



Doddridge County, WV Floodplain Management

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

Permit #: 24-669

Date Approved: November 25, 2024

Expires: November 25, 2025

Issued to: Antero Midstream

POC: Anthony Ludovici

Company Address: 535 White Oaks Blvd. Bridgeport, WV 26330

Project Address: Dotson Run Crossing 1, Dotson Run Crossing 2, Cabin Run Crossing

**Firm: 54017C0100C
54017C0100C
54085C0125C**

**Lat/Long: 39.277425, -80.906045
39.274834, -80.899607
39.242776, -80.894586**

Purpose of development: Waterline/Pipeline

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

Date: November 25, 2024

For additional information regarding this permit, please contact
Doddridge County Floodplain Manager at 304.873.1343, or via email at
geidel@doddridgecountywv.gov
99 Court Street Suite 128; West Union, WV 26456

FP# 24-669

KLEINFELDER OFFICE CHECKING
770 FIRST AVENUE, SUITE 400
SAN DIEGO, CA 92101

COPY

13942
COPY

DATE 10/1/2024

19-10/1250

PAY TO THE
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Dodridge County Commission

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FLOODPLAIN PERMIT #24-669

Antero Midstream, Doddridge / Ritchie Line, 3 Stream Crossings, see floodplain notice for coordinates

TASK	COMPLETE (DATE)	NOTES
CHECK RECEIVED	10/9/2024	
US ARMY CORP. ENGINEERS (USACE)		See Permitting & Coordination Table
US FISH & WILDLIFE SERVICES (USFWS)		See Permitting & Coordination Table
WV DEPT. NATURAL RESOURCES (WVDNR)		See Permitting & Coordination Table
WV DEPT. ENVIROMENTAL PROTECTION (WVDEP)		See Permitting & Coordination Table
STATE HISTORIC & PRESERVATION OFFICE (SHPO)		See Permitting & Coordination Table
OFFICE of LAND & STREAM (OLS)		See Permitting & Coordination Table
WVDOH		See Permitting & Coordination Table
Elevation Certificate	N/A	
DATE OF COMMISSION READING	11/5/2024	
DATE AVAILABLE TO BE GRANTED	11/25/2024	
PERMIT GRANTED		
COMPLETE		

7022 1670 0003 1400 9899

7022 1670 0003 1400 9882

7022 1670 0003 1400 9875

7022 1670 0003 1400 9868

7022 1670 0003 1400 9851

7022 1670 0003 1400 9844

7022 1670 0003 1400 9837

7022 1670 0003 1400 9820

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7022 1670 0003 1400 9806

7022 1670 0003 1400 9790

7022 1670 0003 1400 9783



Doddridge County Floodplain Permits

(Week of October 14, 2024)

Please take notice that on the (9th) of (October), 2024, (Antero Midstream) filed an application for a Floodplain Permit (#24-669) to develop land located at or about (Doddridge / Ritchie Line);

Coordinates: 3 Stream crossings 39.277425, -80.906045 Dotson #1, 39.274834, -80.899607 Dotson # 2 and 39.242776, -80.894586 Cabin run. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance with WV Code Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by **(November 25, 2024)** (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 99 Court Street, Suite 128, West Union, WV 26456. **This project is Annie to Lynn Camp Waterline**


GEORGE C. EIDEL, CFM

Doddridge County Floodplain Manager

George Eidel

From: Matthew Albright <MAlbright@kleinfelder.com>
Sent: Tuesday, October 8, 2024 1:59 PM
To: George Eidel <GEidel@doddridgecountywv.gov>
Cc: Anthony J. Ludovici (aludovici@anteroresources.com)
Subject: Antero Midstream: Annie to Lynn Camp Waterline - Doddridge County Floodplain Application

Hi George,

On behalf of Antero Midstream (Antero), Kleinfelder, Inc. is submitting a floodplain application for the proposed Annie to Lynn Camp Waterline (Waterline). The floodplain application can be found at the below link, which indicates that the proposed Waterline will cross regulated floodplains within Doddridge County.

Today, we will be mailing (via Fed-Ex) a hard copy of this application to your office along with the permit fee.

Please address any questions or comments regarding this correspondence to Anthony Ludovici of Antero. He is cc'd on the email and his contact information is provided below.

Anthony Ludovici
Environmental Specialist II
Antero Midstream
535 White Oaks Boulevard
Bridgeport, WV 26330
(304) 627-9120
aludovici@anteroresources.com

1. **20241008_Annie to Lynn Camp WL_DoddridgeCo_Floodplain App-Final.pdf** (203.04 MB) in Antero
<https://kleinfelderupstream.filegenius.com/downloadPublic/xsmzrpfucm59mom>

This link will expire on **01/06/25 at 12:57 pm EST**

Thanks,

Matt Albright
Project Manager
51 Dutilh Rd., Suite 240
Cranberry Township, PA 16066
m| 609.947.5296





TRANSMITTAL

To: Mr. George Eidel
Floodplain Manager
99 Court Street, Suite 128
West Union, WV 26456

Date: October 8, 2024

cc: Project File

Subject: Doddridge County Floodplain Permit Application
Antero Midstream
Annie to Lynn Camp Waterline
Doddridge and Ritchie Counties, West Virginia



Attached



Under separate cover

Via:

- ☐ Messenger/Courier
- ☐ First Class Mail
- ☒ FedEx
- ☐ United Parcel
- ☐ DHL
- ☐ Lone Star Overnight
- ☐ Freight
- ☐ Other

Transmitted:

- ☐ As Requested
- ☒ For Approval
- ☐ For Your Use
- ☐ For Review & Comment

Remarks:

Enclosed please find the following documents to facilitate your review of the above referenced application:

Attachment A – Floodplain Application

Attachment B – Table of Property Owners

Attachment C – No-Rise Certificate

Appendix A - WV Flood Tool Map

Appendix B - Permitting Plans

Appendix C – National Streamflow Statistics – Drainage Area

Appendix D - Comparison for Calculated Flows - HEC-RAS Excel Data

Attachment D – Permitting & Coordination Table

The attached check for fee is \$3,900.00. The site budget for encroachments within the Floodplain is \$1,750,000.00.

Coordination with the Ritchie County Floodplain Coordinator will be performed under separate cover.

By: Matt Albright
Project Manager
51 Dutilh Rd., Suite 240
Cranberry Township, PA 16066
MAlbright@Kleinfelder.com
m| 609.947.5296



ATTACHMENT A FLOODPLAIN APPLICATION



Permit# 24-669
Project ANNIE to LYNN Camp Name: _____
Permittees Name: Antero Midstream

Doddridge County, WV

Floodplain Development Permit Application

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

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

1. No work may start until a permit is issued.
2. The permit may be revoked if any false statements are made herein.
3. If revoked, all work must cease until permit is re-issued.
4. The permit will expire if no work is commenced within six months of issuance.
5. Applicant is hereby informed that other permits may be required to fulfill local, state, and federal requirements.
6. Applicant hereby gives consent to the Floodplain Administrator/Manager or his/her representative to make inspections to verify compliance.
7. 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 Anthony Ludovici

DATE 10/08/2024

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Applicant Information:

Please provide all pertinent data.

Applicant Information		
Responsible Company Name: Antero Midstream		
Corporate Mailing Address: 1615 Wynkoop Street		
City: Denver	State: CO	Zip: 80202
Corporate Point of Contact (POC): N/A		
Corporate POC Title: N/A		
Corporate POC Primary Phone: N/A		
Corporate POC Primary Email: N/A		
Corporate FEIN: N/A	Corporate DUNS: N/A	
Corporate Website: www.anteroresources.com		
Local Mailing Address: 535 White Oaks Blvd		
City: Bridgeport	State: WV	Zip: 26330
Local Project Manager (PM): Anthony Ludovici		
Local PM Primary Phone: (304) 627-9120		
Local PM Secondary Phone: N/A		
Local PM Primary Email: aludovici@anteroresources.com		
Person Filing Application: Anthony Ludovici		
Applicant Title: Environmental Specialist II		
Applicant Primary Phone: (304) 627-9120		
Applicant Secondary Phone: N/A		
Applicant Primary Email: aludovici@anteroresources.com		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Project Narrative:

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

Project Narrative:
<p>Antero Midstream (Antero) is proposing water pipeline installation activities in Ritchie and Doddridge Counties, West Virginia (WV), known as the Annie to Lynn Camp Waterline (Pipeline) and consists of:</p> <ul style="list-style-type: none">•The Annie to Frame Surface Waterline (SWL), which is approximately 6.7 miles of one 18-inch diameter water pipeline; and•The Patriot to Lynn Camp SWL, which is approximately 7.3 miles of one 18-inch diameter water pipeline and approximately 0.6 miles of an additional 18-inch diameter water pipeline. <p>Segments of the proposed water pipeline will be installed subsurface within a 50.7-acre limit of disturbance (LOD). Other segments of the proposed water pipeline will be placed on the ground surface, which will not result in ground disturbance. Vehicle access to the construction corridor will be through existing and proposed access roads. The northern terminus occurs at 39.327592, -80.923203, while the southern terminus occurs at 39.213921, -80.945335.</p> <p>Portions of the Pipeline are located within the limits of the regulated floodplains of Dotson Run (2 locations) associated with the Annie to Frame SWL and Cabin Run (1 location) associated with the Patriot to Lynn Camp SWL in Doddridge County. A portion of the Cabin Run floodplain crossing is also within Ritchie County, therefore coordination with the Ritchie County Floodplain Coordinator will be performed under separate application.</p> <p>West Virginia Flood Tool Maps for the Dotson Run floodplain crossings associated with the Annie to Frame SWL and the Cabin Run floodplain crossing associated with the Patriot to Lynn Camp SWL are included in Appendix A of Attachment C (No Rise Certificates) and depict the approximate locations where work associated the proposed Pipeline will encroach upon the floodplains.</p> <p>Construction activities within the floodplain include the following:</p> <p><u>Dotson Run - Crossing 1</u></p> <p>Horizontal directional drilling (HDD) and contingency work in the event the HDD is abandoned, which includes installation of a 18-inch diameter subsurface water pipeline, native backfill, temporary structure (dam and flume or equivalent) crossing materials, jersey barrier/pier installations for timber mat crossing (~16 feet x 24 feet) of Dotson Run for equipment, and necessary workspace associated with pipeline construction.</p> <p><u>Dotson Run - Crossing 2</u></p> <p>Temporary access road installation with a temporary timber mat bridge (~16 feet x 24 feet) for equipment and necessary workspace associated with pipeline construction.</p>

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

Cabin Run Crossing

Surface and subsurface installation of the 18-inch diameter water pipeline, native backfill, temporary structure (dam and flume or equivalent) crossing materials, timber mat crossings of a wetland, jersey barrier/pier installations for timber mat crossing (~16 feet x 28 feet) of Cabin Run for equipment, rock construction entrances, and necessary workspace associated with pipeline construction.

A No-Rise Certification for the two Dotson Run floodplain crossings and a No-Rise Certification for the one Cabin Run floodplain crossing are included as Attachment C. Each No-Rise Certification indicates that the proposed Pipeline will not impact the 100-year flood elevations and not adversely affect adjacent properties.

Permitting plans associated with the Annie to Frame SWL, which includes the Dotson Run floodplain crossings and the Patriot to Lynn Camp SWL, which includes the Cabin Run floodplain crossing, are included in Appendix B of Attachment C (No Rise Certificates).

A permitting and coordination table is included in Attachment D that outlines all necessary permits and current status.

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Proposed Development:

Please check all elements of the proposed project that apply.

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

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

B. OTHER DEVELOPMENT ACTIVITIES:

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

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Development Site/Property Information:

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

Property Designation: 1 of 2

Site/Property Information:		
Legal Description: Annie to Lynn Camp Waterline (Dotson Run)		
Physical Address/911 Address: Old US-50, Pennsboro, WV 26415		
Decimal Latitude/Longitude: 39.277256, -80.905889		
DMS Latitude/Longitude: N/A		
District: 1 (Central)	Map: N/A	Parcel: See Attachment B Property Owner Table
Land Book Description: N/A		
Deed Book Reference: N/A		
Tax Map Reference: N/A		
Existing Buildings/Use of Property: N/A		

Floodplain Location Data: (to be completed by Floodplain Manager or designee)			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway? <input type="checkbox"/> Yes <input type="checkbox"/> No		Is the development in the floodplain? <input type="checkbox"/> Yes <input type="checkbox"/> No Zone: _____	
Notes:			

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Development Site/Property Information:

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

Property Designation: 2 of 2

Site/Property Information:		
Legal Description: Annie to Lynn Camp Waterline (Cabin Run)		
Physical Address/911 Address: CR 10/2, Pennsboro, WV 26415		
Decimal Latitude/Longitude: 39.242776, -80.894586		
DMS Latitude/Longitude: N/A		
District: 1 (Central) & 3 (Clay)	Map: N/A	Parcel: See Attachment B Property Owner Table
Land Book Description: N/A		
Deed Book Reference: N/A		
Tax Map Reference: N/A		
Existing Buildings/Use of Property: N/A		

Floodplain Location Data: (to be completed by Floodplain Manager or designee)			
Community:	Number:	Panel:	Suffix:
Location (Lat/Long):		Approximate Elevation:	
		Estimated BFE:	
Is the development in the floodway?		Is the development in the floodplain?	
<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No Zone: _____	
Notes:			

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

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

Property Designation: 1 of 6

Property Owner Data:		
Name of Primary Owner (PO): Perkins Land Company LLC		
PO Address: P.O. Box 547		
City: Pennsboro	State: WV	Zip: 26415
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Surface Rights Owner Data:		
Name of Primary Owner (PO): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Mineral Rights Owner Data: (As Applicable)		
Name of Primary Owner (PO): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

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

Property Designation: 2 of 6

Property Owner Data:

Name of Primary Owner (PO): Lipscomb Danny Lee & Kerri Jo (Surv)

PO Address: PO Box 97

City: Smithburg

State: WV

Zip: 26436

PO Primary Phone: N/A

PO Secondary Phone: N/A

PO Primary Email: N/A

Surface Rights Owner Data:

Name of Primary Owner (PO): N/A

PO Address: N/A

City: N/A

State: N/A

Zip: N/A

PO Primary Phone: N/A

PO Secondary Phone: N/A

PO Primary Email: N/A

Mineral Rights Owner Data: (As Applicable)

Name of Primary Owner (PO): N/A

PO Address: N/A

City: N/A

State: N/A

Zip: N/A

PO Primary Phone: N/A

PO Secondary Phone: N/A

PO Primary Email: N/A

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

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

Property Designation: __3__ of __6__

Property Owner Data:		
Name of Primary Owner (PO): Robinson Anne		
PO Address: 901 Corporate Center Drive		
City: Pomona	State: CA	Zip: 91768
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Surface Rights Owner Data:		
Name of Primary Owner (PO): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Mineral Rights Owner Data: (As Applicable)		
Name of Primary Owner (PO): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

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

Property Designation: __4__ of __6__

Property Owner Data:		
Name of Primary Owner (PO): Dotson Katrina Danean		
PO Address: 2054 Northwest Turnpike		
City: Pennsboro	State: WV	Zip: 26415
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Surface Rights Owner Data:		
Name of Primary Owner (PO): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Mineral Rights Owner Data: (As Applicable)		
Name of Primary Owner (PO): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

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

Property Designation: __5__ of __6__

Property Owner Data:		
Name of Primary Owner (PO): WV Railroad Maintenance Authority		
PO Address: P.O. Box 470		
City: Moorefield	State: WV	Zip: 26836
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Surface Rights Owner Data:		
Name of Primary Owner (PO): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Mineral Rights Owner Data: (As Applicable)		
Name of Primary Owner (PO): N/A		
PO Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Property Owner Data:

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

Property Designation: 6 of 6

Property Owner Data:

Name of Primary Owner (PO): Waco Oil & Gas Co Inc

PO Address: P.O. Box 397

City: Glenville

State: WV

Zip: 26351

PO Primary Phone: N/A

PO Secondary Phone: N/A

PO Primary Email: N/A

Surface Rights Owner Data:

Name of Primary Owner (PO): N/A

PO Address: N/A

City: N/A

State: N/A

Zip: N/A

PO Primary Phone: N/A

PO Secondary Phone: N/A

PO Primary Email: N/A

Mineral Rights Owner Data: (As Applicable)

Name of Primary Owner (PO): N/A

PO Address: N/A

City: N/A

State: N/A

Zip: N/A

PO Primary Phone: N/A

PO Secondary Phone: N/A

PO Primary Email: N/A

Doddridge County Commercial/Industrial
Floodplain Development Permit Application

Contractor Data:

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

Property Designation: 1 of 1

Contractor/Sub---Contractor (C/SC) Information:

C/SC Company Name: One contractor to be selected from the following: ACE Pipeline (#WV049594), Apex Pipeline Services, Inc. (WV040540), Integrity Kokosing Pipeline Services LLC (#WV050096), Entegra Energy Solutions, LLC (#WV054560).

C/SC Company Name: See Above

C/SC WV License Number: See Above

C/SC FEIN: TBD

C/SC DUNS: TBD

Local C/SC Point of Contact (POC): TBD

Local C/SC POC Title: TBD

C/SC Mailing Address: TBD

City: TBD

State: TBD

Zip---Code: TBD

Local C/SC Office Phone: TBD

Local C/SC POC Phone: TBD

Local C/SC POC E---Mail: TBD

Engineer Firm Information:

Engineer Firm Name: Kleinfelder, Inc. (No-Rise Certs Only)

Engineer WV License Number: 25121

Engineer Firm FEIN: N/A

Engineer Firm DUNS: N/A

Engineer Firm Primary Point of Contact (POC): Matt Albright

Engineer Firm Primary POC Title: Project Manager

Engineer Firm Mailing Address: 51 Dutilh Road, Suite 240

City: Cranberry Twp.

State: PA

Zip---Code: 16066

Engineer Firm Office Phone: 724-772-7072

Engineer Firm Primary POC Phone: 609-947-5296

Engineer Firm Primary POC E---Mail: MAlbright@kleinfelder.com

Adjacent and/or Affected Landowners Data

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

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): See Table of Property Owners (Attachment B)		
Physical Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Adjacent Property Owner Data: Upstream		
Name of Primary Owner (PO): N/A		
Physical Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): See Table of Property Owners (Attachment B)		
Physical Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Adjacent Property Owner Data: Downstream		
Name of Primary Owner (PO): N/A		
Physical Address: N/A		
City: N/A	State: N/A	Zip: N/A
PO Primary Phone: N/A		
PO Secondary Phone: N/A		
PO Primary Email: N/A		

Site Plan

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

A SITE PLAN MUST CONTAIN THE FOLLOWING INFORMATION:

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

Applicant

Please read print name, sign and date below:

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

Applicant Signature: Anthony Ludovici Date: 10/08/2024

Applicant Printed Name: Anthony Ludovici



ATTACHMENT B TABLE OF PROPERTY OWNERS

Table of Property Owners

PROPERTY OWNER	PARCEL ID NUMBER	E-911 ADDRESS	PROPERTY OWNER ADDRESS	IN FLOODPLAIN
PERKINS LAND COMPANY LLC	43-03-0027-0005-0000	2966 NORTHWEST TPKE, PENNSBORO, WV, 26415	P.O. BOX 547, PENNSBORO, WV 26415	YES
LIPSCOMB DANNY LEE & KERRI JO (SURV)	09-01-0008-0009-0001	3190 NORTHWEST TPKE, WEST UNION, WV 26415 3204 NORTHWEST TPKE, PENNSBORO, WV, 26415	PO BOX 97, SMITHBURG, WV 26436	YES
ROBINSON ANNE	09-01-0008-0019-0000	220 A and B LN, PENNSBORO, WV, 26415 160 A AND B LN, Pennsboro, WV, 26415	%LERETA LLC, 901 CORPORATE CENTER DR, POMONA, CA 91768	YES
LAMB DENVER BRANT	09-01-0018-0032-0000	3640 NORTHWEST TPKE, WEST UNION, WV, 26415	3640 NORTHWEST TPKE, PENNSBORO, WV 26415	YES (UPSTREAM)
PAYNE ARTHUR G & MELISSA A (SURV)	09-01-0008-0017-0003	0 E-911 address found in this parcel	PO BOX 335, PENNSBORO, WV 26415	YES (DOWNSTREAM)
HOPE GAS INC	09-01-0008-0044-0000	3038 NORTHWEST TPKE, WEST UNION, WV, 26415 3032 NORTHWEST TPKE, WEST UNION, WV, 26415 3042 NORTHWEST TPKE, WEST UNION, WV, 26415	781 CHESTNUT RIDGE RD, MORGANTOWN, WV 26505	YES (DOWNSTREAM)
DOTSON KATRINA DANEAN	43-03-0027-0004-0000	156 SUGAR RUN RD, PENNSBORO, WV, 26415 79 SUGAR RUN RD, PENNSBORO, WV, 26415	2054 NW TPKE, PENNSBORO, WV 26415	YES
WV RAILROAD MAINTENANCE AUTHORITY	09-01-0008-0043-0000	0 E-911 address found in this parcel	P O BOX 470, MOOREFIELD, WV 26836	Yes
MCKINNEY MATTHEW & BARBARA & TREMELL BRENDA JOYCE	09-01-0008-0009-0000	3222 NORTHWEST TPKE, PENNSBORO, WV, 26415	EMMA SANDRIDGE, 3204 NW TPKE, PENNSBORO, WV 26415	YES (UPSTREAM)
WHITE KATRINA DANEAN (DOTSON)	09-01-0008-0002-0000	0 E-911 address found in this parcel	2054 NW TURNPIKE, PENNSBORO, WV 26415	YES (UPSTREAM)
MCKINNEY MATTHEW & BARBARA & TREMELL BRENDA JOYCE	09-01-0008-0042-0000	0 E-911 address found in this parcel	%BRENDA JOYCE TREMELL, 729 LYNN CAMP RD, PENNSBORO, WV 26415	YES (UPSTREAM)
ROBINSON JO ANN	09-01-0008-0020-0000	3642 NW TURNPIKE, PENNSBORO, WV 26415	3642 NW TURNPIKE, PENNSBORO, WV 26415	YES (UPSTREAM)
WACO OIL & GAS CO INC	43-03-0037-0001-0000	0 E-911 address found in this parcel	PO BOX 397, GLENVILLE, WV 26351	YES
ANTERO RESOURCES CORPORATION	43-03-0032-0009-0000	0 E-911 address found in this parcel	C/O ALTUS GRP US INC, P O BOX 1826, COCKEYSVILLE, MD 21030	YES (UPSTREAM)
WACO OIL & GAS CO INC	09-01-0011-0008-0000	0 E-911 address found in this parcel	P O BOX 397, GLENVILLE, WV 26351	YES (DOWNSTREAM)



ATTACHMENT C
NO-RISE CERTIFICATE



This is to certify that I am a duly qualified registered professional engineer licensed to practice in the State of West Virginia.

It is further to certify that based on the information provided to me, and the attached technical data supports the fact, the floodplain encroachments for the Annie to Frame Surface Water Line – Dotson Run Crossings of a proposed 18" HDPE surface water line will not impact the 100-year flood elevation of Dotson Run at the two published sections in the Flood Insurance Study for Doddridge County (Community ID 540024) effective October 4, 2011 and will not impact the 100-year flood elevation at unpublished cross-sections in the vicinity of the proposed development. Work to be performed within the floodplain limits that was considered during the evaluation includes temporary disturbances associated with staging areas, equipment and supplies, stream crossing with a timber matting bridge with a jersey barrier/pier (Crossing One only) within the stream channel, and permanent improvements consisting of proposed subsurface 18" HDPE surface water line inside the stream channels and surface lines outside of the channels.

The proposed improvements will have two stream crossing locations along Dotson Run. Crossing One (1) is located south of Sunnyside Road (County Route 50/30) within Dotson Run west of Parcel 9-1-8-9.1 (Lipscomb Property) as shown on sheet 17 of the Permitting Plans included in this report in Attachment B. The total watershed (drainage basin) for the Dotson Run Crossing One (1) floodplain encroachments were shown to be 3.832 square miles, and maximum flows were calculated utilizing the National Streamflow Statistics (NSS) application available online. Crossing Two (2) is located west of Sunnyside Road (County Route 50/30) within Dotson Run and approximately 2,000-ft east of Crossing One (1) to provide a temporary access road (access road 6) to a proposed unpaved road as shown on sheet 24 of the Permitting Plans included in this report in Attachment B. The total watershed (drainage basin) for the Dotson Run Crossing Two (2) floodplain encroachments were shown to be 3.058 square miles, and maximum flows were calculated utilizing the National Streamflow Statistics (NSS) application available online. A Hydrologic Engineering Center's – River Analysis System (HEC-RAS) analysis was completed for both crossings, based on the drainage area above and associated flows, to verify that the proposed activities within the floodplain of Dotson Run will not adversely affect the adjacent properties. The flows compared for the affected area are attached.

Attached are the following documents that support my findings:

Attachment A: Maps of the Site from the West Virginia Flood Tool

Attachment B: Permitting Plans

Attachment C: National Streamflow Statistics – Drainage Area Flow

Attachment D: Comparison for Calculated Flows – HEC-RAS Excel Data

Date: October 5, 2024

Signature: _____

Title: Program Manager



APPENDIX A
WV FLOOD TOOL MAPS

FP#24-669

Antero Midstream

Annie to Lynn Camp Waterline (Pipeline)

Stream Crossing Coordinates

Dotson Run - Crossing 1

39.277425, -80.906045

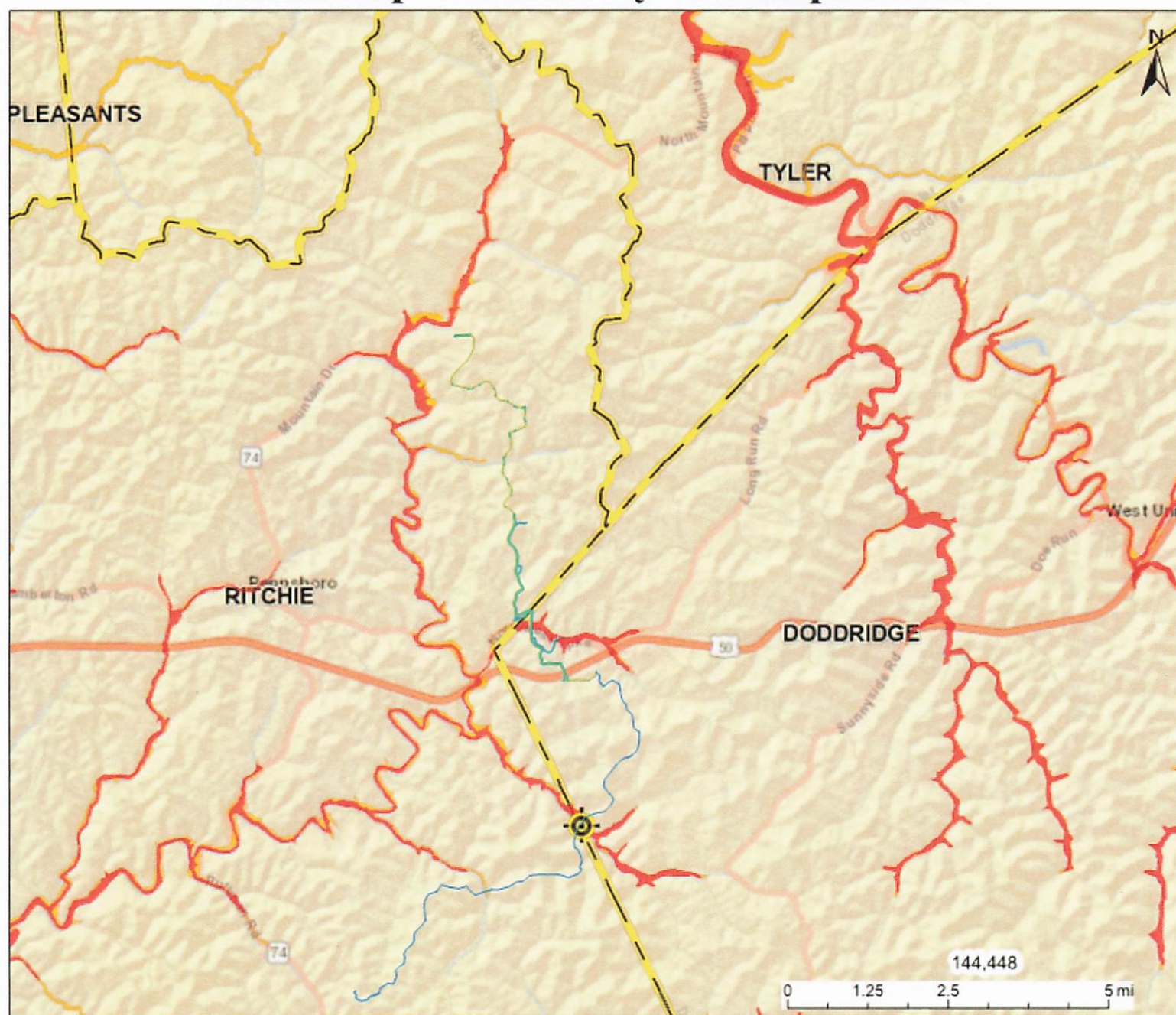
Dotson Run - Crossing 2

39.274834, -80.899607






Cabin Run Crossing

39.242776 -80.894586

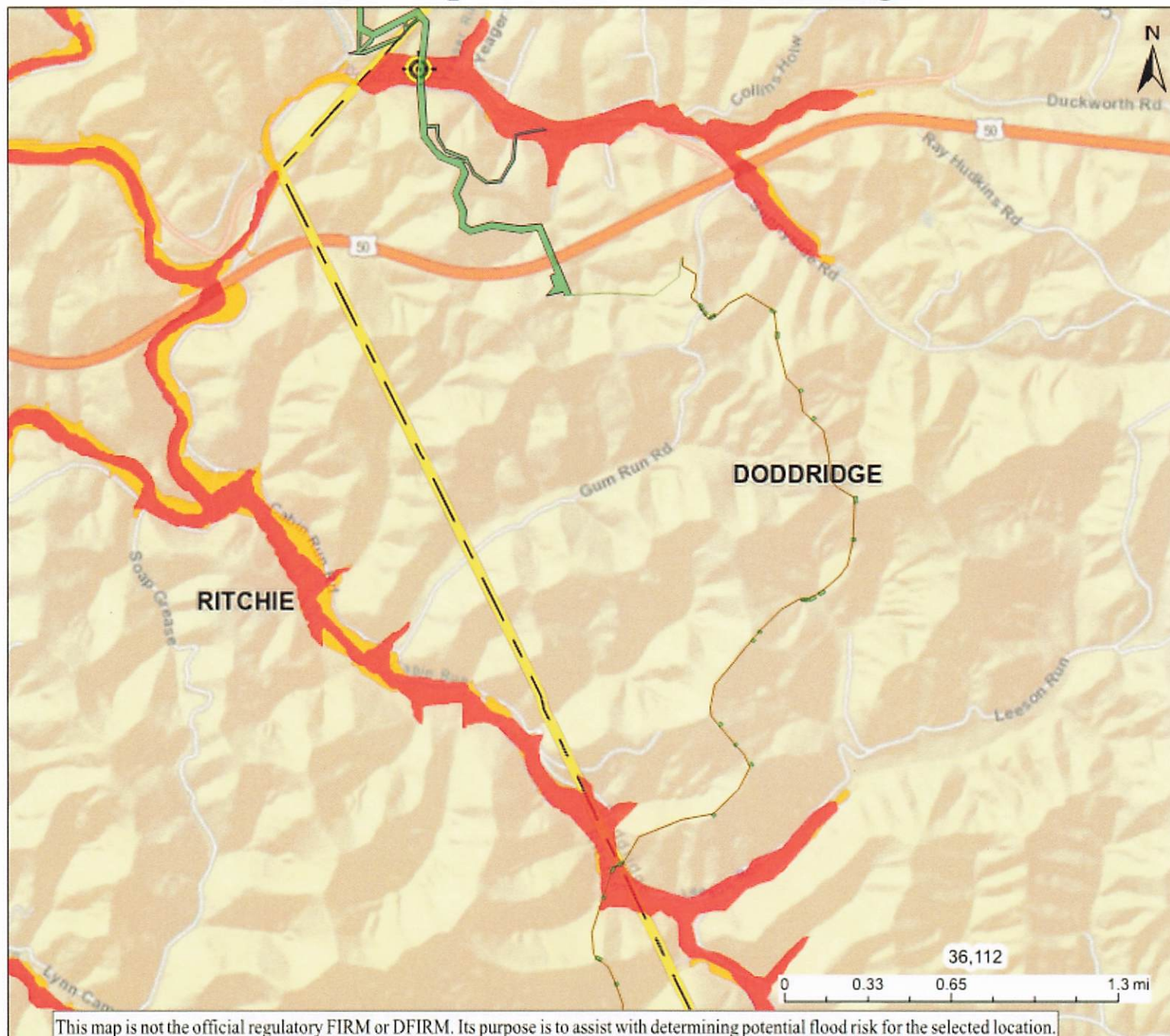
WV Flood Map-Annie to Lynn Camp-Overall




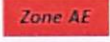



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

<p>HIGH RISK</p> <ul style="list-style-type: none">  Regulatory Floodway  1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)  1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)  1-Percent-Annual-Chance Future Conditions (High Risk Advisory Flood Zones) 	<p> Flood Info Location Map created on 9/23/2024</p>																										
<p>Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf</p> <p>Disclaimer: The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.</p>	<table border="1"> <thead> <tr> <th colspan="2">User Notes</th> </tr> </thead> <tbody> <tr> <td>Flood Hazard Area</td> <td>Location is WITHIN the FEMA 100-year floodplain.</td> </tr> <tr> <td>Flood Zone</td> <td>A</td> </tr> <tr> <td>Stream</td> <td>Cabin Run</td> </tr> <tr> <td>Watershed (HUC8)</td> <td>Little Kanawha (5030203)</td> </tr> <tr> <td>Flood Height</td> <td>Flood Height 6b None</td> </tr> <tr> <td>Water Depth</td> <td></td> </tr> <tr> <td>Elevation</td> <td>812.0 ft (Source: FEMA 2018-20) (NAVD88)</td> </tr> <tr> <td>Community & ID</td> <td>Doddridge County (ID: 540024)</td> </tr> <tr> <td>FEMA Map & Date</td> <td>54017C0200C; Effective Date: 10/4/2011</td> </tr> <tr> <td>Location (lat, long)</td> <td>(39.242692, -80.894468) (WGS84)</td> </tr> <tr> <td>Parcel ID</td> <td>43-03-0037-0001-0000</td> </tr> <tr> <td>E-911 Address</td> <td></td> </tr> </tbody> </table>	User Notes		Flood Hazard Area	Location is WITHIN the FEMA 100-year floodplain.	Flood Zone	A	Stream	Cabin Run	Watershed (HUC8)	Little Kanawha (5030203)	Flood Height	Flood Height 6b None	Water Depth		Elevation	812.0 ft (Source: FEMA 2018-20) (NAVD88)	Community & ID	Doddridge County (ID: 540024)	FEMA Map & Date	54017C0200C; Effective Date: 10/4/2011	Location (lat, long)	(39.242692, -80.894468) (WGS84)	Parcel ID	43-03-0037-0001-0000	E-911 Address	
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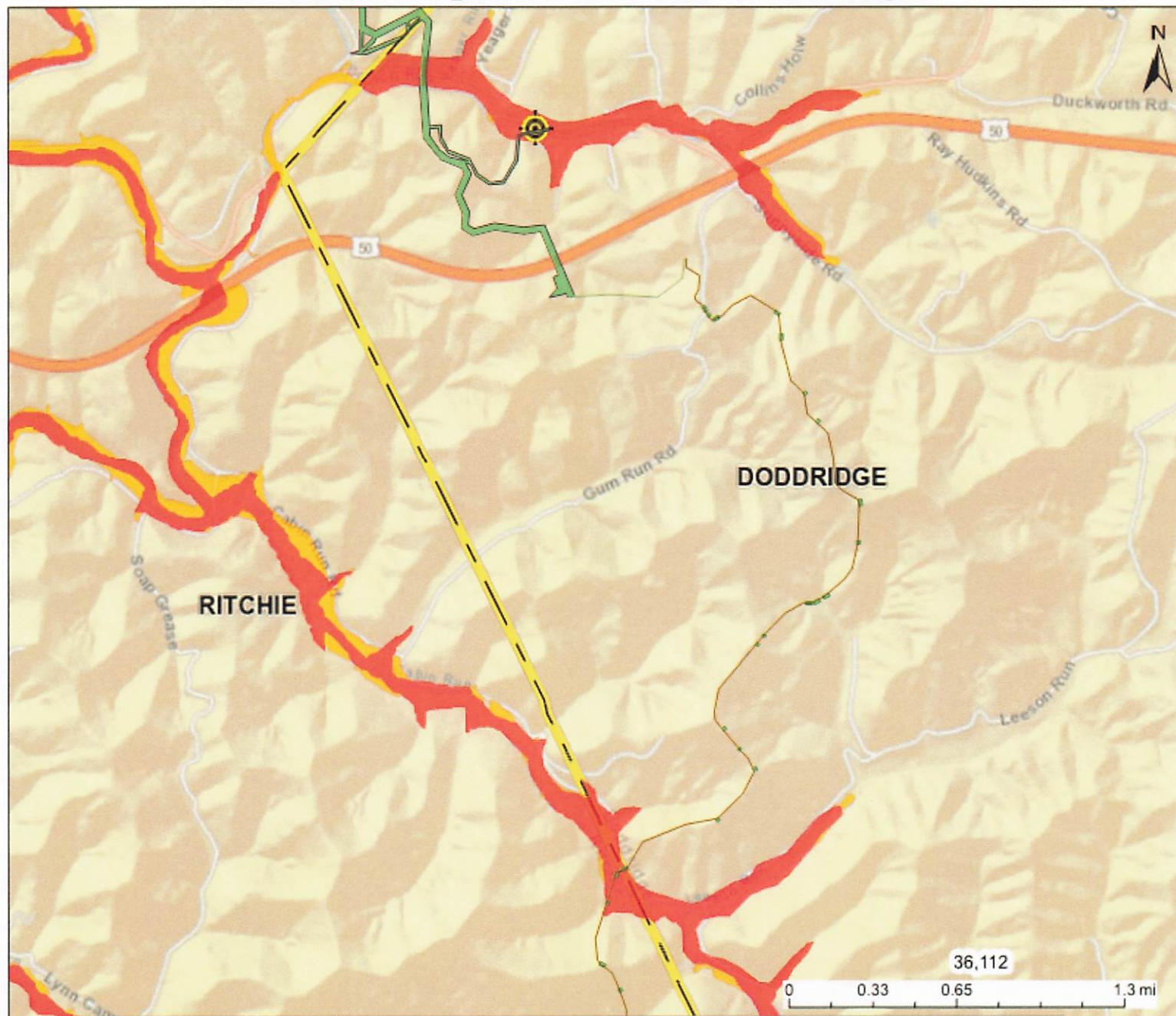
WV Flood Map-Dotson Run-Crossing 1



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

<p>HIGH RISK</p> <p> Regulatory Floodway</p> <p> Zone AE 1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)</p> <p> Zone A 1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)</p> <p> Advisory 1-Percent-Annual-Chance Future Conditions (High Risk Advisory Flood Zones)</p> <p>Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf</p> <p>Disclaimer: The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.</p>	<p> Flood Info Location Map created on 10/2/2024</p> <p>User Notes</p> <table border="1"> <tr> <td>Flood Hazard Area</td><td>Location is WITHIN the FEMA 100-year floodplain.</td></tr> <tr> <td>Flood Zone</td><td>A</td></tr> <tr> <td>Stream</td><td>Dotson Run</td></tr> <tr> <td>Watershed (HUC8)</td><td>Little Kanawha (5030203)</td></tr> <tr> <td>Flood Height</td><td>Flood Height 6b None</td></tr> <tr> <td>Water Depth</td><td></td></tr> <tr> <td>Elevation</td><td>834.1 ft (Source: FEMA 2018-20) (NAVD88)</td></tr> <tr> <td>Community & ID</td><td>Doddridge County (ID: 540024)</td></tr> <tr> <td>FEMA Map & Date</td><td>54017C0100C; Effective Date: 10/4/2011</td></tr> <tr> <td>Location (lat, long)</td><td>(39.277425, -80.906045) (WGS84)</td></tr> <tr> <td>Parcel ID</td><td>No Parcel</td></tr> <tr> <td>E-911 Address</td><td></td></tr> </table>	Flood Hazard Area	Location is WITHIN the FEMA 100-year floodplain.	Flood Zone	A	Stream	Dotson Run	Watershed (HUC8)	Little Kanawha (5030203)	Flood Height	Flood Height 6b None	Water Depth		Elevation	834.1 ft (Source: FEMA 2018-20) (NAVD88)	Community & ID	Doddridge County (ID: 540024)	FEMA Map & Date	54017C0100C; Effective Date: 10/4/2011	Location (lat, long)	(39.277425, -80.906045) (WGS84)	Parcel ID	No Parcel	E-911 Address	
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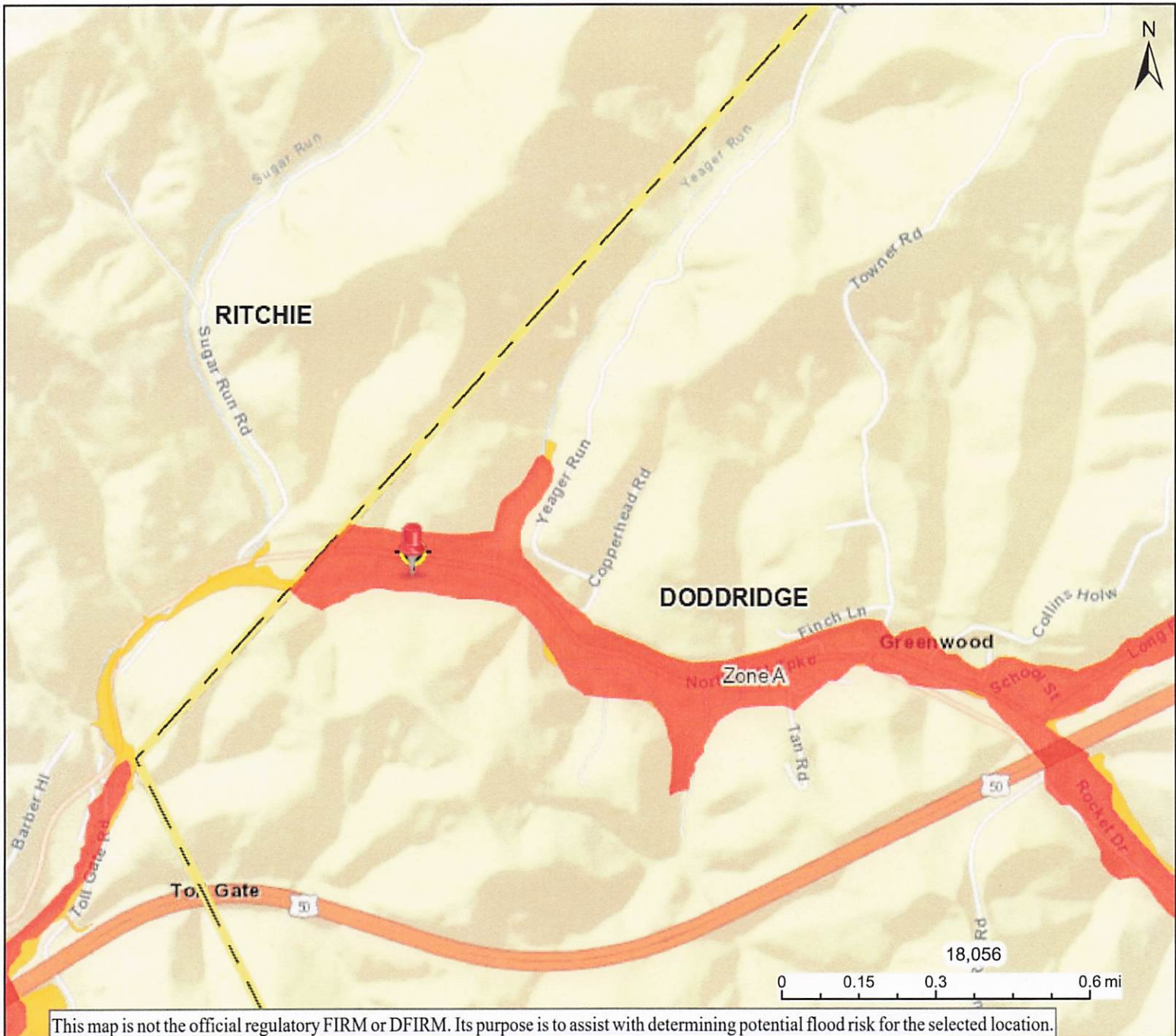
WV Flood Map-Dotson Run-Crossing 2



