

Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

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

Permit: #14-315 ~ Antero Resources ~ Ramsey's Ridge Road Upgrade

Date Approved: 11/13/2014

Expires: N/A

Issued to: Antero Resources

**POC: Rachel Grzybek
304-842-4008**

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

**Project Address: Central District
Lat/Long: 39.294810N/80.837163W to 39.301061N/80.844742W**

Purpose of development: Road upgrade project. Project does not impact floodplain.

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

Date: 11/13/2014

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

Legal Advertisement:
Doddridge County
Floodplain Permit Application

Please take notice that on the 8th day of November, 2014

Antero Resources

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

Central District

39.294810N/80.837163W to 39.301061N/80.844742W

Permit #14-315 Ramsey's Ridge Road Upgrade Project

(Note: This project is not within the floodplain)

The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. As this project is outside the FEMA identified floodplain of Doddridge County, Doddridge County Floodplain Management has no regulatory authority. Any interested persons who desire to comment shall present the same in writing by **December 08, 2014**, delivered to:

Clerk of the County Court

118 E. Court Street, West Union, WV 26456

Beth A Rogers, Doddridge County Clerk

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



Antero Resources
535 White Oaks Blvd.
Bridgeport, WV 26330
Office 304.842.4100
Fax 304.842.4102

November 7, 2014

Doddridge County Commission
Attn: Bo Wriston, Doddridge County Floodplain Manager
118 East Court Street, Room 102
West Union, WV 26456

Mr. Wriston:

Antero Resources Corporation would like to submit a Doddridge County Floodplain permit application for Ramseys Ridge Road Upgrade. Our project is located in Doddridge County, Central District where the road upgrade begins at coordinates 39.294810 N, 80.837163 W and will continue to Balli Pad site entrance at coordinates 39.301061 N, 80.844742 W. Per the FIRM Maps #54017C0115C, this location is out of the floodplain.

Attached you will find the following:

- Doddridge County Floodplain Permit Application
- Surface Owner Information
- FIRM Map
- WV Flood Tool Map
- Site Design Plans

If you have any questions please feel free to contact me at (304) 842-4008.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Grzybek".

Rachel Grzybek
Floodplain Engineer
Antero Resources Appalachian Corporation

Enclosures

DODDRIDGE COUNTY FLOODPLAIN DEVELOPMENT PERMIT APPLICATION

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

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

APPLICANT'S SIGNATURE



DATE November 7, 2014

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

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

APPLICANT'S NAME: Antero Resources Corporation - Randy Kloberdanz,

ADDRESS: 1615 Wynkoop Street, Denver, CO 80202

TELEPHONE NUMBER: Contact Rachel Grzybek: (304) 842-4008

BUILDER'S NAME: Antero Resources Corporation
ADDRESS: 1615 Wynkoop Strett, Denver, CO 80202
TELEPHONE NUMBER: (303)-357-7310

ENGINEER'S NAME: Hannah Engineering
ADDRESS: 1121 Beverly Pikes, Elkins, WV 26241
TELEPHONE NUMBER: (304) 636-7777

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) See Surface Owner Information

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) _____

DISTRICT: _____

DATE/FROM WHOM PROPERTY

PURCHASED: _____

LAND BOOK DESCRIPTION: _____

DEED BOOK REFERENCE: See Surface Owner Information

TAX MAP REFERENCE: See Surface Owner Information

EXISTING BUILDINGS/USES OF PROPERTY: _____

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY See Surface Owner Information

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

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

DESCRIPTION OF WORK (CHECK ALL APPLICABLE BOXES)

A. STRUCTURAL DEVELOPMENT

ACTIVITY

STRUCTURAL TYPE

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

B. OTHER DEVELOPMENT ACTIVITIES:

- Fill Mining Drilling Pipelining
- Grading
- Excavation (except for STRUCTURAL DEVELOPMENT checked above)
- Watercourse Altercation (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)
-

C. STANDARD SITE PLAN OR SKETCH

- 1. SUBMIT ALL STANDARD SITE PLANS, IF ANY HAVE BEEN PREPARED.**
- 2. IF STANDARD SITE PLANS HAVE NOT BEEN PREPARED:**
SKETCH ON A SEPARATE 8 ½ X 11 INCH SHEET OF PAPER THE SHAPE AND LOCATION OF THE LOT. SHOW THE LOCATION OF THE INTENDED CONSTRUCTION OR LAND USE INDICATING BUILDING SETBACKS, SIZE & HEIGHT. IDENTIFY EXISTING BUILDINGS, STRUCTURES OR LAND USES ON THE PROPERTY.
- 3. SIGN AND DATE THE SKETCH.**

ACTUAL TOTAL CONSTRUCTION COSTS OF THE COMPLETE DEVELOPMENT IRRESPECTIVE OF WHETHER ALL OR ANY PART OF THE SUBJECT PROPOSED CONSTRUCTION PROJECT IS WITHIN THE FLOODPLAIN \$ N/A - Location is not within the floodplain

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

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

NAME: N/A-No properties sharing an
 ADDRESS: immediate and common boundary
up or down stream due to the
location not being in floodplain

NAME: _____
 ADDRESS: _____

NAME: _____
 ADDRESS: _____

NAME: _____
 ADDRESS: _____

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

NAME: N/A-No properties sharing an
 ADDRESS: immediate and common boundary
up or down stream due to the
location not being in floodplain

NAME: _____
 ADDRESS: _____

NAME: _____
 ADDRESS: _____

NAME: _____
 ADDRESS: _____

E. CONFIRMATION FORM

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

- (A) PERSONAL SERVICE OF PROCESS BY THE DODDRIDGE COUNTY SHERIFF AT THE RATES PERMITTED BY LAW FOR SUCH SERVICE.
- (B) SERVICE BY CERTIFIED MAIL RETURN RECEIPT REQUESTED.
- (C) PUBLICATION.

- (D) COURT REPORTING SERVICES AT ANY HEARINGS REQUESTED BY THE APPLICANT.
- (E) CONSULTANTS AND/OR HEARING EXPERTS UTILIZED BY DODDRIDGE COUNTY FLOODPLAIN ADMINISTRATOR/MANAGER OR FLOODPLAIN APPEALS BOARD FOR REVIEW OF MATERIALS AND/OR TESTIMONY REGARDING THE EFFICACY OF GRANTING OR DENYING THE APPLICANT'S FLOODPLAIN PERMIT.

NAME (PRINT): Randy Kloberdanz

SIGNATURE:  DATE: November 7, 2014

After completing SECTION 2, APPLICANT should submit form to Floodplain Administrator/Manager or his/her representative for review.

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

THE PROPOSED DEVELOPMENT:

THE PROPOSED DEVELOPMENT IS LOCATED ON:

FIRM Panel: _____

Dated: _____

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

Is located in Special Flood Hazard Area.
 FIRM zone designation _____
 100-Year flood elevation is: _____ NGVD (MSL)

Unavailable

The proposed development is located in a floodway.
 FBFM Panel No. _____ Dated _____

See section 4 for additional instructions.

SIGNED _____

DATE _____

SECTION 4: ADDITIONAL INFORMATION REQUIRED (To be completed by Floodplain Administrator/Manager or his/her representative)

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

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

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

- Subdivision or other development plans (If the subdivision or development exceeds 50 lots or 5 acres, whichever is the lesser, the applicant must provide 100-year flood elevations if they are not otherwise available).

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

- Top of new fill elevation _____ Ft. NGVD (MSL).
For floodproofing structures applicant must attach certification from registered engineer or architect.

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

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

Other:

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

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

SIGNED _____ DATE _____

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

APPEALS: Appealed to the County Commission of Doddridge County? Yes No

Hearing Date: _____

County Commission Decision - Approved Yes No

CONDITIONS: _____

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

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

COMPLETE 1 OR 2 BELOW:

- 1 Actual (As-Built) Elevation of the top of the lowest floor (including basement or crawl space is _____ FT. NGVD (MSL)
- 2 Actual (As Built) elevation of floodproofing is _____ FT. NGVD (MSL)

Note: Any work performed prior to submittal of the above information is at risk of the applicant.

