BACS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH DOUBLE STITCHED "3" TYPE SEEMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN 150 MICRONS.
- 3. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME 1/2 FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE FELLED OR FALED. FILTER BAGS WILL BE DISPOSED OF AT A WYDEP APPROVED FACILITY.
- 4. BAGS SHALL BE LOCATED IN WELL VEGETATED (GRASSY) AREAS, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS, WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE LINED FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5 PERCENT.
- THE PUMP 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.
- FILTER BAGS SHALL BE INSPECTED DAILY AND ANY CORRECTIME ACTION REQUIRED SHALL BE DONE IMMEDIATELY.

<u>DETAIL 16</u> GEOTEXTILE FILTER BAG

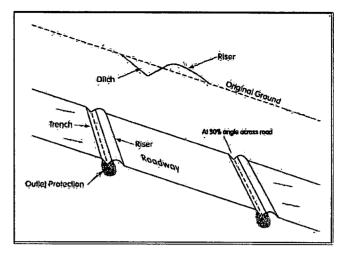
NOT TO SCAL

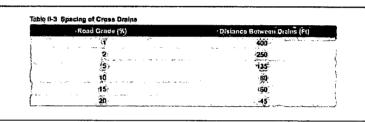




NOT TO SCALE

DETAIL 17 TIMBER MAT BRIDGE NOT TO SCALE





DETAIL 18 CROSS DRAIN

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SEAL	REVISION RECORD			
	NÔ.	DATE	DESCRIPTION	Gre Gathering LLC
				OXFORD 1 TO EQT GAS/WATER PIPELINES
				16" GATHERING LINE WEST UNION DISTRICT, CODDRINGS COUNTY, WY
				DATE: 11/82/8019 PROJECT NO: 131-865
	-	-		DRAWN BY: BUR SHEET 34 OF 34