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

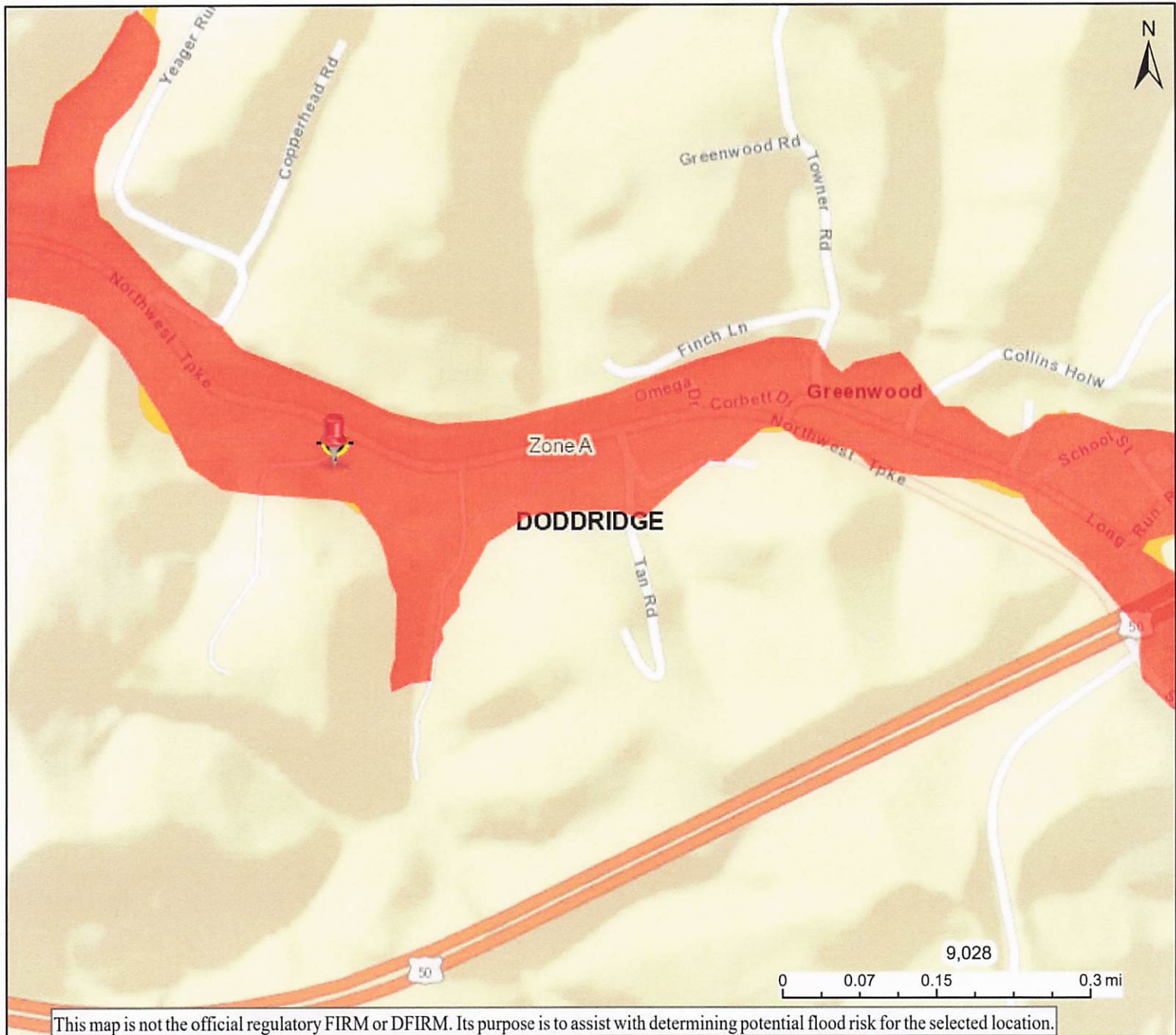
<div>H I G H R I S K</div>		Regulatory Floodway
		1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)
		1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)
		1-Percent-Annual-Chance Future Conditions (High Risk Advisory Flood Zones)
Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf		
Disclaimer: The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.		
Flood Info Location Map created on 10/2/2024		
User Notes		
Flood Hazard Area		Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available.
Flood Zone		A (Advisory Flood Heights available)
Stream		Dotson Run
Watershed (HUC8)		Little Kanawha (5030203)
Flood Height		Flood Height 4 About 819.5 ft (Source: AFH) NAVD88
Water Depth		About 2.5 ft (Source: HEC-RAS)
Elevation		817.4 ft (Source: FEMA 2018-20) (NAVD88)
Community & ID		Doddridge County (ID: 540024)
FEMA Map & Date		54017C0100C; Effective Date: 10/4/2011
Location (lat, long)		(39.274834, -80.899607) (WGS84)
Parcel ID		09-01-0008-0019-0000
E-911 Address		multiple addresses

DODSON Run #1



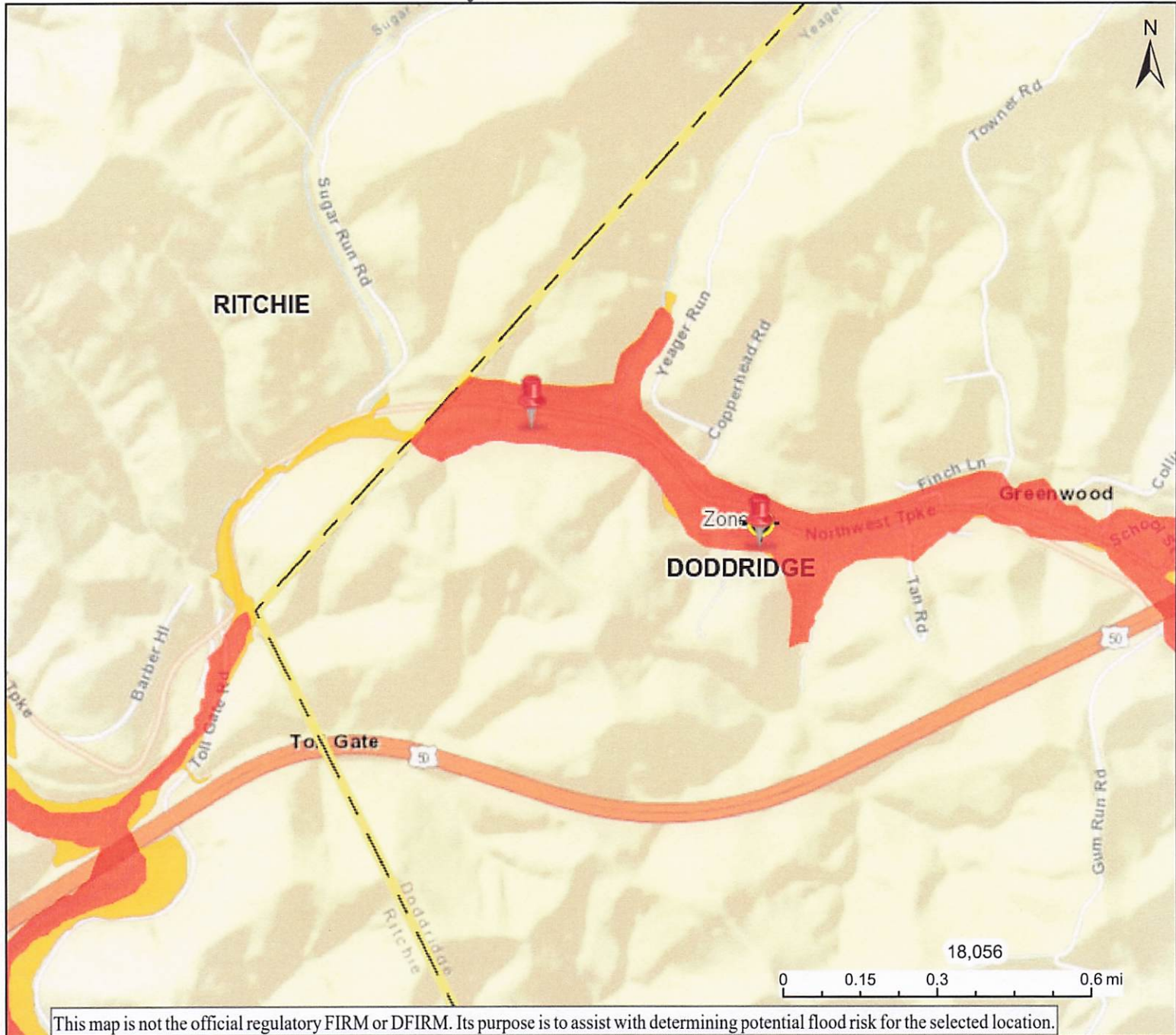
H I G H R I S K		Regulatory Floodway
		1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)
		1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)
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<div> Flood Info Location Map created on 10/9/2024 </div>		
User Notes		
Flood Hazard Area		Location is WITHIN the FEMA 100-year floodplain.
Flood Zone		A
Stream		North Fork Hughes River
Watershed (HUC8)		Little Kanawha (5030203)
Flood Height		Flood Height 6b None
Water Depth		
Elevation		834.1 ft (Source: FEMA 2018-20) (NAVD88)
Community & ID		Ritchie County (ID: 540224)
FEMA Map & Date		54085C0125C; Effective Date: 10/4/2011
Location (lat, long)		(39.277425, -80.906045) (WGS84)
Parcel ID		09-01-0008-0017-0003
E-911 Address		


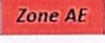



Dotson Run #2



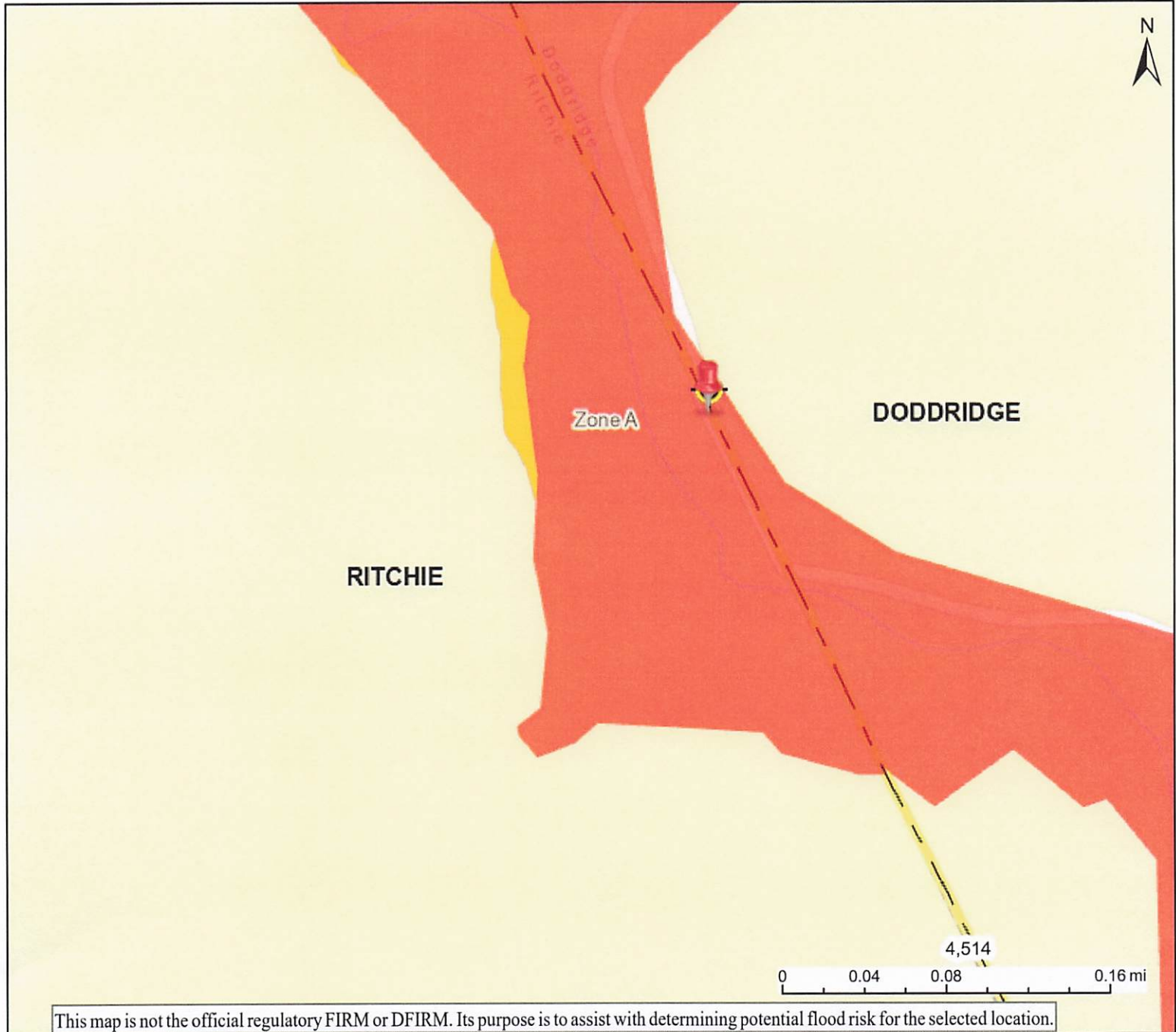
<p>This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.</p>		<p>📍 Flood Info Location Map created on 10/9/2024</p>	
<p>H I G H R I S K</p>	Regulatory Floodway	<p>User Notes</p> <p>Flood Hazard Area Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available.</p> <p>Flood Zone A (Advisory Flood Heights available)</p> <p>Stream Dotson Run</p> <p>Watershed (HUC8) Little Kanawha (5030203)</p> <p>Flood Height Flood Height 4 About 819.5 ft (Source: AFH) NAVD88</p> <p>Water Depth About 2.5 ft (Source: HEC-RAS)</p> <p>Elevation 817.4 ft (Source: FEMA 2018-20) (NAVD88)</p> <p>Community & ID Doddridge County (ID: 540024)</p> <p>FEMA Map & Date 54017C0100C; Effective Date: 10/4/2011</p> <p>Location (lat, long) (39.274834, -80.899607) (WGS84)</p> <p>Parcel ID 09-01-0008-0019-0000</p> <p>E-911 Address multiple addresses</p>	
	1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)		
	1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)		
	1-Percent-Annual-Chance Future Conditions (High Risk Advisory Flood Zones)		
<p>Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf </p> <p>Disclaimer: The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center. </p>			

Dotson Run #1 & 2








H I G H R I S K		Regulatory Floodway
		1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)
		1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)
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 Flood Info Location Map created on 10/9/2024		
User Notes		
Flood Hazard Area		Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available.
Flood Zone		A (Advisory Flood Heights available)
Stream		Dotson Run
Watershed (HUC8)		Little Kanawha (5030203)
Flood Height		Flood Height 4 About 819.5 ft (Source: AFH) NAVD88
Water Depth		About 2.5 ft (Source: HEC-RAS)
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Community & ID		Doddridge County (ID: 540024)
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Location (lat, long)		(39.274834, -80.899607) (WGS84)
Parcel ID		09-01-0008-0019-0000
E-911 Address		multiple addresses

Cabin Run



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		 Flood Info Location Map created on 10/9/2024	
		User Notes	
H I G H R I S K		Regulatory Floodway	
		1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)	
		1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)	
		1-Percent-Annual-Chance Future Conditions (High Risk Advisory Flood Zones)	
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Disclaimer: The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.			
		Flood Hazard Area	Location is WITHIN the FEMA 100-year floodplain.
		Flood Zone	A
		Stream	Cabin Run
		Watershed (HUC8)	Little Kanawha (5030203)
		Flood Height	Flood Height 6b None
		Water Depth	
		Elevation	815.2 ft (Source: FEMA 2018-20) (NAVD88)
		Community & ID	Ritchie County (ID: 540224)
		FEMA Map & Date	54085C0225C; Effective Date: 10/4/2011
		Location (lat, long)	(39.242776, -80.894586) (WGS84)
		Parcel ID	43-03-0037-0001-0000
		E-911 Address	

APPENDIX B
PERMITTING PLANS

ANTERO MIDSTREAM

ISSUED FOR PERMITTING PLANS FOR THE

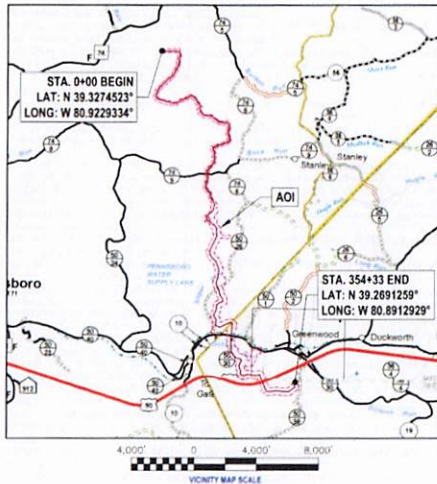
ANNIE TO FRAME SURFACE WATER LINE

PROPOSED 18" HDPE SURFACE WATER LINE

AFE # A12768

101-T50-11555

RITCHIE & DODDRIDGE COUNTIES, WEST VIRGINIA
OCTOBER 2024



APPROXIMATE SITE LOCATION

THRASHER



PHONE: (303) 357-7310 | FAX: (303) 357-7315
1615 WYNKOOP STREET
DENVER, CO 80202

ALIGNMENT SHEETS PREPARED BY

THE THRASHER GROUP
600 WHITE OAKS BLVD
BRIDGEPORT, WV 26330
(304) 624-4108
PO BOX 940

PLAN REPRODUCTION WARNING

THESE PLANS ARE INTENDED TO BE PLOTTED ON ANSI D (22" X 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE. THESE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THESE 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.

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TOTAL AREA AND TREE CLEARING	AREA	UNITS
PERMITTED LIMITS-OF-DISTURBANCE	45.8	ACRES
TREE CLEARING	16.8	ACRES

EXISTING INFORMATION SOURCES

BASE CONTOUR DATA PROVIDED BY OTHERS

ROUTE INFORMATION AND LOCATION PROVIDED BY ANTERO

SUPPLEMENTAL SPOT ELEVATIONS AND ALIGNMENT PROVIDED BY:

THE THRASHER GROUP
600 WHITE OAKS BLVD, P.O. BOX 940
BRIDGEPORT, WV 26330

BENCHMARK

HORIZONTAL - NAD 83 WEST VIRGINIA STATE PLANS, NORTH ZONE, US SURVEY FOOT
VERTICAL - NAVD 88 (GEOID18), US SURVEY FOOT

ROAD DESIGNATIONS OBTAINED FROM WV DOH
(http://www.transportation.wv.gov)

1-800-245-4848

TICKET # 2420190460, 2420190462, 2420190463,
2420190465, 2421900248, 2421900370, 2421900375,
2421900420, 2422000544, 2422000556, 2422000559



CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.
CALL 811 COME 1-811 IN YOUR STATE

THIS PLAN SET DEPICTS THE NECESSARY INFORMATION FOR EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED BY THE WDEP FOR STORM WATER PERMITTING PURPOSES.

THE PIPELINE MATERIALS, ASSOCIATED APPURTENANCES, MATERIAL STRENGTHS, MAOP CALCULATIONS, PIPELINE ROUTING, ETC. DEPICTED ON THESE DRAWINGS ARE AS PROVIDED TO THE THRASHER GROUP, INC. BY OTHERS. THRASHER WILL NOT ACCEPT ANY LIABILITY FOR THE APPROPRIATENESS, OR DESIGN, OR SAID MATERIAL DEPICTED IN THESE PLANS.

THE AQUATIC RESOURCES DEPICTED ON THESE DRAWINGS ARE AS PROVIDED TO THE THRASHER GROUP, INC. BY OTHERS. THRASHER WILL NOT ACCEPT ANY LIABILITY FOR THE ACCURACY, OR COMPLETENESS, OF THE AQUATIC RESOURCES DEPICTED ON THESE PLANS.



CLAYTON C. WHITE, WV P.E. # 24495

☒ ISSUED FOR PERMITS

DATE: 10/2/24

BY: CCW

ISSUED FOR PERMITTING

REVISION

1	ALL LEADING STRINGS OF ANALYSIS AND CASE CALCULATIONS ALONG WITH ROUTING MAPS, PREPARED BY THE PROJECT TEAM, WILL BE SUBMITTED TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL.
2	THIS MEETING IS ANTICIPATED TO BE HELD DURING THE WEEK OF SEPTEMBER 17-19, 2013.

**ANNIE TO FRAME SURFACE WATER LINE
GENERAL CONSTRUCTION SPECS**

PROPOSED 18" HDPE
SURFACE WATER LINE
RITCHIE & DODD BRIDGE COUNTRIES, WEST VIRGINIA

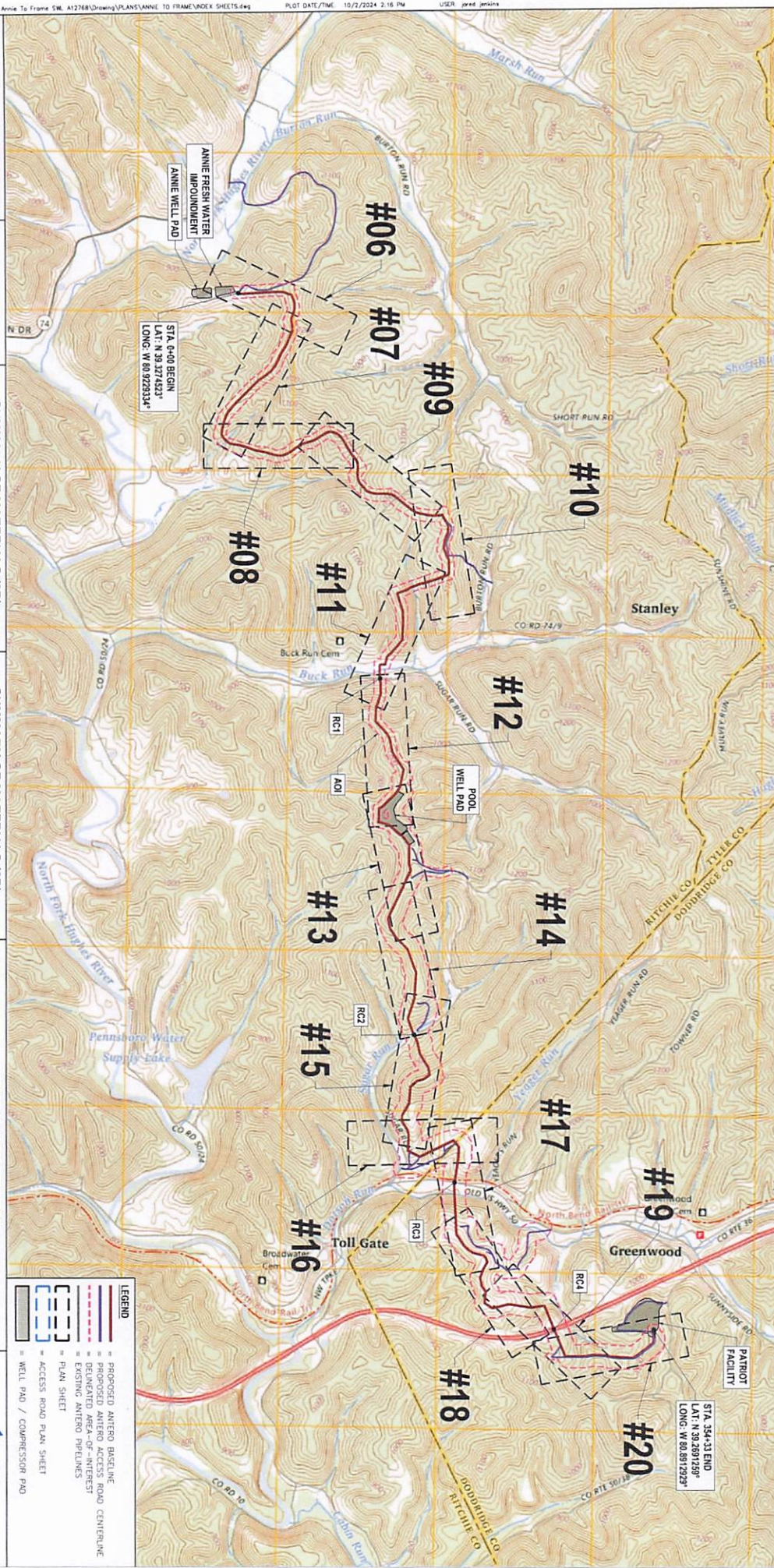
DRAWN BY	JULI (TTO)	DATE	10/1/2024
CHECKED BY	JULI (TTO)	DATE	10/1/2024
SCALE	AS SHOWN		
REVISION NO.	2		

SHEET: 03-SPECS

STRESSERS – THE CONTRACTION OF THE PIPELINE TO LIFE ON THE BOTTOM OF THE PIPE PRODUCE STRESSERS. ALL STRESSERS SHALL BE MADE TO FIT THE PIPE DITCH WHERE THEY CAN BE DIRECTLY SUPPORTED BY THE MATERIALS. STRESSERS SHALL BE PLACED AT POINTS TO PROVIDE STRESS-FREE SUPPORT FOR THE PIPELINE SUBSEQUENT TO BACKFILLING. SPACING INTERVALS FOR SANDWICH STRESSERS SHALL BE 15 FT. OR LESS AS REQUIRED BY THE COMPANY. SUPPORTS COMPOSED OF MATERIALS OTHER THAN SANDWICH STRESSERS SHALL BE PLACED AT POINTS TO PROVIDE A STRESS-FREE INSTALLATION SUBSEQUENT TO BACKFILL THE CONTRACTOR'S INSTALLATION. THE COMPANY SHALL BE RESPONSIBLE FOR THE STRESSERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SANDWICH STRESSERS. THE COMPANY SHALL FOLLOW THE MANUFACTURER'S RECOMMENDED INSTALLATION DIRECTIONS FOR THE STRESSER METHOD BEING USED.

[illegible]

ROAD #	LAT	LONG	ROUTE #	CROSSING METHOD
RC1	N 39.3502418°	W 80.9171281°	CO RT. 74/9	OPEN CUT
RC2	N 39.3566655°	W 80.9092087°	CO RT. 50/06	OPEN CUT
RC3	N 39.2771168°	W 80.9006107°	CO RT. 50/06	HDD BORE
RC4	N 39.2806554°	W 80.8964257°	U.S. RT. 50	HDD BORE



THIRASHEP

IFP

ISSUED FOR PERMITTING

DATE: 10/2/2024

ATE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITTING	10/2/2024	JJ
2	REVISION	10/2/2024	JJ
3	REVISION	10/2/2024	JJ
4	REVISION	10/2/2024	JJ
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99	REVISION	10/2/2024	JJ
100	REVISION	10/2/2024	JJ

GENERAL INFORMATION

ANNE TO FRAME SURFACE WATER LINE

PROPOSED 18" HDPE SURFACE WATER LINE

DATE: 10/2/2024

SCALE: AS SHOWN

SHEET: 04-PL--INDEX

Antero

PROPOSED ANTERO BASELINE

PROPOSED ANTERO ACCESS ROAD CENTERLINE

DELIMITED AREA-OF-INTEREST

EXISTING ANTERO PRELINES

PLAN SHEET

ACCESS ROAD PLAN SHEET

WELL PAD / COMPRESSION PAD

LEGEND

PROPOSED ANTERO BASELINE

PROPOSED ANTERO ACCESS ROAD CENTERLINE

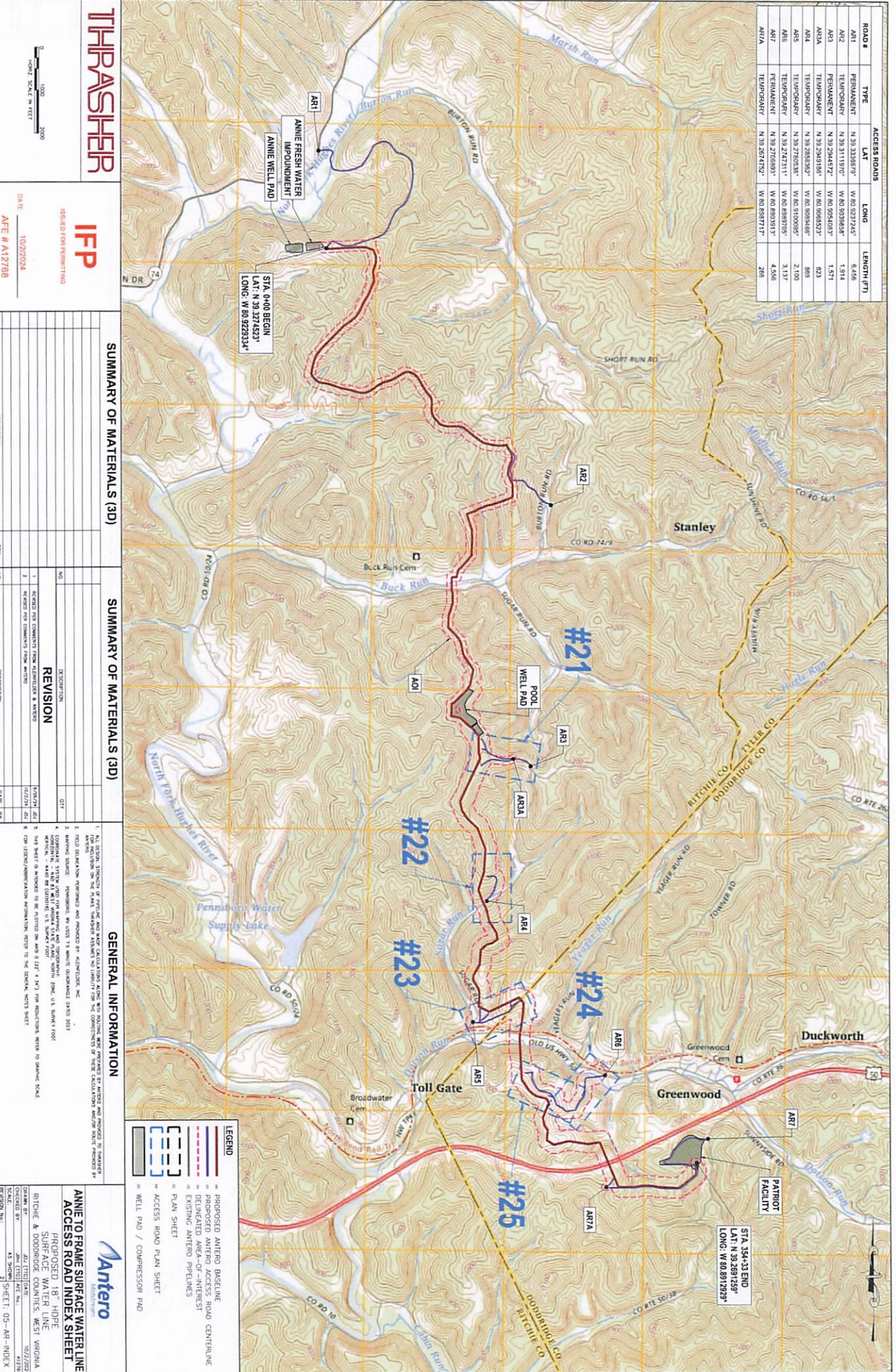
DELIMITED AREA-OF-INTEREST

EXISTING ANTERO PRELINES

PLAN SHEET

ACCESS ROAD PLAN SHEET

WELL PAD / COMPRESSION PAD



THRAPASHER

INDEX SCALE IN FEET

010002000

DATE10/02/2024

AFE # A12768

ISSUED FOR PERMITTING

IFP

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

GENERAL INFORMATION

1. ALL DESIGN, STRUCTURE OF PROJECT AND MAP CALCULATIONS ALONG WITH DRAINAGE SURF PROVIDED BY ANTIPOD AND PROVIDED BY SUBMITTER. THIS INFORMATION IS FOR THE ANTIPOD SUBMITTER'S USE ONLY. IT IS NOT TO BE USED FOR ANY OTHER PURPOSES. THE ANTIPOD SUBMITTER IS RESPONSIBLE FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR SURF PROVIDED BY ANTIPOD.

2. FIELD MEASUREMENTS (PERIMETER) AND PROVIDED BY KLEINER/CLARK, INC.

3. SURFACE SOURCE: PERIMETER, BY ACCESS 1.5, MOUNTAIN QUADRANT, EIGHTY 2003

4. CONTRACTOR: SURF SOURCE: PERIMETER, BY ACCESS 1.5, MOUNTAIN QUADRANT, EIGHTY 2003

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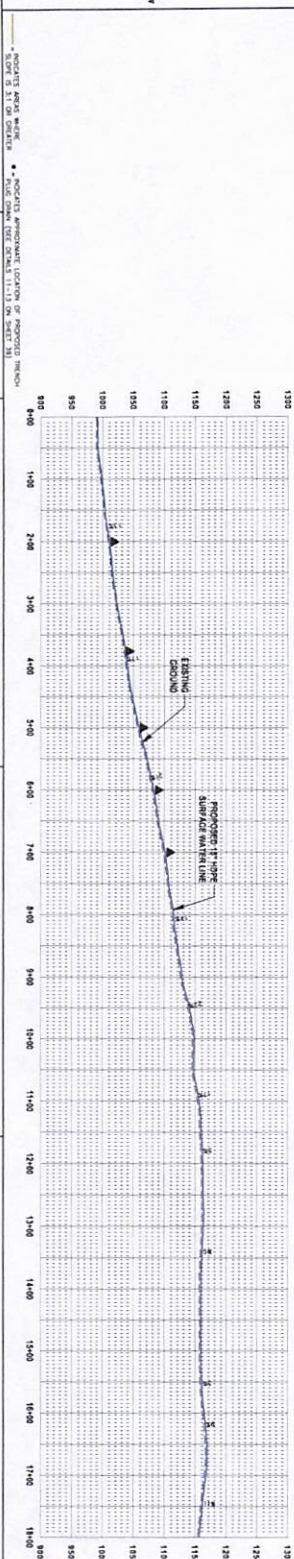
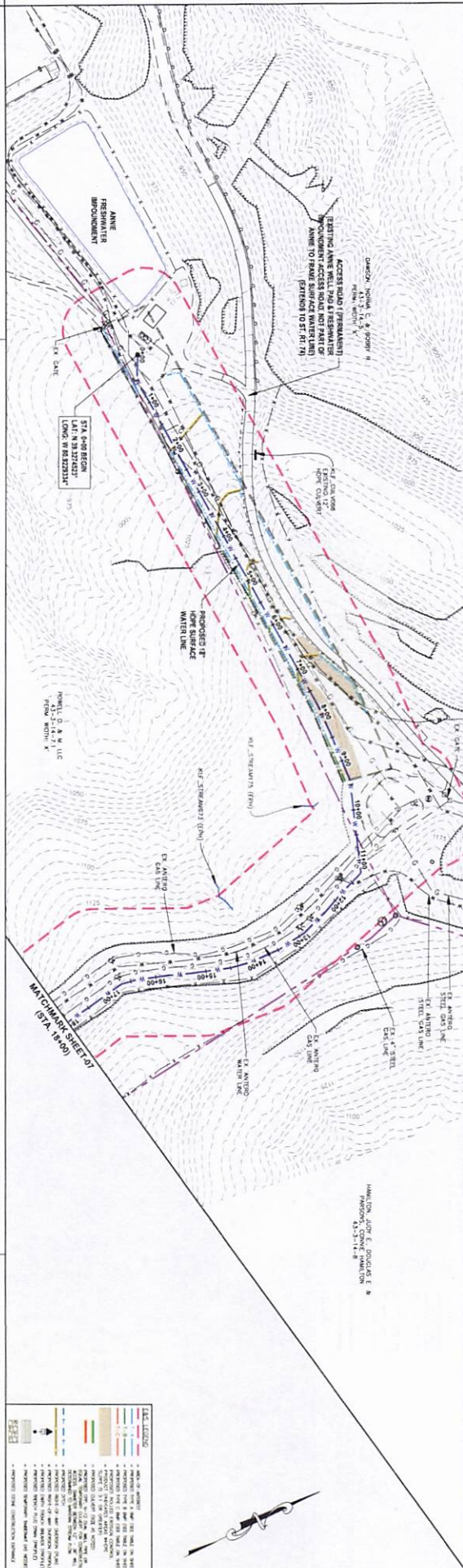
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GENERAL INFORMATION

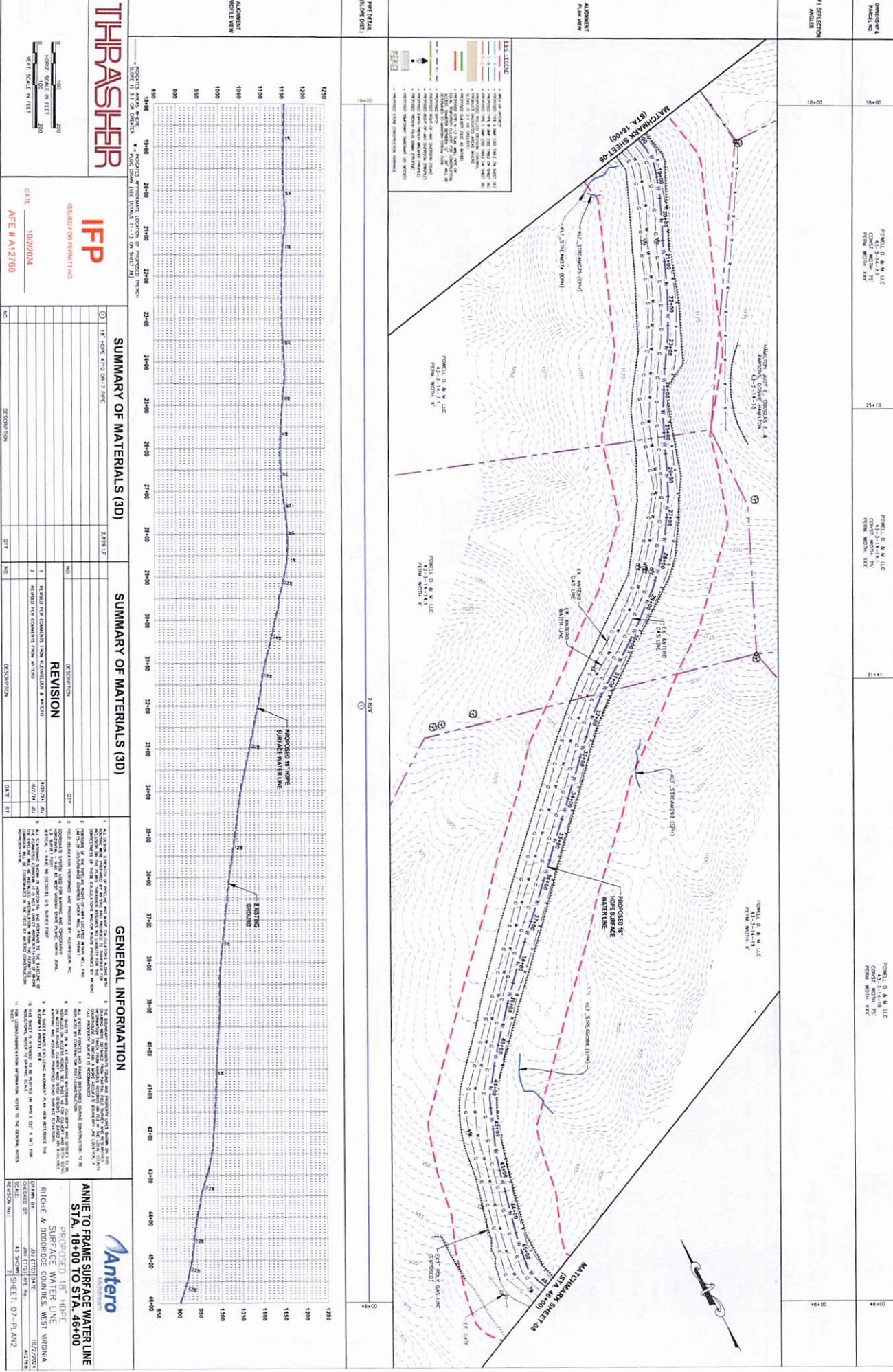
Antero
A WATERFURNITY COMPANY

ANNIE TO FRAME SURFACE WATER LINE
STA. 0+00 TO STA. 18+00

PROPOSED 18" HDPE
SURFACE WATER LINE
RITCHIE & DODDRIEDGE COUNTIES, WEST VIRGINIA

DRAWN BY: JIM TITZEL DATE: 06/27/2014
CHECKED BY: JIM TITZEL ERT. NO.: A118788
SCALE: AS SHOWN

REVISION NO.: 2 SHEET 1 OF 6 PLAN 1



THRASHER

IFP

ISSUED FOR PERMITTING

DATE: 10/2/2024

A/E # A12768

SUMMARY OF MATERIALS (3D)	
1" CONC. #10 @ 12" P.C.	2,523 LF
2" CONC. #10 @ 12" P.C.	
3" CONC. #10 @ 12" P.C.	
4" CONC. #10 @ 12" P.C.	
5" CONC. #10 @ 12" P.C.	
6" CONC. #10 @ 12" P.C.	
7" CONC. #10 @ 12" P.C.	
8" CONC. #10 @ 12" P.C.	
9" CONC. #10 @ 12" P.C.	
10" CONC. #10 @ 12" P.C.	
11" CONC. #10 @ 12" P.C.	
12" CONC. #10 @ 12" P.C.	