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

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

INSPECTIONS:

DATE: _____ BY: _____
DEFICIENCIES ? Y/N

COMMENTS _____

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

Certificate of Compliance issued: DATE: _____ BY: _____

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

PERMIT NUMBER: _____

PERMIT DATE: _____

PURPOSE –

CONSTRUCTION LOCATION: _____

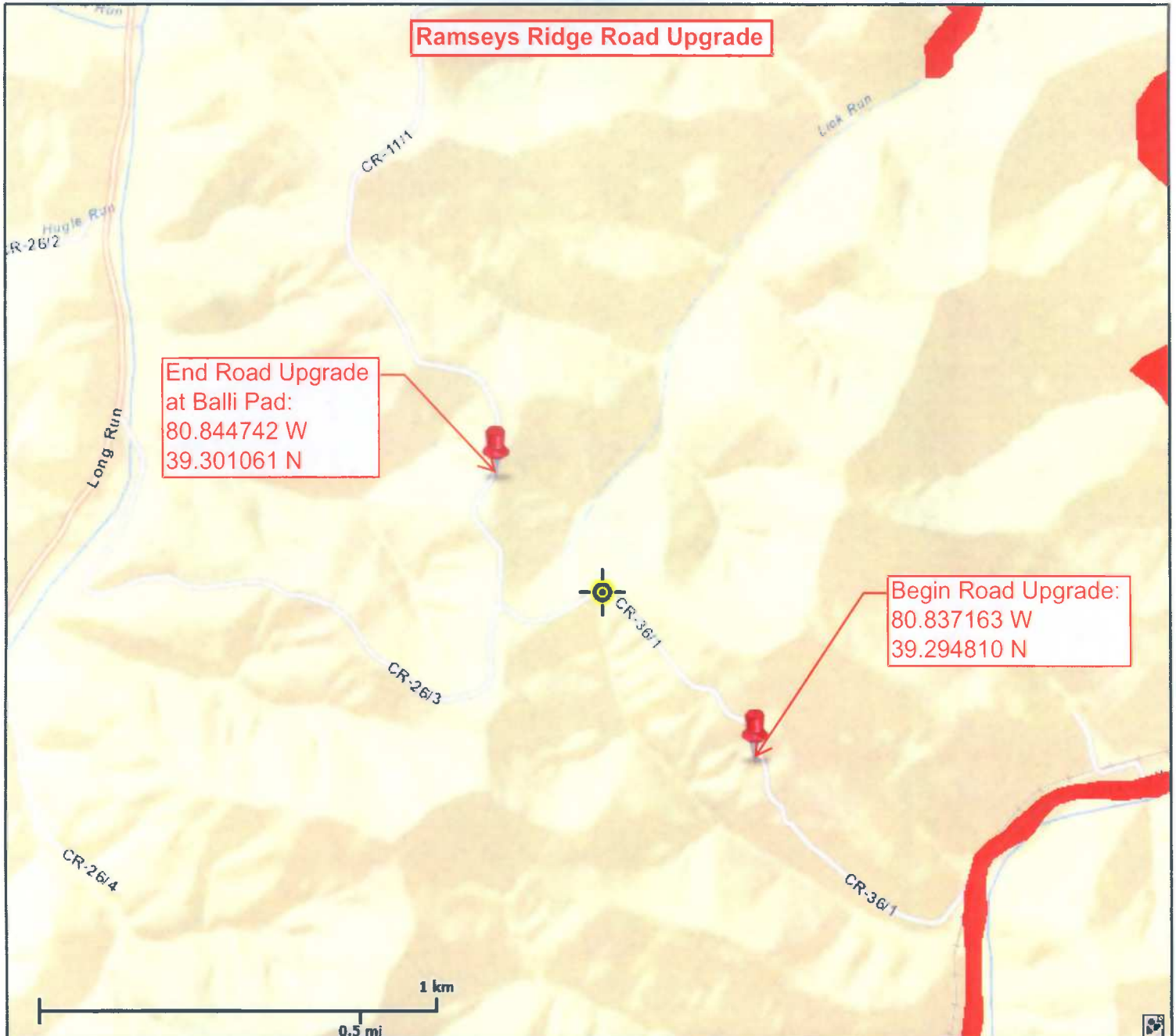
OWNER'S ADDRESS: _____

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

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



SIGNED _____ **DATE** _____

WV Flood Map



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

Map Created on 10/27/2014

 Location of the mouse click
 **Flood Hazard Zone**
 (1% annual chance floodplain)

User Notes:

Disclaimer:
 The online map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. To obtain more detailed information in areas where Base Flood Elevations have been determined, users are encouraged to consult the latest Flood Profile data contained in the official flood insurance study. These studies are available online at www.msc.fema.gov.

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

Flood Hazard Area:
 Elevation: About 1056 feet
 Location (long, lat): 80.841638 W, 39.298021 N
 Location (UTM 17N): (513655, 4349861)
 FEMA Issued Flood Map: 54017C0115C
 Contacts: Doddridge County
 CRS Information: N/A
 Parcel Number:

STATE OF WEST VIRGINIA,
COUNTY OF DODDRIDGE, TO WIT

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

Floodplain Permit
X 14-315

was published in said paper for ... *2* ...

successive weeks beginning with the issue
of ... *November 18th* ... 2014 and
ending with the issue of

... *November 25th* ... 2014 and

that said notice contains ... *210* ...

WORD SPACE at ... *115* ... cents a word

amounts to the sum of \$... *24.15* ...

FOR FIRST PUBLICATION, SECOND
PUBLICATION IS 75% OF THE FIRST
PUBLICATION

\$... *18.12* ...

and each publication thereafter

\$... *42.27* ... TOTAL

EDITOR

Virginia Nicholson

SWORN TO AND SUBSCRIBED

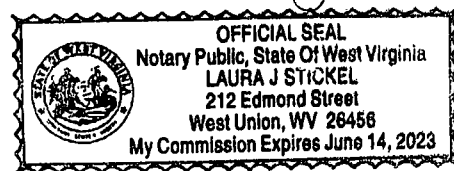
BEFORE ME THIS THE ... *25th* ... DAY

OF ... *November* ... 2014

NOTARY PUBLIC

Laura J Stickel

LEGAL ADVERTISEMENT:
Doddridge County
Floodplain Permit Application
Please take notice that on the 8th day of November,
2014 Antero Resources filed an application for a
Floodplain Permit to develop land located about
Central District 39.294810N/80.837163W to
39.301061N/80.843742W Permit #14-315 Ramsey's Ridge
Road Upgrade Project. (Note: This project is not within
the floodplain). The Application is on file with the Clerk
of the County Court and may be inspected or copied
during regular business hours. As this project is outside
the FEMA identified floodplain of Doddridge County,
Doddridge County Floodplain Management has no
regulatory authority. Any interested persons who desire
to comment shall present the same in writing by
December 8, 2014.
Delivered to the
Clerk of the County Court
118 E. Court Street, West Union, WV 26456
Beth A. Rogers, Doddridge County Clerk
Edwin L. "Bo" Wriston, Doddridge County Flood Plain
Manager
11-18-2xb



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:

Antero Resources

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

Central District

39.294810N/80.837163W to 39.301061N/80.844742W

Permit #14-315 Ramsey's Ridge Road Upgrade Project

was published in The Doddridge Independent 2 times commencing on Friday, November 14, 2014 and Ending on Friday, November 21, 2014 at the request of:

Doddridge County Commission Bo Wriston: Floodplain Manager

Given under my hand this Monday, November 24, 2014

The publisher's fee for said publication is: \$ 23.38 1st Run/\$ 17.53 Subsequent Runs This Legal Ad Total: \$ 40.91

Signature of Michael D. Zorn, Publisher of The Doddridge Independent

Subscribed to and sworn to before me on this date: 11 / 24 / 14

Signature of Pamela R. Stinespring, Notary Public in and for Doddridge County

My Commission expires on The 17th day of May 2019

Public Notice • Legal Notice

Legal Advertisement Doddridge County Floodplain Permit Application

Please take notice that on the 8th day of November 2014 Antero Resources filed an application for a Floodplain Permit to develop land located at or about:

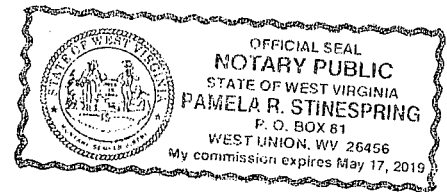
Central District

39.294810N/80.837163W to 39.301061N/80.844742W Permit #14-315 Ramsey's Ridge Road Upgrade Project

(Note: This project is not within the floodplain)

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Clerk of the County Court 118 E. Court Street, West Union, WV 26456 Beth A. Rogers, Doddridge County Clerk Edwin L. Bo Wriston, Doddridge County Floodplain Manager



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:

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was published in The Doddridge Independent 2 times commencing on Friday, November 14, 2014 and Ending on Friday, November 21, 2014 at the request of:

Edwin Wriston, Doddridge County Floodplain Manager & Doddridge County Commission

Given under my hand this Tuesday, January 27, 2015

The publisher's fee for said publication is: \$ 25.27 1st Run/\$ 18.95 Subsequent Runs This Legal Ad Total: \$ 44.22

Michael D. Zorn Publisher of The Doddridge Independent

Subscribed to and sworn to before me on

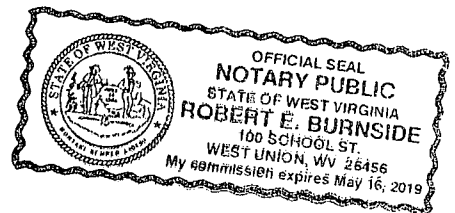
this date: 27 JAN 2015

Robert E. Burnside

Notary Public in and for Doddridge County My Commission expires on

The 16 day of MAY 20 19

Public Notice • Legal Notice Legal Advertisement: Doddridge County Floodplain Permit Application Please take notice that on the 8th day of November, 2014 Antero Resources filed an application for a Floodplain Permit to develop land located at or about: Central District 39.294810N/80.837163W to 39.301061N/80.844742W Permit #14-315 Ramsey's Ridge Road Upgrade Project (Note: This project is not within the floodplain) The Application is on file with the Clerk of the County Court and may be inspected or copied during regular business hours. As this project is outside the FEMA identified floodplain of Doddridge County, Doddridge County Floodplain Management has no regulatory authority. Any interested persons who desire to comment shall present the same in writing by December 08, 2014, delivered to: Clerk of the County Court 118 E. Court Street, West Union, WV 26456 Beth A Rogers, Doddridge County Clerk Edwin L. "Bo" Wriston, Doddridge County Flood Plain Manager



**Ramseys Ridge Road Upgrade
Surface Owner Information**

GAGNON SUSAN C Acres 84.32633709 District 1 Map 6 PID 9 Book 0181 Page 0455

WEST UNION	
FID	109
DIST	1
MAP	6
PID	9
GIS_Link	1-6-9
TAXDIST	1
TAXYR	2008
PARID	01
	6000900000000
PAR_MAP	6
PAR_MAP1	9
PAR_MAP2	0
OWNTYPE1	
OWNTYPE2	
OWN1	GAGNON SUSAN C
OWN2	
ADDR1	
ADDR2	RT 1 BOX 312
ADDR3	WEST UNION WV 26456
CITYNAME	WEST UNION
STATECODE	WV
ZIP1	26456
BOOK	0181
PAGE	0455
LEGAL1	ARNOLDS CK
LEGAL2	81 AC
GISJOIN	1-6-9
MAPPED_AC	84.326337

PAUGH JAMES D II & TABITHA F Acres 20.99807829 District 1 Map 7 PID 7.2 Book 256 Page 568

WEST UNION	
FID	147
DIST	1
MAP	7
PID	7.2
GIS_Link	1-7-7.2
TAXDIST	1
TAXYR	2008
PARID	01
	7000700020000
PAR_MAP	7
PAR_MAP1	7
PAR_MAP2	2
OWNTYPE1	
OWNTYPE2	
OWN1	PAUGH JAMES D II & TABITHA F
OWN2	(SURV)
ADDR1	
ADDR2	RT 1 BOX 314
ADDR3	WEST UNION WV 26456
CITYNAME	WEST UNION
STATECODE	WV
ZIP1	26456
BOOK	256
PAGE	568
LEGAL1	18.98 AC WILHELM RUN
LEGAL2	
GISJOIN	1-7-7.2
MAPPED_AC	20.998078

BALLI JOSEPH S, THOMAS J & Acres 88.09957021 District 1 Map 7 PID 7.1 Book 232 Page 344

HIRAM	
FID	102
DIST	1
MAP	7
PID	7.1
GIS_Link	1-7-7.1
TAXDIST	1
TAXYR	2008
PARID	01
	7000700010000
PAR_MAP	7
PAR_MAP1	7
PAR_MAP2	1
OWNTYPE1	
OWNTYPE2	
OWN1	BALLI JOSEPH S, THOMAS J &
OWN2	ROBERT H
ADDR1	BOB BALLI
ADDR2	5796 ALLYN RD
ADDR3	HIRAM OH 44234
CITYNAME	HIRAM
STATECODE	OH
ZIP1	44234
BOOK	232
PAGE	344
LEGAL1	LICK RUN
LEGAL2	81 A 21P 81.13 AC
GISJOIN	1-7-7.1
MAPPED_AC	88.09957

PAUGH JAMES D & BARBARA J Acres 6.09070986 District 1 Map 7 PID 7 Book 244 Page 540

WEST UNION	
FID	139
DIST	1
MAP	7
PID	7
GIS_Link	1-7-7
TAXDIST	1
TAXYR	2008
PARID	01
	7000700000000
PAR_MAP	7
PAR_MAP1	7
PAR_MAP2	0
OWNTYPE1	
OWNTYPE2	
OWN1	PAUGH JAMES D & BARBARA J (SURV)
OWN2	
ADDR1	
ADDR2	RT 1 BOX 306
ADDR3	WEST UNION WV 26456
CITYNAME	WEST UNION
STATECODE	WV
ZIP1	26456
BOOK	244
PAGE	540
LEGAL1	WILHELMS CREEK
LEGAL2	5.42 AC
GISJOIN	1-7-7
MAPPED_AC	6.09071

Acres 51.32900284 District 1 Map 7 PID 8 Book Page

FID	3702
DIST	1
MAP	7
PID	8
GIS_Link	1-7-8
TAXDIST	0
TAXYR	0
PARID	
PAR_MAP	0
PAR_MAP1	0
PAR_MAP2	0
OWNTYPE1	
OWNTYPE2	
OWN1	
OWN2	
ADDR1	
ADDR2	
ADDR3	
CITYNAME	
STATECODE	
ZIP1	
BOOK	
PAGE	
LEGAL1	
LEGAL2	
GISJOIN	
MAPPED_AC	51.329003

11/1

36/1

26/3

© 2014 Google

Google earth

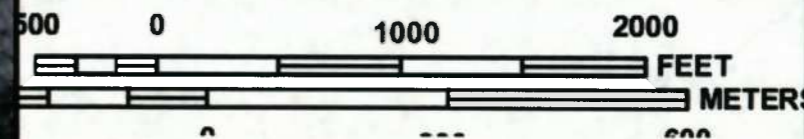
End Ramseys Ridge Road Upgrade

Begin Ramseys Ridge Road Upgrade

DODDRIDGE COUNTY UNINCORPORATED AREAS 540024



MAP SCALE 1" = 1000'



NFIP

PANEL 0115C

FIRM

FLOOD INSURANCE RATE MAP
DODDRIDGE COUNTY,
WEST VIRGINIA
AND INCORPORATED AREAS

PANEL 115 OF 325
(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0115	C

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



MAP NUMBER
54017C0115C
MAP REVISED
OCTOBER 4, 2011

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



CENTRAL DISTRICT, DODDRIDGE COUNTY

Project Contacts

Antero Resources

Conrad Baston, Senior Civil Engineer
304-842-4100

Eli Wagoner, Environmental Engineer
304-622-3842, ext 311 - Off. 304-476-9770 - Cell

John Kawcak, Engineer
817-368-1553

Aaron Kunzler, Construction Supervisor
405-227-8344

Roger Dunlap, Survey Coordinator
304-622-3842 - Off. 304-651-5588 - Cell

Engineer & Surveyor

Dewayne N. Hannah, PE; PS
Hannah Engineering
304-636-7777 - Off. 304-642-9333 - Cell

Wetland Delineator

Walter Veselka, Senior Environmental Scientist
Allstar Ecology
304-906-5536 - Off.