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5" CONC. #10 @ 12" P.C.	
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11" CONC. #10 @ 12" P.C.	
12" CONC. #10 @ 12" P.C.	

SUMMARY OF MATERIALS (3D)	
1" CONC. #10 @ 12" P.C.	2,523 LF
2" CONC. #10 @ 12" P.C.	
3" CONC. #10 @ 12" P.C.	
4" CONC. #10 @ 12" P.C.	
5" CONC. #10 @ 12" P.C.	
6" CONC. #10 @ 12" P.C.	
7" CONC. #10 @ 12" P.C.	
8" CONC. #10 @ 12" P.C.	
9" CONC. #10 @ 12" P.C.	
10" CONC. #10 @ 12" P.C.	
11" CONC. #10 @ 12" P.C.	
12" CONC. #10 @ 12" P.C.	

SUMMARY OF MATERIALS (3D)	
1" CONC. #10 @ 12" P.C.	2,523 LF
2" CONC. #10 @ 12" P.C.	
3" CONC. #10 @ 12" P.C.	
4" CONC. #10 @ 12" P.C.	
5" CONC. #10 @ 12" P.C.	
6" CONC. #10 @ 12" P.C.	
7" CONC. #10 @ 12" P.C.	
8" CONC. #10 @ 12" P.C.	
9" CONC. #10 @ 12" P.C.	
10" CONC. #10 @ 12" P.C.	
11" CONC. #10 @ 12" P.C.	
12" CONC. #10 @ 12" P.C.	

SUMMARY OF MATERIALS (3D)	
1" CONC. #10 @ 12" P.C.	2,523 LF
2" CONC. #10 @ 12" P.C.	
3" CONC. #10 @ 12" P.C.	
4" CONC. #10 @ 12" P.C.	
5" CONC. #10 @ 12" P.C.	
6" CONC. #10 @ 12" P.C.	
7" CONC. #10 @ 12" P.C.	
8" CONC. #10 @ 12" P.C.	
9" CONC. #10 @ 12" P.C.	
10" CONC. #10 @ 12" P.C.	
11" CONC. #10 @ 12" P.C.	
12" CONC. #10 @ 12" P.C.	

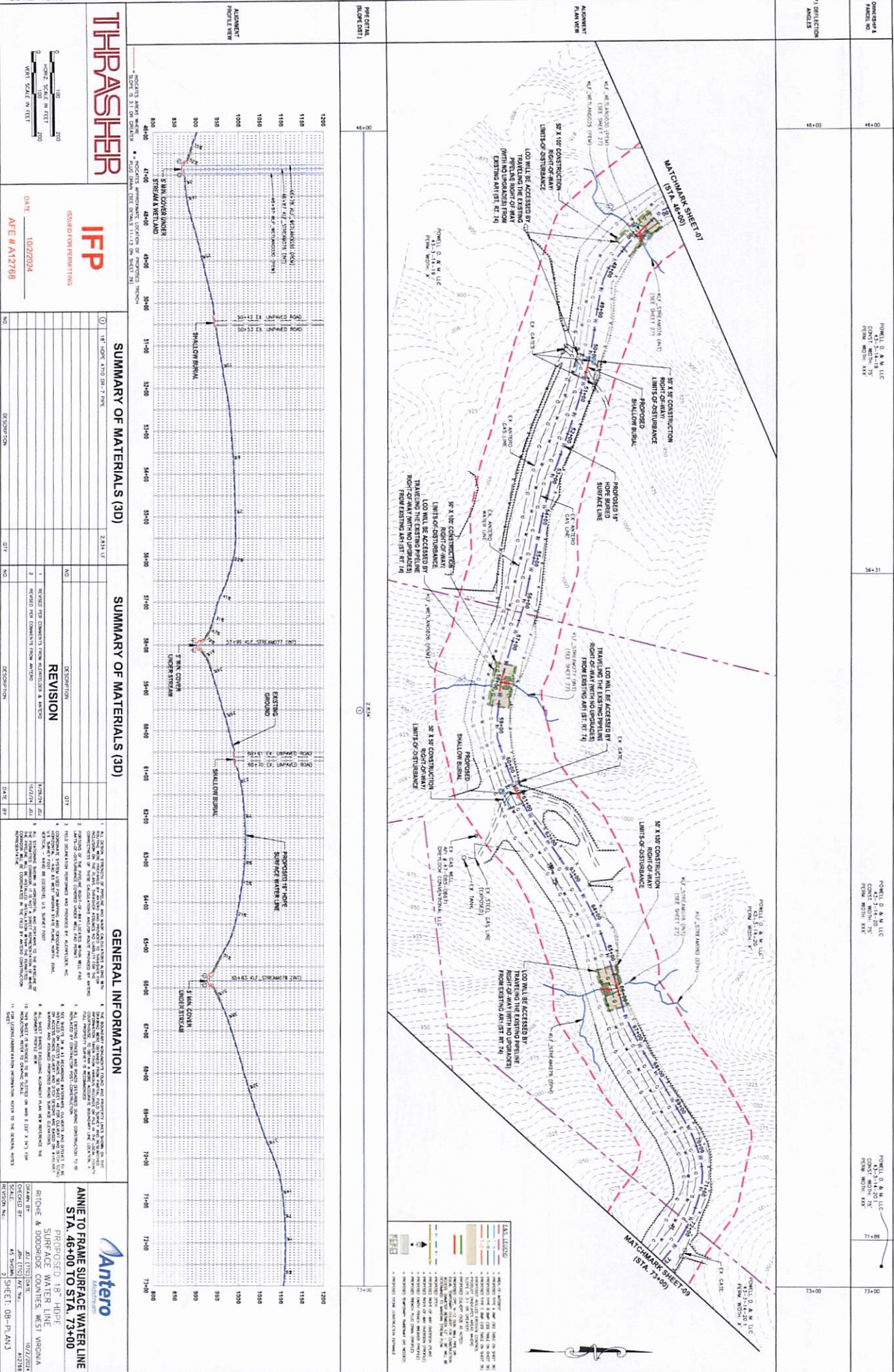
SUMMARY OF MATERIALS (3D)	
1" CONC. #10 @ 12" P.C.	2,523 LF
2" CONC. #10 @ 12" P.C.	
3" CONC. #10 @ 12" P.C.	
4" CONC. #10 @ 12" P.C.	
5" CONC. #10 @ 12" P.C.	
6" CONC. #10 @ 12" P.C.	
7" CONC. #10 @ 12" P.C.	
8" CONC. #10 @ 12" P.C.	
9" CONC. #10 @ 12" P.C.	
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11" CONC. #10 @ 12" P.C.	
12" CONC. #10 @ 12" P.C.	

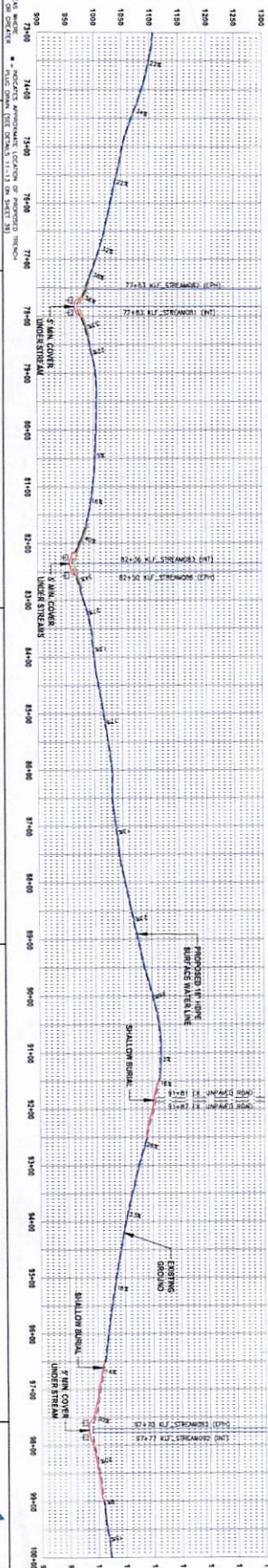
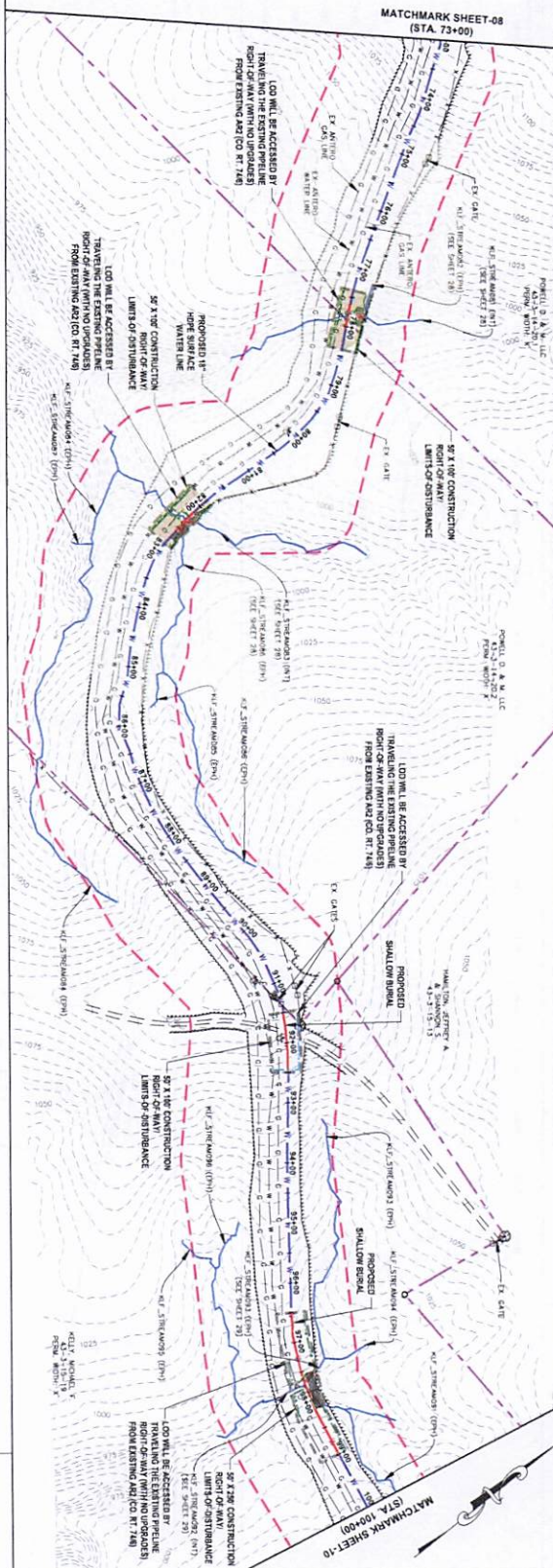
SUMMARY OF MATERIALS (3D)	
1" CONC. #10 @ 12" P.C.	2,523 LF
2" CONC. #10 @ 12" P.C.	
3" CONC. #10 @ 12" P.C.	
4" CONC. #10 @ 12" P.C.	
5" CONC. #10 @ 12" P.C.	
6" CONC. #10 @ 12" P.C.	
7" CONC. #10 @ 12" P.C.	
8" CONC. #10 @ 12" P.C.	
9" CONC. #10 @ 12" P.C.	
10" CONC. #10 @ 12" P.C.	
11" CONC. #10 @ 12" P.C.	
12" CONC. #10 @ 12" P.C.	

Antero

ANNE TO FRAME SURFACE WATER LINE
STA. 18+00 TO STA. 46+00

PROJECT 18-0000
SURFACE WATER LINE
BRIDGE & DRAINAGE
WEST VIRGINIA
DATE: 10/2/2024
A/E: JARED GREENE
SHEET: 07-PLAN2





THRAP/SHEP

IFP

ISSUED FOR PERMITTING

DATE: 10/2/2024

AF-E # A12766

[illegible]

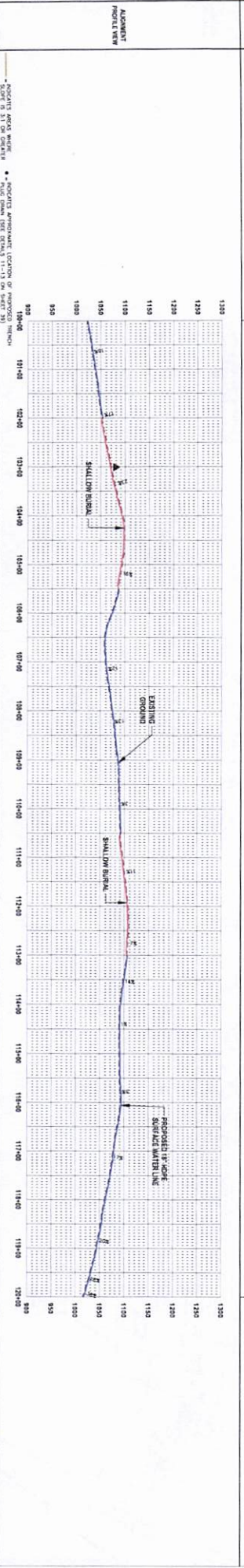
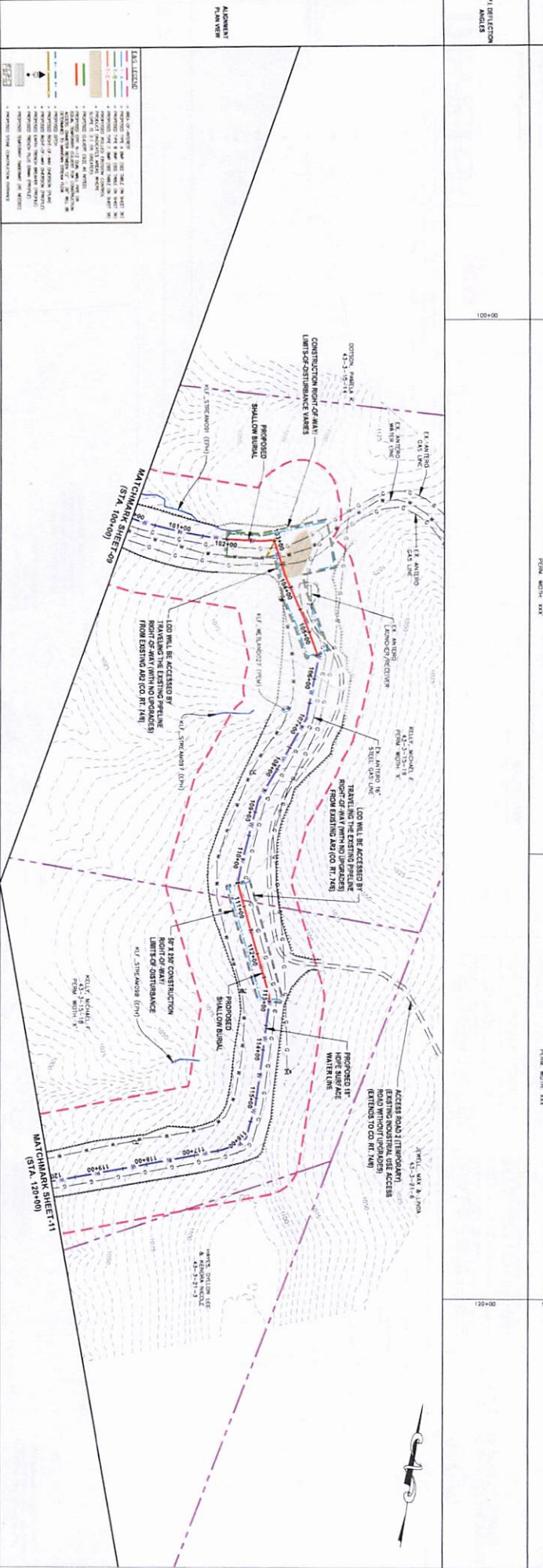
SUMMARY OF MATERIALS (3D)

GENERAL

INFORMATION

					
ANTERO CORPORATION					
ANNIE TO FACE SURFACE WATER LINING					
STA. 73+00 TO STA. 100+00					
PROPOSED 18" HDPE					
SURFACE WATER LINE					
RITCHIE & DODD/BURKE COUNTIES, WEST VIRGINIA					
DRAWN BY	DATE	CHECKED BY	DATE	SHEET NO.	TOTAL SHEETS
JM [signature]	02/10/12	JM [signature]	02/22/12	42 OF 50	
SHEET: 09 - PL AN4					
DRAWING NO.: 10-00000000					

OWNER'S SHEET NO.	00+00	KELLY MICHAEL F 41-3-15-18 STA. 0+00 TO STA. 120+00 (CONT.) WITH: 15' FROM WEST SIDE FROM WEST SIDE
P.1 REFLECTION ANALYSIS	00+00	KELLY MICHAEL F 41-3-15-18 STA. 0+00 TO STA. 120+00 (CONT.) WITH: 15' FROM WEST SIDE FROM WEST SIDE



GENERAL INFORMATION	
1. ALL DIMENSIONS, UNLESS OTHERWISE NOTED, ARE IN FEET AND INCHES. DIMENSIONS SHALL BE TO THE CENTERLINE OF THE WATER LINE, UNLESS OTHERWISE NOTED.	2. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).
3. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).	4. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).
5. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).	6. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).
7. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).	8. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).
9. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).	10. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).
11. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).	12. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).

THRAPASHER

100' SCALE IN FEET

200' SCALE IN FEET

VERT. SCALE IN FEET

IFP

ISSUED FOR PERMITTING

DATE: 10/2/2024

AGE # A12768

SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION
1	18\"/>

SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION
1	18\"/>

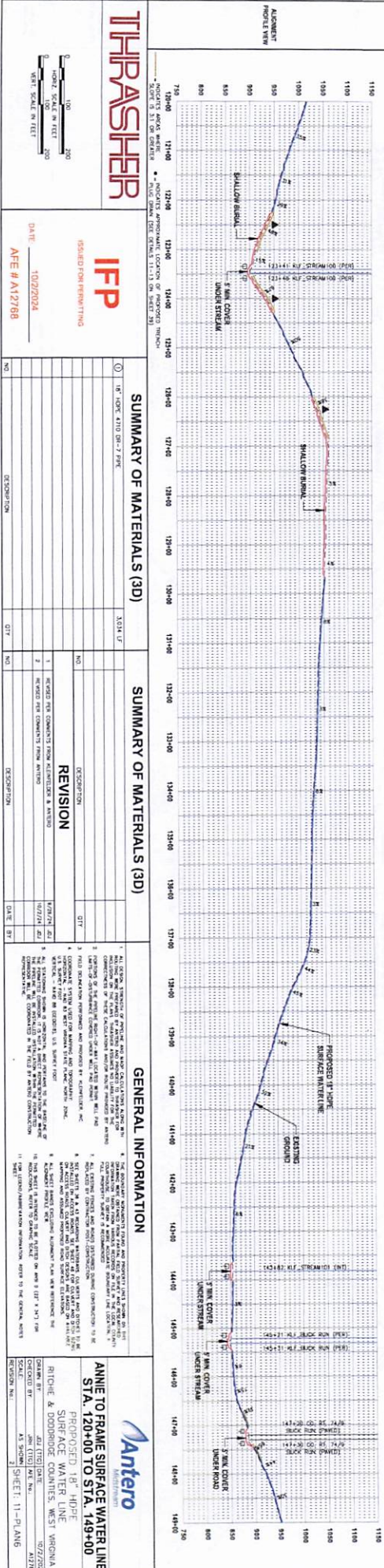
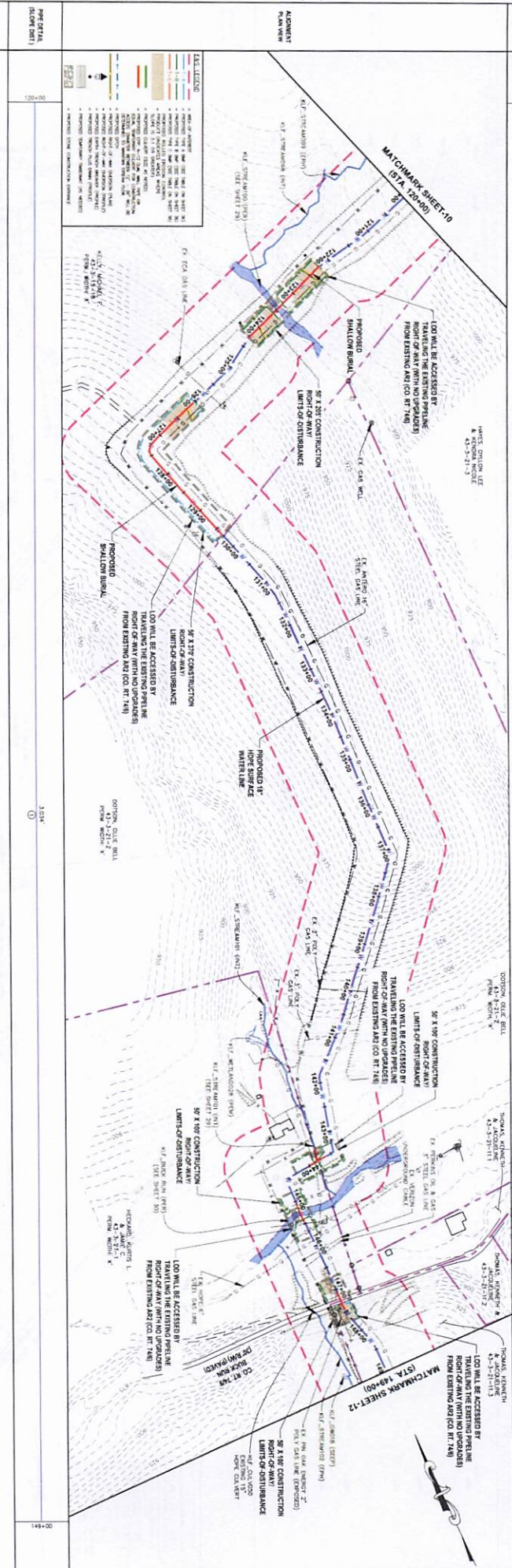
GENERAL INFORMATION	
1. ALL DIMENSIONS, UNLESS OTHERWISE NOTED, ARE IN FEET AND INCHES. DIMENSIONS SHALL BE TO THE CENTERLINE OF THE WATER LINE, UNLESS OTHERWISE NOTED.	2. THE PROPOSED WATER LINE SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION (WVDOT) AND THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (WVDEQ).
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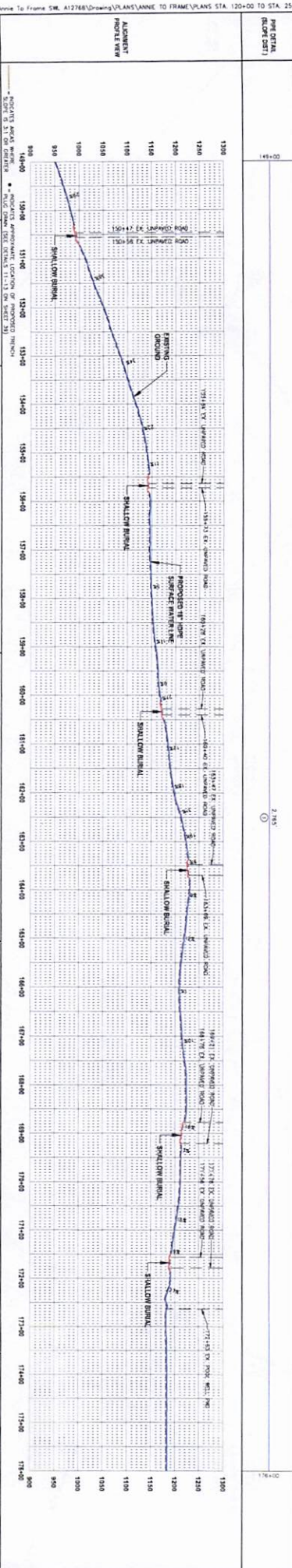
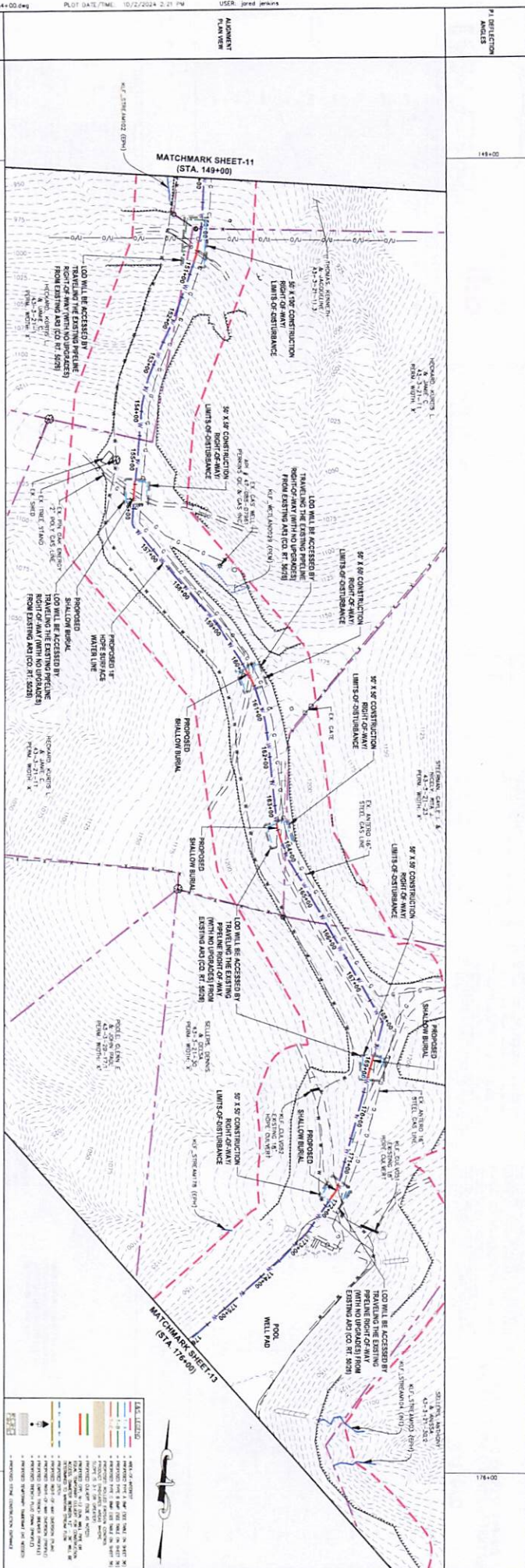
Antero

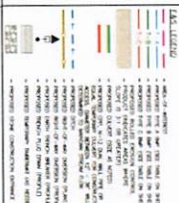
ANNE TO FRAME SURFACE WATER LINE
STA. 100+00 TO STA. 120+00

PROPOSED 18\"/>

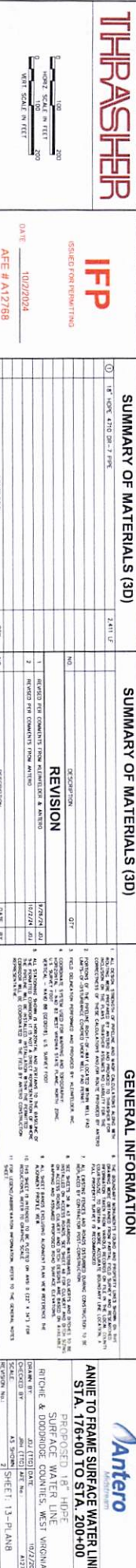
OWNER'S NAME PARCEL NO.	120+00	1192+00	08+14.1	52+41.1	00+49.1
KELLY, MORTAL, F. CONV. 1-5-18 FIRM, WIDTH: XXV			HOGAN, AGNES L. A. CONV. 1-2-11 FIRM, WIDTH: XXV	HOAG, CORNELIUS & CONV. 3-23-11 FIRM, WIDTH: XXV	
DORTCH, DALE WILL CONV. 1-2-11 FIRM, WIDTH: XXV					

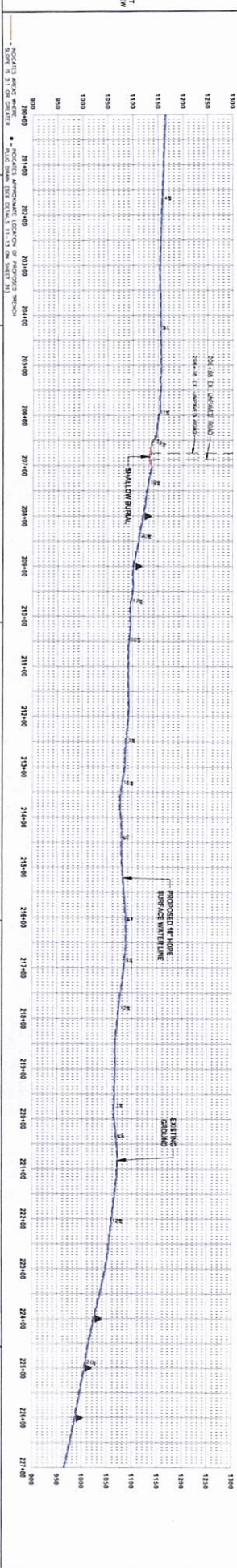
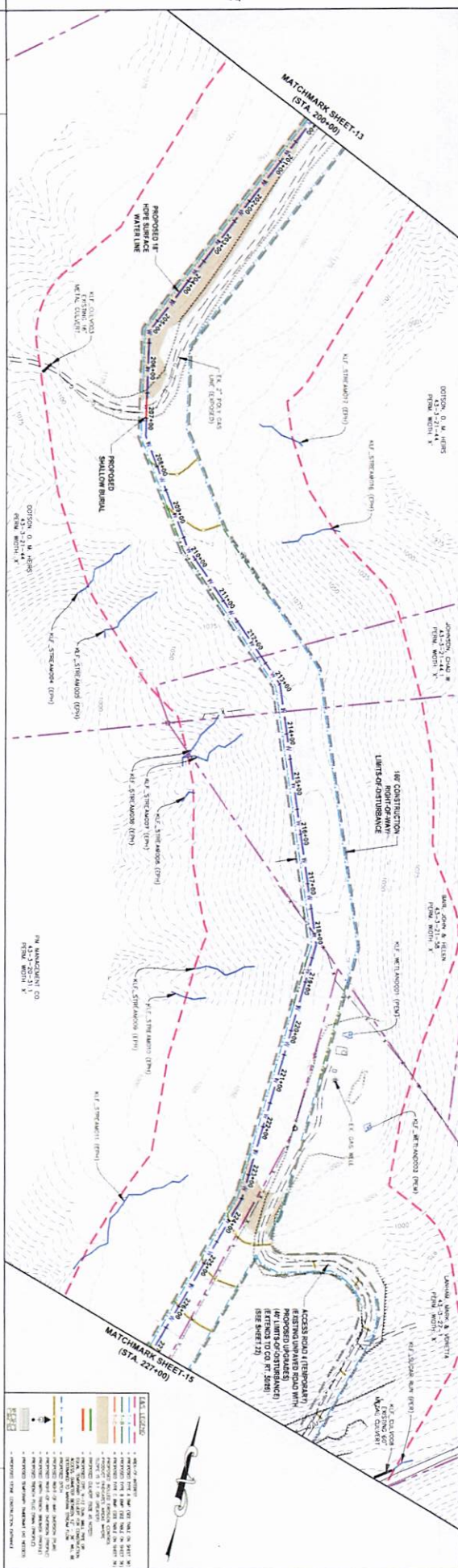


[illegible][illegible]



P1 DEFLECTION ANGLES	
176+00	
200+00	



[illegible][illegible]



IFP
ISSUED FOR PERMITTING
DATE 10/2/2024
AFE # A12768

[illegible]

GENERAL INFORMATION

Antero
MEMPHIS

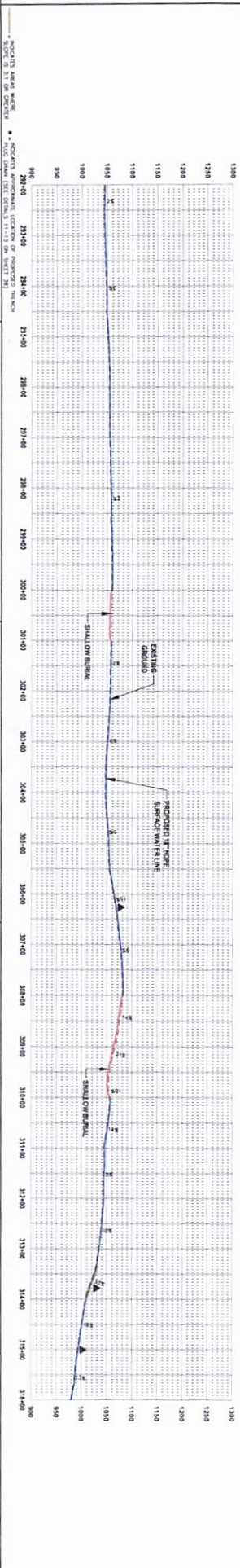
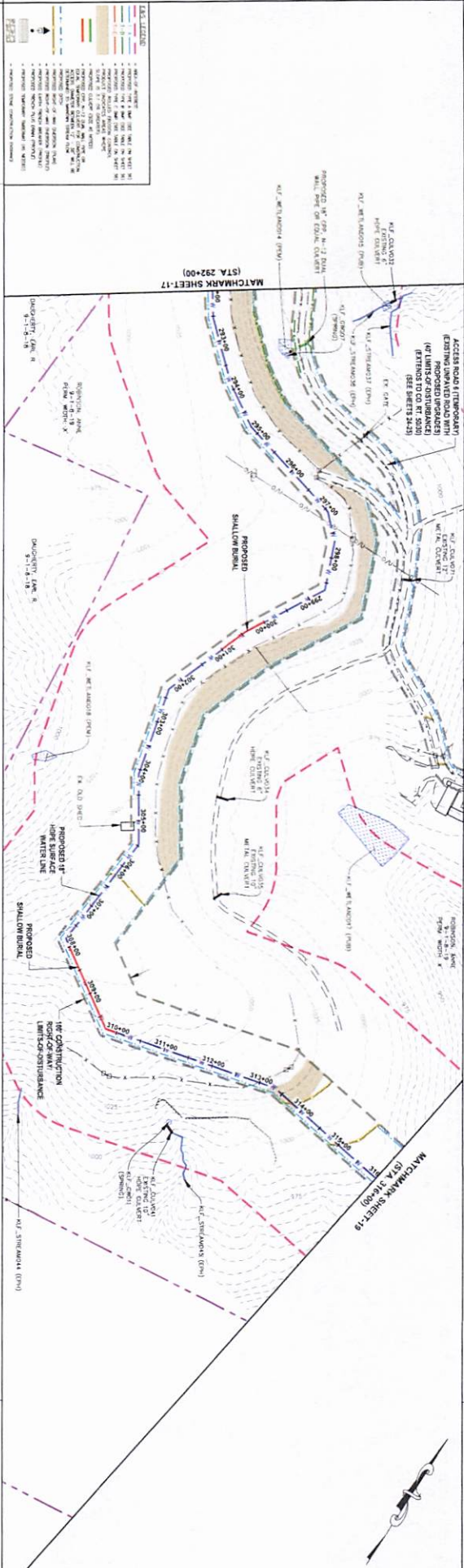
ANNOUNCE TO FRAME SURFACE WATER LINE
STA. 227+00 TO STA. 254+00

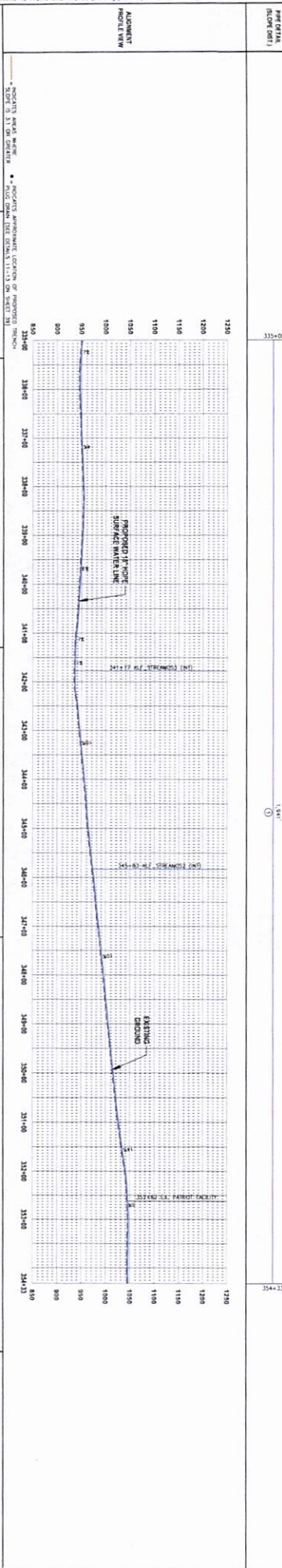
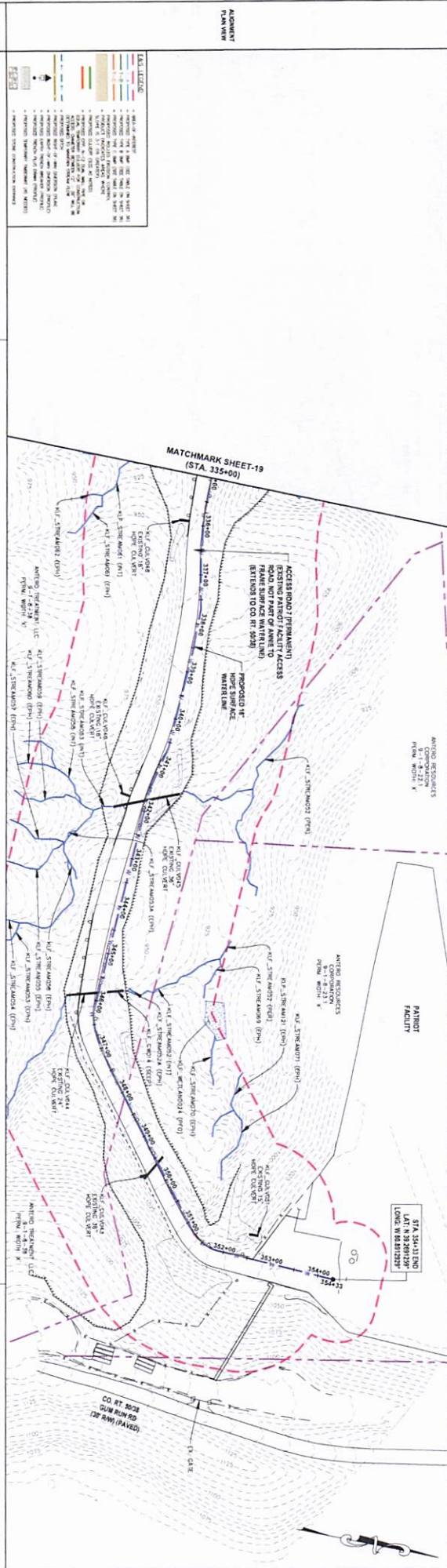
PROPOSED 18" HDPE
SURFACE WATER LINE
RITCHIE & DODDROGE CONSULTANTS, WEST VIRGINIA

ISSUED BY: JAL (JGJ) **DATE:** 06/20/2018
CHECK BY: JAL (JGJ) **DATE:** 06/20/2018
AS SHOWN: 2 **SHEET 15-PLAN 10**



DATE:	AS SHOWN	SHEET: 17-PLAN12
VERSION No:	2	

[illegible]

[illegible]

[illegible]

SUMMARY OF MATERIALS (3D)			
NO	DESCRIPTION	QTY	
1	REINFORCED PILE CONCRETE PILING (DIAMETER 8" APPROX)	1	1
2	REINFORCED PILE CONCRETE PILING (DIAMETER 8" APPROX)	1	1
3			
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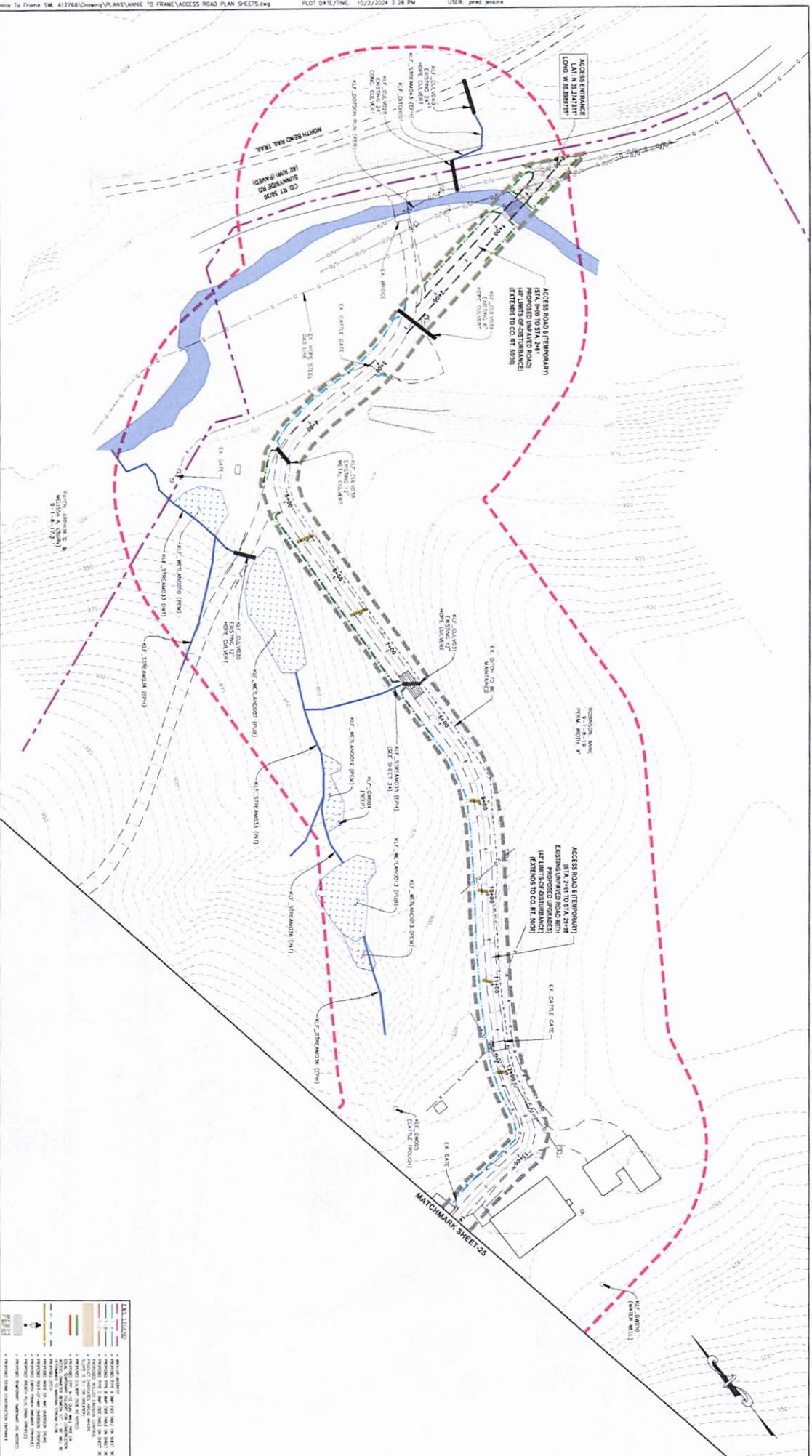
[illegible]

Antero
ARCHITECT

**ANNIE TO FRAME SURFACE WATER LINE
ACCESS ROAD PLAN SHEET**

PROPOSED 18" HDPE
SURFACE WATER LINE
RITCHIE & DOODRIDGE COUNTIES, WEST VIRGINIA

DATE: 07/21/2022	BY: A1
SCALE: 1" = 40'	BY: A1
SHEET: 23-ARPS3	



THRAP/SHEP

IFP

ISSUED FOR PERMITTING

DATE 10/2/2024

AFE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

GENERAL INFORMATION

[illegible]

Antero
A LUMBER COMPANY

ANNIE TO FRAME SURFACE WATER LINN
ACCESS ROAD PLAN SHEET

PROPOSED 18" HDPE
SURFACE WATER LINE
RITCHIE & DODD BRIDGE COUNTRIES, WEST VIRGINIA

DATE: 08/11/14	BY: JTC/MLC	NO: 2228
SCALE: AS SHOWN	DATE: 08/11/14	AL: 2228

SHEET: 24-APR5.4



Antero

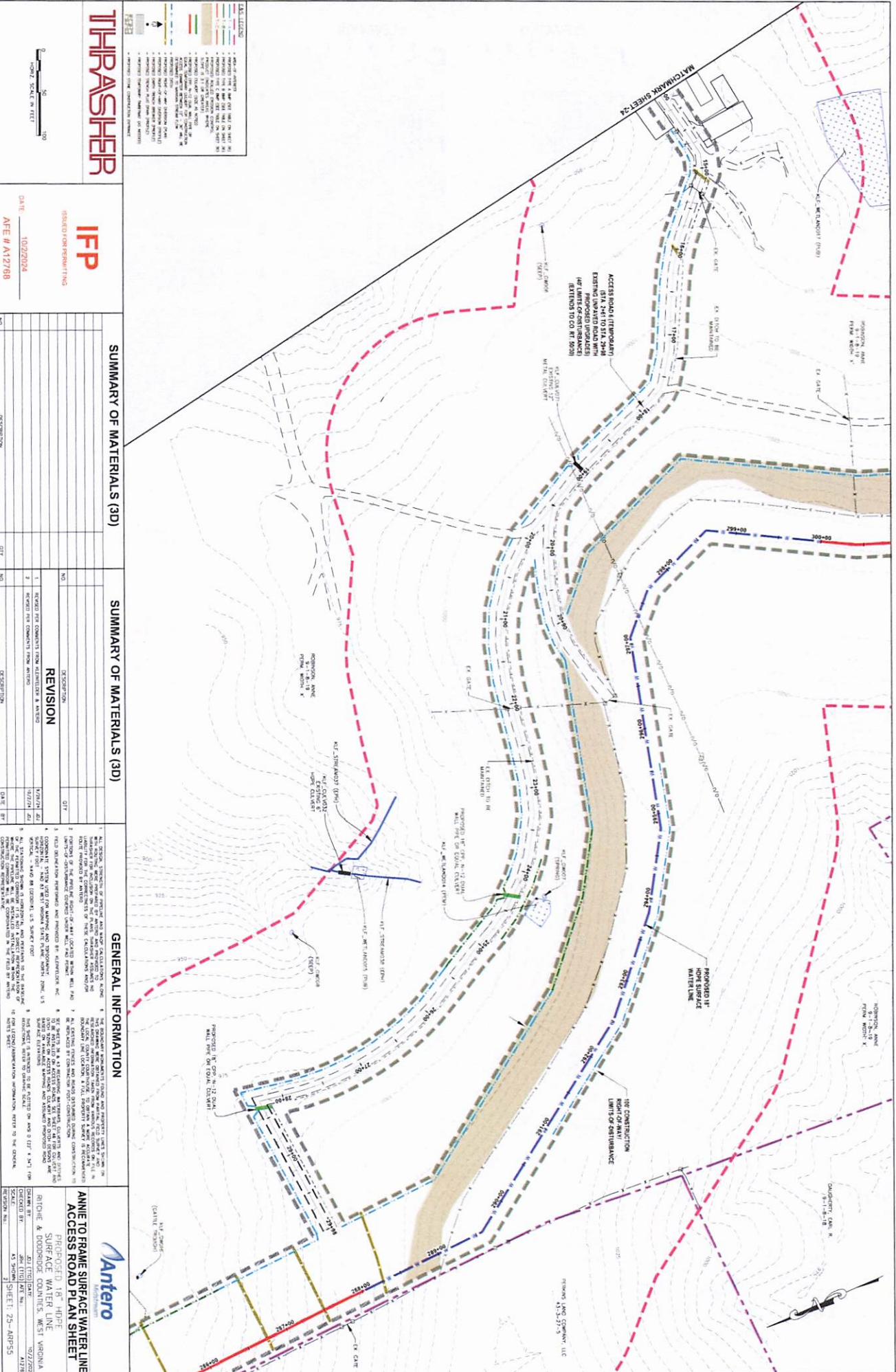
ANNIE TO FRAME SURFACE WATER LINE
ACCESS ROAD PLAN SHEET

PROPOSED 18" HDPE
SURFACE WATER LINE

RITCHIE & DODDRIDGE COUNTIES, WEST VIRGINIA

CHAMBER II:	DOJ (TTC)	DATE	10/2/2006
CHAMBER III:	DOH (TTC)	AGE No.:	A127

SCALE: AS SHOWN
REVISION NO: 2
SHEET: 24-ARPS4

[illegible]

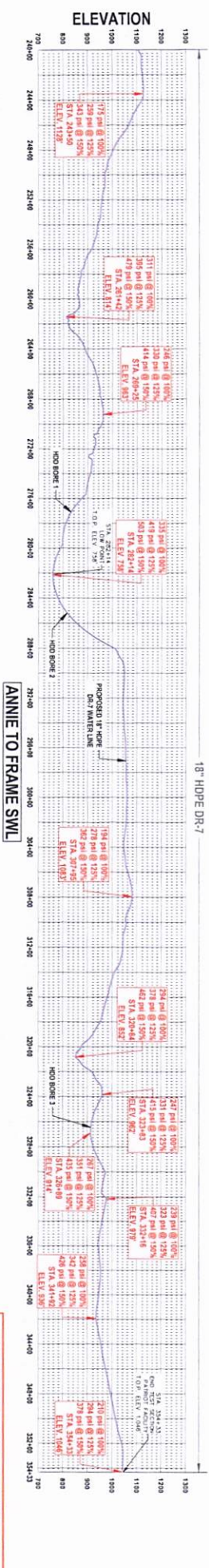
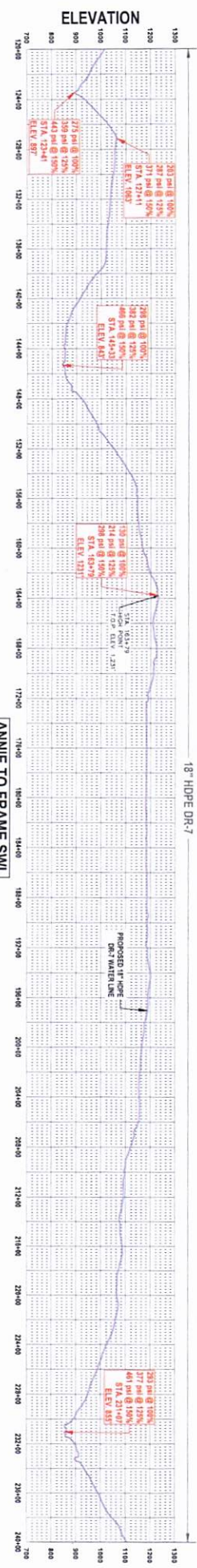
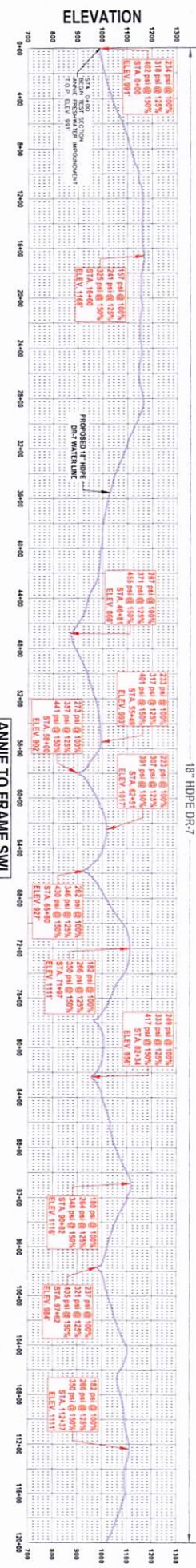
GENERAL INFORMATION

Antero
A WATERBURY COMPANY

**ANNE TO FRAME SURFACE WATER LINE
ACCESS ROAD PLAN SHEET**

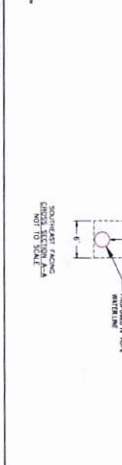
PROPOSED 18" HDPE
SURFACE WATER LINE
RITCHIE & DOONBROOK COUNTRIES, WEST VIRGINIA

DRAWN BY: JAH (TJC) DATE: 10/2/2016
CHECKED BY: JAH (TJC) DATE: 10/2/2016
SCALE: AS SHOWN
REVISION: No. 2 SHEET: 25-ARP55

[illegible]



STREAM CROSSING
KLF_STREAM077 (INT



STREAM CROSSING
KLF_STREAM078 (INT)



IFP

ISSUED FOR PERMITTING

DATE: 10/2/2024

AFE # A12761

SUMMARY OF MATERIALS (3D)

REVISION		DATE	BY
NO.	DESCRIPTION		
1	REMOVED THE COMMENTS FROM ALLENTELIER & ANDRE	1/17/24	JO
2	REMOVED THE COMMENTS FROM ANDRE	1/22/24	JO
NO.	DESCRIPTION		

GENERAL INFORMATION

- [illegible]

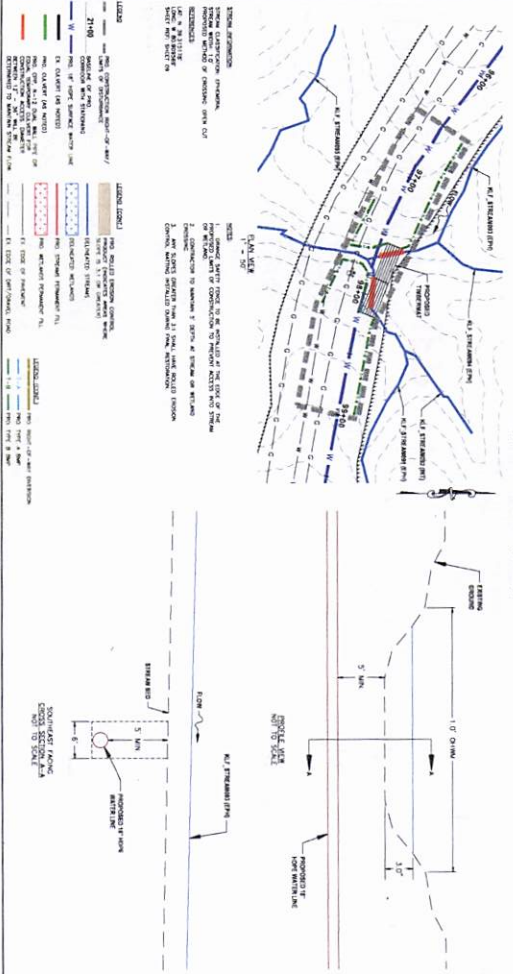
ANNE TO FRAME SURFACE WATER LINE
STREAM & WETLAND CROSSINGS

PROPOSED 16 MILE
SURFACE WATER LINE
RITCHIE & DODDRIDGE COUNTIES, WEST VIRGINIA

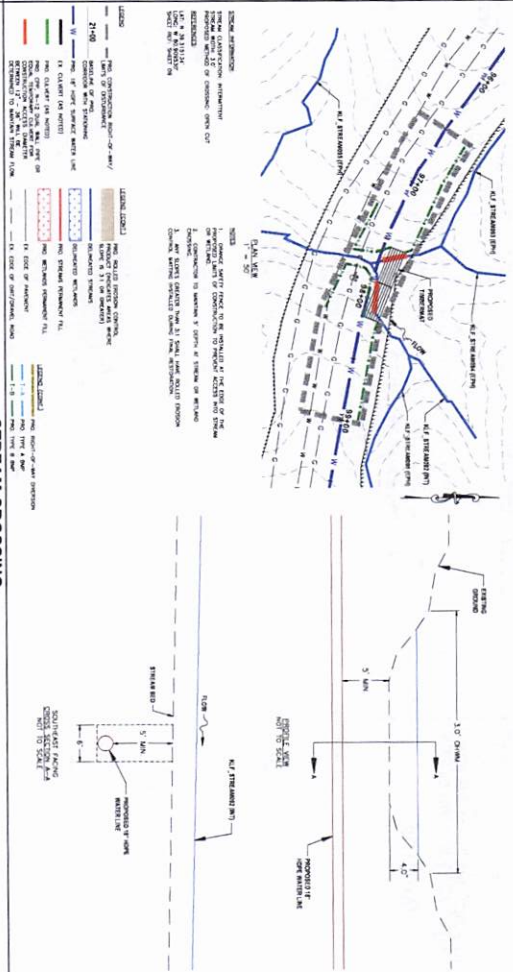
DRAWN BY:	DLJ (TIC)	DATE	10/21/2024
CHECKED BY:	JHM (TIC)	AGE No.:	A12761

SCALE:	A3 3/8"=1"	SHEET: 27-S&WC1
REVISION No.:	2	

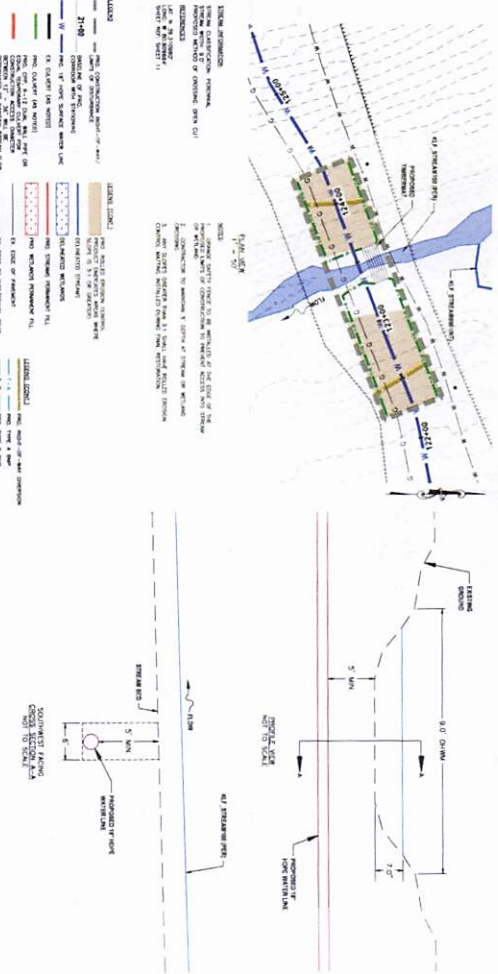
STREAM CROSSING KLF_STREAM093 (EPH)



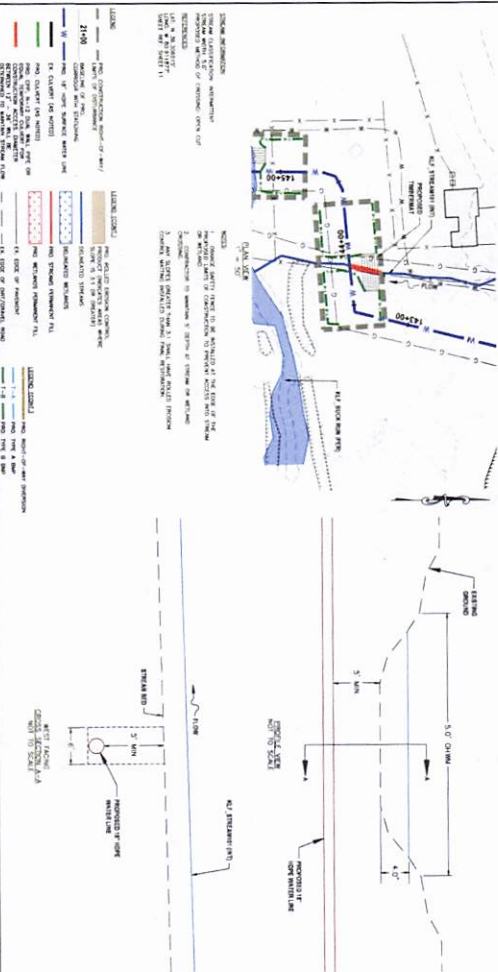
STREAM CROSSING KLF_STREAM092 (INT)



STREAM CROSSING KLF_STREAM100 (PER)



STREAM CROSSING KLF_STREAM101 (INT)



THRAPASHER

IFP

ISSUED FOR PERMITTING

DATE: 10/02/2024

ATE # A12788

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMITTING	10/02/2024
2	REVISED FOR COMMENTS FROM ANTERO	10/02/2024
3	REVISED FOR COMMENTS FROM ANTERO	10/02/2024

GENERAL INFORMATION

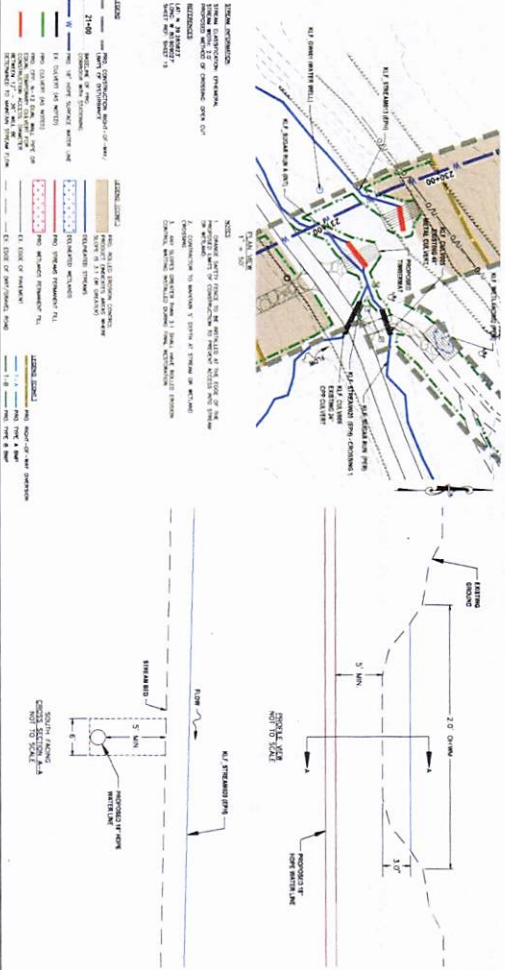
1. ALL DESIGN STANDARDS OF MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AASHTO, MCDONALD, AND/OR ROUTE PROJECTS BY THE DESIGNER.
2. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WATER LINE AND ITS CONNECTIONS TO THE EXISTING WATER LINE AND/OR ROUTE PROJECTS BY THE DESIGNER.
3. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WATER LINE AND ITS CONNECTIONS TO THE EXISTING WATER LINE AND/OR ROUTE PROJECTS BY THE DESIGNER.
4. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WATER LINE AND ITS CONNECTIONS TO THE EXISTING WATER LINE AND/OR ROUTE PROJECTS BY THE DESIGNER.
5. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WATER LINE AND ITS CONNECTIONS TO THE EXISTING WATER LINE AND/OR ROUTE PROJECTS BY THE DESIGNER.
6. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WATER LINE AND ITS CONNECTIONS TO THE EXISTING WATER LINE AND/OR ROUTE PROJECTS BY THE DESIGNER.
7. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WATER LINE AND ITS CONNECTIONS TO THE EXISTING WATER LINE AND/OR ROUTE PROJECTS BY THE DESIGNER.
8. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WATER LINE AND ITS CONNECTIONS TO THE EXISTING WATER LINE AND/OR ROUTE PROJECTS BY THE DESIGNER.
9. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WATER LINE AND ITS CONNECTIONS TO THE EXISTING WATER LINE AND/OR ROUTE PROJECTS BY THE DESIGNER.
10. THE DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE WATER LINE AND ITS CONNECTIONS TO THE EXISTING WATER LINE AND/OR ROUTE PROJECTS BY THE DESIGNER.

ANNE TO FRAME SURFACE WATER LINE
PROPOSED 18" HDPE
SURFACE WATER LINE
RICHIE & DOODRIDGE COUNTRIES, WEST VIRGINIA

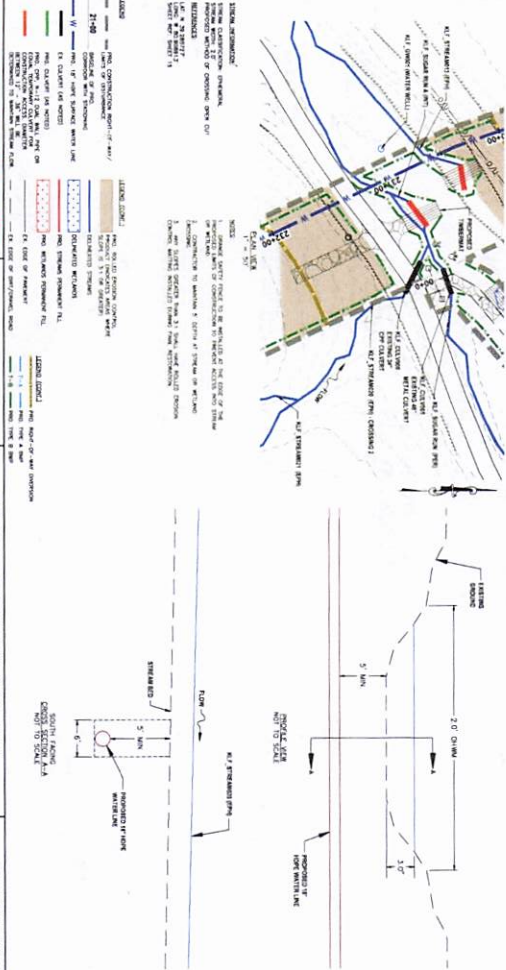


DESIGNED BY: JGD/THP
CHECKED BY: JGD/THP
DATE: 10/02/2024
SHEET: 29 OF 54WC3

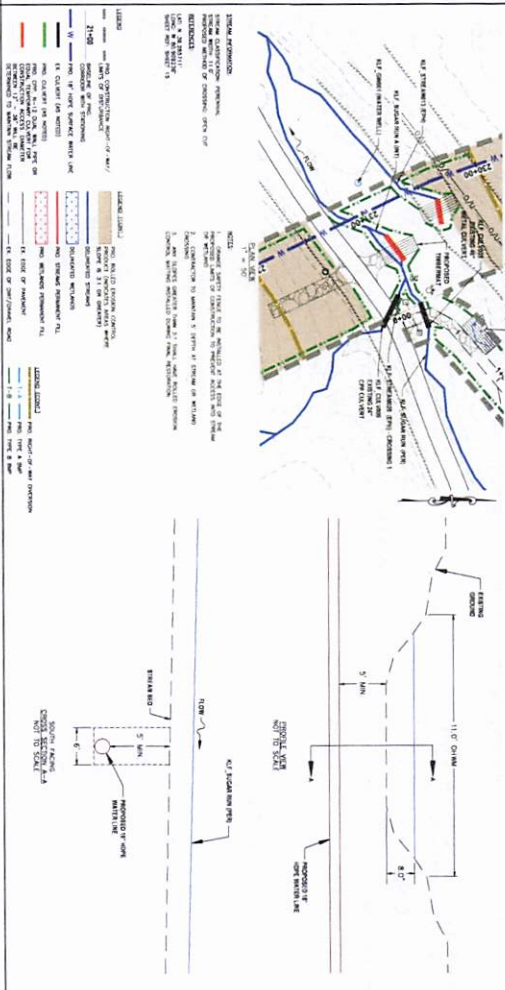
STREAM CROSSING
KLF_STREAM020 (EPH) - CROSSING 1



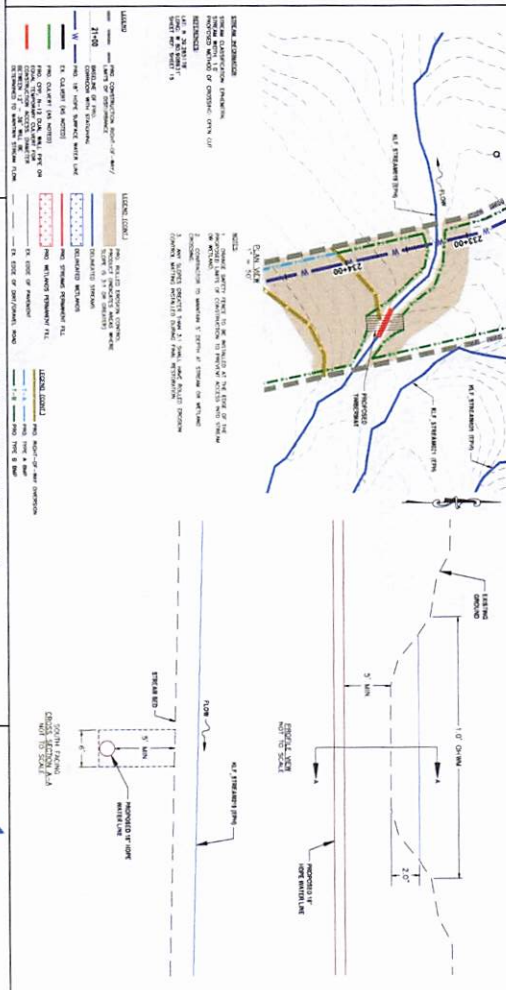
STREAM CROSSING
KLF_STREAM020 (EPH) - CROSSING 2



STREAM CROSSING
KLF_STREAM019 (EPH)



STREAM CROSSING
KLF_STREAM019 (EPH)



THRAPASHER

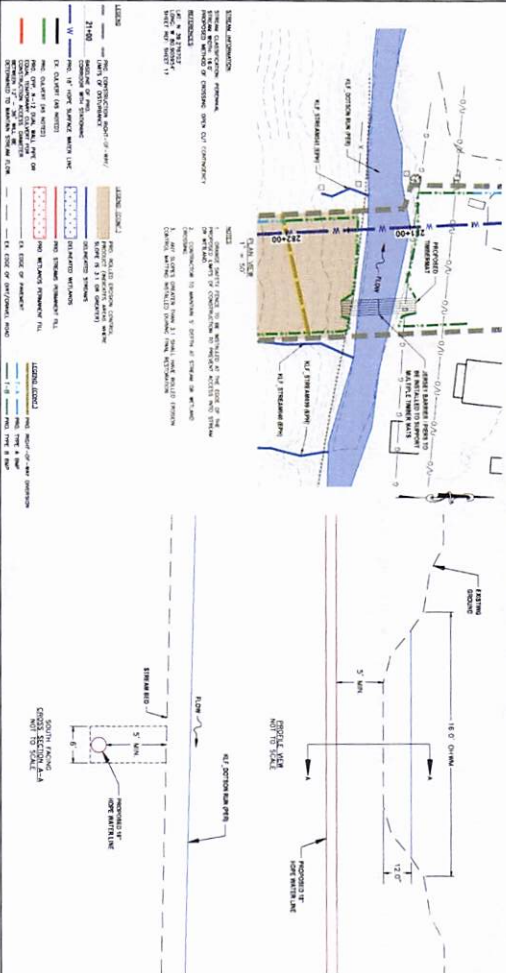
IFP

ISSUED FOR PERMITTING
DATE: 10/02/2024
ATE # A127108

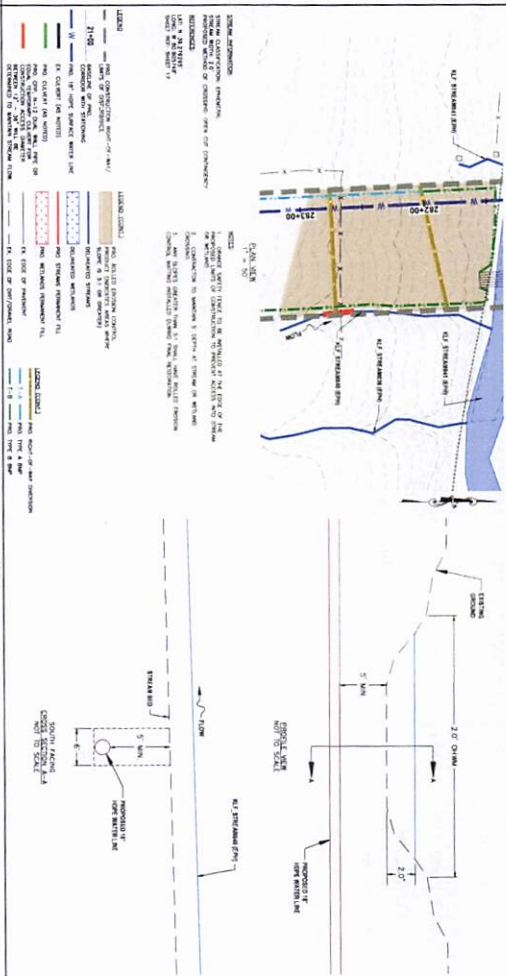
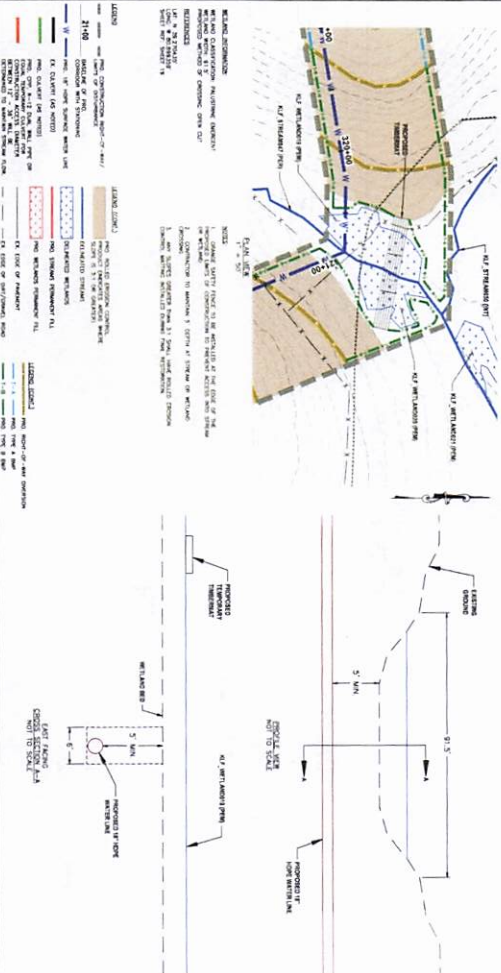
SUMMARY OF MATERIALS (3D)		SUMMARY OF MATERIALS (3D)	
NO.	DESCRIPTION	NO.	DESCRIPTION
1	REVISED PER COMMENTS FROM ANTERO	1	REVISED PER COMMENTS FROM ANTERO
2	REVISED PER COMMENTS FROM ANTERO	2	REVISED PER COMMENTS FROM ANTERO
3	REVISED PER COMMENTS FROM ANTERO	3	REVISED PER COMMENTS FROM ANTERO
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5	REVISED PER COMMENTS FROM ANTERO	5	REVISED PER COMMENTS FROM ANTERO
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18	REVISED PER COMMENTS FROM ANTERO	18	REVISED PER COMMENTS FROM ANTERO
19	REVISED PER COMMENTS FROM ANTERO	19	REVISED PER COMMENTS FROM ANTERO
20	REVISED PER COMMENTS FROM ANTERO	20	REVISED PER COMMENTS FROM ANTERO

GENERAL INFORMATION	
1.	THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF THE STREAM CROSSING AND WETLAND CROSSING ARE THE RESPONSIBILITY OF THE DESIGNER.
2.	THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3.	THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
4.	THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
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20.	THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

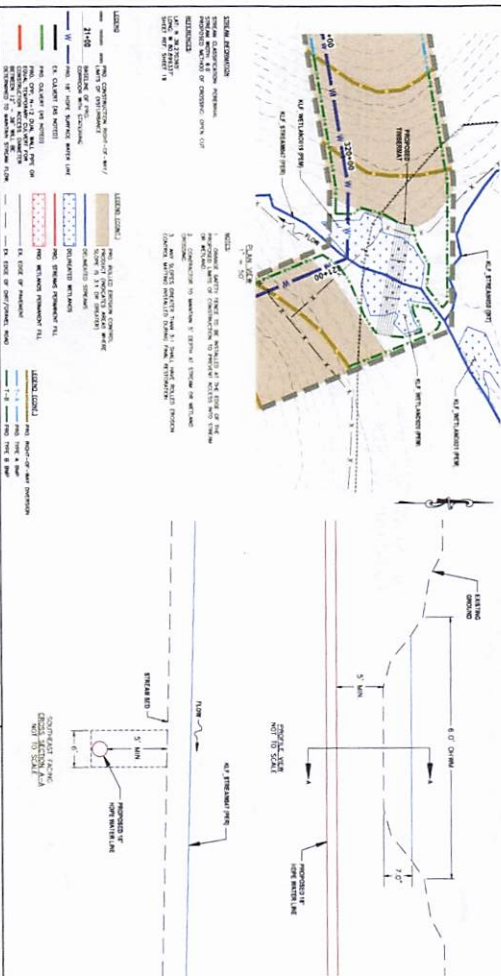
STREAM CROSSING
KLF_DOTSON RUN (PER) (CONTINGENCY CROSSING)



STREAM CROSSING
KLF_STREAM040 (EPH) (CONTINGENCY CROSSING)

WETLAND CROSSING
KLF_WETLAND019 (PEM)

STREAM CROSSING
KLF_STREAM047 (PER)



THIPAS/SHER

IFP

ISSUED FOR THE REPORTING

DATE: 10/21/2024

AF-E # A12768

SUMMARY OF MATERIALS (3D)

[illegible]

SUMMARY OF MATERIALS (3D)

	NO.	DESCRIPTION	D/T
		REVISION	
1	REVISED PER COMMENTS FROM ATLENTIDEA & AVT830	1/7/24	AC
2	REVISED PER COMMENTS FROM AVT830	1/6/24	AC
NO.		DCSOP#120N	D/E BT

GENERAL INFORMATION

- [illegible]

Antero
Midstream

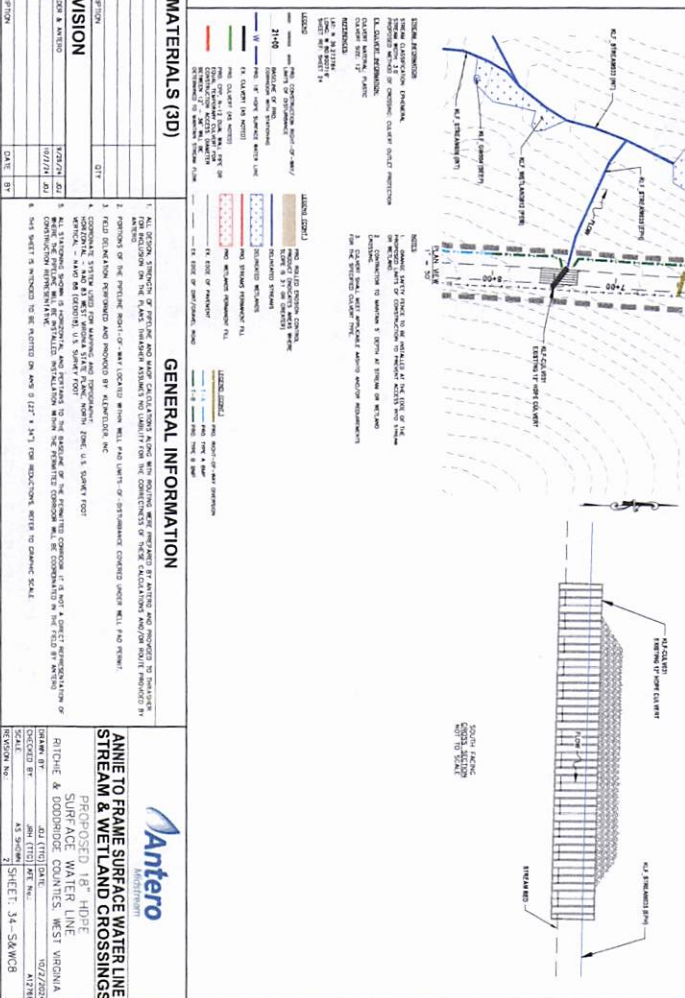
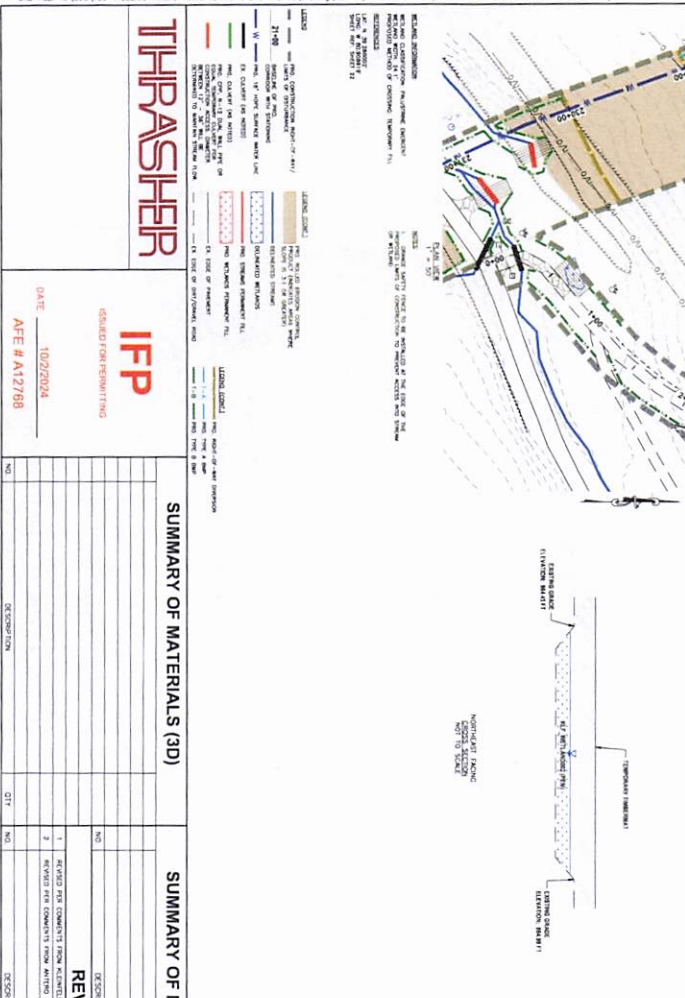
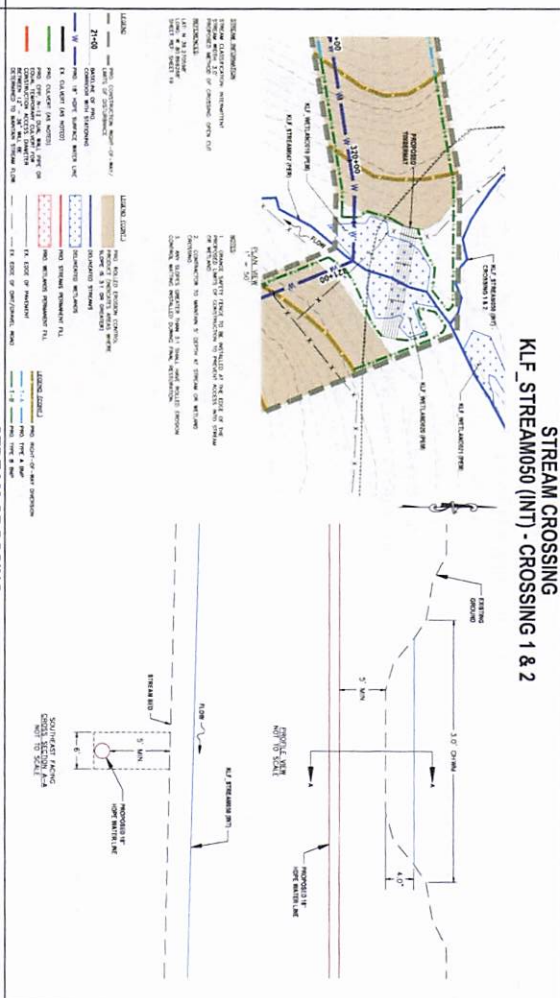
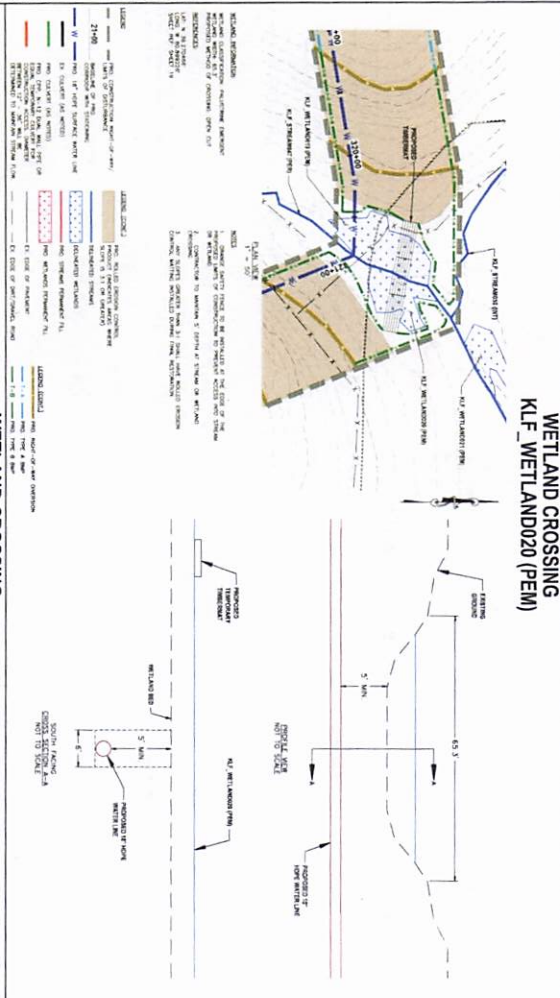
**ANNE TO FRAME SURFACE WATER LINE
STREAM & WETLAND CROSSINGS**

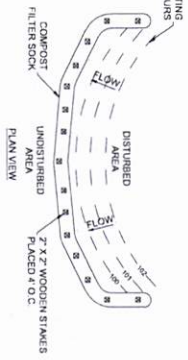
SURFACE WATER LINE

DATE	10/2/202
BY	
DATE	
BY	

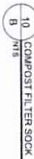
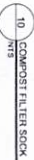
CHLORALD. BY	200 (110)	ML. NO.	MID. 2
SCALE:	AS 9100M	CURET. 11-CAVITY	

[illegible]

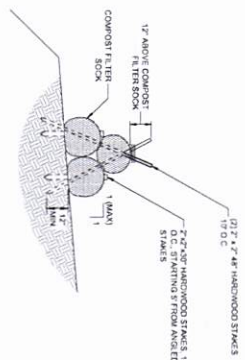




* STAKE SPACING MAY VARY DUE TO FIELD CONDITIONS AT TIME OF INSTALL.