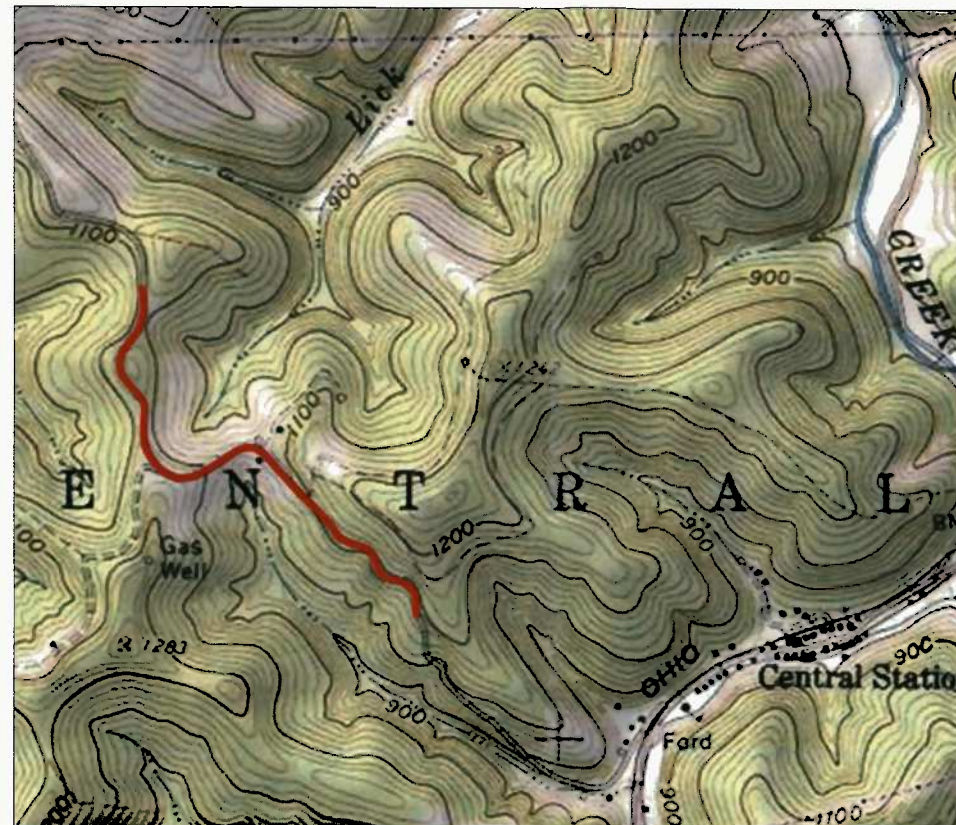
RAMSEYS RIDGE ROAD (WV 36/1 & 11/1) ROAD IMPROVEMENT PROJECT TO BALLI PAD SITE DESIGN, CONSTRUCTION PLAN, & EROSION & SEDIMENT CONTROL PLANS ANTERO RESOURCES CORPORATION

West Virginia State Plane Coordinate System
North Zone, NAD83
Elevations Based on NAVD88
Established By Survey Grade GPS & OPUS
Post-Processing



THIS DOCUMENT
PREPARED FOR
ANTERO RESOURCES CORP

Antero Resources Corp.
1615 Wynkoop Street
Denver, CO 80202



**AFFECTED TAX PARCELS:
CENTRAL DISTRICT**

TM 7 - PCL 20
LARRY E. COTTRILL
DB 275 PG 144
145 ACRES

(Affected Area - 0.003 Ac. for Drainage)

TM 7 - PCL 7
JAMES D. & BARBARA J. PAUGH
DB 197 PG 500
5 ACRES

(Affected Area - 0.04 Ac. for Road Fill)

TM 6 - PCL 9
SUSAN GAGNON
DB 181 PG 455
81 ACRES

(Affected Area - 0.13 Ac. for Drainage)

(Affected Area - 0.04 Ac. for Road Cuf)

(Affected Area - 0.43 Ac. for Spoil Area)

DRAWING INDEX

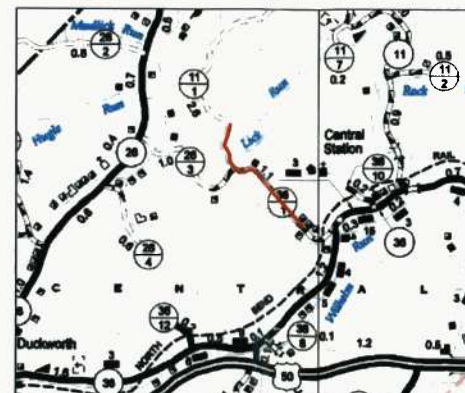
- 1 COVER SHEET
- 2 SCHEDULE OF QUANTITIES
- 3 CONSTRUCTION, EROSION & SEDIMENT CONTROL NOTES
- 4 EXISTING CONDITIONS
- 5 OVERALL SITE PLAN INDEX
- 6 ROAD PLAN A
- 7 ROAD PLAN B
- 8 ROAD PLAN C
- 9 ROAD PROFILE
- 10-12 ROAD SECTIONS
- 13 DETAILS

SITE LOCATIONS NAD83		
Begin Ramseys Ridge Road (UTM Meters)	N = 4,349,505.432	E = 514,041.645
End Ramseys Ridge Road (UTM Meters)	N = 4,350,197.999	E = 513,386.907
	LATITUDE	LONGITUDE
Begin Ramseys Ridge Road	N = 39.294810°	W = 80.837163°
End Ramseys Ridge Road	N = 39.301081°	W = 80.844742°

Proposed Construction Area	2.21 Ac
Existing Road Area	- 1.86 Ac
Total Road Disturbance	0.35 Ac
Spoil Area	0.43 Ac
Culverts & Drainage	+ 0.26 Ac
Total Disturbance Area	1.04 Ac

FLOODPLAIN CONDITIONS	
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	NO
PERMIT NEEDED FOR FLOODPLAIN COORDINATOR	NO
HEC-RAS STUDY COMPLETED:	N/A
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:	N/A
FIRM MAP NUMBER(S) FOR SITE:	54017C0115C
ACREAGE OF CONSTRUCTION IN FLOODPLAIN:	N/A

CENTRAL DISTRICT, DODDRIDGE COUNTY



Project Location
N.T.S.

DEWAYNE N. HANNAH P.E. No. WV - 7233; P.S. No. WV - 1213



RAMSEYS RIDGE ROAD (WV 36/1 & 11/1)
TO BALLI PAD PROJECT

10-14-14
DATE

DATE:	REVISIONS:



ANTERO RESOURCES

**RAMSEYS RIDGE ROAD
IMPROVEMENT PROJECT
COVER SHEET**

CENTRAL DISTRICT DODDRIDGE COUNTY, WV

DATE: OCT. 14, 2014	SCALE: AS SHOWN	JOB NO: 14 ARAC 02	DRAWN BY: JERRI REED	SHEET 1 OF 13 SHEETS
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MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XXV: Chapter 24 - C)
Requires that you call two
business days before you dig in
the state of West Virginia
IT'S THE LAW!!!