[illegible]

Study Number	Study Design	Relative Risk (Long Term) (Long Term)			
		10 Year Survival (%)	10 Year Survival (%)	10 Year Survival (%)	10 Year Survival (%)
1	Retrospective	100	100	100	100
2	Retrospective	100	100	100	100
3	Retrospective	100	100	100	100
4	Retrospective	100	100	100	100
5	Retrospective	100	100	100	100
6	Retrospective	100	100	100	100
7	Retrospective	100	100	100	100
8	Retrospective	100	100	100	100
9	Retrospective	100	100	100	100
10	Retrospective	100	100	100	100
11	Retrospective	100	100	100	100
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43	Retrospective	100	100	100	100
44	Retrospective	100	100	100	100
45	Retrospective	100	100	100	100
46	Retrospective	100	100	100	100
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49	Retrospective	100	100	100	100
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69	Retrospective	100	100	100	100
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97	Retrospective	100	100	100	100
98	Retrospective	100	100	100	100
99	Retrospective	100	100	100	100
100	Retrospective	100	100	100	100



IFP

ISSUED FOR PERMITTING

DATE 10/2/2024

SUMMARY OF MATERIALS (3D)

REVISION		REVISION DATE	BY
NO.			
1	ISSUED FOR COMMENTS FROM KLEINFELDER & MATTHEW	8/26/2018	AS
2	ISSUED FOR COMMENTS FROM MATTHEW	10/22/2018	AS
NO.			
NO.			

GENERAL INFORMATION

- ALL DESIGN STRENGTHS OF PIPES AND WARE CALCULATIONS ALONG WITH ROUTING WERE PROVIDED BY AUTOLAND AND PROVIDED FOR INCLUSION ON THE PLANS. INSURANCE ASSISTS IN LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR THE DESIGN. AUTOLAND / SPECIALTIONS / PLACEMENT OF BMP MAY VARY BASED ON FIELD CONDITIONS TO MAINTAIN EFFECTIVENESS. THIS SHEET IS INTENDED TO BE PLOTTED ON AYS 0 (27' x 34') FOR REDUCTIONS, BOTH TO GRAPHIC SCALE.

**ANNIE TO FRAME SURFACE WATER LINE
ESCP DETAILS**

PROPOSED 18 INCH SURFACE WATER LINE			
RITCHIE & DODDRIDGE COUNTIES, WEST VIRGINIA			
DRAWN BY	JUL (TTC)	DATE	10/2/2024
CHECKED BY	JUL (TTC)	APP. No.	A17288
SCALE	AS SHOWN		
REVISION No.	2	SHEET: 38-ESCP4	

29 TEMPORARY SEEDING CHART

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

30
A
NTS

[illegible]

PERMANENT SEEDING CHART (CONT.)

Dose: 100 mg per day		Dose: 200 mg per day	
Control	5%	Control	5%
Chronic Therapy	26%	Chronic Therapy	26%
Chromoglycate	16%	Chromoglycate	16%
Unlabeled Tidal	5%	Unlabeled Tidal	5%
Unlabeled Cold	5%	Unlabeled Cold	5%
Unlabeled Flu	5%	Unlabeled Flu	5%
Unlabeled Sinusitis	5%	Unlabeled Sinusitis	5%
Acute Cough	5%	Acute Cough	5%
Total of all nasal spray trials: 600 patients		Total of all nasal spray trials: 600 patients	

31 LINE, FERTILIZER, AND MULCH CHARTS



IFP

ISSUED FOR PERMITTING

DATE 10/2/2024

SUMMARY OF MATERIALS (3D)

[illegible]

SUMMARY OF MATERIALS (3D)

REVISION		DESCRIPTION	DATE	BY
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GENERAL INFORMATION

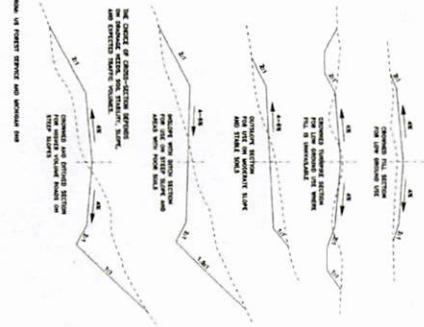
1. ALL DESIGN, STRUCTURE OF PIPELINE AND WATER CALCULATIONS ALONG WITH SOILTING WERE PREPARED BY AUTHORS AND PROVIDED TO THE CLIENTS. THE CLIENTS MANAGER ESTIMATES NO LIABILITY FOR THE CORRECTNESS OF THESE CALCULATIONS AND/OR SOILING ACTIVITIES.
2. INSTALLATION / SPECIFICATION / PLACEMENT OF BUMP MATS WERE BASED ON FIELD CONDITIONS TO ACHIEVE EFFECTIVENESS.
3. THIS SHEET IS ATTACHED TO BE PLOTTED ON A4S 0 (27" x 34") FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

**ANNIE TO FRAME SURFACE WATER LINE
ESCP DETAILS**

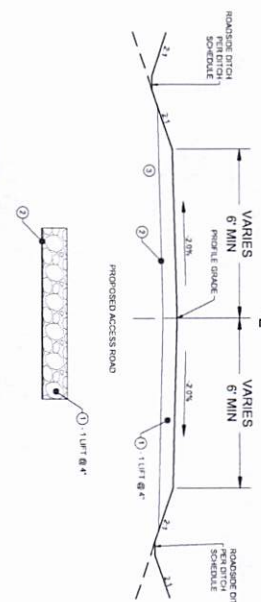
PROPOSED 18 HOLE
SURFACE WATER LINE
RITCHIE & DODDRIDGE COUNTIES, WEST VIRGINIA

DRAWN BY	JUL (TTC)	DATE	10/21/2001
CHECKED BY	JUL (TTC)	APP. NO.	A1234
SCALE	AS SHOWN		
REVISION No.	2	SHEET:	42-ESCPB

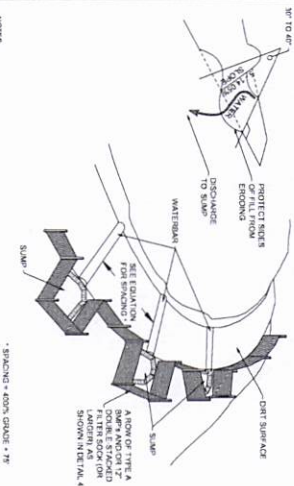
32 TYPES OF ROAD CROSS-SECTIONS



33 ACCESS ROAD TYPICAL SECTION
NTS



34 PAUL ROAD DETAIL
NTS



1. SWITCHES SHOULD BE INSTALLED ACROSS THE ENTIRE ROADWAY ON ALL PORTS GREATER THAN 5%.
2. MATERIALS SHALL BE PLACED IN A 15' TO 20' DEEP DOWNHILL. THEY SHALL BE PLACED AT THE DOWNHILL END OF THE ROAD AND ON A SLOPE OF 1% TO 2% TO PROVIDE FOR DRAINAGE.
3. THE ROADWAYS SHOULD BE REINFORCED WITH A 12" THICK CONCRETE SLAB. THE REINFORCEMENT SHOULD BE PLACED IN THE DOWNHILL END OF THE ROADWAY. MATERIALS SHOULD BE PLACED AT THE DOWNHILL END OF THE ROADWAY.
4. MATERIALS SHOULD BE PLACED IN A 15' TO 20' DEEP DOWNHILL.
5. MATERIALS SHALL BE PLACED IN A 15' TO 20' DEEP DOWNHILL. THEY SHALL BE PLACED AT THE DOWNHILL END OF THE ROAD AND ON A SLOPE OF 1% TO 2% TO PROVIDE FOR DRAINAGE.
6. MATERIALS SHALL BE PLACED IN A 15' TO 20' DEEP DOWNHILL. THEY SHALL BE PLACED AT THE DOWNHILL END OF THE ROAD AND ON A SLOPE OF 1% TO 2% TO PROVIDE FOR DRAINAGE.

THIRASHEER

IFP

ISSUED FOR PERMITTING

DATE: 10/2/2024

AFE # A12768

SUMMARY OF MATERIALS (3D)

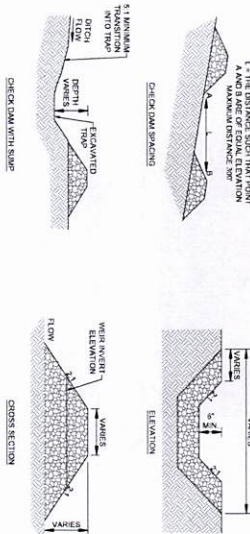
SUMMARY OF MATERIALS (3D)

GENERAL INFORMATION

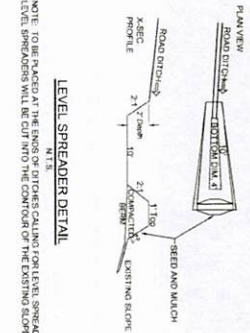
ANTERO
WATER

PROPOSED 18" HOPE
SPREADER
BUTHE & DODD-BROOK COUNTRIES, WEST VIRGINIA
CHECKED BY: JAL (TJO) DATE: 10/2/2024
SCALE: AS SHOWN SHEET: 43-ESCP9

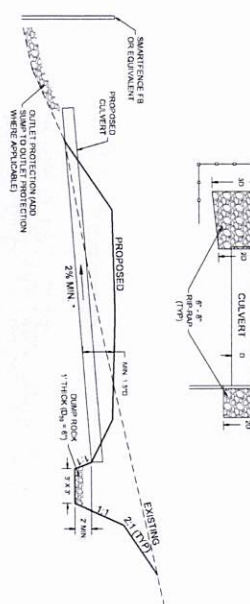
NOTES:
1. THE DISTANCE FROM THE EXISTING DITCH TO THE PROPOSED DITCH SHALL BE A MINIMUM OF 10 FEET.
2. THE DISTANCE FROM THE EXISTING DITCH TO THE PROPOSED DITCH SHALL BE A MINIMUM OF 10 FEET.
3. THE DISTANCE FROM THE EXISTING DITCH TO THE PROPOSED DITCH SHALL BE A MINIMUM OF 10 FEET.



NOTES:
1. THE DISTANCE FROM THE EXISTING DITCH TO THE PROPOSED DITCH SHALL BE A MINIMUM OF 10 FEET.
2. THE DISTANCE FROM THE EXISTING DITCH TO THE PROPOSED DITCH SHALL BE A MINIMUM OF 10 FEET.
3. THE DISTANCE FROM THE EXISTING DITCH TO THE PROPOSED DITCH SHALL BE A MINIMUM OF 10 FEET.



NOTES:
1. THE DISTANCE FROM THE EXISTING DITCH TO THE PROPOSED DITCH SHALL BE A MINIMUM OF 10 FEET.
2. THE DISTANCE FROM THE EXISTING DITCH TO THE PROPOSED DITCH SHALL BE A MINIMUM OF 10 FEET.
3. THE DISTANCE FROM THE EXISTING DITCH TO THE PROPOSED DITCH SHALL BE A MINIMUM OF 10 FEET.



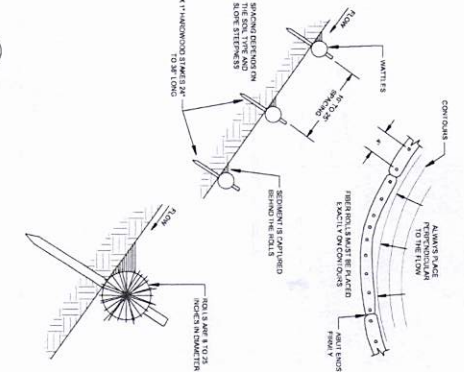
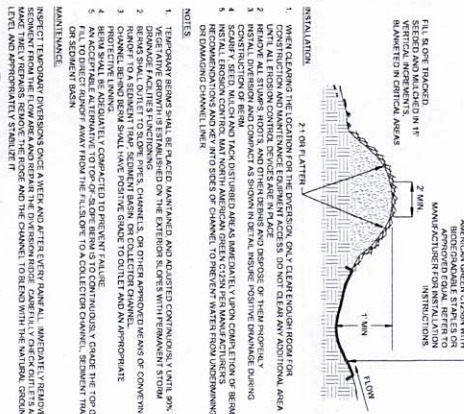
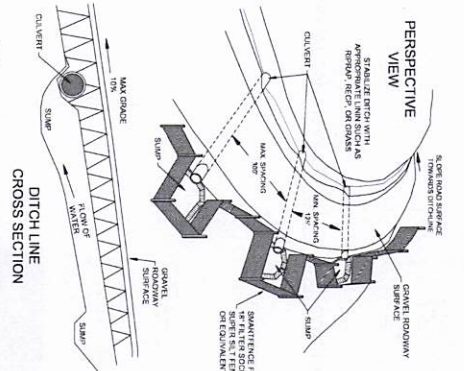
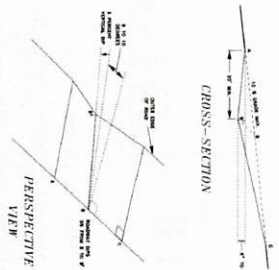
35. BRICK DRAIN PIPE

36. EROSION AND SEDIMENT CONTROL FOR ACCESS ROADS AND DRIVEWAYS

37. TEMPORARY EROSION CONTROL FOR OPEN SITE WATER

38. WHITTIES

ITEM	QUANTITY	UNIT	PRICE	TOTAL
1. 18" HOPE	1	LINEAL FOOT	100.00	100.00
2. 18" HOPE	1	LINEAL FOOT	100.00	100.00
3. 18" HOPE	1	LINEAL FOOT	100.00	100.00
4. 18" HOPE	1	LINEAL FOOT	100.00	100.00
5. 18" HOPE	1	LINEAL FOOT	100.00	100.00
6. 18" HOPE	1	LINEAL FOOT	100.00	100.00
7. 18" HOPE	1	LINEAL FOOT	100.00	100.00
8. 18" HOPE	1	LINEAL FOOT	100.00	100.00
9. 18" HOPE	1	LINEAL FOOT	100.00	100.00
10. 18" HOPE	1	LINEAL FOOT	100.00	100.00



THIRASHER

IFP

ISSUED FOR PERMITTING

DATE: 10/2/2024

AEE # A12788

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

NO. DESCRIPTION

NO. DESCRIPTION

DATE BY

GENERAL INFORMATION

1. ALL DESIGN, SURVEYING, OR PREPARED AND MAP, DATA, RECORDS, AND/OR INFORMATION PROVIDED TO THE CONTRACTOR BY THE OWNER SHALL BE THE PROPERTY OF THE OWNER AND SHALL REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL NOT REPRODUCE, COPY, OR DISSEMINATE ANY INFORMATION CONTAINED HEREIN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES.

Antero

ANNE TO FRAME SURFACE WATER LINE

ESCP DETAIL SHEET

PROPOSED 18" HOPE SURFACE WATER LINE

IN THE & DOORHOLE DOORWAYS, WEST VIRGINIA

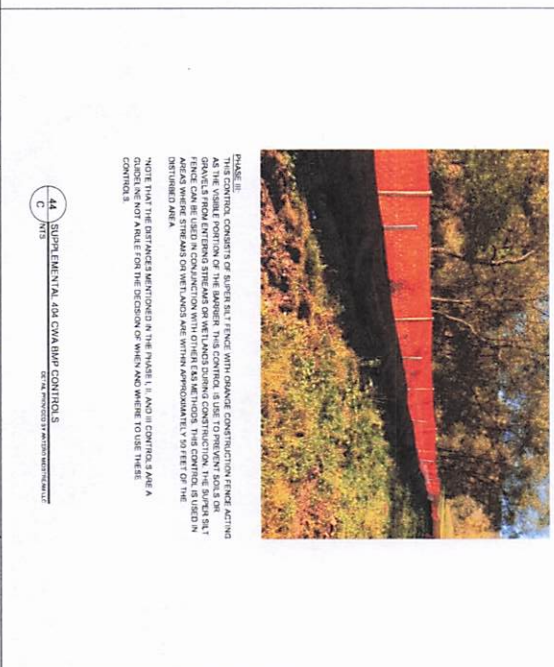
DESIGNED BY: J. JENKINS

CHECKED BY: J. JENKINS

DATE: 10/2/2024

SCALE: AS SHOWN

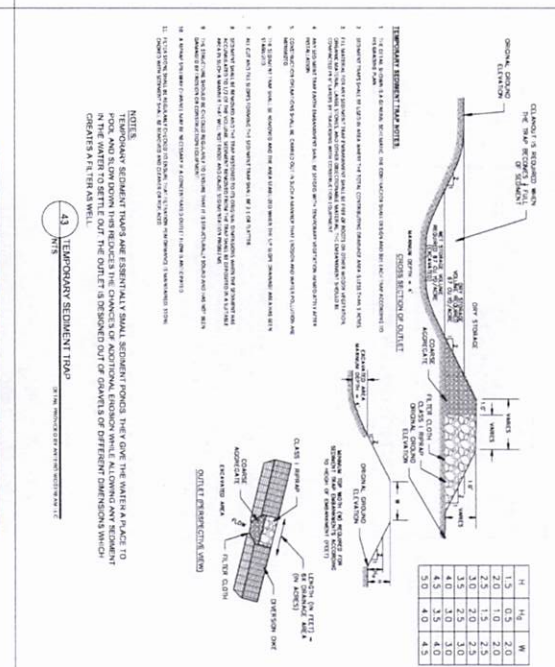
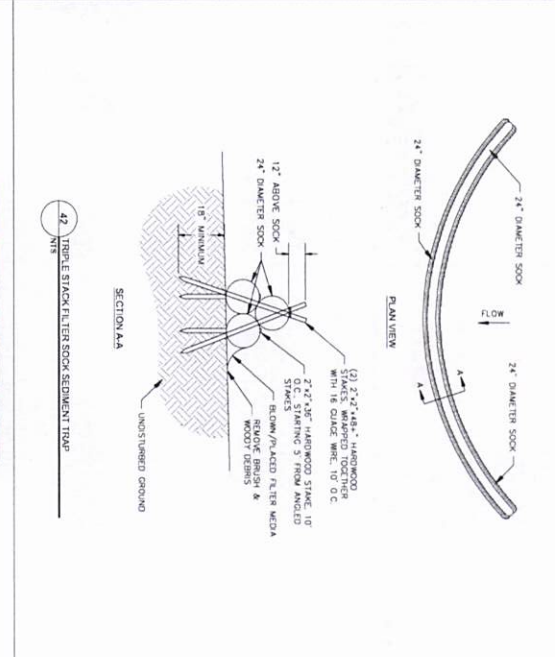
SHEET: 44 - ESCP10



PHASE 11:
CONSTRUCTION OF RIPRAP AND STONE FILTER SOCK. THE RIPRAP SHALL BE PLACED IN THE CHANNEL AND THE STONE FILTER SOCK SHALL BE PLACED IN THE CHANNEL. THE RIPRAP SHALL BE PLACED IN THE CHANNEL AND THE STONE FILTER SOCK SHALL BE PLACED IN THE CHANNEL. THE RIPRAP SHALL BE PLACED IN THE CHANNEL AND THE STONE FILTER SOCK SHALL BE PLACED IN THE CHANNEL.

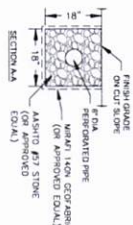
PHASE 12:
CONSTRUCTION OF RIPRAP AND STONE FILTER SOCK. THE RIPRAP SHALL BE PLACED IN THE CHANNEL AND THE STONE FILTER SOCK SHALL BE PLACED IN THE CHANNEL. THE RIPRAP SHALL BE PLACED IN THE CHANNEL AND THE STONE FILTER SOCK SHALL BE PLACED IN THE CHANNEL. THE RIPRAP SHALL BE PLACED IN THE CHANNEL AND THE STONE FILTER SOCK SHALL BE PLACED IN THE CHANNEL.

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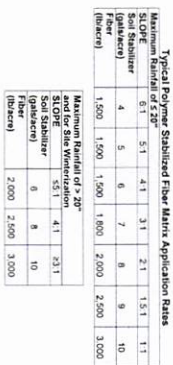
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PHASE 14:
CONSTRUCTION OF RIPRAP AND STONE FILTER SOCK. THE RIPRAP SHALL BE PLACED IN THE CHANNEL AND THE STONE FILTER SOCK SHALL BE PLACED IN THE CHANNEL. THE RIPRAP SHALL BE PLACED IN THE CHANNEL AND THE STONE FILTER SOCK SHALL BE PLACED IN THE CHANNEL. THE RIPRAP SHALL BE PLACED IN THE CHANNEL AND THE STONE FILTER SOCK SHALL BE PLACED IN THE CHANNEL.



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NOTE



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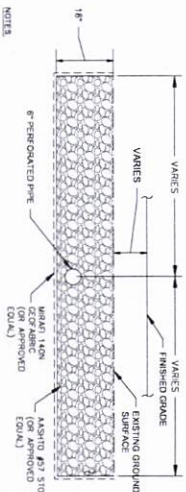
ISSUED FOR PERMITTING

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

GENERAL INFORMATION

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57

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SEE
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GENERAL INFORMATION

APPENDIX C
NATIONAL STREAMFLOW STATISTICS (NSS)
DOTSON RUN
DODDRIDGE COUNTY, WV

Dotson Run Crossing #1

Legend

Basins

Layers

Basemaps

Input Coordinate

examples:
38 15 30.1, -81 25 15.2 (lat, lon)
38.123456, -81.123456 (lat, lon)
500000, 4200000 (UTM as easting, northing)

39 16 36.05, -80 54 21.88

Lat/Lon WGS 1984

zoom to point

Go

7Q10 Query Results

Stream Name	Dotson Run
Stream Code	OLK-31-L-63
WV Code	WV LKH-10-FF
Drainage Area	3,832 sq mi

Exceptions and Warnings

Regulated Flow	N
Regulated Flow Info	NA
Known Losing Stream	N
Potential Karst Influence	N
Potential Non-Perennial	N

Gage-based Estimates

Method	
Upstream Gage	
Downstream Gage	
Annual 7Q10	cfs
Spring 7Q10	cfs
Summer 7Q10	cfs
Fall 7Q10	cfs
Winter 7Q10	cfs

Regional Estimates

Annual 7Q10	0.001 cfs
Spring 7Q10	0.030 cfs
Summer 7Q10	0.001 cfs
Fall 7Q10	0.006 cfs
Winter 7Q10	0.253 cfs
Spring D50	1.438 cfs
Summer D50	0.104 cfs
Fall D50	0.555 cfs
Winter D50	3.762 cfs
D75	0.167 cfs
Harmonic Mean	0.061 cfs

Guidance:

This stream is not proximate to a stream gage. Use the regional estimate.

flow calculation methods



Dotson Run Crossing #1

NSS Report

September 24, 2024 03:47PM

Study Area:

West Virginia

Statistic Group(s):

Peak-Flow Statistics

Regression Region(s):

Peak_Flow_Central_Mountains_Region_2010_5033

Peak-Flow Statistics

Peak_Flow_Central_Mountains_Region_2010_5033 Region

Drainage Area = 3.832 (mi²)

[SEe, Standard Error of Estimate; SEp, Standard Error of Prediction; SE, Standard Error (other -- see report)]

Peak_Flow_Central_Mountains_Region_2010_5033 Region	Value	Errors (%)	Equivalent Yrs.
Description	(ft ³ /s)	ASEp	
Maximum instantaneous flow that occurs with a 1% annual exceedance probability (PK1AEP)	870	47.9	5.6

Citations

Wiley, J.B., and Atkins, J.T., Jr.,
2010, Estimation of flood-frequency discharges for rural, unregulated streams in West Virginia: U.S.
Geological Survey Scientific Investigations Report 2010-5033, 78 p.

Appendix

Equations

Peak_Flow_Central_Mountains_Region_2010_5033

$$PK1AEP = 297 \cdot DRNAREA^{0.800}$$

Explanatory Variable Definitions

Name	Abbrev	Description
Drainage Area	DRNAREA	Area that drains to a point on a stream

Unit Types

Abbrev	Unit
(mi ²)	square miles

Dotson Run Crossing #2

Basins Layers Basemaps

Legend

Input Coordinate

examples: 38 15 30.1, -81 25 15.2 (lat, lon)
38.123456, -81.123456 (lat, lon)
500000, 4200000 (UTM as easting, northing)

39 16 29.30, -80 53 57.56

Lat/Lon WGS 1984

zoom to point

Go

7Q10 Query Results

Stream Name	Dotson Run
Stream Code	OLK-31-L-63
WV Code	WVLRH-10-FF
Drainage Area	3,058 sq mi

Exceptions and Warnings

Regulated Flow	N
Known Losing Stream	MA
Potential Karst Influence	N
Potential Non-Perennial	N

Gage-based Estimates

Method	
Upstream Gage	
Downstream Gage	
Annual 7Q10	cfs
Spring 7Q10	cfs
Summer 7Q10	cfs
Fall 7Q10	cfs
Winter 7Q10	cfs

Regional Estimates

Annual 7Q10	0.001 cfs
Spring 7Q10	0.023 cfs
Summer 7Q10	0.001 cfs
Fall 7Q10	0.005 cfs
Winter 7Q10	0.197 cfs
Spring D50	1.129 cfs
Summer D50	0.078 cfs
Fall D50	0.430 cfs
Winter D50	2.951 cfs
D75	0.128 cfs
Harmonic Mean	0.047 cfs

Guidance:

This stream is not proximate to a stream gage. Use the regional estimate.

flow calculation methods



Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

0.4km
0.2mi

Dotson Run Crossing #2

NSS Report

September 24, 2024 03:47PM

Study Area:

West Virginia

Statistic Group(s):

Peak-Flow Statistics

Regression Region(s):

Peak_Flow_Central_Mountains_Region_2010_5033

Peak-Flow Statistics

Peak_Flow_Central_Mountains_Region_2010_5033 Region

Drainage Area = 3.058 (mi²)

[SEe, Standard Error of Estimate; SEp, Standard Error of Prediction; SE, Standard Error (other -- see report)]

Peak_Flow_Central_Mountains_Region_2010_5033 Region	Value	Errors (%)	Equivalent Yrs.
Description	(ft ³ /s)	ASEp	
Maximum instantaneous flow that occurs with a 1% annual exceedance probability (PK1AEP)	726	47.9	5.6

Citations

Wiley, J.B., and Atkins, J.T., Jr.,
2010, Estimation of flood-frequency discharges for rural, unregulated streams in West Virginia: U.S.
Geological Survey Scientific Investigations Report 2010–5033, 78 p.

Appendix

Equations

Peak_Flow_Central_Mountains_Region_2010_5033

$$PK1AEP = 297 \cdot DRNAREA^{0.800}$$

Explanatory Variable Definitions

Name	Abbrev	Description
Drainage Area	DRNAREA	Area that drains to a point on a stream

Unit Types

Abbrev	Unit
(mi ²)	square miles

APPENDIX D

HEC-RAS FLOW COMPARISON – EXCEL SHEET
DOTSON RUN
DODDRIDGE COUNTY, WV

HEC-RAS River :Dotson Run Crossing 1 Profile: PF 1						
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev
				(cfs)	(ft)	(ft)
Reach 1	484	PF 1	Prop 100 yr	870	803.81	806.71
Reach 1	484	PF 1	Ex 100 yr	870	803.81	806.71
Reach 1	406	PF 1	Prop 100 yr	870	803.81	806.26
Reach 1	406	PF 1	Ex 100 yr	870	803.81	806.25
Reach 1	317	PF 1	Prop 100 yr	870	803.81	805.93
Reach 1	317	PF 1	Ex 100 yr	870	803.81	805.92
Reach 1	296			Bridge		
Reach 1	266	PF 1	Prop 100 yr	870	803.81	805.62
Reach 1	266	PF 1	Ex 100 yr	870	803.81	805.62
Reach 1	181	PF 1	Prop 100 yr	870	800.53	805.33
Reach 1	181	PF 1	Ex 100 yr	870	800.53	805.33
Reach 1	124	PF 1	Prop 100 yr	870	800.53	803.65
Reach 1	124	PF 1	Ex 100 yr	870	800.53	803.65
Reach 1	45	PF 1	Prop 100 yr	870	800.53	804.12
Reach 1	45	PF 1	Ex 100 yr	870	800.53	804.12

HEC-RAS River :Dotson Run Crossing 2 Profile: PF 1						
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev
				(cfs)	(ft)	(ft)
Reach 1	629	PF 1	Prop 100yr	726	813.66	818.42
Reach 1	629	PF 1	EX 100yr	726	813.66	818.38
Reach 1	600			Bridge		
Reach 1	571	PF 1	Prop 100yr	726	813.66	818.28
Reach 1	571	PF 1	EX 100yr	726	813.66	818.28
Reach 1	527	PF 1	Prop 100yr	726	813.66	818.2
Reach 1	527	PF 1	EX 100yr	726	813.66	818.2
Reach 1	471			Bridge		
Reach 1	438	PF 1	Prop 100yr	726	813.66	817.63
Reach 1	438	PF 1	EX 100yr	726	813.66	817.63
Reach 1	314	PF 1	Prop 100yr	726	813.66	817.51
Reach 1	314	PF 1	EX 100yr	726	813.66	817.51
Reach 1	218	PF 1	Prop 100yr	726	813.66	817.46
Reach 1	218	PF 1	EX 100yr	726	813.66	817.46
Reach 1	58	PF 1	Prop 100yr	726	813.66	817.23
Reach 1	58	PF 1	EX 100yr	726	813.66	817.23



This is to certify that I am a duly qualified registered professional engineer licensed to practice in the State of West Virginia.

It is further to certify that based on the information provided to me, and the attached technical data supports the fact, the floodplain encroachments for the Patriot to Lynn Camp Surface Water Line – Cabin Run Crossing of a proposed 18" HDPE surface water line will not impact the 100-year flood elevation of Cabin Run at the published section in the Flood Insurance Study for Ritchie County (Community ID 540224) effective February 2, 2012 and will not impact the 100-year flood elevation at unpublished cross-sections in the vicinity of the proposed development. Work to be performed within the floodplain limits that was considered during the evaluation includes temporary disturbances associated with staging areas, equipment and supplies, stream crossing with a timber matting bridge with a jersey barrier/pier within the stream channel, and permanent improvements consisting of proposed subsurface 18" HDPE surface water line inside the stream channels and surface lines outside of the channels.

The proposed improvements will have a stream crossing located along Cabin Run. The crossing is located west of County Route 10/2 within Cabin Run south of Well Pad Road as shown on sheet 11 of the Permitting Plans included in this report in Attachment B. The total watershed (drainage basin) for the Cabin Run floodplain encroachments were shown to be 7.358 square miles, and maximum flows were calculated utilizing the National Streamflow Statistics (NSS) application available online. A Hydrologic Engineering Center's – River Analysis System (HEC-RAS) analysis was completed for both crossings, based on the drainage area above and associated flows, to verify that the proposed activities within the floodplain of Cabin Run will not adversely affect the adjacent properties. The flows compared for the affected area are attached.

Attached are the following documents that support my findings:

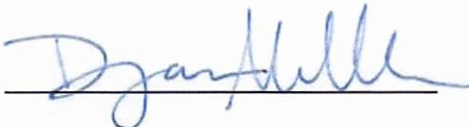
Attachment A: Maps of the Site from the West Virginia Flood Tool

Attachment B: Permitting Plans

Attachment C: National Streamflow Statistics – Drainage Area Flow

Attachment D: Comparison for Calculated Flows – HEC-RAS Excel Data

Date: October 5, 2024

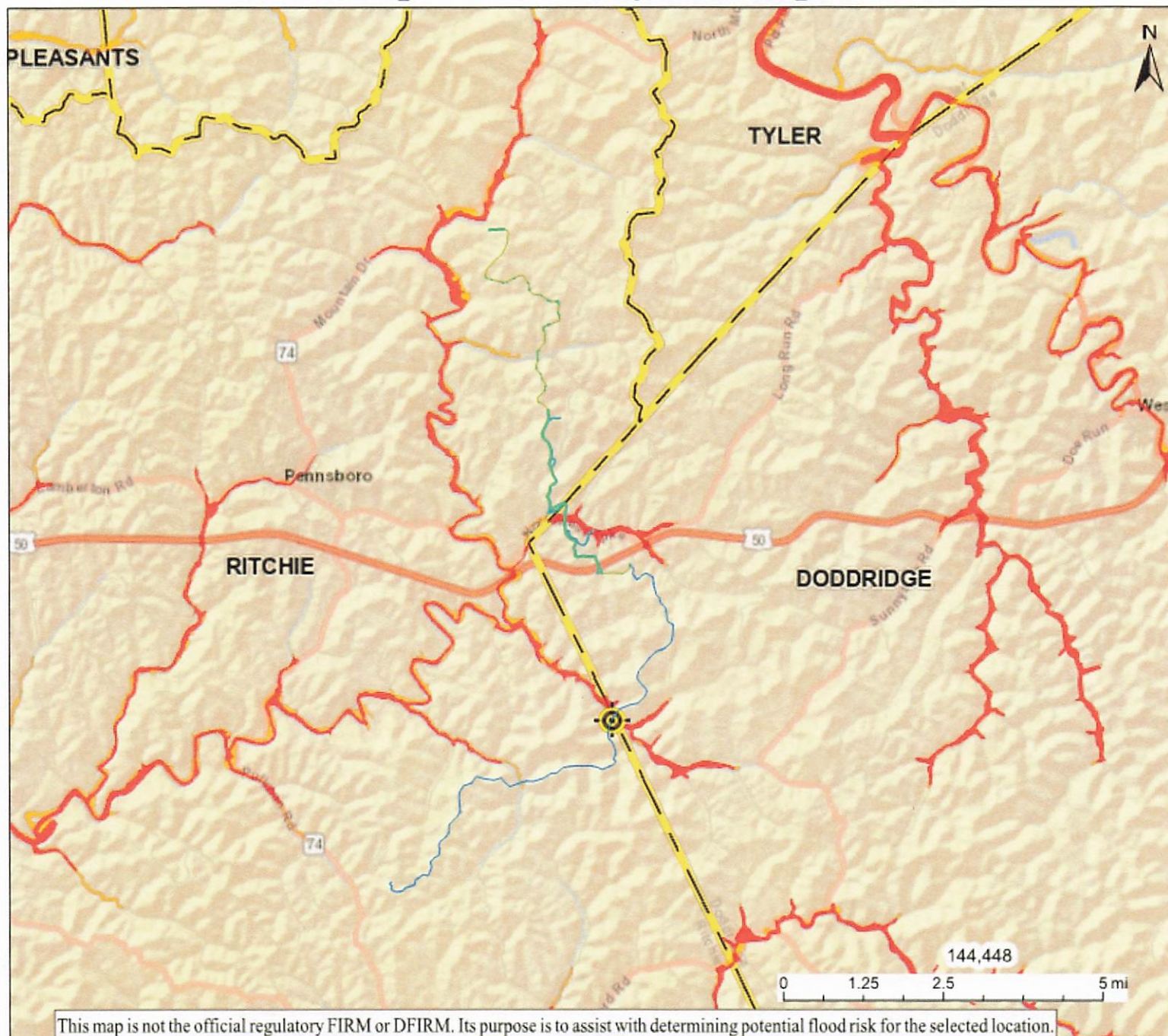
Signature: 

Title: Program Manager


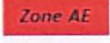





APPENDIX A
WV FLOOD TOOL MAPS

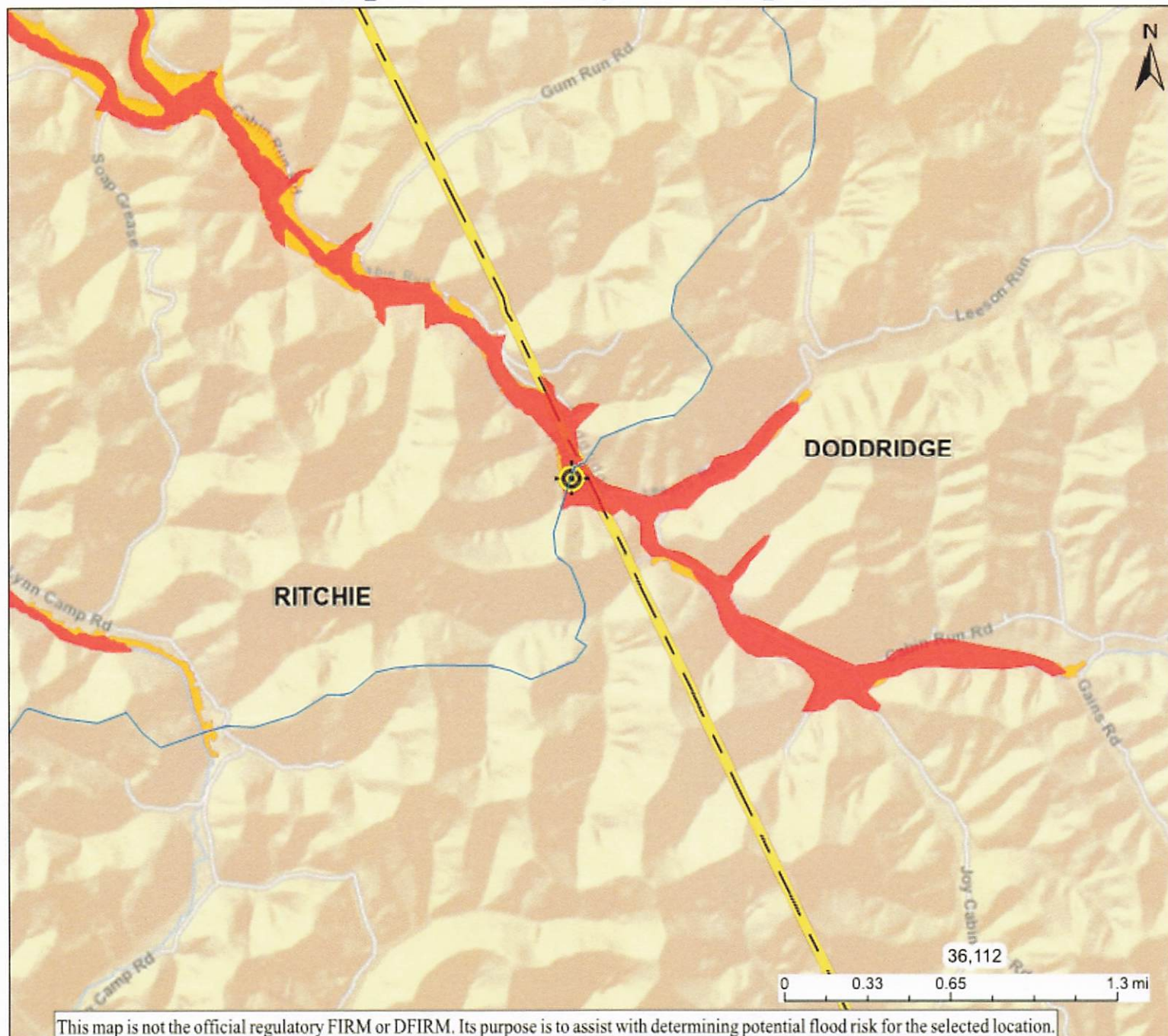
WV Flood Map-AnnieToLynnCamp-Overall



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

<p>HIGH RISK</p> <p> Regulatory Floodway</p> <p> 1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)</p> <p> 1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)</p> <p> 1-Percent-Annual-Chance Future Conditions (High Risk Advisory Flood Zones)</p> <p>Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf</p> <p>Disclaimer: The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.</p>	<p> Flood Info Location Map created on 9/23/2024</p> <p>User Notes</p> <table border="1"> <tr> <td>Flood Hazard Area</td><td>Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available.</td></tr> <tr> <td>Flood Zone</td><td>A (Advisory Flood Heights available)</td></tr> <tr> <td>Stream</td><td>Cabin Run</td></tr> <tr> <td>Watershed (HUC8)</td><td>Little Kanawha (5030203)</td></tr> <tr> <td>Flood Height</td><td>Flood Height 4 About 800.9 ft (Source: AFH) NAVD88</td></tr> <tr> <td>Water Depth</td><td>About 3.4 ft (Source: HEC-RAS)</td></tr> <tr> <td>Elevation</td><td>797.6 ft (Source: FEMA 2018-20) (NAVD88)</td></tr> <tr> <td>Community & ID</td><td>Ritchie County (ID: 540224)</td></tr> <tr> <td>FEMA Map & Date</td><td>54085C0225C; Effective Date: 2/2/2012</td></tr> <tr> <td>Location (lat, long)</td><td>(39.242194, -80.895240) (WGS84)</td></tr> <tr> <td>Parcel ID</td><td>43-03-0037-0001-0000</td></tr> <tr> <td>E-911 Address</td><td></td></tr> </table>	Flood Hazard Area	Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available.	Flood Zone	A (Advisory Flood Heights available)	Stream	Cabin Run	Watershed (HUC8)	Little Kanawha (5030203)	Flood Height	Flood Height 4 About 800.9 ft (Source: AFH) NAVD88	Water Depth	About 3.4 ft (Source: HEC-RAS)	Elevation	797.6 ft (Source: FEMA 2018-20) (NAVD88)	Community & ID	Ritchie County (ID: 540224)	FEMA Map & Date	54085C0225C; Effective Date: 2/2/2012	Location (lat, long)	(39.242194, -80.895240) (WGS84)	Parcel ID	43-03-0037-0001-0000	E-911 Address	
Flood Hazard Area	Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available.																								
Flood Zone	A (Advisory Flood Heights available)																								
Stream	Cabin Run																								
Watershed (HUC8)	Little Kanawha (5030203)																								
Flood Height	Flood Height 4 About 800.9 ft (Source: AFH) NAVD88																								
Water Depth	About 3.4 ft (Source: HEC-RAS)																								
Elevation	797.6 ft (Source: FEMA 2018-20) (NAVD88)																								
Community & ID	Ritchie County (ID: 540224)																								
FEMA Map & Date	54085C0225C; Effective Date: 2/2/2012																								
Location (lat, long)	(39.242194, -80.895240) (WGS84)																								
Parcel ID	43-03-0037-0001-0000																								
E-911 Address																									

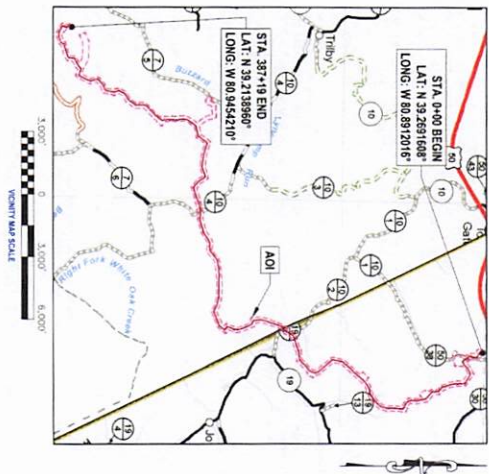
WV Flood Map-AnnieToLynnCamp-Cabin Run



This map is not the official regulatory FIRM or DFIRM. Its purpose is to assist with determining potential flood risk for the selected location.