THIS DOCUMENT PREPARED FOR ANTERO RESOURCES CORP

RAMSEYS RIDGE ROAD SCHEDULE OF QUANTITIES ANTERO RESOURCES CORPORATION

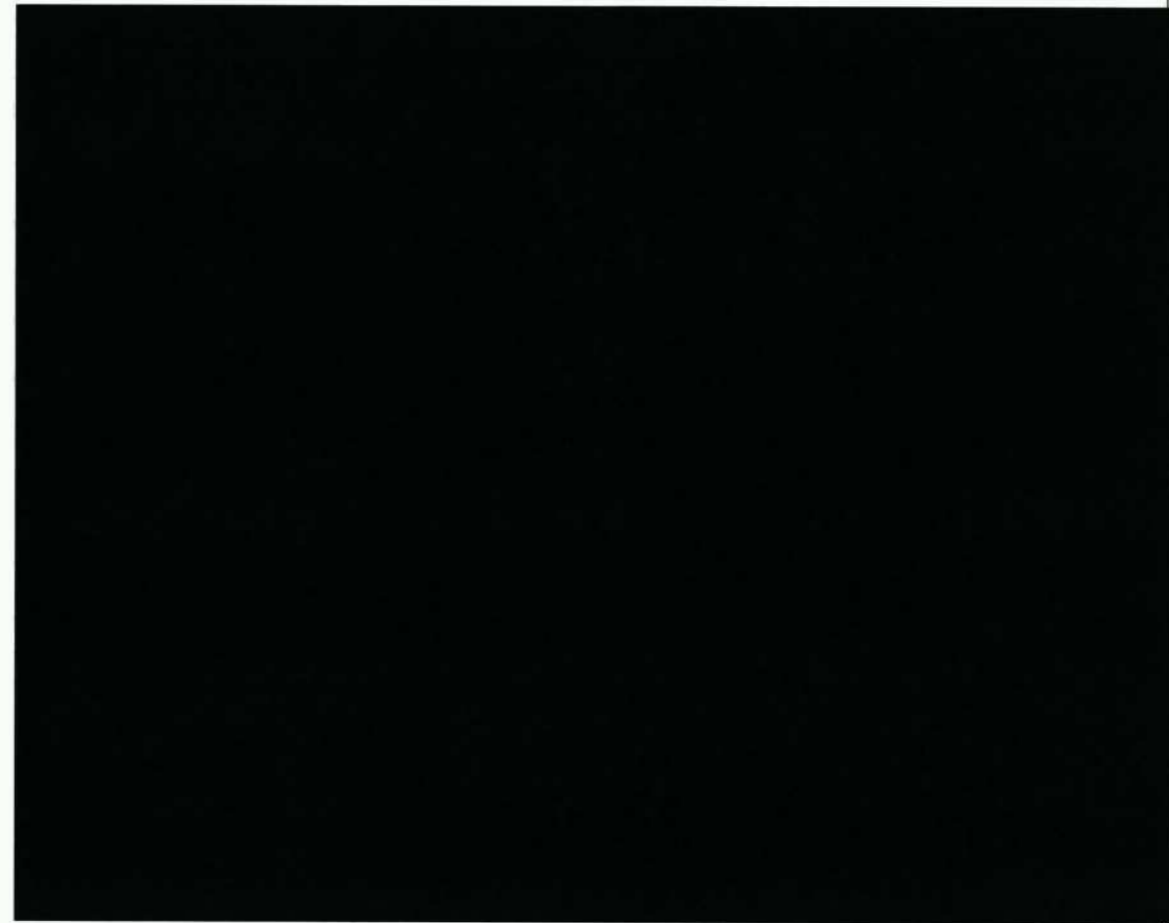
Main Schedule of Quantities table with columns: DESCRIPTION, QUANTITY, UNIT, UNIT PRICE, FINAL PRICE. Includes sections for Clearing & Grubbing, Retaining Structures, Site - Unclassified Excavation, Aggregate Surfacing, Road Culverts, Fencing/Gates, Seeding, and Unforeseen Site Conditions.

Schedule of 18" Silt Sock

Table with columns: Number, LF, Number, LF. Lists items SS-1 to SS-5 with quantities.

Schedule of Level Spreaders

Table with columns: Number, LF, Number, LF. Lists items LS-1 to LS-10 with quantities.



Traffic Control Plan

Table with columns: DATE, REVISIONS. Multiple rows for tracking changes.



ANTERO RESOURCES RAMSEYS RIDGE ROAD IMPROVEMENT PROJECT SCHEDULE OF QUANTITIES

CENTRAL DISTRICT DODDRIDGE COUNTY, WV DATE: OCT. 14, 2014 SCALE: NONE JOB NO: 14 ARAC 02 DRAWN BY: DAN GRIMM, PETE TENNEY SHEET 2 OF 13 SHEETS



THIS DOCUMENT PREPARED FOR ANTERO RESOURCES CORP

RAMSEYS RIDGE ROAD EXISTING CONDITIONS ANTERO RESOURCES CORPORATION

TM 6-PR 9
Susan Gagnon
181/455
81+/- Ac.

TM 7-PR 7.1
Jeffrey K. Jones Sr.
& Charlene H. Jones
277/100
81+/- Ac.

TM 6-PR 9
Susan Gagnon
181/455
81+/- Ac.

D4
8" PVC

TM 7-PR 7.1
Jeffrey K. Jones Sr.
& Charlene H. Jones
277/100
81+/- Ac.

TM 6-PR 9
Susan Gagnon
181/455
81+/- Ac.

TM 7-PR 7
James D. & Barbara J. Paugh
197/500
5.0+/- Ac.

TM 7-PR 8
Jonathan L. Davis
202/558
54+/- Ac.

TM 7-PR 7.2
James D. Paugh II
& Tabitha F. Paugh
256/568
18.98+/- Ac.

TM 7-PR 20
Larry E. Cottrill
230/442
145.34+/- Ac.

Number	Dia.	LF	Type	CENTERLINE LOCATIONS	CENTERLINE LOCATIONS	SLOPE(%)	NOTES
C1				1+44		?	NOT FOUND
C2	12"	56	STL	5+33	.10	?	WRONG SIZE TOO SMALL
C3	14"	20	STL	12+23	.23	?	WRONG SIZE TOO SMALL
C4							NOT FOUND
C5							NOT FOUND

Number	Dia.	LF	Type	CENTERLINE LOCATIONS	CENTERLINE LOCATIONS	SLOPE(%)	NOTES
D1	12"	50	PVC	2+17	.15 MI.	1%	TOO SMALL
D2	12"	40	STL	7+18		0.7%	TOO SMALL
D3							
D4	12"	50	PVC	20+28	.50		



LEGEND

- Proposed Road
- 2' Contour
- Proposed Road
- 10' Contour
- Existing 2' Contour
- Existing 10' Contour
- ROW
- Right of Way
- AOI
- Area of Influence
- LOD
- Limit of Disturbance
- Rock Rip-rap Ditch
- TRM Lined Ditch
- Jute Lined Ditch
- Direction of Flow
- Silt Sock
- Super Silt Fence
- Run-off Diversion
- Level Spreader
- Culvert w/ Riprap
- Existing Culvert
- Existing Overhead Electric
- Existing Gaslines
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Swale/Gully
- Ditch
- Wetland/Pond
- Spring
- Property Line
- Fence Line
- Tree Line
- New Fence Line

Wetland	Type	Size*	Impact Cause	Fill	Disturbed Area	Total Impact
Wetland 1	PEM	0.01 Ac. 0.0 Ac.		0	0	0
* Size Total Acreage Within ROW						0
TOTAL						0
TOTAL ACRES						0

Wetland Types:
 PEM - Palustrine Emergent
 PFO - Palustrine Forested
 POW - Palustrine Open Water
 PSS - Palustrine Scrub-Scrub

Stream	Type	Impact Cause	Culvert Length	Inlet/Outlet Structures	Total Structure	Total Impact
NO STREAMS FOUND WITHIN AOI						
TOTALS						0
TOTALS						0

EPH - Ephemeral
 INT - Intermittent
 PER - Perennial

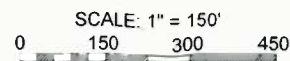
Note: Gullies, Ditches, Drainages and/or Swales are non-jurisdictional waters. Dilineated Non-Jurisdictional Roadside Ditches are not shown.

*Note: Stream begins at culvert outlet.

Wetland Delineation and Stream Identification Report for Ramseys Ridge Road Improvement Project by Allstar Ecology, Fairmont, WV 26554

FEMA Map Panel - 54017C0115C. The selected site is not in any identified flood hazard area per WV Flood Tool.