H I G H R I S K		Regulatory Floodway	Flood Info Location		Map created on 9/23/2024
		1-Percent-Annual-Chance Flood Hazard Area With Base Flood Elevation (BFE)	User Notes		
		1-Percent-Annual-Chance Flood Hazard Area Without BFE (may have Advisory Flood Heights)	Flood Hazard Area	Location is WITHIN the FEMA 100-year floodplain. Advisory Flood Heights available.	
		1-Percent-Annual-Chance Future Conditions (High Risk Advisory Flood Zones)	Flood Zone	A (Advisory Flood Heights available)	
Download the Full Legend for all flood tool symbols https://www.mapwv.gov/flood/map/docs/wv_flood_tool_legend.pdf			Stream	Cabin Run	
Disclaimer: The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. Refer to the official Flood Insurance Study (FIS) for detailed flood elevation data in flood profiles and data tables. WV Flood Tool (https://www.MapWV.gov/flood) is supported by FEMA, WV NFIP Office, and WV GIS Technical Center.			Watershed (HUC8)	Little Kanawha (5030203)	
			Flood Height	Flood Height 4 About 800.9 ft (Source: AFH) NAVD88	
			Water Depth	About 3.4 ft (Source: HEC-RAS)	
			Elevation	797.6 ft (Source: FEMA 2018-20) (NAVD88)	
			Community & ID	Ritchie County (ID: 540224)	
			FEMA Map & Date	54085C0225C; Effective Date: 2/2/2012	
			Location (lat, long)	(39.242194, -80.895240) (WGS84)	
			Parcel ID	43-03-0037-0001-0000	
			E-911 Address		

APPENDIX B
PERMITTING PLANS



EXISTING INFORMATION SOURCES:

BASE, CONTOUR DATA PROVIDED BY OTHERS
ROUTE INFORMATION AND LOCATION PROVIDED BY ANTERO
SURVEY DATA, SPOT ELEVATIONS AND ALIGNMENT PROVIDED BY
THE THRASHER GROUP
800 WHITE OAK BLVD., 7th FLOOR
BROOKFIELD, WV 26001

REMARKS: ANTERO HAS OBTAINED NORTH ZONE US SURVEY FOOT
VERTICAL, NAVD 83 (GEOIDAL) US SURVEY FOOT
ROAD ELEVATIONS OBTAINED FROM WV GCM
(http://www.kbtopography.com/gcm)

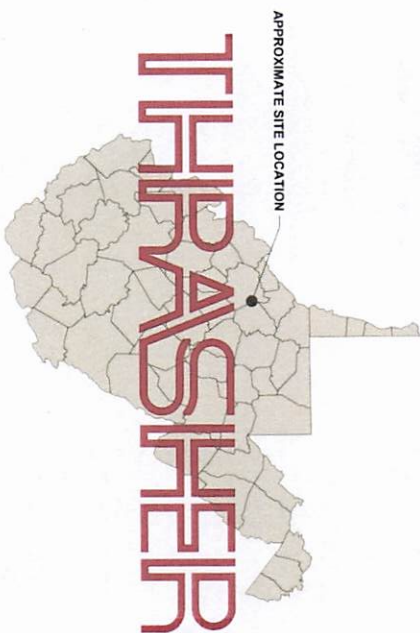
1:800-315-4488

TICKET #



CONTRACTOR SHALL NOTIFY THE GCM CALL SYSTEM OF THE ANTICIPATED EXCAVATION OR REMOVAL NOT LESS
THAN FORTY EIGHT (48) HOURS EXCEPTING SATURDAYS, SUNDAYS AND LEGAL, FEDERAL, OR STATE HOLIDAYS
NOT MORE THAN TEN (10) DAYS PRIOR TO THE BEGINNING OF SUCH WORK.
CALLER: GCM-11555.00-A12768

ANTERO MIDSTREAM ISSUED FOR PERMITTING PLANS FOR THE PATRIOT TO LYNN CAMP SWL PROPOSED 18" HDPE SURFACE WATER LINE AFE # A12768 101-T50-11555 DODDRIDGE & RITCHIE COUNTY, WV OCTOBER 2024



PHONE: (303) 357-7310 FAX: (303) 357-7315
1615 WYNDROP STREET
DENVER, CO 80202

ALIGNMENT SHEETS PREPARED BY

THE THRASHER GROUP
1615 WYNDROP STREET
DENVER, CO 80202
PO BOX 406
(303) 354-4106

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CLAYTON C. WHITE, WV P.E. # 24495

DATE: 10/2/24

BY: CCW



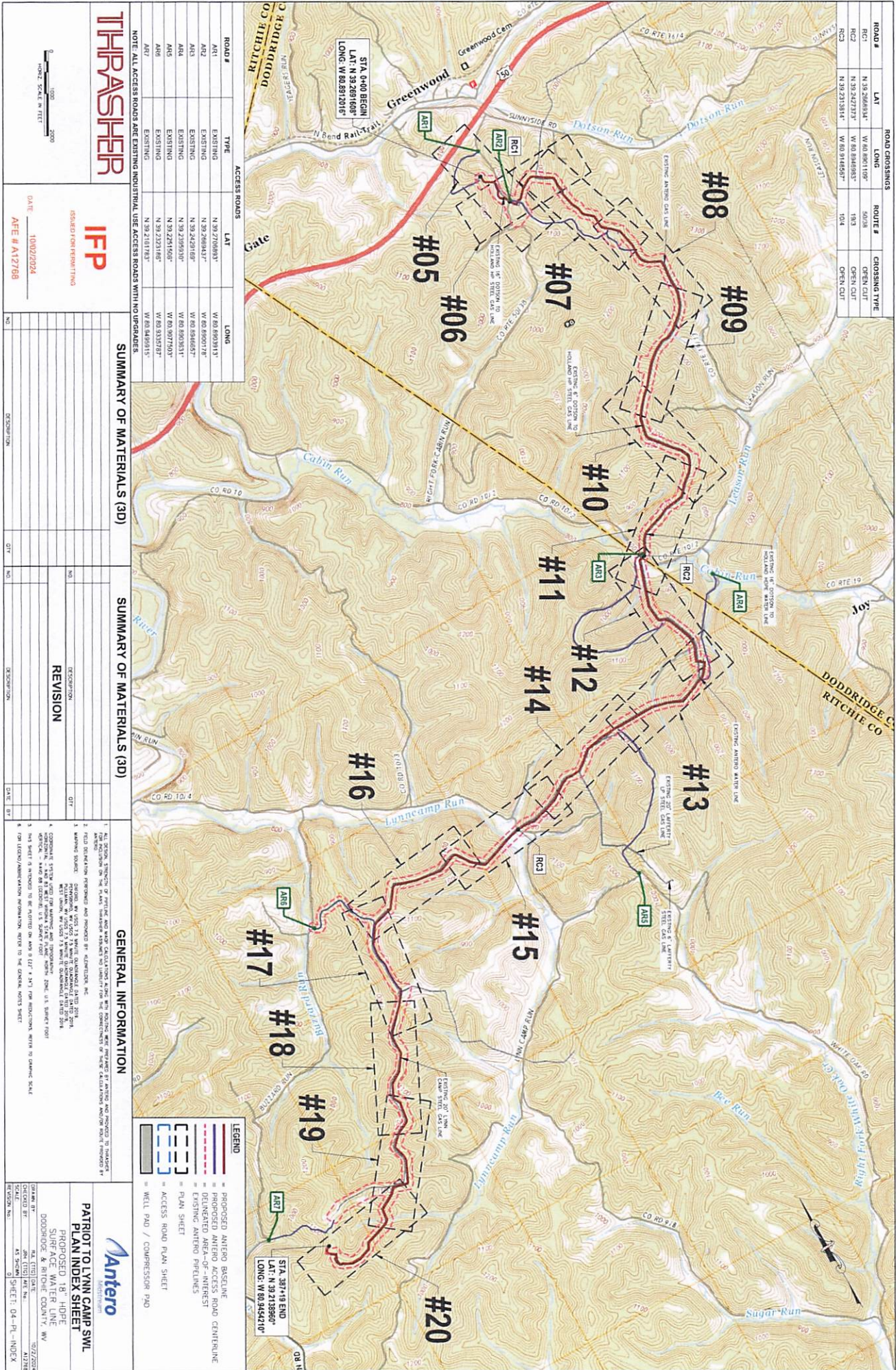
THIS PLAN SET DEPICTS THE NECESSARY INFORMATION FOR EROSION AND SEDIMENT CONTROL MEASURES AS
REQUIRED BY THE WEST VIRGINIA WATER PERMITTING PROCESS.
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DRAWN BY:	RJA. (TIC)	DATE:	10/2/2024
CHECKED BY:	JRH. (TIC)	AGE No:	A12785
SCALE:	AS SHOWN	SHEET: 03-SPECS	
REVISION No.:	0		

The right-of-way shall be diked, limed, seeded and fertilized during the clean-up operation; the contractor shall furnish the lime, seed and fertilizer when needed; fertilizing and liming must be done within 6 days of final clean up or as recommended by company environmental requirements.

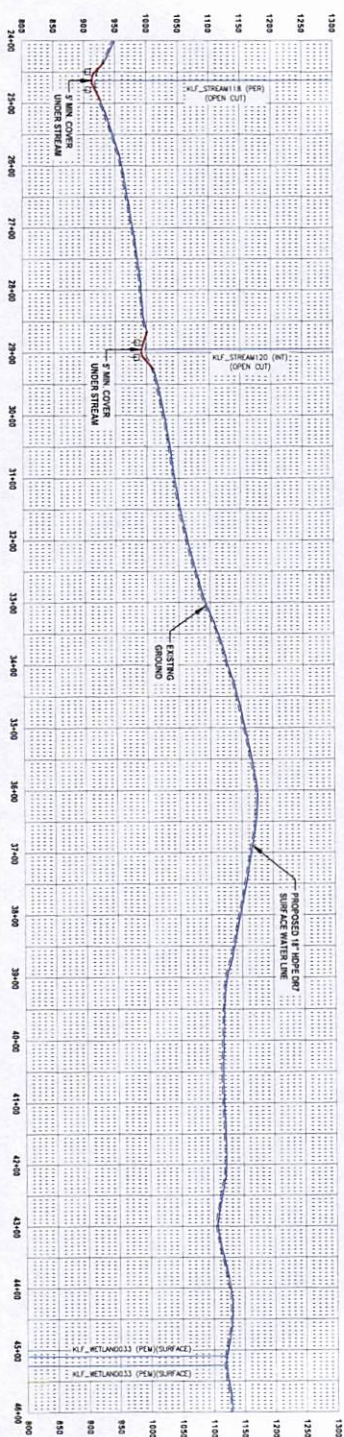
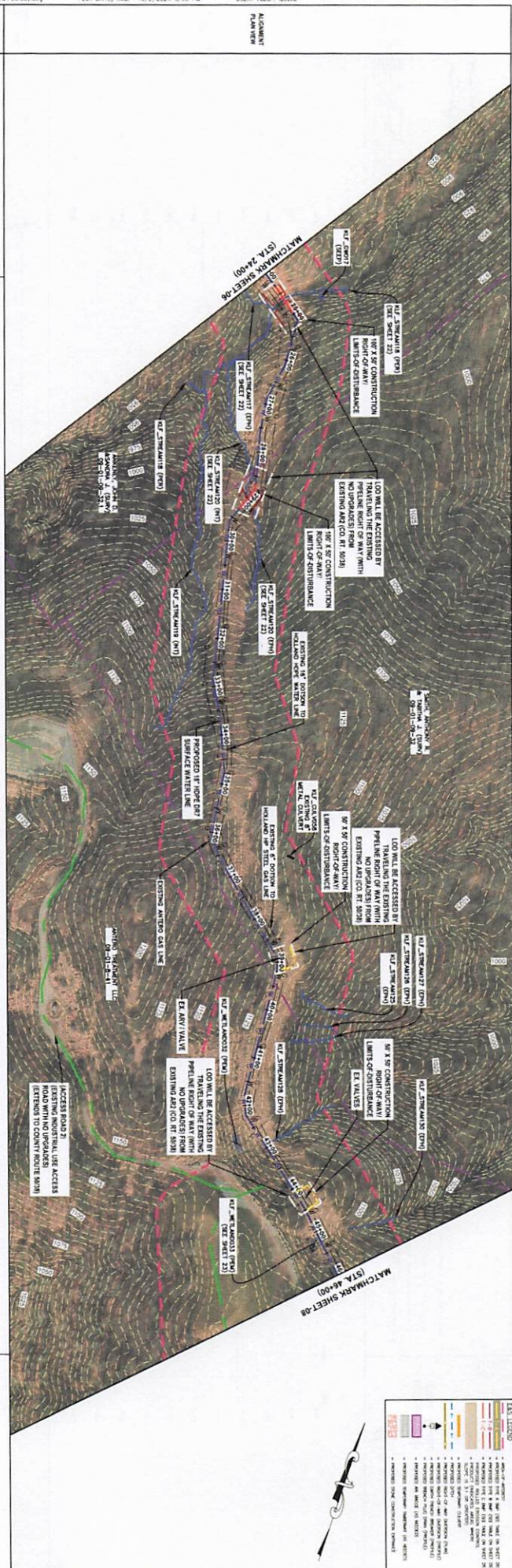
Pipeline workers shall be installed at points designated by the company during clean-up operations; the company shall furnish tie and aerial workers.

DRAWN BY:	RJA. (TIC)	DATE:	10/2/2024
CHECKED BY:	JRH. (TIC)	AGE No:	A12785
SCALE:	AS SHOWN	SHEET: 03-SPECS	
REVISION No.:	0		





PROPOSED 18" HDPE SURFACE WATER LINE DODD BRIDGE & RITCHIE COUNTY, WV	
DRAWN BY	R.A. (TTC) GAT
CHECKED BY	JOH (TTC) KEE
SCALE	AS SHOWN
REVISION No.	0
SHEET: 06-PLAN2	10/2/2024 A1288



THIRASHEP

IFP

ISSUED FOR PERMITTING

DATE: 10/02/2024

AFE # A1276

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

[illegible]

GENERAL INFORMATION

- [illegible]

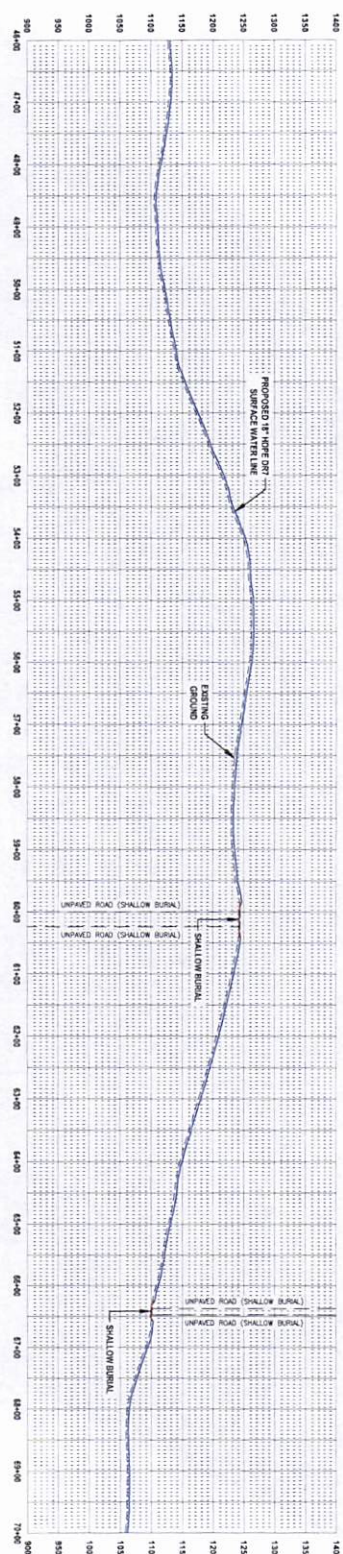
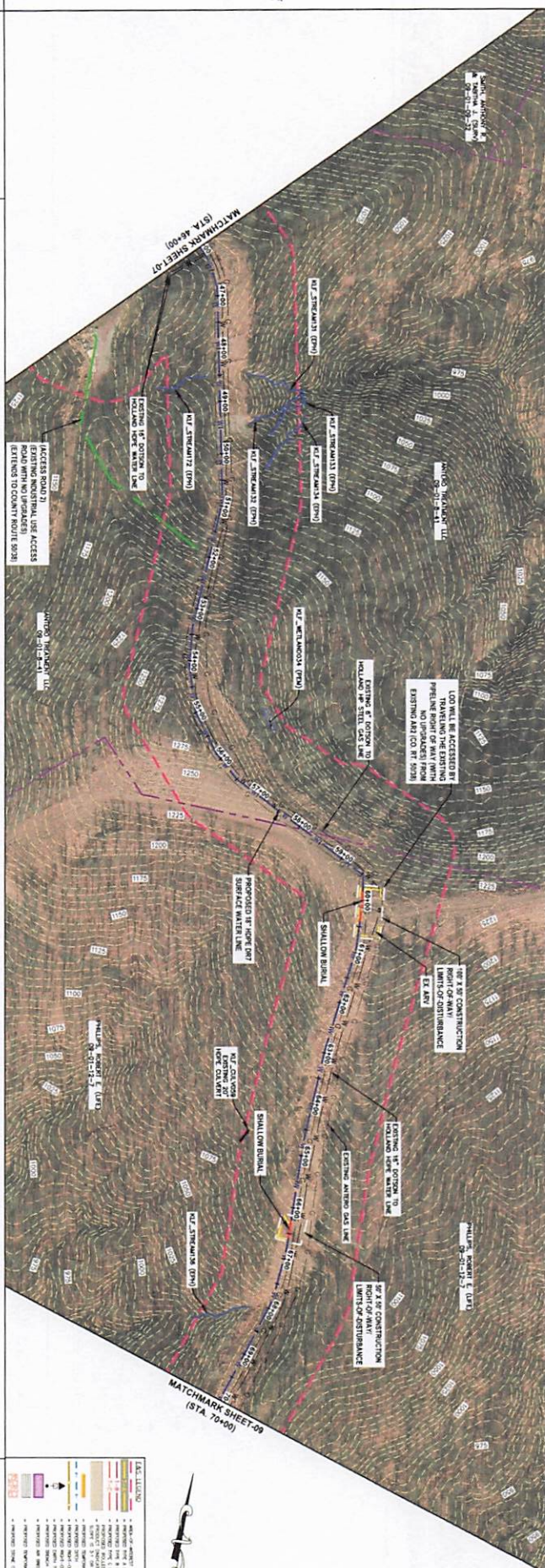
PATRIOT TO LYNN CAMP SWI
STA. 24+00 TO STA. 46+00

PROPOSED 18 HOURS
SURFACE WATER LIMIT

DODDRIDGE & RITCHIE COUNTY

DO BY	201 (11C)	ME No.
-------	-----------	--------

SHEET: 07-



THRA/SHEIR

IFP

ISSUED FOR PRINTING

DATE 10/02/2024

AFE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

GENERAL INFORMATION

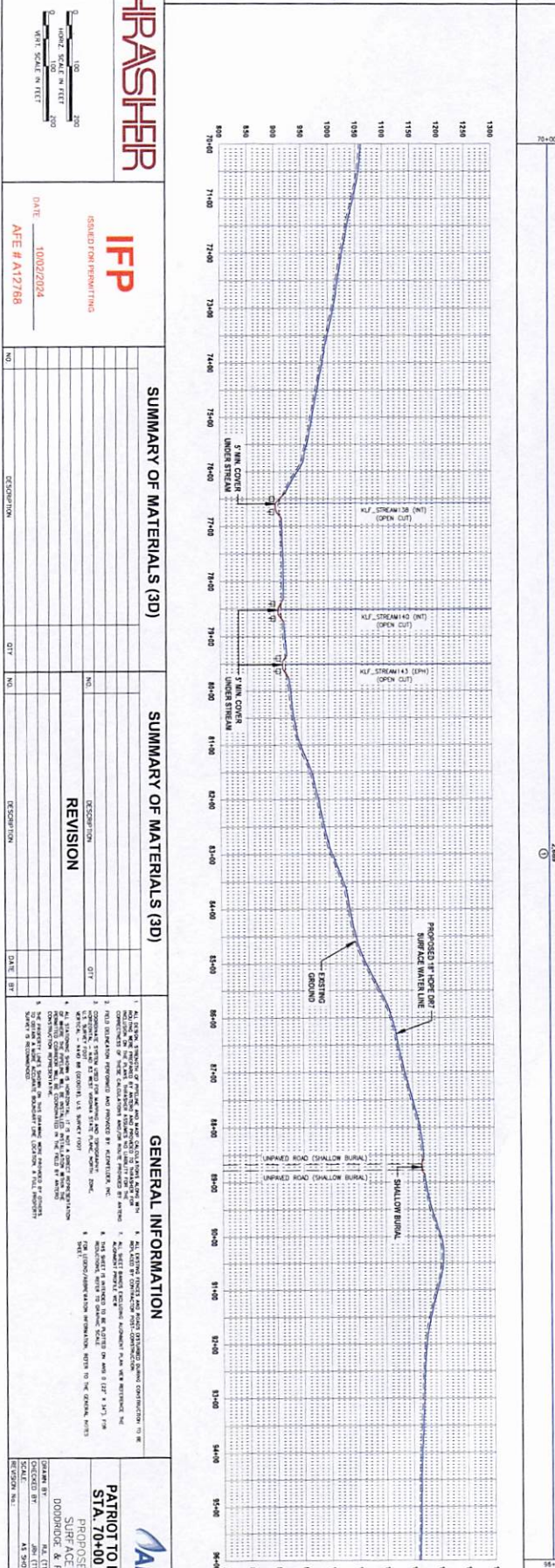
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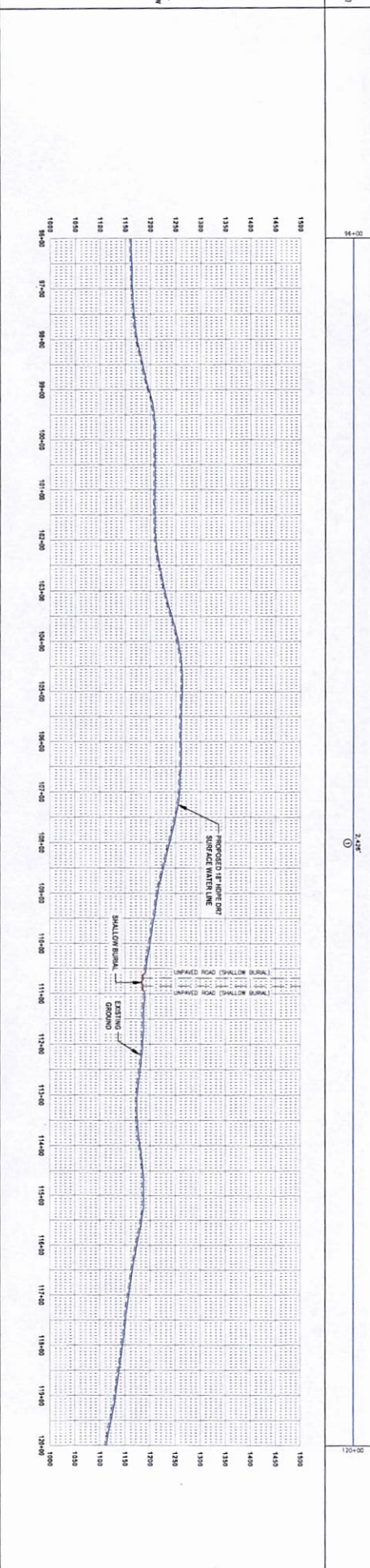
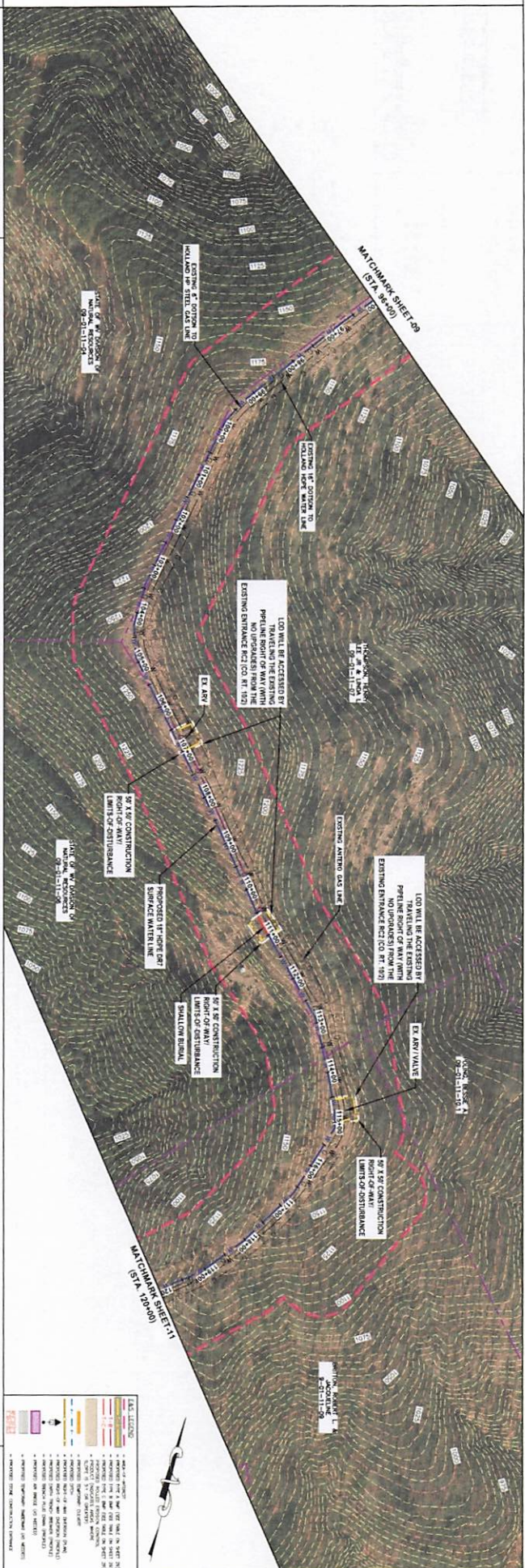
**PATRIOT TO LYNN CAMP SWIM
STA. 46+00 TO STA. 70+00**

**PROPOSED 18" HDPE
SURFACE WATER LINE**

000DRODGE & RINDGE COUNTY, WV

DATE: 04/11/10
DRAWN BY: JH
CHECKED BY: JH
SCALE: AS SHOWN
SHEET: 08-PLAN A

[illegible]



THIRASHER

IFP

ISSUED FOR PERMITTING

HORIZONTAL SCALE IN FEET

VERT. SCALE IN FEET

DATE 10/02/2024

AF-E # A1276

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

[illegible]

GENERAL INFORMATION

- [illegible]

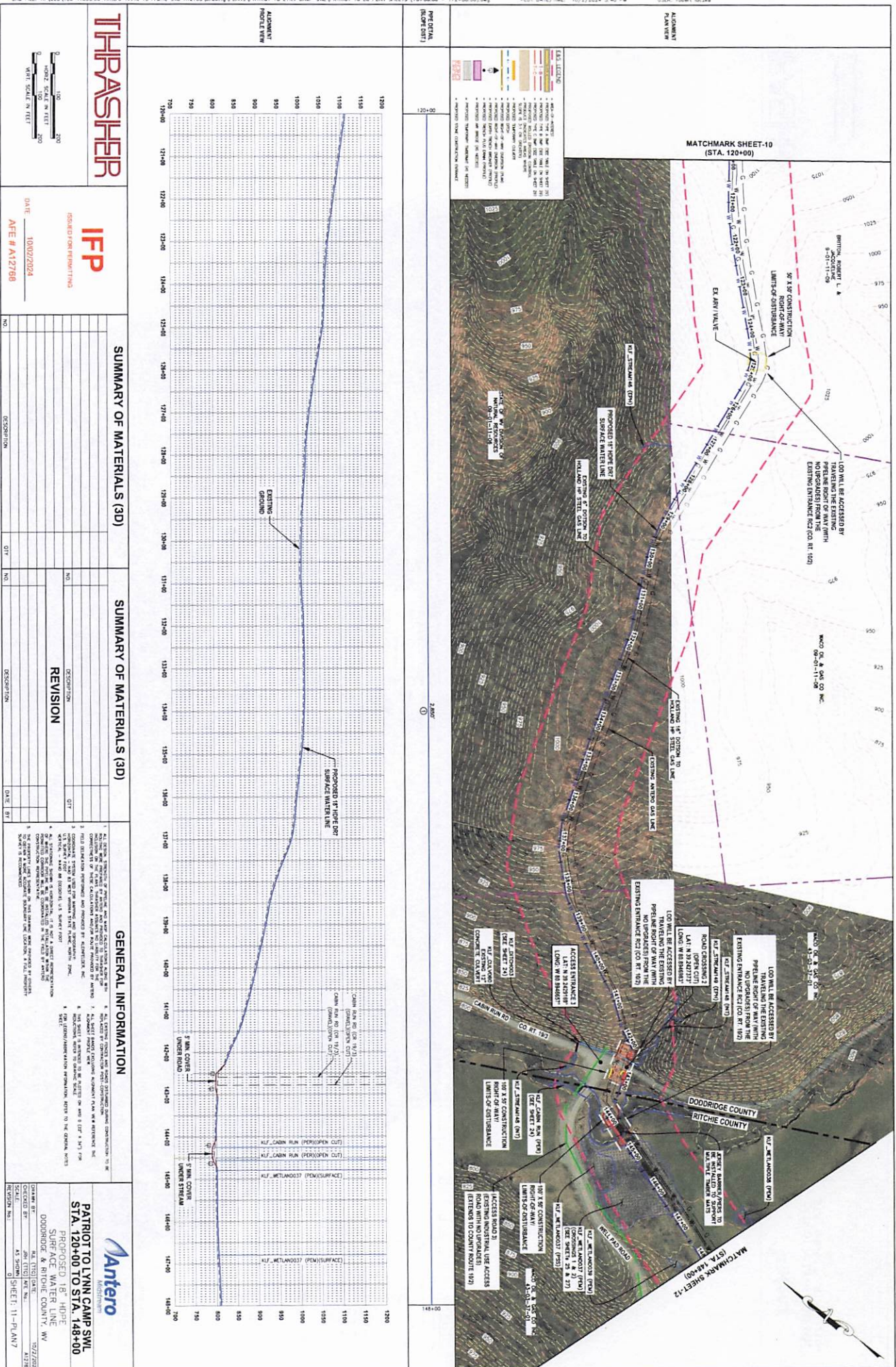
Antero
Midstream

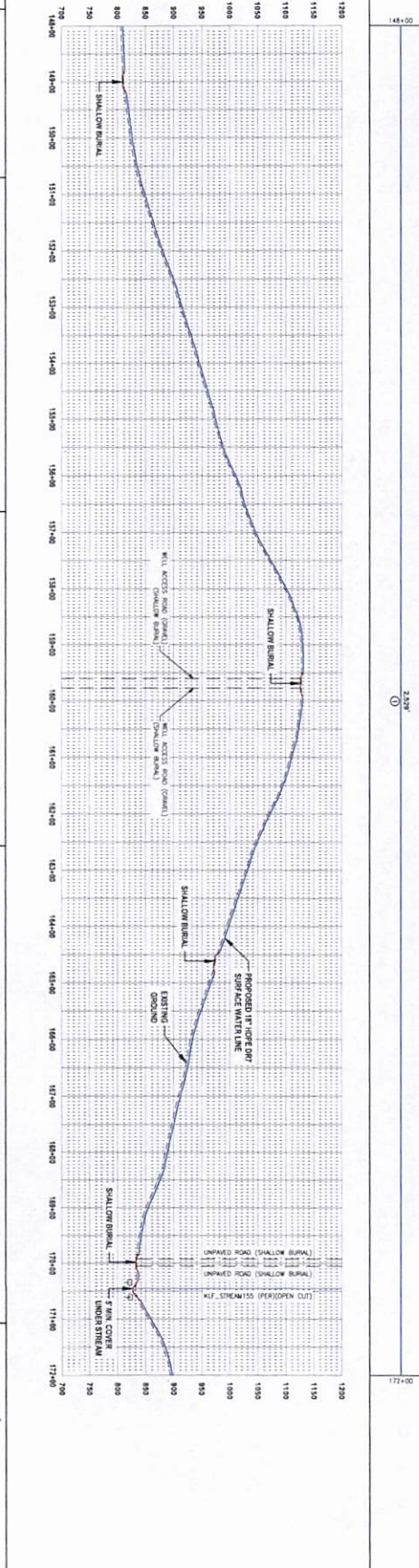
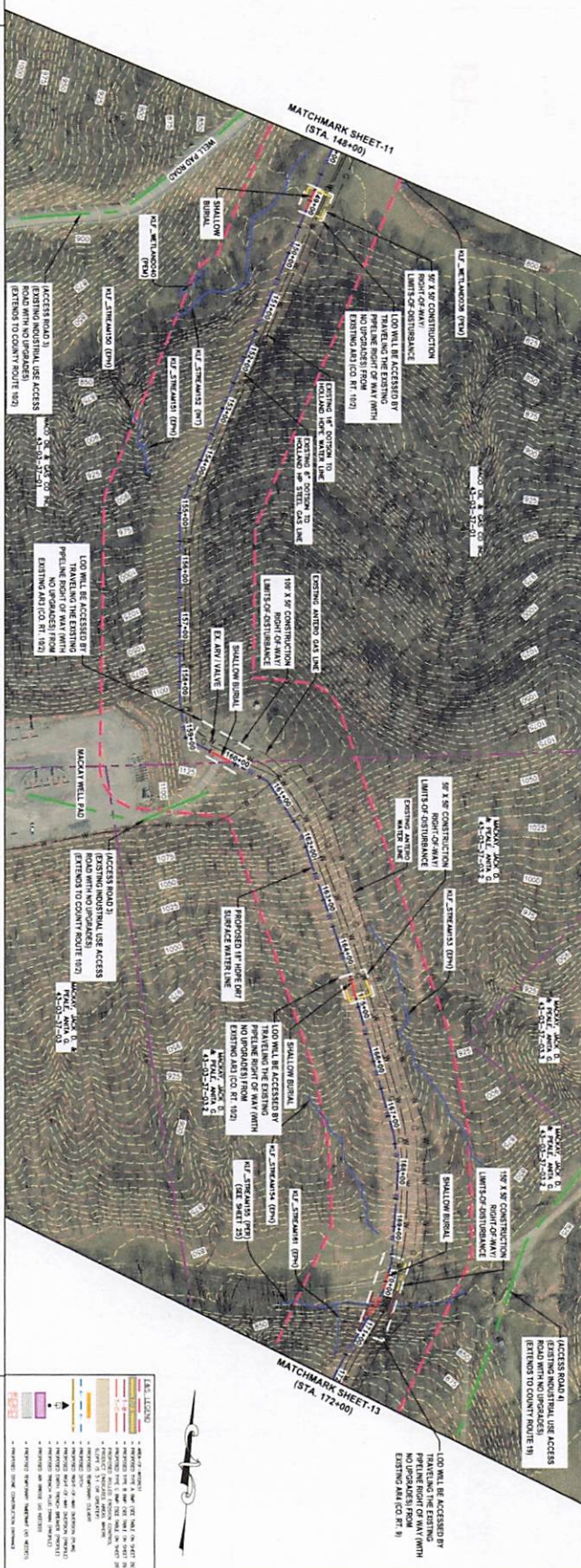
PATRIOT TO LYNN CAMP SWL
STA. 96+00 TO STA. 120+00

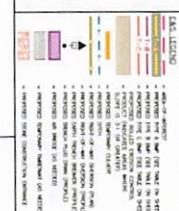
PROPOSED 18" HDPE
SURFACE WATER LINE
DODDRIEGE & BIRCH COUNTY

DRAWN BY	R.A. (TIC)	DATE	10/
CHECKED BY	SA (TIC)	DATE	

SCALE:	AS SHOWN
REVISION No.:	0
SHEET: 10-PLAN6	



[illegible]

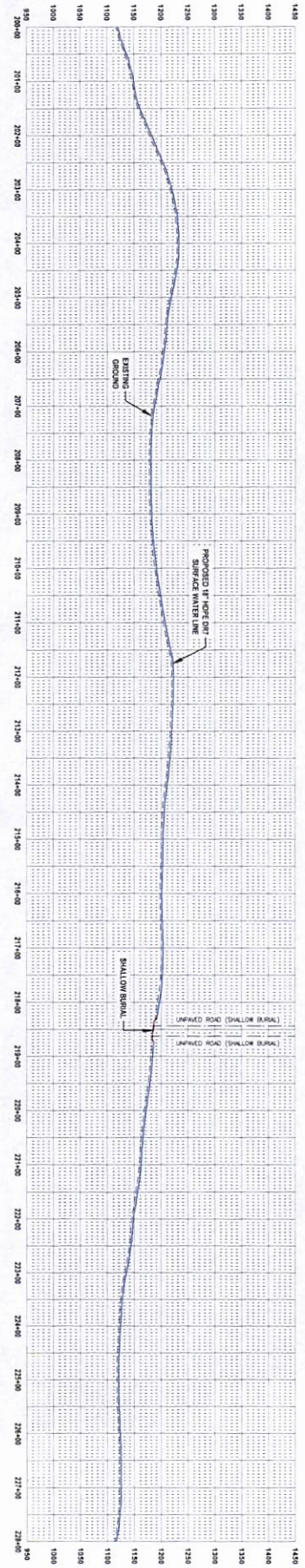
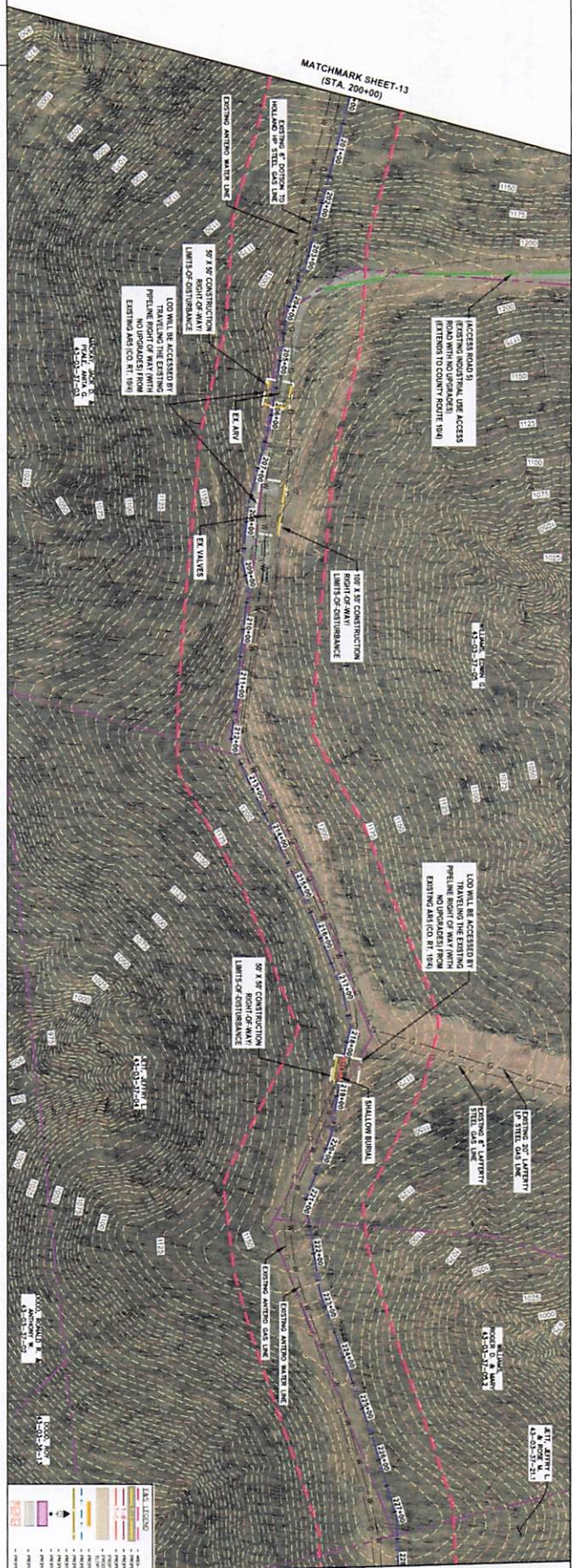