Note:
 All surface boundary lines shown hereon are based on current deeds and boundary evidence collected with mapping grade GPS receivers.
 All topographic information shown hereon is based on aerial photography provided by Blue Mountain Aerial Mapping with a flight date of April 10, 2013.



DATE:	REVISIONS:



HANNAH ENGINEERING
 ELKINS, WV
 304-636-7777

ANTERO RESOURCES
RAMSEYS RIDGE ROAD
IMPROVEMENT PROJECT
 EXISTING CONDITIONS

CENTRAL DISTRICT DODDRIDGE COUNTY, WV

DATE: OCT. 14, 2014	SCALE: 1"=150'	JOB NO: 14 ARAC 02	DRAWN BY: DAN GRIMM PETE TENNEY	SHEET 4 OF 13 SHEETS
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THIS DOCUMENT
PREPARED FOR
ANTERO RESOURCES CORP

RAMSEYS RIDGE ROAD BALLI PAD ROAD PLAN SECTION A ANTERO RESOURCES CORPORATION

Number	Dia.	LF	Type	EXISTING CULVERT LOCATIONS	PROPOSED CULVERT LOCATIONS	SLOPE(%)	NOTES
C1	24"	28	HDPE		1+44	.01	MIN. 2% MIN. NEW CULVERT
C2	18"	32	HDPE	12"	5+33	.10	2% MIN. REMOVE EXISTING
C3	18"	96	HDPE	14"	12+23	.23	2% MIN. REMOVE EXISTING
C4	18"	28	HDPE		17+70	.34	2% MIN. REMOVE EXISTING
C5	18"	24	HDPE		25+82	.49	2% MIN. UNDER EXISTING CULVERT
C6	18"	28	HDPE		30+16	.57	2% MIN. NEW CULVERT
C7	18"	36	HDPE		39+10	.74	2% MIN. NEW CULVERT
C8	18"	28	HDPE		42+07	.80	2% MIN. NEW CULVERT

ALL CULVERTS ARE TO BE REPLACED EXCEPT THOSE NOTED ABOVE, OR AS DIRECTED BY THE D.O.H.
FIELD VERIFY LENGTH OF CULVERT REQUIRED.

Number	Dia.	LF	Type	EXISTING CULVERT LOCATIONS	PROPOSED CULVERT LOCATIONS	SLOPE(%)	NOTES
D1	15"	50	HDPE	7+77	8+32	.15	MIN. 1% MIN. REMOVE EXISTING
D2	15"	44	HDPE	11+03	11+47	.23	1% MIN. REMOVE EXISTING
D3	18"	24	HDPE	18+70	18+94	.38	1% MIN. NEW CULVERT EXISTING RIP-RAP
D4	15"	40	HDPE	30+08	31+22	.58	1% MIN. REMOVE EXISTING

TM 7-PR 8
Jonathan L. Davis
202/558
54+/- Ac.

TM 6-PR 9
Susan Gagnon
181/455
81+/- Ac.

TM 7-PR 7.1
Jeffrey K. Jones Sr.
& Charlene H. Jones
277/100
81+/- Ac.

TM 7-PR 7
James D. & Barbara J. Paugh
197/500
5.0+/- Ac.

TM 7-PR 7.2
James D. Paugh II
& Tabitha F. Paugh
256/568
18.98+/- Ac.

TM 7-PR 20
Larry E. Cottrill
230/442
145.34+/- Ac.

LEGEND

- Proposed Road 2' Contour
- Proposed Road 10' Contour
- Existing 2' Contour
- Existing 10' Contour
- ROW Right of Way
- AOI Area of Influence
- LOD Limit of Disturbance
- Rock Rip-rap Ditch
- TRM Lined Ditch
- Jute Lined Ditch
- Direction of Flow
- Silt Sock
- Super Silt Fence
- Run-off Diversion
- Level Spreader
- Culvert w/ Riprap
- Existing Culvert
- Existing Overhead Electric
- Existing Gaslines
- Ephemeral Stream
- Intermittent Stream
- Perennial Stream
- Swale/Gully
- Ditch
- Wetland/Pond
- Spring
- Property Line
- Fence Line
- Tree Line
- New Fence Line

WV NAD 83 NORTH FEET

DATE:	REVISIONS:

SCALE: 1" = 50'
0 50 100 150



ANTERO RESOURCES
RAMSEYS RIDGE ROAD IMPROVEMENT PROJECT
ROAD PLAN SECTION A

CENTRAL DISTRICT
DODDRIDGE COUNTY, WV

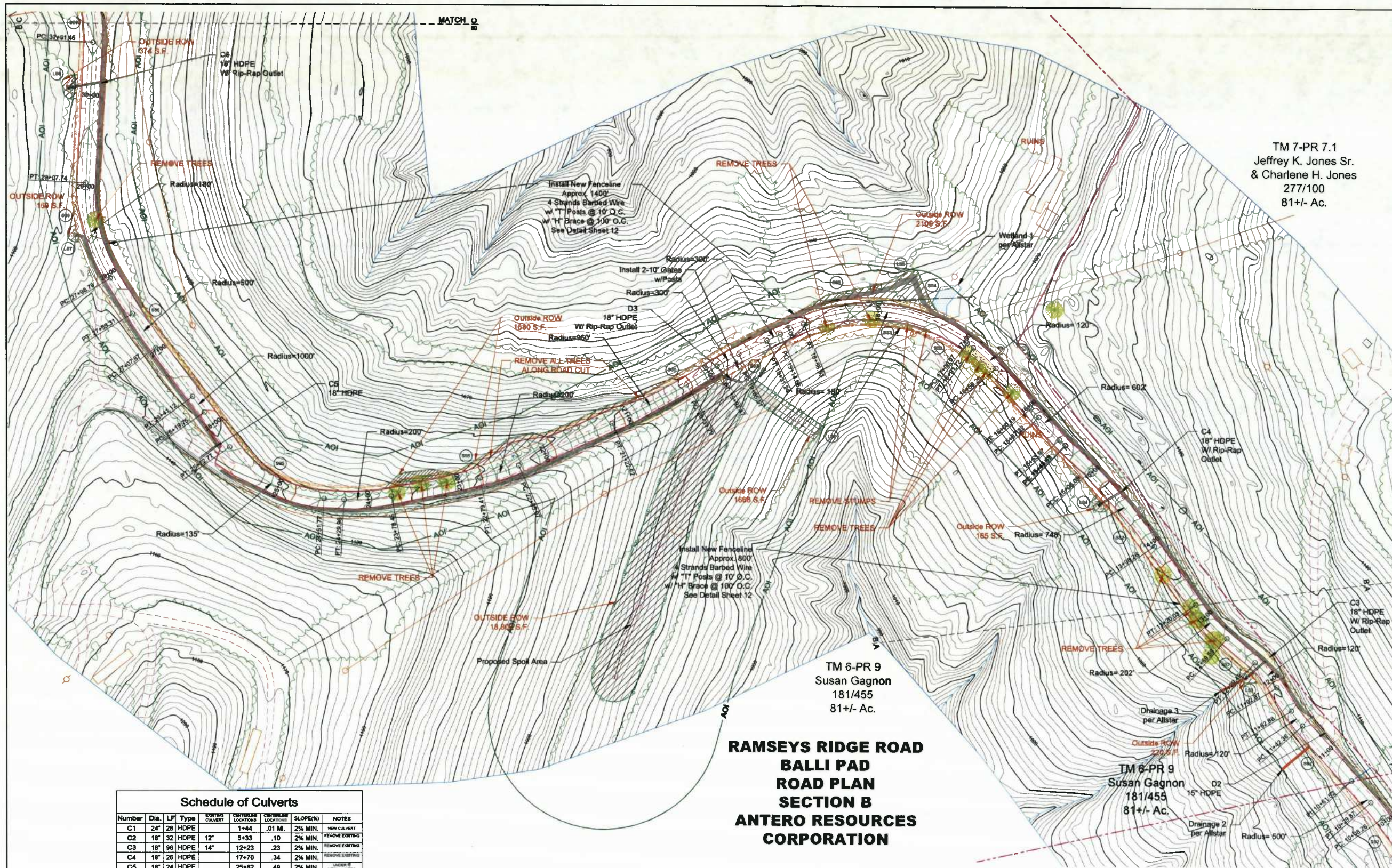
DATE: OCT. 14, 2014 SCALE: 1"=50' JOB NO: 14 ARAC 02 DRAWN BY: DAN GRIMM, PETE TENNEY SHEET 6 OF 13 SHEETS



THIS DOCUMENT
PREPARED FOR
ANTERO RESOURCES CORP

TM 7-PR 7.1
Jeffrey K. Jones Sr.
& Charlene H. Jones
277/100
81+/- Ac.

N
WV NAD 83 NORTH FEET



LEGEND

- Proposed Road 2' Contour
- Proposed Road 10' Contour
- Existing 2' Contour
- Existing 10' Contour
- ROW Right of Way
- AOI Area of Influence
- LOD Limit of Disturbance
- Rock Rip-rap Ditch
- TRM Lined Ditch
- Jute Lined Ditch
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- Silt Sock
- Super Silt Fence
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- Perennial Stream
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- Ditch
- Wetland/Pond
- Spring
- Property Line
- Fence Line
- Tree Line
- New Fence Line

**RAMSEYS RIDGE ROAD
BALLI PAD
ROAD PLAN
SECTION B
ANTERO RESOURCES
CORPORATION**

TM 6-PR 9
Susan Gagnon
181/455
81+/- Ac.

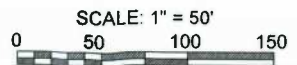
TM 6-PR 9
Susan Gagnon
181/455
81+/- Ac.

Number	Dia.	LF	Type	CENTERLINE LOCATIONS	CENTERLINE LOCATIONS	SLOPE(%)	NOTES
C1	24"	28	HDPE	1+44	.01 MI.	2% MIN.	NEW CULVERT
C2	18"	32	HDPE	12"	5+33	.10	2% MIN. REMOVE EXISTING
C3	18"	96	HDPE	14"	12+23	.23	2% MIN. REMOVE EXISTING
C4	18"	26	HDPE		17+70	.34	2% MIN. REMOVE EXISTING
C5	18"	24	HDPE		25+82	.49	2% MIN. REMOVE EXISTING
C6	18"	28	HDPE		30+16	.57	2% MIN. NEW CULVERT
C7	18"	36	HDPE		39+10	.74	2% MIN. NEW CULVERT
C8	18"	28	HDPE		42+07	.80	2% MIN. NEW CULVERT

ALL CULVERTS ARE TO BE REPLACED EXCEPT THOSE NOTED ABOVE. OR AS DIRECTED BY THE D.O.H.

FIELD VERIFY LENGTH OF CULVERT REQUIRED.

Number	Dia.	LF	Type	CENTERLINE LOCATIONS	CENTERLINE LOCATIONS	SLOPE(%)	NOTES
D1	15"	50	HDPE	PT 1+35	15 MI.	1% MIN.	REMOVE EXISTING
D2	15"	44	HDPE	PT 1+43	.23	1% MIN.	REMOVE EXISTING
D3	18"	24	HDPE	PT 1+75	.38	1% MIN.	REMOVE EXISTING
D4	15"	40	HDPE	PT 1+88	.59	1% MIN.	REMOVE EXISTING



DATE:	REVISIONS:



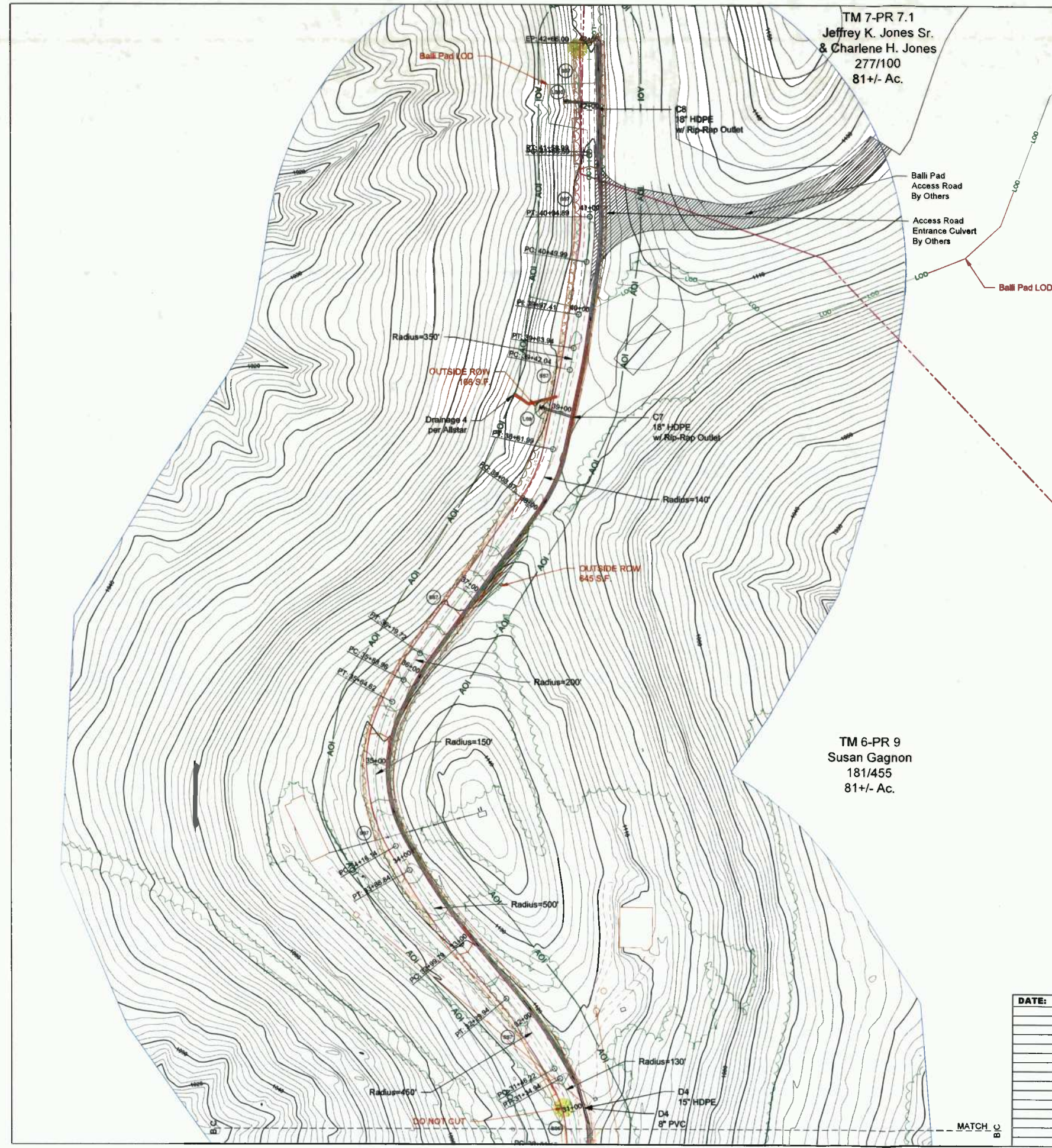
ANTERO RESOURCES
RAMSEYS RIDGE ROAD
IMPROVEMENT PROJECT
ROAD PLAN SECTION B

CENTRAL DISTRICT DODDRIDGE COUNTY, WV

DATE: OCT. 14, 2014	SCALE: 1"=50'	JOB NO: 14 ARAC 02	DRAWN BY: DAN GRIMM, PETE TENNEY	SHEET 7 OF 13 SHEETS
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**RAMSEYS RIDGE ROAD
BALLI PAD
ROAD PLAN
SECTION C
ANTERO RESOURCES CORPORATION**

WV NAD 83 NORTH FEET



LEGEND

- Proposed Road 2' Contour
- Proposed Road 10' Contour
- Existing 2' Contour
- Existing 10' Contour
- ROW Right of Way
- AOI Area of Influence
- LOD Limit of Disturbance
- Rock Rip-rap Ditch
- TRM Lined Ditch
- Jute Lined Ditch
- Direction of Flow
- Silt Sock
- Super Silt Fence
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- Tree Line
- New Fence Line