Antero
Midstream

PATRIOT TO LYNN CAMP SWL
STA. 172+00 TO STA. 200+00

PROPOSED 18" HDPE

 Antero MEDICAL UNIT	
PATRIOT TO LYNN CAMP SWL	
STA. 1724-00 TO STA. 200-00	
PROPOSED 18" HOPE	
SURF ACE WATER LINE	
00000000 & RICHIE COUNTY, WY	
CUSTOMER	BL (TTC) DATE
CHANGED BY	ALT DATE
SCALE	PLT NO.
REVISION NOS.	AS SHOWN
SHEET: 13-PLANS	
10/21/2024	
A17878	



THPASHHER

IFP

ISSUED FOR PERMITTING

DATE 10/02/2024

AFE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

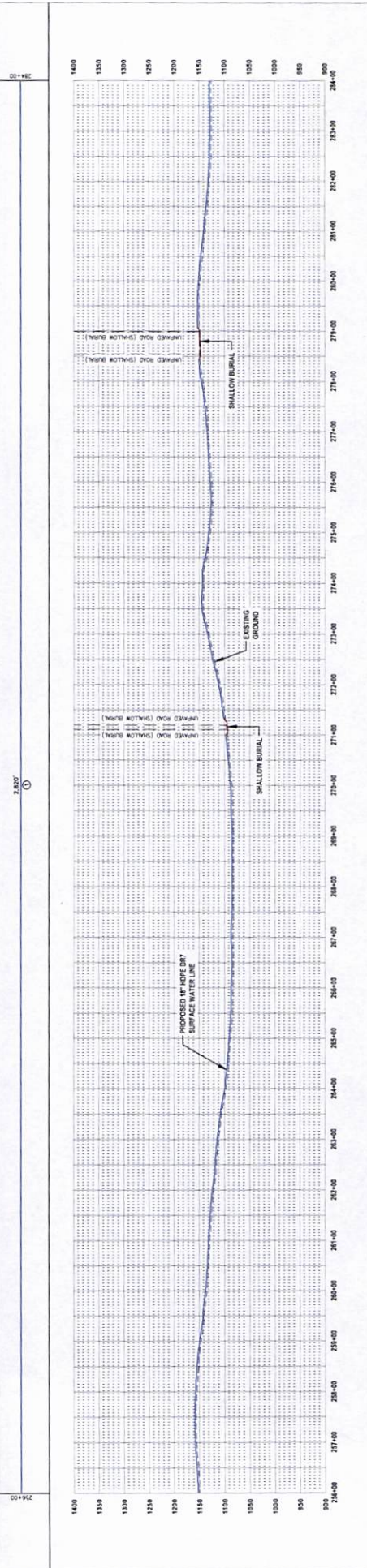
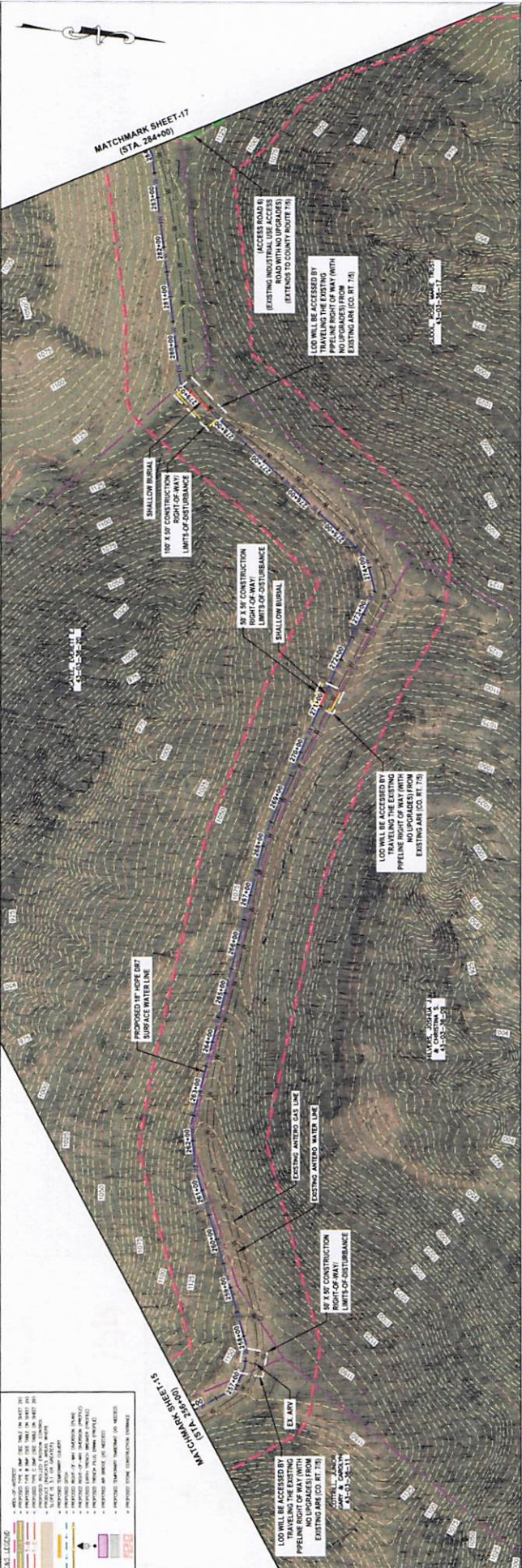
GENERAL INFORMATION

PATRIOT TO LYNN CAMP SWL
STA. 200+00 TO STA. 228+00

PROPOSED 18" HDPE
SURFACE WATER LINE
DODDING & RUTCHIE COUNTY

DRAWN BY	RL (TTC)	DATE	10/2/91
CHECKED BY	JSH (TTC)	AGE No.	A

SCALE: AS SHOWN SHEET: 14-PLANT0



THRASHER

IFP
ISSUED FOR PERMITTING
DATE 10/02/2024
AFE # A12768

GENERAL INFORMATION
1. ALL DESIGN, CONSTRUCTION, AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AASHTO MANUAL OF PRACTICES, THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY MATERIALS, AND THE AASHTO STANDARD SPECIFICATIONS FOR BRIDGES.
2. THE DESIGN SHALL BE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY MATERIALS AND THE AASHTO STANDARD SPECIFICATIONS FOR BRIDGES.
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7. THE DESIGN SHALL BE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY MATERIALS AND THE AASHTO STANDARD SPECIFICATIONS FOR BRIDGES.
8. THE DESIGN SHALL BE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY MATERIALS AND THE AASHTO STANDARD SPECIFICATIONS FOR BRIDGES.
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10. THE DESIGN SHALL BE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY MATERIALS AND THE AASHTO STANDARD SPECIFICATIONS FOR BRIDGES.

SUMMARY OF MATERIALS (3D)
NO. DESCRIPTION
1. 18" HDPE SURFACE WATER LINE
2. 18" HDPE SURFACE WATER LINE
3. 18" HDPE SURFACE WATER LINE
4. 18" HDPE SURFACE WATER LINE
5. 18" HDPE SURFACE WATER LINE
6. 18" HDPE SURFACE WATER LINE
7. 18" HDPE SURFACE WATER LINE
8. 18" HDPE SURFACE WATER LINE
9. 18" HDPE SURFACE WATER LINE
10. 18" HDPE SURFACE WATER LINE

SUMMARY OF MATERIALS (3D)
NO. DESCRIPTION
1. 18" HDPE SURFACE WATER LINE
2. 18" HDPE SURFACE WATER LINE
3. 18" HDPE SURFACE WATER LINE
4. 18" HDPE SURFACE WATER LINE
5. 18" HDPE SURFACE WATER LINE
6. 18" HDPE SURFACE WATER LINE
7. 18" HDPE SURFACE WATER LINE
8. 18" HDPE SURFACE WATER LINE
9. 18" HDPE SURFACE WATER LINE
10. 18" HDPE SURFACE WATER LINE

Antero
Patriot to Lynn Camp SWL
STA. 256+00 TO STA. 284+00
PROPOSED 18" HDPE
SURFACE WATER LINE
DOODGE & RICHIE COUNTY, WV
DRAWN BY: JLM (JLM) DATE: 10/02/2024
CHECKED BY: JLM (JLM) DATE: 10/02/2024
REVISION NO.: 0

THRAPASHER

IFP

DESIGNED FOR PERMITTING

DATE: 10/02/2024

AFE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

DATE: 10/02/2024

GENERAL INFORMATION

PATRIOT TO LYNN CAMP SWL

STA. 284+00 TO STA. 308+00

PROPOSED 18" HOPE

SURFACE WATER LINE

GOODYEAR, ARIZONA COUNTY, WY

DATE: 10/02/2024

SCALE: 1" = 40'

BY: KJ SPOON

SHEET: 17-PLAN 1

THRAPASHER

IFP

DESIGNED FOR PERMITTING

DATE: 10/02/2024

AFE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

DATE: 10/02/2024

GENERAL INFORMATION

PATRIOT TO LYNN CAMP SWL

STA. 284+00 TO STA. 308+00

PROPOSED 18" HOPE

SURFACE WATER LINE

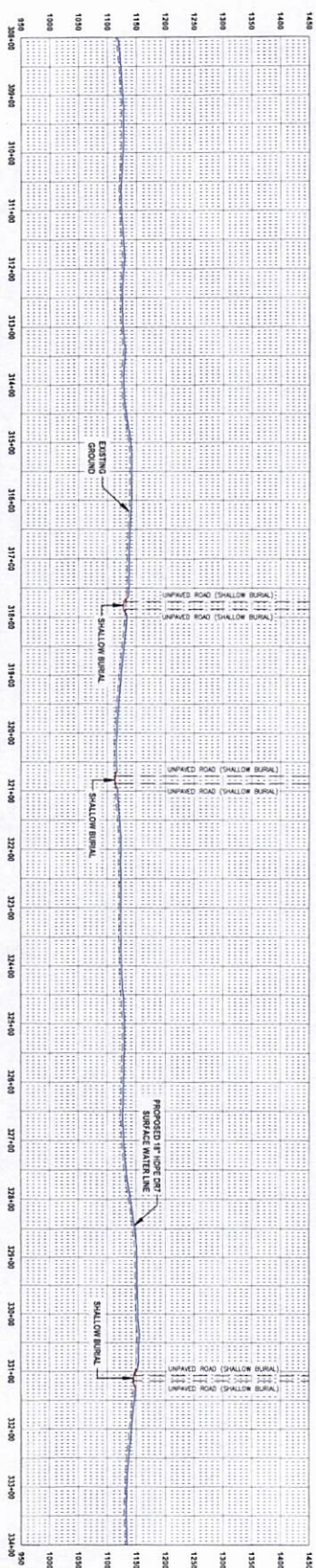
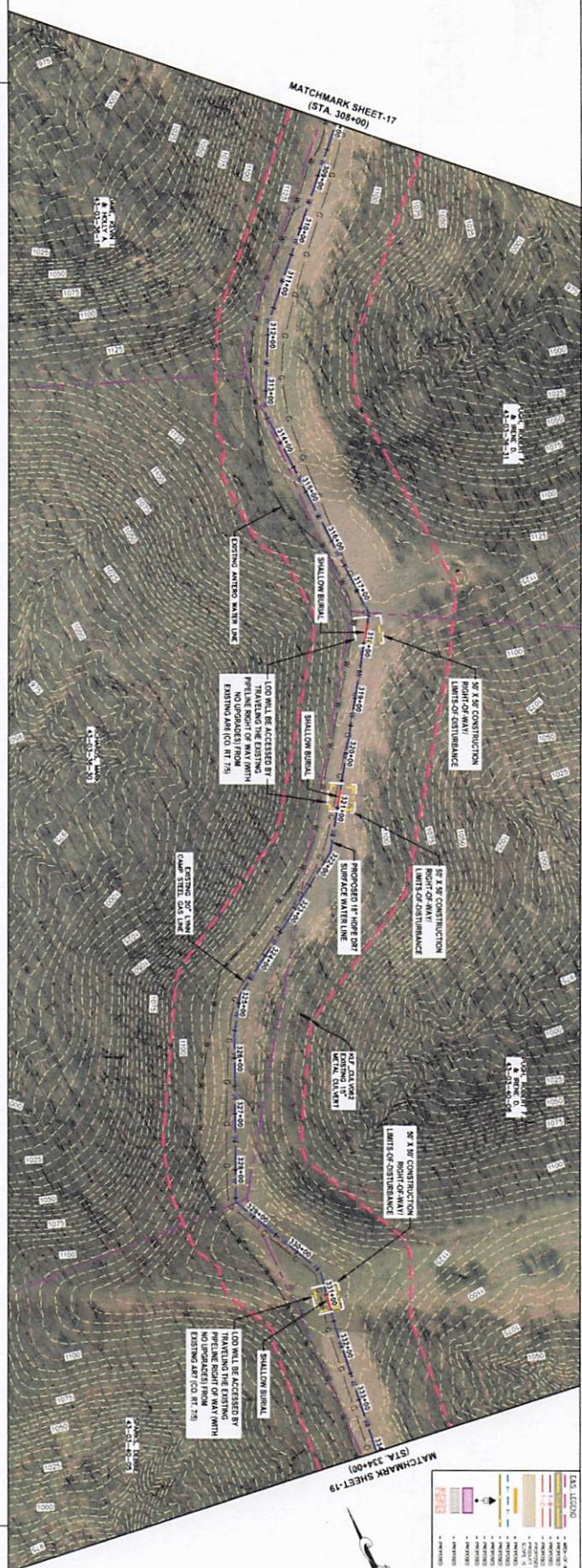
GOODYEAR, ARIZONA COUNTY, WY

DATE: 10/02/2024

SCALE: 1" = 40'

BY: KJ SPOON

SHEET: 17-PLAN 1



THP/AS/HEP

IFP

ISSUED FOR PERMITTING

DATE 10/02/2024

AFE # A12761

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

GENERAL INFORMATION



PATRIOT TO LYNN CAMP SWL
STA. 308+00 TO STA. 334+00

PROPOSED 18" HDPE

SURFACE WATER LINE

DURRIG & RICHIE COUNTY

MOJ. (TTC)	DATE
2004 (TTC)	MT. No.

AS 9:00M
SHEET: 18-1



DRAWN BY	RL (TTC)	DATE	10/2/2002
CHECKED BY	JOH (TTC)	MT. NO.	A12785
SCALE	AS SHOWN		
REVISION No.	0		

SHEET: 19-PLANS

THIRASHEER

ISSUED FOR PERMITTING

DATE: 10/02/2024

AFE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

GENERAL INFORMATION

1. THIS DRAWING IS THE PROPERTY OF THIRASHEER AND SHALL REMAIN THE PROPERTY OF THIRASHEER. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF THIRASHEER IS STRICTLY PROHIBITED.

2. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT SITE AND HAS FOUND THE INFORMATION PROVIDED TO BE ACCURATE AND SUFFICIENT FOR THE DESIGN OF THE PROJECT. THE DESIGNER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED OR THE RESULTS OF THE DESIGN.

3. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT SITE AND HAS FOUND THE INFORMATION PROVIDED TO BE ACCURATE AND SUFFICIENT FOR THE DESIGN OF THE PROJECT. THE DESIGNER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED OR THE RESULTS OF THE DESIGN.

4. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT SITE AND HAS FOUND THE INFORMATION PROVIDED TO BE ACCURATE AND SUFFICIENT FOR THE DESIGN OF THE PROJECT. THE DESIGNER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED OR THE RESULTS OF THE DESIGN.

5. THE DESIGNER HAS CONDUCTED VISUAL INSPECTIONS OF THE PROJECT SITE AND HAS FOUND THE INFORMATION PROVIDED TO BE ACCURATE AND SUFFICIENT FOR THE DESIGN OF THE PROJECT. THE DESIGNER DOES NOT WARRANT THE ACCURACY OF THE INFORMATION PROVIDED OR THE RESULTS OF THE DESIGN.

Antero

PATRIOT TO LYNN CAMP SWL

STA. 360+00 TO STA. 387+19

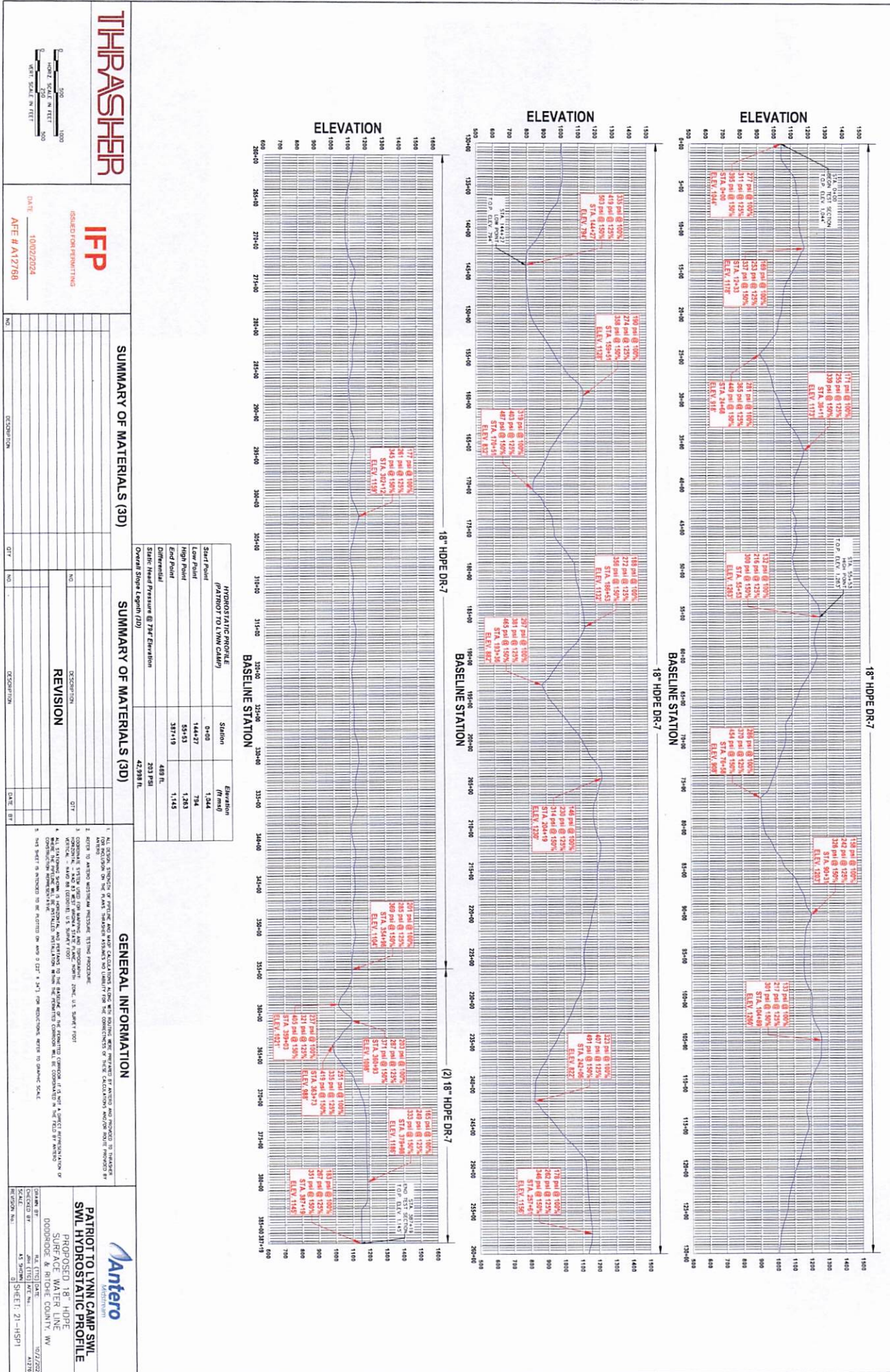
PROPOSED 18" HDPE

SURFACE WATER LINE

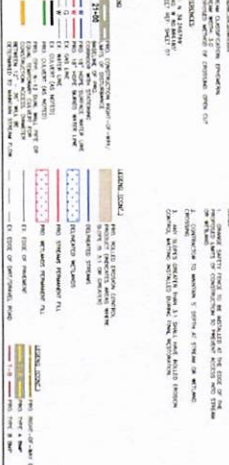
00000000 & BRIDGE COUNTY, NV

SCALE: AS SHOWN

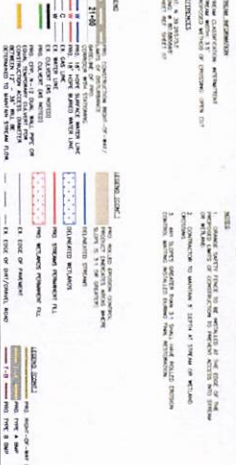
0 SHEET 20-PLAN 16



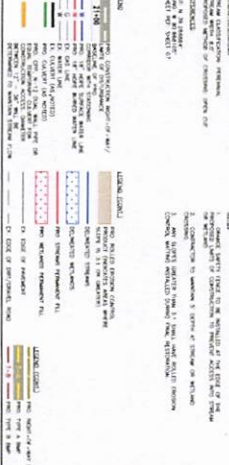
STREAM CROSSING
KLF_STREAM117 (EPH)



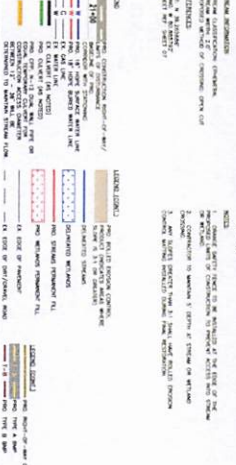
STREAM CROSSING
KLF_STREAM120 (INT)



STREAM CROSSING
KLF_STREAM118 (PER)



STREAM CROSSING
KLF_STREAM120 (EPH)



THIRASHER

IFP

ISSUED FOR PERMITTING

DATE: 10/02/2024
ATE # A12768

SUMMARY OF MATERIALS (3D)

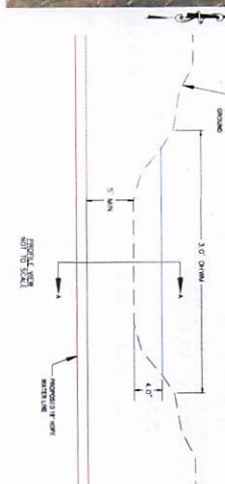
SUMMARY OF MATERIALS (3D)

REVISION

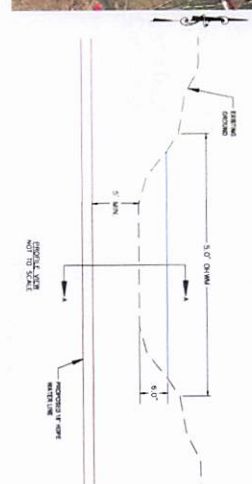
GENERAL INFORMATION

1. ALL DESIGN, CONSTRUCTION, AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AASHTO MANUAL OF PRACTICES, THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY MATERIALS, AND THE AASHTO STANDARD SPECIFICATIONS FOR BRIDGE MATERIALS.
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PATRIOT TO LYNN CAMP SWL
SURFACE WATER LINE
PROPOSED 18" HDPE
DOODRIDGE & RICHIE COUNTY, WV
SCALE: 1" = 20' HORIZONTAL
SCALE: 1" = 2' VERTICAL
SHEET: 22-SAWCI

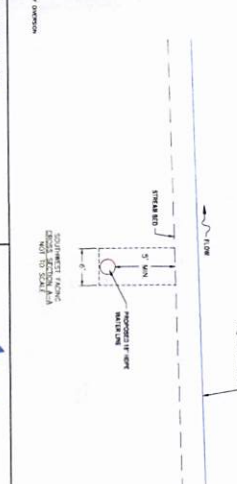


STREAM CROSSING
KLF_STREAM138 (INT)

[illegible]


STREAM CROSSING
KLF_STREAM140 (INT)

1. OBTAIN WRITTEN CONSENT TO BE ADJUDICATED AT THE COURT OF THE PROSECUTOR GENERAL OF CONSTRUCTION TO PREVENT ABUSE AND STAY ON THE RECORD.
2. CONSTRUCTION TO OBTAIN A COURT OF CONSTRUCTION OF THE COURT OF CONSTRUCTION.
3. AND OBTAIN WRITTEN CONSENT TO BE ADJUDICATED AT THE COURT OF THE PROSECUTOR GENERAL OF CONSTRUCTION TO PREVENT ABUSE AND STAY ON THE RECORD.



IFP

DATE 10/02/2024
A/E # A12768



ANTERO ENERGY CORPORATION

10000 SHILOH ROAD, SUITE 200

HOUSTON, TEXAS 77036

TEL: 713.774.1000

FAX: 713.774.1001

WWW.ANTERO.COM

PATRIOT TO LYNN CAMP SW

STREAM & WETLAND CROSS

PROPOSED 18" HDPE

SURFACE WATER LINE

00000000 & RICHIE COUNTY, WV

CREATED BY: JAH (JAH)

CHECKED BY: JAH (JAH)

SCALE: AS SHOWN

SHEET: 23-SAW



Midstream

PATRIOT TO LYNN CAMP SW

STREAM & WETLAND CROSS

PROPOSED 18" HOPE

SURFACE WATER LINE

DOODENIDGE & RICHIE COUNTY, WV

DRAWN BY	MR. (T) / DATE	16
CHECKED BY	JR. (T) / MR. / W.	
SCALE:	AS SHOWN	
REVISION NO.:	SHEET: 23	S.A.W.

Antero
Midstream

**PATRIOT TO LYNN CAMP SWL
DRAINAGE AND WETLAND CROSSING**

PROPOSED 18" HDPE
SURFACE WATER LINE
DODDSDRIDGE & RICHIE COUNTY, WV

DATE	BY	REV	DATE
06/12/2025	AL	1	06/12/2025
AS SHOWN	AS SHOWN	AS SHOWN	AS SHOWN

SHEET 24-S&WC1



STREAM CROSSING
KLF_STREAM158 (PER)

WETLAND CROSSING
KLF_WETLAND042 (PEM)

IFP

DATE: 10/02/2024

[illegible]

GENERAL INFORMATION

[illegible]


ANTERO
ACQUISITION

PATRIOT TO LYNN CAMP SWL
STREAM & WETLAND CROSSINGS

PROPOSED 18" HDPE
SURFACE WATER LINE
0000RDGE & RITCHIE COUNTY, WV

DRAWN BY: JLS (TTS) DATE: 10/21/2002
CHECKED BY: JLS (TTS) DATE: 10/21/2002
SCALE: AS SHOWN
REVISION No. 1 SHEET: 25-SAKWCA

SCALE:	AS SHOWN
REVISION No.	0
SHEET: 26-S&WCS	

THRAPASHER

ISSUED FOR PERMITTING

IFP

DATE: 10/02/2024
AFE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

DATE: 8/7

GENERAL INFORMATION

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
3. THIS SHEET IS INTENDED TO BE USED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS, AND GENERAL NOTES.

DESIGNED BY: JAL (JAL/10/2024)
CHECKED BY: JAL (JAL/10/2024)
SCALE: AS SHOWN
SHEET: 29 - ESCP2

1. RIGHT OF WAY DIVERSION ON INLET (WATERBARIAN)

2. ACCESS ROAD WATERBARIAN

3. STRAIN BALE DEWATERING

4. BMP CATEGORIES

5. SILT FENCE

6. SUPER SILENCE

THRAPASHER

ISSUED FOR PERMITTING

IFP

DATE: 10/02/2024
AFE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

DATE: 8/7

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DESIGNED BY: JAL (JAL/10/2024)
CHECKED BY: JAL (JAL/10/2024)
SCALE: AS SHOWN
SHEET: 29 - ESCP2

1. RIGHT OF WAY DIVERSION ON INLET (WATERBARIAN)

2. ACCESS ROAD WATERBARIAN

3. STRAIN BALE DEWATERING

4. BMP CATEGORIES

5. SILT FENCE

6. SUPER SILENCE

THRAPASHER

ISSUED FOR PERMITTING

IFP

DATE: 10/02/2024
AFE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

DATE: 8/7

GENERAL INFORMATION

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3. THIS SHEET IS INTENDED TO BE USED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS, SPECIFICATIONS, AND GENERAL NOTES.

DESIGNED BY: JAL (JAL/10/2024)
CHECKED BY: JAL (JAL/10/2024)
SCALE: AS SHOWN
SHEET: 29 - ESCP2

THRAPASHER

IFP

REDESIGNED FOR PERMITTING

DATE: 10/02/2024
ATE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

NO.	DESCRIPTION	DATE
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2		
3		
4		
5		
6		
7		
8		
9		
10		

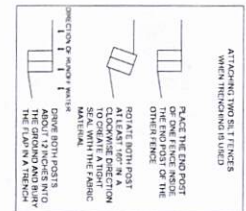
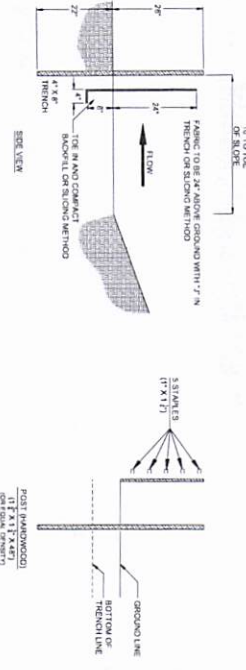
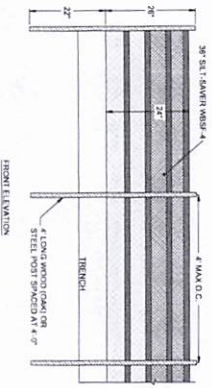
GENERAL INFORMATION

- ALL DESIGN, DIMENSIONS, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE AISC STEEL CONSTRUCTION MANUAL AND THE AISC DESIGN GUIDE 9, "DESIGN OF WELDED JOINTS".
- THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
- THIS SHEET IS INTENDED TO BE USED IN CONJUNCTION WITH THE OTHER SHEETS OF THIS SET.

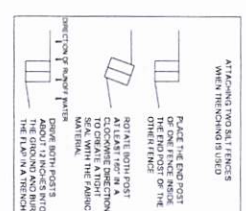
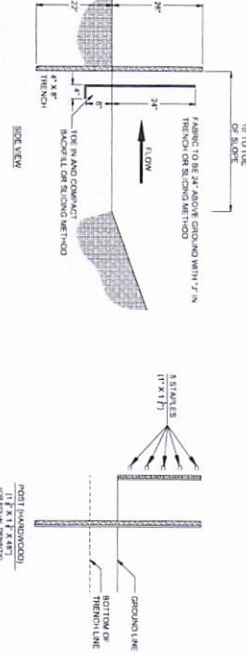
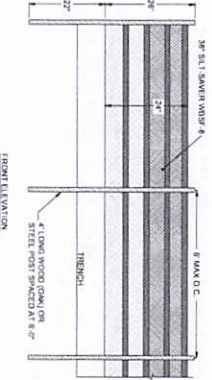
**PATRIOT TO LYNN CAMP SWL
ESCP DETAILS**

PROPOSED 18" DIAMETER
SURFACE WATER LINE
00000000 & RICHIE COUNTY, WV
DATE: 10/02/2024
DRAWN BY: JAL/TED
CHECKED BY: JAL/TED
DESIGN NO.: A12768
SHEET: 30-ESCP3

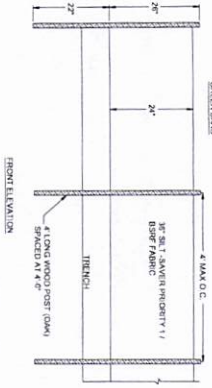
8 HEAVY DUTY WOVEN BELTED WBSF25.4 SILT FENCE 2 STAGE



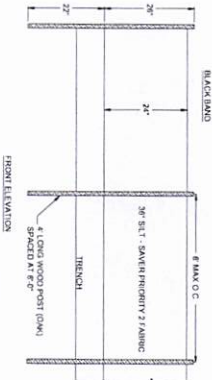
8 MEDIUM DUTY WOVEN BELTED WBSF25.4 SILT FENCE 2 STAGE



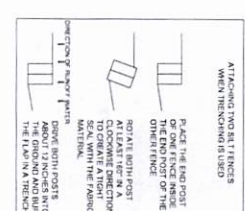
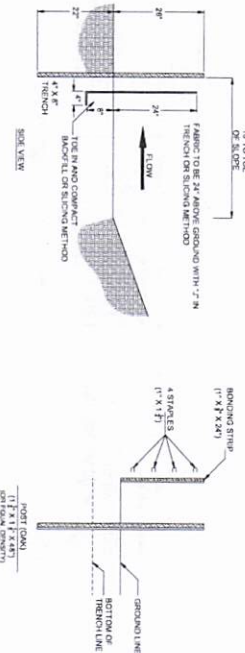
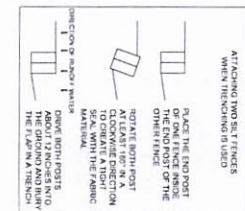
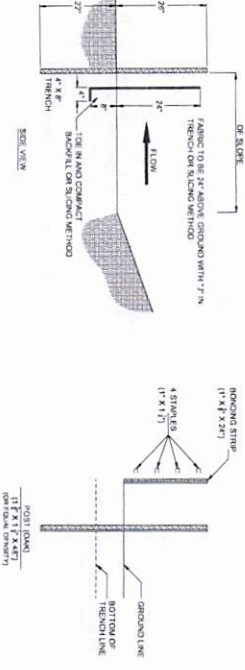
7 SILT SAVER SILT FENCE PRIORITY 1

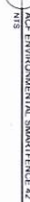


7 SILT SAVER SILT FENCE PRIORITY 2



7 SILT SAVER SILT FENCE PRIORITY 2





DATE 10/02/2024

 Antero LYNK PARTNERS	
PATRIOT TO LYNN CAMP SWL ESCP DETAILS	
PROPOSED 18" HOPE SURFACE WATER LINE DODDMEKING & RIDGE COUNTY, WV	
SHEET NO. 31-ESCP-4	DATE 10/2/2020
SCALE AS SHOWN	ALIGNED 11/19/20
REVISION NO.	

12" HARDWOOD SQUARE FILTER SOCK

2" x 2" x 1/2" HARDWOOD STAKES

O.C. STAKES 9" FROM ANGLE

12" O.C.

THRASHER

IFP

ISSUED FOR PERMITTING

DATE: 10/02/2024

ATE # A12768

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

REVISION

GENERAL INFORMATION

PATRIOT TO LYNN CAMP SWL

ESCP DETAILS

PROPOSED 18" HOPE

SURFACE WATER LINE

DODDSDORF & RICHIE COUNTY, WV

DATE: 10/2/2024

SCALE: AS SHOWN

REVISED BY: A.S. SWAN

DESIGNED BY: A.S. SWAN

SHEET: 32 - ESCPS

11

PERMANENT TRENCH BREAKER

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PERMANENT TRENCH BREAKER

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THRAPASHER

IFP

REQUIRED FOR PERMITTING

DATE: 10/02/2024
 AEE # A12788

SUMMARY OF MATERIALS (3D)

SUMMARY OF MATERIALS (3D)

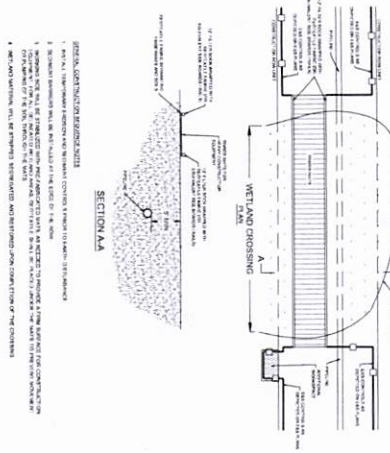
GENERAL INFORMATION

1. ALL DESIGN, SPECIFICATIONS OF PRINTING AND MAP CALCULATIONS SHALL BE APPROVED BY ANTERO AND PROVIDED TO THE CLIENT FOR REVIEW AND APPROVAL.
2. INSTALLATION / INSPECTION / MAINTENANCE OF BRIDGE SHALL BE APPROVED BY ANTERO AND PROVIDED TO THE CLIENT FOR REVIEW AND APPROVAL.
3. THIS SHEET IS INTENDED TO BE ADDED TO SHEET 34-ESCP7 FOR PROVISIONS, NOTES TO GENERAL SCALE.

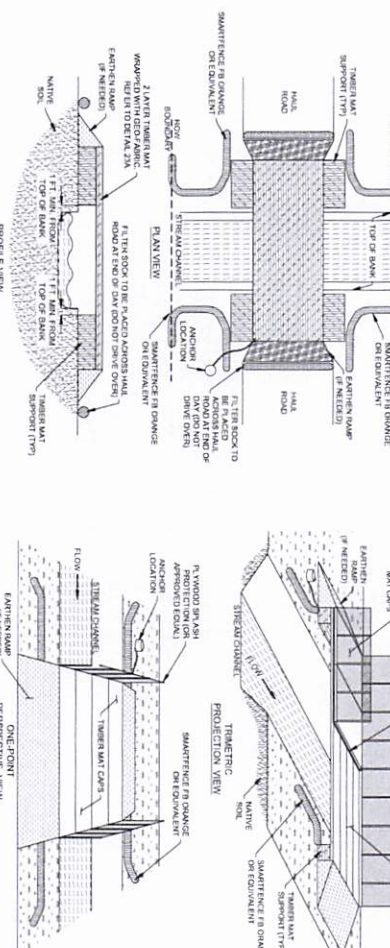
**PATRIOT TO LYNN CAMP SWL
 ESCP DETAILS**

PROPOSED 18" HOPE
 SURFACE WATER LINE
 DOODEN & BRIDGE COUNTY, NV
 10/2/2024
 DRAWN BY: JH (TJG) DATE: 10/2/2024
 CHECKED BY: JH (TJG) DATE: 10/2/2024
 DESIGNED BY: JH (TJG) DATE: 10/2/2024
 SHEET: 34-ESCP7

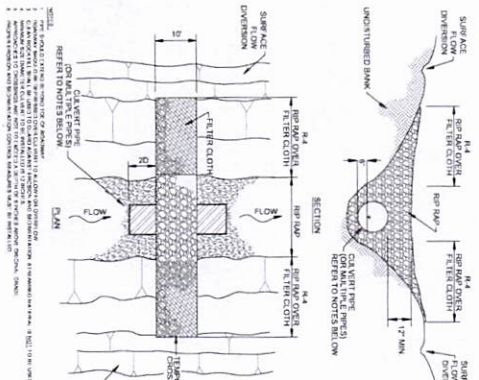
27. TYPICAL BRIDGE AND SEGMENT CONTROL FOR WETLAND CROSSINGS



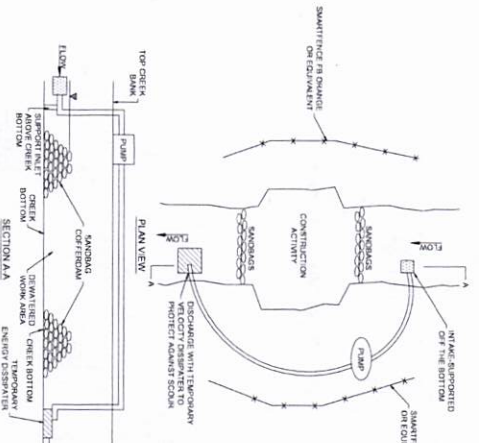
28. TYPICAL BRIDGE AND SEGMENT CONTROL FOR STREAM CROSSINGS



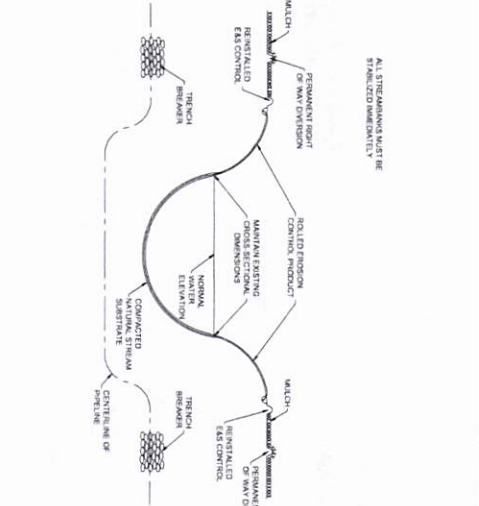
24. ROCK FLUME BRIDGE



25. DAM & PUMP AROUND



26. STREAM BANK STABILIZATION



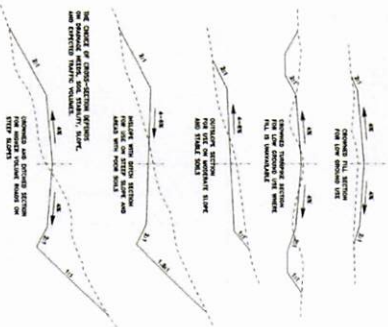
CONSTRUCTION SPECIFICATIONS AND GENERAL SPECIFICATIONS

1. CONSTRUCTION SHALL BE AT RIGHT ANGLES TO THE STREAM CENTERLINE OF THE STREAM.
2. TUGER MATING CARS SHALL BE PLACED PARALLEL TO STREAM AND ADJACENT TO ONE ANOTHER FOR THE ENTIRE SPAN OF THE BRIDGE.
3. TUGER MATING CARS SHALL BE BUILT UPON THE ENTIRE SPAN OF THE BRIDGE, EXTENDING 2 FEET ON EITHER SIDE OF THE BRIDGE.
4. TUGER MATING CARS SHALL BE BUILT UPON THE ENTIRE SPAN OF THE BRIDGE, EXTENDING 2 FEET ON EITHER SIDE OF THE BRIDGE.
5. TUGER MATING CARS SHALL BE BUILT UPON THE ENTIRE SPAN OF THE BRIDGE, EXTENDING 2 FEET ON EITHER SIDE OF THE BRIDGE.
6. BRIDGE SHALL BE CONSTRUCTED WITHIN 1 FOOT OF THE TOP OF BANK.
7. BRIDGE SHALL BE SECURELY ANCHORED AT ONE END USING LANCE BOLDS OR OTHER STEEL ANCHORS. ANCHORS SHALL BE SUFFICIENT TO PREVENT THE BRIDGE FROM TILTING DOWNSTREAM.
8. ALL ANCHORS DISTURBED DURING BRIDGE INSTALLATION SHALL BE REPLACED AND/OR REINFORCED.
9. TUGER MATING CARS SHALL BE BUILT UPON THE ENTIRE SPAN OF THE BRIDGE, EXTENDING 2 FEET ON EITHER SIDE OF THE BRIDGE.
10. TUGER MATING CARS SHALL BE BUILT UPON THE ENTIRE SPAN OF THE BRIDGE, EXTENDING 2 FEET ON EITHER SIDE OF THE BRIDGE.

TYPES OF ROAD CROSS-SECTIONS

Temporary Stabilization Seeding		
March 15 - September 15	Annual Ryegrass	250 - 350 lbs per acre
September 15 - March 15	Annual winter wheat	100 - 125 lbs per acre

29 TEMPORARY SEEDING CHART



THIRASSHER

IFP

ISSUED FOR PERMITTING

DATE: 10/02/2024

AFE # A12768

SUMMARY OF MATERIALS (3D)

[illegible]

SUMMARY OF MATERIALS (3D)

[illegible]

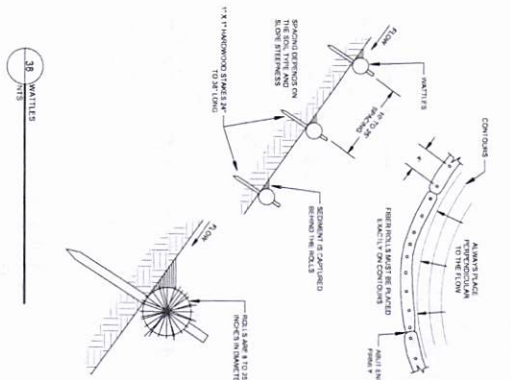
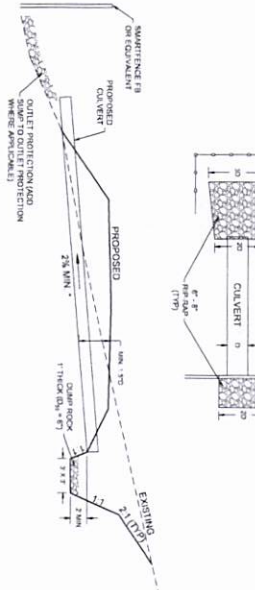
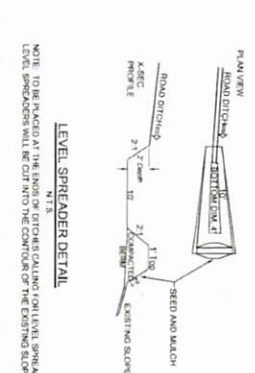
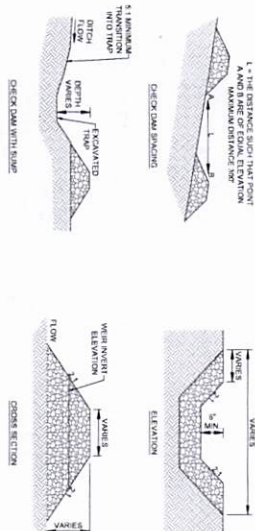
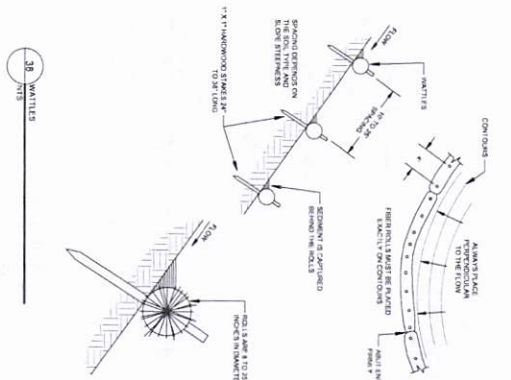
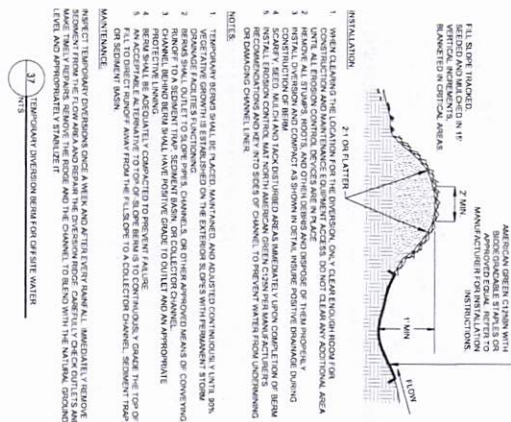
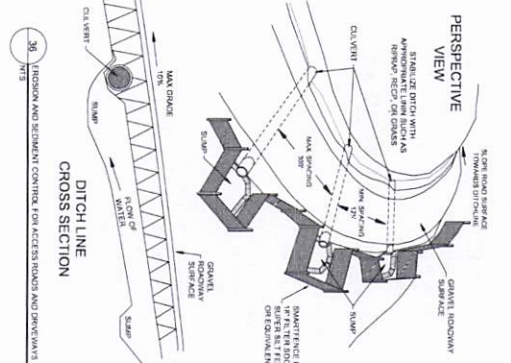
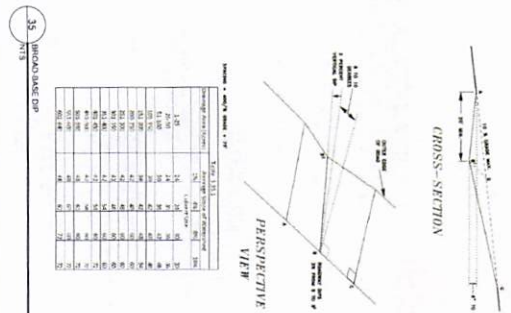
REVISION

[illegible]

GENERAL INFORMATION

1. ALL DESIGN, SIZE, AND PUBLISHING AND CIRCULATION CALCULATIONS WERE ROUNDED UP OR DOWN TO THE NEAREST WHOLE NUMBER. THE PRESENTED DATA ARE THE RESULT OF THESE CALCULATIONS AND/OR ROUNDOFFS.
2. ESTIMATION OF SPECIFIC GRAVITY OF SAND WAS BASED ON FIELD CONDITIONS TO DETERMINE SPECIFIC GRAVITY.
3. THIS SHEET IS INTENDED TO BE PLOTTED ON A 36" X 48" (91.4 X 121.9 CM) FOR REDUCTIONS THEREIN TO GRAPHIC SCALE.

[illegible]



THRAP/SHER

IFP

ISSUED FOR PERMITTING

DATE: 10/02/2024

A/E # A1276

SUMMARY OF MATERIALS (3D)

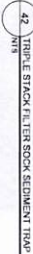
SUMMARY OF MATERIALS (3D)

REVISION

1. ALL DESIGN, STRUCTURE OF PIPELINES AND/OR CALCULATIONS ALONG WITH SOLUTIONS MUST BE PREPARED BY A MINOR AND PROVIDED TO TEACHING ASSISTANTS FOR REVIEW. TEACHING ASSISTANTS HAVE THE AUTHORITY FOR THE CORRECTIONS OF THESE CALCULATIONS AND/OR SOLUTIONS PROVIDED BY A MINOR.
2. ESTIMATION / SPECIFICATIONS / PLACEMENT OF BARS MAY VARY BASED ON FIELD CONDITIONS TO MAINTAIN SPECIFICATIONS.
3. THE DESIGN IS ALLOWED TO BE ROUNDED UP AND OR DOWN $(\pm 1/8")$ FOR DIMENSIONS OTHER THAN GEOMETRIC SCALE.

Antero
Midstream

PATRIOT TO LYNN CAMP SWL
ESCP DETAILS



NOTES
ON MOST LOCATIONS ANTENNED WILL ALSO CONSTRUCT EXHIBITION AND SEGMENT IF EX-CONTROLS ABOVE AND BELOW THE EX-CONTROLS LITTED ON THE PLAIN SHEETS. THESE CONTROLS WILL BE CATEGORIZED AS PHASE I, PHASE II, AND PHASE III. THESE CONTROLS WILL BE ANTENNED TO BOTH PRODUCE EXTRA EX-CONTROLS AND TO ELIMINATE THE CHANCES OF MATERIALS SUCH AS ON GUMMET, PLASTIC, IN A STRIP ON WITH AND THE SHEET PLANS AND DELIMITATIONS ARE REVIEWED AND THESE CONTROLS ARE SPECIFIED IN ANTIDOTES CONSTRUCTION RELEASE WHICH IS SENT OUT. JUST PRIOR TO CONSTRUCTION BEGINNING, THE PHASE I, II, AND III CONTROLS WILL BE CONSTRUCTED AS FOLLOWS:

APPENDIX C
NATIONAL STREAMFLOW STATISTICS (NSS)
CABIN RUN
RITCHIE COUNTY, WV

Legend

Basins Layers Basemaps

Input Coordinate

examples:
38 15 30.1, -81 25 15.2 (lat, lon)
38.123456, -81.123456 (lat, lon)
500000, 4200000 (UTM as easting, northing)

39 14 35.30, -80 53 42.71

Lat/Lon WGS 1984

zoom to point

Go

7Q10 Query Results

Stream Name	Cabin Run
Stream Code	OLK-31-L-62
WV Code	WV/LKH-10-EE
Drainage Area	7.358 sq mi

Exceptions and Warnings

- Regulated Flow N
- Known Losing Stream NA
- Potential Karst Influence N
- Potential Non-Perennial N

Gage-based Estimates

Method	
Upstream Gage	
Downstream Gage	
Annual 7Q10	cfs
Spring 7Q10	cfs
Summer 7Q10	cfs
Fall 7Q10	cfs
Winter 7Q10	cfs

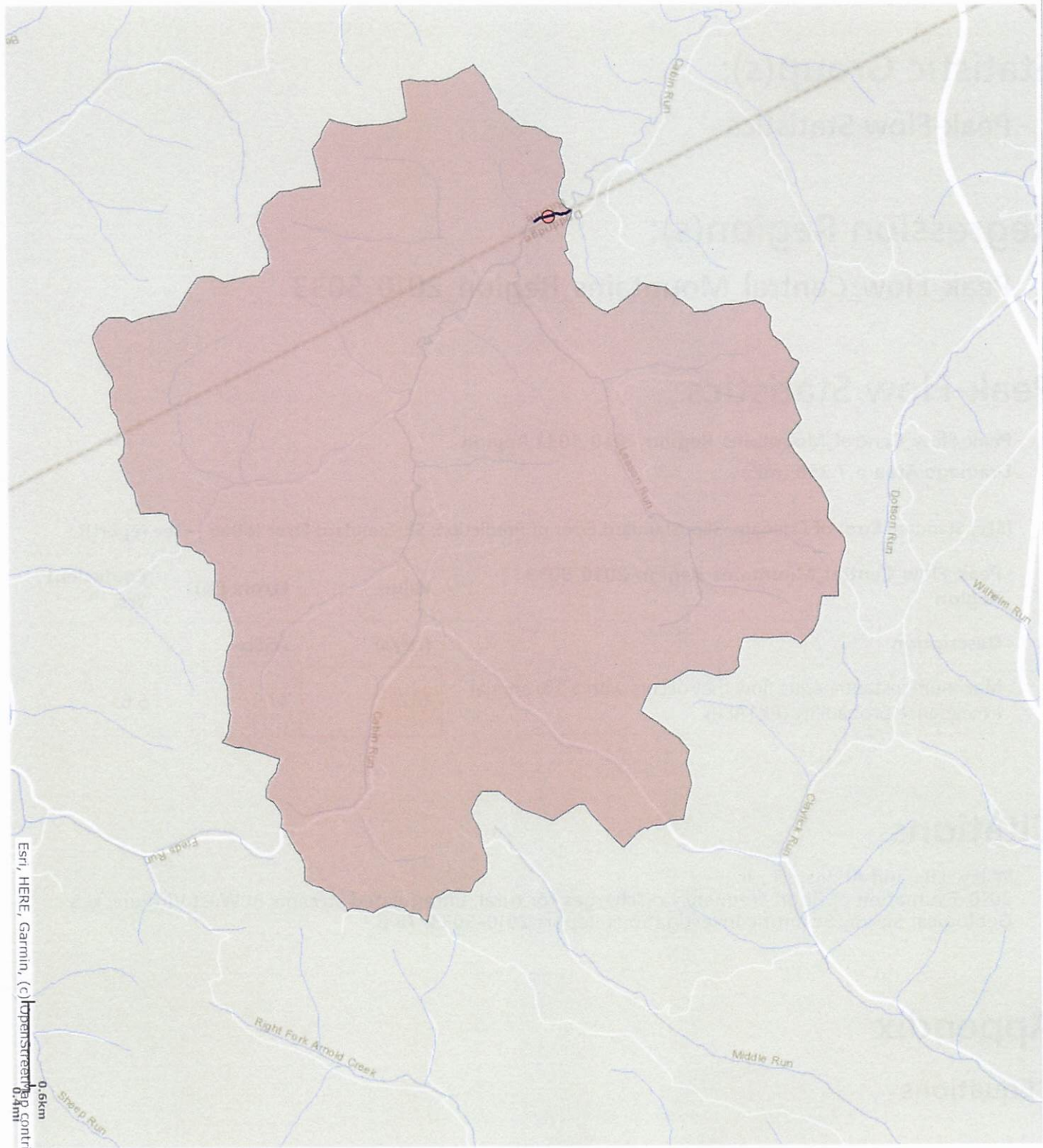
Regional Estimates

Annual 7Q10	0.002 cfs
Spring 7Q10	0.067 cfs
Summer 7Q10	0.002 cfs
Fall 7Q10	0.014 cfs
Winter 7Q10	0.530 cfs
Spring D50	2.928 cfs
Summer D50	0.240 cfs
Fall D50	1.177 cfs
Winter D50	7.633 cfs
D75	0.372 cfs
Harmonic Mean	0.135 cfs

Guidance:

This stream is not proximate to a stream gage. Use the regional estimate.

flow calculation methods



NSS Report

September 24, 2024 03:47PM

Study Area:

West Virginia

Statistic Group(s):

Peak-Flow Statistics

Regression Region(s):

Peak_Flow_Central_Mountains_Region_2010_5033

Peak-Flow Statistics

Peak_Flow_Central_Mountains_Region_2010_5033 Region
Drainage Area = 7.358 (mi²)

[SEe, Standard Error of Estimate; SEp, Standard Error of Prediction; SE, Standard Error (other -- see report)]

Peak_Flow_Central_Mountains_Region_2010_5033 Region	Value	Errors (%)	Equivalent Yrs.
Description	(ft ³ /s)	ASEp	
Maximum instantaneous flow that occurs with a 1% annual exceedance probability (PK1AEP)	1470	47.9	5.6

Citations

Wiley, J.B., and Atkins, J.T., Jr.,
2010, Estimation of flood-frequency discharges for rural, unregulated streams in West Virginia: U.S.
Geological Survey Scientific Investigations Report 2010–5033, 78 p.

Appendix

Equations

Peak_Flow_Central_Mountains_Region_2010_5033

$$PK1AEP = 297 \cdot DRNAREA^{0.800}$$

Explanatory Variable Definitions

Name	Abbrev	Description
Drainage Area	DRNAREA	Area that drains to a point on a stream

Unit Types

Abbrev	Unit
(mi ²)	square miles

APPENDIX D
HEC-RAS FLOW COMPARISON – EXCEL SHEET
CABIN RUN
RITCHIE COUNTY, WV

HEC-RAS River :Cabin Run Profile: PF 1						
Reach	River Sta	Profile	Plan	Q Total	Min Ch El	W.S. Elev
				(cfs)	(ft)	(ft)
Reach 1	430	PF 1	Prop 100 yr	1470	793.97	799.57
Reach 1	430	PF 1	Ex 100 yr	1470	793.97	799.57
Reach 1	368	PF 1	Prop 100 yr	1470	793.97	799.53
Reach 1	368	PF 1	Ex 100 yr	1470	793.97	799.53
Reach 1	276	PF 1	Prop 100 yr	1470	793.97	799.43
Reach 1	276	PF 1	Ex 100 yr	1470	793.97	799.43
Reach 1	275			Bridge		
Reach 1	222	PF 1	Prop 100 yr	1470	793.97	799.33
Reach 1	222	PF 1	Ex 100 yr	1470	793.97	799.33
Reach 1	113	PF 1	Prop 100 yr	1470	797.25	799.15
Reach 1	113	PF 1	Ex 100 yr	1470	797.25	799.15
Reach 1	41	PF 1	Prop 100 yr	1470	793.97	798.85
Reach 1	41	PF 1	Ex 100 yr	1470	793.97	798.85



ATTACHMENT D PERMITTING & COORDINATION TABLE

Permitting & Coordination Table

Permitting Agency	Permit/Coordination Required	Submitted	Received (Anticipated)	Status
USACE ¹	NWP 58	10/04/24	(11/18/24)	PCN Required
	Mitigation Plan	Not Applicable	Not Applicable	Not Required
USFWS ²	Threatened & Endangered Federal Species (Section 7 Coordination)	Official Species List and Determination Keys were Provided for USACE to Initiate Section 7 (SLOPES) with USFWS.		Required
WVSHPO ³	Section 106 Coordination	A Cultural Resources Literature Review was Provided to Support USACE's Determination of Potential Affects.		Required
	Phase I & Architectural Survey			
WVDNR-OLS ⁴	Stream Activity Applications	10/03/24	(11/02/24)	Pending
WVDNR-WRS ⁵	Threatened & Endangered State Species	09/17/24	09/19/24	Approved
	Spawning Waiver	To Be Determined	To Be Determined	To Be Determined
County Floodplain	Ritchie County Floodplain Application	To Be Submitted	To Be Submitted	To Be Submitted
	Doddridge County Floodplain Application	10/08/24	(11/07/24)	Pending
WVDEP ⁶	401 WQC Program Notification	10/04/24	10/07/24	Approved
	NPDES ⁷ Permit	Not Applicable	Not Applicable	Not Required
	Construction Stormwater General Permit	To Be Submitted	To Be Submitted	To Be Submitted
WVDOH ⁸	Utility Permit	To Be Submitted	To Be Submitted	To Be Submitted

- 1 United States Army Corps of Engineers
- 2 United States Fish and Wildlife Service
- 3 West Virginia Division of Culture and History, State Historic Preservation Office
- 4 West Virginia Division of Natural Resources Office of Land and Stream
- 5 West Virginia Division of Natural Resources – Wildlife Resources Section
- 6 West Virginia Department of Environmental Protection
- 7 National Pollutant Discharge Elimination System
- 8 West Virginia Division of Highways

The Doddridge Independent

The Doddridge Independent PUBLISHER'S CERTIFICATE

I, Michael D. Zorn, Publisher of The Doddridge Independent, A newspaper of general circulation published in the town of West Union, Doddridge County, West Virginia, do hereby certify that:

Please take notice that on the (9th) of (October), 2024, (Antero Midstream) filed an application for a Floodplain Permit (#24-669) to develop land located at or about (Doddridge/ Ritchie Line); Coordinates: 3 Stream crossings 39.277425, -80.906045 Dotson #1, 39.274834, -80.899607 Dotson# 2 and 39.242776, -80.894586 Cabin run. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance with WV Code. Chapter 29B Freedom of Information, Article 1 Public

was published in The Doddridge Independent
2 times commencing on Friday, October 18, 2024 and
Ending on Friday, October 25, 2024 at the request of:

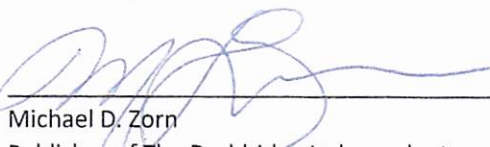
**George Eidel, Doddridge County Floodplain
Manager & Doddridge County Commission**

Given under my hand this Monday, October 28, 2024

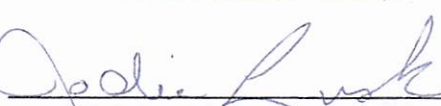
The publisher's fee for said publication is:

\$ 31.05 1st Run/\$ 23.29 Subsequent Runs

This Legal Ad Total: \$ 54.34


Michael D. Zorn
Publisher of The Doddridge Independent

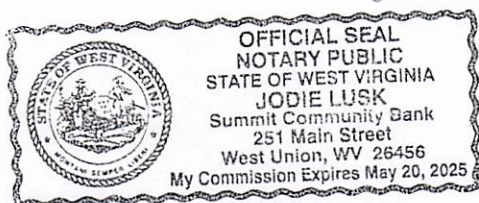
Subscribed to and sworn to before me on
this date: 10/29/24


Notary Public in and for Doddridge County
My Commission expires on

The 20 day of May 2025

Floodplain Public Notice • Legal Notice

Please take notice that on the (9th) of (October), 2024, (Antero Midstream) filed an application for a Floodplain Permit (#24-669) to develop land located at or about (Doddridge/ Ritchie Line); Coordinates: 3 Stream crossings 39.277425, -80.906045 Dotson #1, 39.274834, -80.899607 Dotson# 2 and 39.242776, -80.894586 Cabin run. The Application is on file with the Floodplain Manager of the County and may be inspected or copied during regular business hours in accordance with WV Code. Chapter 29B Freedom of Information, Article 1 Public Records and county policy and procedures. Any interested persons who desire to comment shall present the same in writing by (November 25, 2024) (20 calendar days after the announcement at the regularly scheduled Doddridge County Commission Meeting) delivered to the Floodplain Manager of the County at 99 Court Street, Suite 128, West Union, WV 26456. This project is Annie to Lynn camp Waterline. C2 10/18 - 10/25



The Doddridge Independent, LLC
187 Main Street
West Union, WV 26456
+13048448040

Invoice

**BILL TO**

George Eidel
Doddridge County OES/Floodplain
99 Court Street, Suite 128
West Union, WV 26456-2095 USA

COPY

INVOICE #	DATE	TOTAL DUE	DUE DATE	TERMS	ENCLOSED
6587	10/29/2024	\$108.68	11/28/2024	Net 30	

020-718-220

DATE	ACCOUNT SUMMARY	AMOUNT
09/23/2024	Balance Forward	290.68
	Other payments and credits after 09/23/2024 through 10/28/2024	-290.68
10/29/2024	Other invoices from this date	0.00
	New charges (details below)	108.68
	Total Amount Due	108.68

ACTIVITY	QTY	RATE	AMOUNT
Legal Ad Class 2	1	54.34	54.34
Class 2 Legal Ad - #24-668			
Legal Ad Class 2	1	54.34	54.34
Class 2 Legal Ad - #24-669			
Thank you for your business...			
	SUBTOTAL		108.68
	TAX		0.00
	TOTAL		108.68
	TOTAL OF NEW CHARGES		108.68
	BALANCE DUE		\$108.68

FLOOD PLAIN ORDINANCE

99 COURT STREET, SUITE 233
WEST UNION, WV 26456

101

69-222/622

03051

11-7-2024

Date

CHECK NUMBER

Pay to the
Order of

The Doddridge Independent \$ 108.68
One hundred eight 68 Dollars



For

INV # 6587

[Handwritten signature]
Doddridge Independent

⑆052202225⑆ 5100001726⑈ 0101

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Matthew & Barbara McKinney
c/o Emma Sandridge
3204 Northwest Turnpike
Pennsboro, WV 26415



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| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
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Doddridge County Office of
Emergency Management/Floodplain
99 Court Street, Suite 128
West Union, WV 26456

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Matthew & Barbara McKinney
c/o Emma Sandridge
3204 Northwest Turnpike
Pennsboro, VA 22415

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REFUSED
UNABLE TO FORWARD

REF BC: 26456201599 *1171-01005-10-42

26415264562015



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1. Article Addressed to:

Anne Robinson
220 A and B Lane
Pennsboro, WV 26415



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James Robinson

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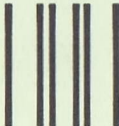
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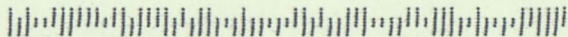
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Doddridge County Office of
Emergency Management/Floodplain
99 Court Street, Suite 128
West Union, WV 26456

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1. Article Addressed to:

Hope Gas, Inc.
781 Chestnut Ridge Road
Morgantown, WV 26505



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Kylee Sanda

10/22/24

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☐ Collect on Delivery

☐ Collect on Delivery Restricted Delivery

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WV Railroad Maintenance Authority
P.O. Box 470
Moorefield, WV 26836



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Anita K Long

☐ Agent

☐ Addressee

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Anita K Long

C. Date of Delivery

10/15/2024

D. Is delivery address different from item 1?

☒ Yes

If YES, enter delivery address below:

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3. Service Type

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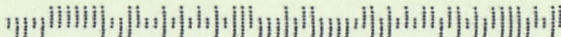
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1. Addressed to:

Dotson
Turnpike
Ft. Ins. 115



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2. Article Number (Transfer from service label)

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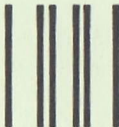
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If YES, enter delivery address below: ☐ No

3. Service Type

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

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- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
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Denver B. Lamb
3640 Northwest Turnpike
Pennsboro, WV 26415



9590 9402 7059 1225 4220 52

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Denver Lamb*

☐ Agent

☒ Addressee

B. Received by (Printed Name)

Denver Lamb

C. Date of Delivery

10-15-2024

D. Is delivery address different from item 1?

☐ Yes

If YES, enter delivery address below:

☒ No

3. Service Type

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

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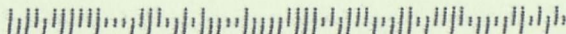
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Emergency Management/Floodplain
99 Court Street, Suite 128
West Union, WV 26456

24-669

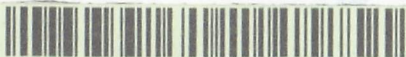


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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ann Robinson
36 Northwest Turnpike
Petersboro, WV 26415



9590 9402 7059 1225 4220 07

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☒ Addressee

B. Received by (Printed Name)

Tiffany Robinson

C. Date of Delivery

10-25-24

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

3. Service Type

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

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

USPS TRACKING #



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

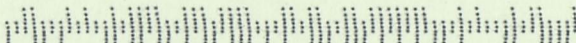
9590 9402 7059 1225 4220 07

**United States
Postal Service**

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

Doddridge County Office of
Emergency Management/Floodplain
99 Court Street, Suite 128
West Union, WV 26456

24-669



SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Perkins Land Company, LLC
P.O. Box 547
Pennsboro, WV 26415



9590 9402 7059 1225 4220 83

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

☐ Agent

☒ Addressee

C. Date of Delivery

10-15-24

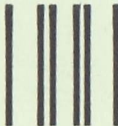
D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

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

- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

USPS TRACKING #



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

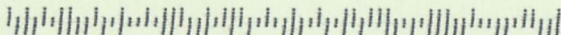
9590 9402 7059 1225 4220 83

**United States
Postal Service**

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

Doddridge County Office of
Emergency Management/Floodplain
99 Court Street, Suite 128
West Union, WV 26456

24-669



SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Arthur G. & Melissa A. Payne
P.O. Box 335
Pennsboro, WV 26415



9590 9402 7059 1225 4220 45

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Rachel Andrews

☐ Agent

☒ Addressee

B. Received by (Printed Name)

Rachel Andrews

C. Date of Delivery

10-15-24

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

3. Service Type

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

☐ Priority Mail Express®

☐ Registered Mail™

☐ Registered Mail Restricted Delivery

☐ Signature Confirmation™

☐ Signature Confirmation Restricted Delivery

USPS TRACKING #



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

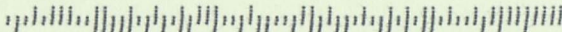
9590 9402 7059 1225 4220 45

**United States
Postal Service**

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

Doddridge County Office of
Emergency Management/Floodplain
99 Court Street, Suite 128
West Union, WV 26456

24-669



SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Danny L. & Kerri Jo Lipscomb
P.O. Box 97
Smithburg, WV 26436



9590 9402 7059 1225 4220 76

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

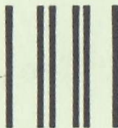
D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

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

☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery

USPS TRACKING #



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

9590 9402 7059 1225 4220 76

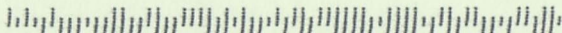
**United States
Postal Service**

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

Doddridge County Office of
Emergency Management/Floodplain
99 Court Street, Suite 128
West Union, WV 26456

24-669

6-201599



SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Waco Oil & Gas Corporation
P.O. Box 397
Glenville, WV 26351



9590 9402 7059 1225 4219 94

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

☐ Agent

☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

Sept 16, 1994

D. Is delivery address different from item 1? ☐ Yes

If YES, enter delivery address below: ☐ No

3. Service Type

☐ Adult Signature

☐ Adult Signature Restricted Delivery

☐ Certified Mail®

☐ Certified Mail Restricted Delivery

☐ Collect on Delivery

☐ Collect on Delivery Restricted Delivery

☐ Insured Mail

☐ Insured Mail Restricted Delivery
(over \$500)

☐ Priority Mail Express®

☐ Registered Mail™

☐ Registered Mail Restricted
Delivery

☐ Signature Confirmation™

☐ Signature Confirmation
Restricted Delivery

USPS TRACKING #



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

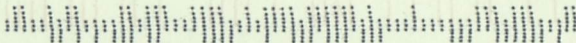
9590 9402 7059 1225 4219 94

**United States
Postal Service**

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

Doddridge County Office of
Emergency Management/Floodplain
99 Court Street, Suite 128
West Union, WV 26456

24-669



SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

Brenda J. Tremmell
729 Lynn Camp
Pennsboro, WV 26415



9590 9402 7059 1225 4221 06

2. Article Number (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Brenda Tremmell

☐ Agent

☐ Addressee

B. Received by (Printed Name)

Brenda Tremmell

C. Date of Delivery

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

3. Service Type

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

☐ Priority Mail Express®

☐ Registered Mail™

☐ Registered Mail Restricted Delivery

☐ Signature Confirmation™

☐ Signature Confirmation Restricted Delivery

USPS TRACKING #



CHARLESTON WV 250

12 OCT 2024 PM 2 L



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

9590 9402 7059 1225 4221 06

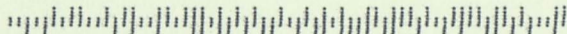
**United States
Postal Service**

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

Doddridge County Office of
Emergency Management/Floodplain
99 Court Street, Suite 128
West Union, WV 26456

24-669

6-201599



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DC
FRM

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

OFFICIAL USE

Certified Mail Fee

\$

4.85

Extra Services & Fees (check box, add fee as appropriate)

☒ Return Receipt (hardcopy)

\$

4.10

☐ Return Receipt (electronic)

\$

☐ Certified Mail Restricted Delivery

\$

☐ Adult Signature Required

\$

☐ Adult Signature Restricted Delivery

\$

Postage

\$

.69

Total Postage and Fees

\$

9.64

Sent To

Street and Apt. No., or PO Box No.

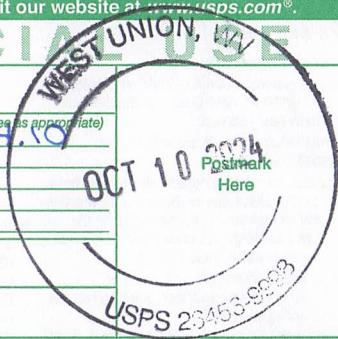
City, State, ZIP+4®

JoAnn Robinson

3642 Northwest Turnpike

Peninsboro, WV 26415

24-669



7022 1670 0003 1400 9882

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

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DC
FROM

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

OFFICIAL USE

Certified Mail Fee

\$

4.85

Extra Services & Fees (check box, add fee as appropriate)

☒ Return Receipt (hardcopy)

\$

4.10

☐ Return Receipt (electronic)

\$

☐ Certified Mail Restricted Delivery

\$

☐ Adult Signature Required

\$

☐ Adult Signature Restricted Delivery

\$

Postage

\$

1.69

Total Postage and Fees

\$

9.64

Sent To

Waco Oil & Gas Corp.

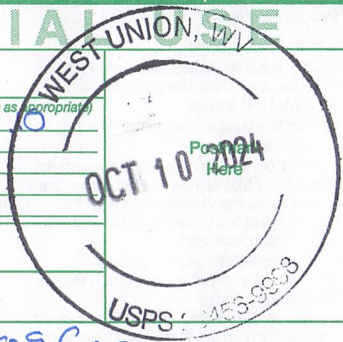
Street and Apt. No., or PO Box No.

P.O. Box 397

City, State, ZIP+4®

Glenview, WV 26351

24-669



2022 1670 0003 1400 9899

U.S. Postal Service™
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OFFICIAL USE

Certified Mail Fee

\$

Extra Services & Fees (check box, add fee as appropriate)

- ☒ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

Postage

\$

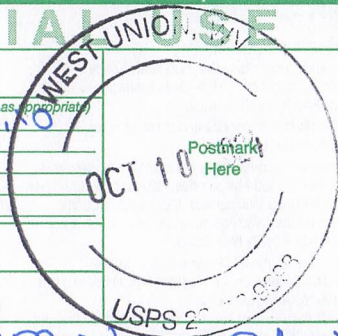
Total Postage and Fees

\$

Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®



2022 1670 0003 1400 9875

DC
FPM

4.85

4.10

.69

9.64

WV Railroad Maintenance Authority

P.O. Box 470

Moorefield, WV 26836

24-669

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FPM

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OFFICIAL USE

Certified Mail Fee

\$ 4.85

Extra Services & Fees (check box, add fee as appropriate)

☒ Return Receipt (hardcopy) \$ 4.95

☐ Return Receipt (electronic) \$

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage

\$.69

Total Postage and Fees

\$ 9.64

Sent To

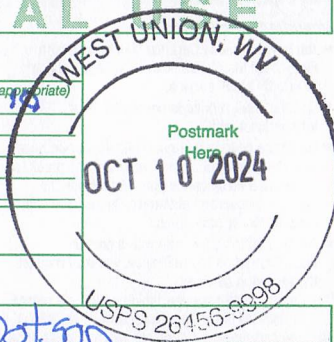
Street and Apt. No., or PO Box No.

City, State, ZIP+4®

Katrina D. Dotson
2054 Northwest Turnpike
Pennsboro, WV 26415 24-669

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7022 1670 0003 1400 9866

U.S. Postal Service™
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FPM

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OFFICIAL USE

Certified Mail Fee

\$ 4.85

Extra Services & Fees (check box, add fee as appropriate)

- ☒ Return Receipt (hardcopy) \$ 4.10
☐ Return Receipt (electronic) \$ _____
☐ Certified Mail Restricted Delivery \$ _____
☐ Adult Signature Required \$ _____
☐ Adult Signature Restricted Delivery \$ _____

Postage

\$.69

Total Postage and Fees

\$ 9.64

Sent To

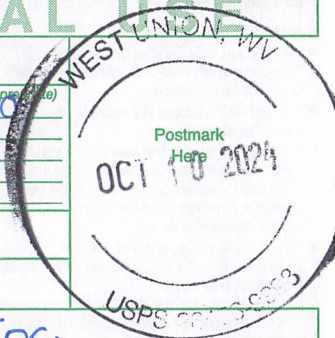
Street and Apt. No., or PO Box No.

City, State, ZIP+4®

Hope Gas, Inc.
281 Chestnut Ridge Rd.
Morgantown, WV 26505 24669

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7022 1670 0003 1400 9851

U.S. Postal Service™
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FPM

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OFFICIAL USE

Certified Mail Fee

4.85

\$

Extra Services & Fees (check box, add fee as appropriate)

☒ Return Receipt (hardcopy) \$ 4.10

☐ Return Receipt (electronic) \$

☐ Certified Mail Restricted Delivery \$

☐ Adult Signature Required \$

☐ Adult Signature Restricted Delivery \$

Postage

.69

\$

Total Postage and Fees

9.64

\$

Sent To

Arthur G. & Melissa A. Payne

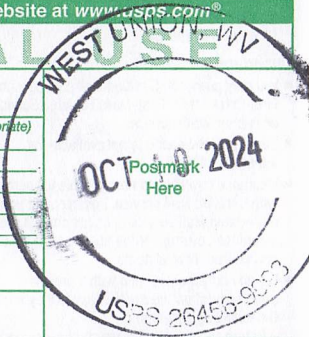
Street and Apt. No., or PO Box No.

P.O. Box 335

City, State, ZIP+4®

Pennsboro, WV 26415

24-669



7022 1670 0003 1400 9844

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

DC
FPM

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OFFICIAL USE

Certified Mail Fee

\$ 4.85

Extra Services & Fees (check box, add fee as appropriate)

- ☒ Return Receipt (hardcopy) \$ 4.10
☐ Return Receipt (electronic) \$ _____
☐ Certified Mail Restricted Delivery \$ _____
☐ Adult Signature Required \$ _____
☐ Adult Signature Restricted Delivery \$ _____

Postage

\$.69

Total Postage and Fees

\$ 9.64

Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

Denver B. Lamb
3640 Northwest Turnpike
Pennsboro, WV 26415 24-669



7022 1670 0003 1400 9837

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

DC
FPM

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

OFFICIAL USE

Certified Mail Fee

4.75

\$

Extra Services & Fees (check box, add fee as appropriate)

☒ Return Receipt (hardcopy)

\$

4.10

☐ Return Receipt (electronic)

\$

☐ Certified Mail Restricted Delivery

\$

☐ Adult Signature Required

\$

☐ Adult Signature Restricted Delivery

\$

Postage

.69

\$

Total Postage and Fees

9.64

\$

Sent To

Anne Robinson

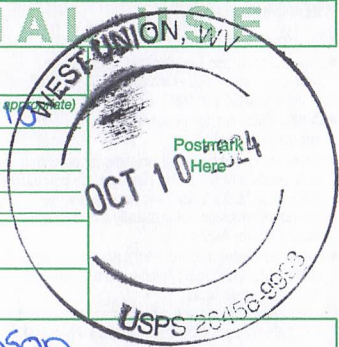
Street and Apt. No., or PO Box No.

220 Band Bln.

City, State, ZIP+4®

Pennsboro, WV 26415

24-669



7022 1670 0003 1400 9820

U.S. Postal Service™
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DC
FRM

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OFFICIAL USE

Certified Mail Fee

4.85

\$

Extra Services & Fees (check box, add fee as appropriate)

☒ Return Receipt (hardcopy)

\$

4.10

☐ Return Receipt (electronic)

\$

☐ Certified Mail Restricted Delivery

\$

☐ Adult Signature Required

\$

☐ Adult Signature Restricted Delivery

\$

Postage

.69

\$

Total Postage and Fees

9.64

\$

Sent To

Danny L. Kerrido Lipscomb

Street and Apt. No., or PO Box No.

P.O. Box 97

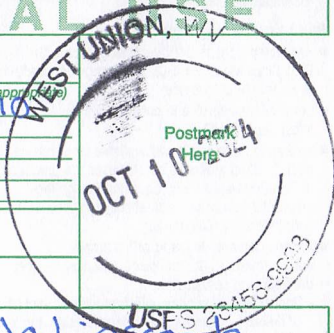
City, State, ZIP+4®

Smithburg, WV 26436

24-669

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7022 1670 0003 1400 9813

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Domestic Mail Only

DC
FPM

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OFFICIAL USE

Certified Mail Fee

\$ 4.85

Extra Services & Fees (check box, add fee as appropriate)

- ☒ Return Receipt (hardcopy) \$ 4.10
☐ Return Receipt (electronic) \$ _____
☐ Certified Mail Restricted Delivery \$ _____
☐ Adult Signature Required \$ _____
☐ Adult Signature Restricted Delivery \$ _____

Postage

\$.69

Total Postage and Fees

\$ 9.64

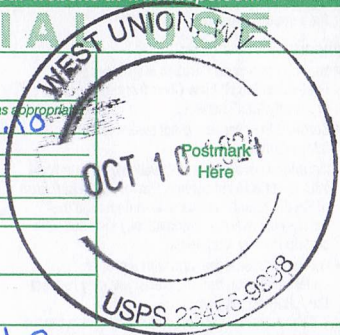
Sent To

Street and Apt. No., or PO Box No.

City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047

See Reverse for Instructions



7022 1670 0003 1400 9806

Perkins Land Co., LLC

P.O. Box 547

Pennsboro, WV 26415

24-669

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

DC
FPM

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

OFFICIAL USE

Certified Mail Fee

4.85

\$

Extra Services & Fees (check box, add fee as appropriate)

☒ Return Receipt (hardcopy)

\$

4.10

☐ Return Receipt (electronic)

\$

☐ Certified Mail Restricted Delivery

\$

☐ Adult Signature Required

\$

☐ Adult Signature Restricted Delivery

\$

Postage

.69

\$

Total Postage and Fees

9.64

\$

Sent To

Matthew & Barbara McKinnon
Street and Apt. No., or PO Box No.

3204 Northwest Turnpike

City, State, ZIP+4®

Pennsboro, WV 26415

24-669



7022 1670 0003 1400 9790

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT

Domestic Mail Only

DC
FAM

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OFFICIAL USE

Certified Mail Fee

\$ 4.85

Extra Services & Fees (check box, add fee as appropriate)

- ☒ Return Receipt (hardcopy) \$ 4.10
☐ Return Receipt (electronic) \$ _____
☐ Certified Mail Restricted Delivery \$ _____
☐ Adult Signature Required \$ _____
☐ Adult Signature Restricted Delivery \$ _____

Postage

\$.69

Total Postage and Fees

\$ 9.64

Sent To

Brenda J. Tremmell

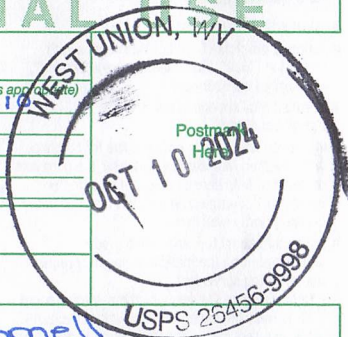
Street and Apt. No., or PO Box No.

729 Lynn Camp

City, State, ZIP+4®

Pennsboro, WV 26415

24-669



7022 1670 0003 1400 9783