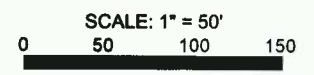
Schedule of Culverts

Number	Dia.	LF	Type	EXISTING CULVERT LOCATIONS	CENTERLINE LOCATIONS	CENTERLINE LOCATIONS	SLOPE(%)	NOTES
C1	24"	28	HDPE		1+44	.01 ML	2% MIN.	NEW CULVERT
C2	18"	32	HDPE	12"	5+33	.10	2% MIN.	REMOVE EXISTING
C3	18"	96	HDPE	14"	12+23	.23	2% MIN.	REMOVE EXISTING
C4	18"	28	HDPE		17+70	.34	2% MIN.	REMOVE EXISTING
C5	18"	24	HDPE		25+82	.49	2% MIN.	REMOVE EXISTING
C6	18"	28	HDPE		30+16	.57	2% MIN.	NEW CULVERT
C7	18"	36	HDPE		39+10	.74	2% MIN.	NEW CULVERT
C8	18"	28	HDPE		42+07	.80	2% MIN.	NEW CULVERT

ALL CULVERTS ARE TO BE REPLACED EXCEPT THOSE NOTED ABOVE, OR AS DIRECTED BY THE D.O.H.
FIELD VERIFY LENGTH OF CULVERT REQUIRED.

Schedule of Driveway Culverts

Number	Dia.	LF	Type	EXISTING CULVERT LOCATIONS	CENTERLINE LOCATIONS	SLOPE(%)	NOTES
D1	15"	50	HDPE	7+77	15 ML	1% MIN.	REMOVE EXISTING
D2	15"	44	HDPE	11+43	.23	1% MIN.	REMOVE EXISTING
D3	18"	24	HDPE	19+73	.38	1% MIN.	REMOVE EXISTING
D4	15"	40	HDPE	30+22	.59	1% MIN.	REMOVE EXISTING



DATE:	REVISIONS:

HANNAH ENGINEERING
ELKINS, WV
304-636-7777

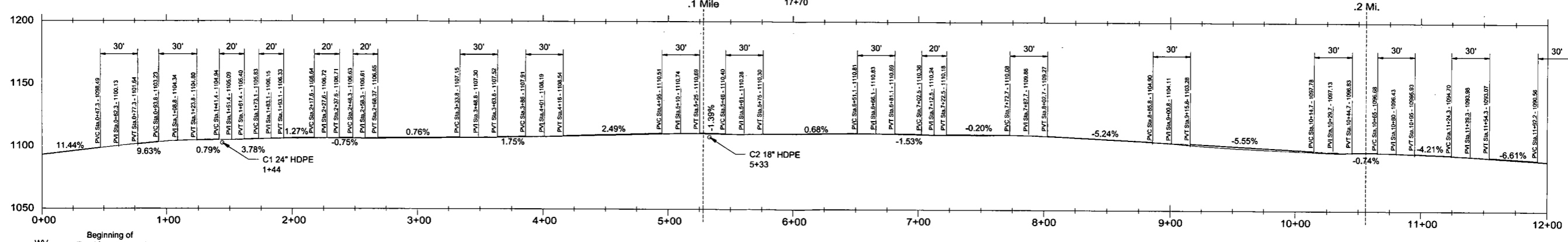
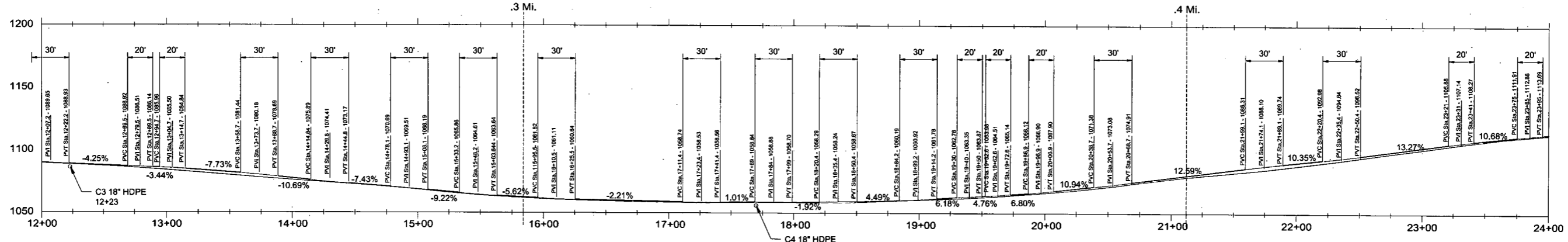
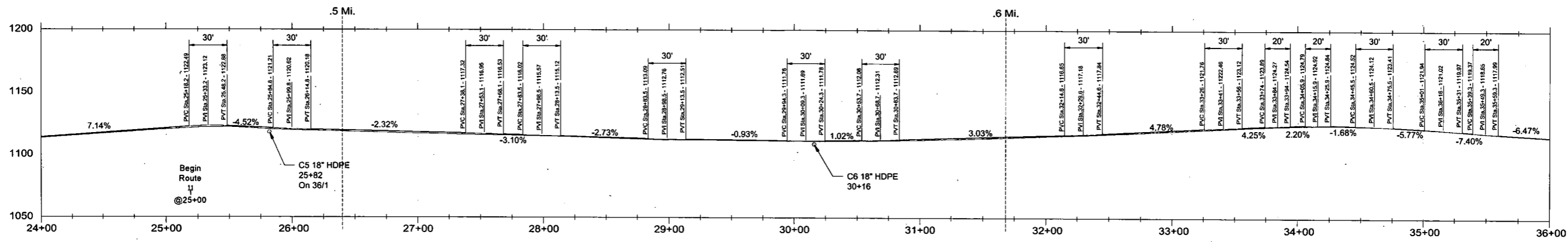
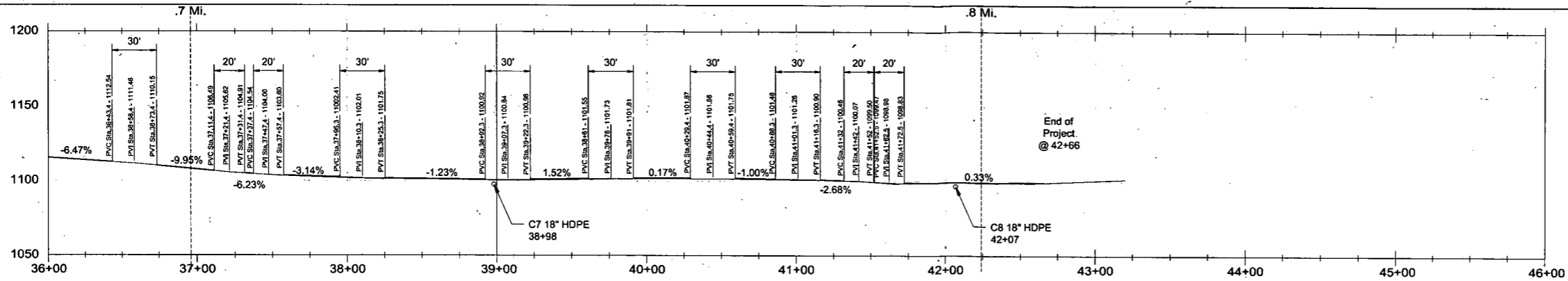
ANTERO RESOURCES
RAMSEYS RIDGE ROAD IMPROVEMENT PROJECT
ROAD PLAN SECTION C

CENTRAL DISTRICT DODDRIDGE COUNTY, WV

DATE: OCT. 14, 2014	SCALE: 1"=50'	JOB NO: 14 ARAC 02	DRAWN BY: DAN GRIMM PETE TENNEY	SHEET 8 OF 13 SHEETS
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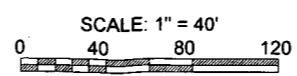


THIS DOCUMENT
PREPARED FOR
ANTERO RESOURCES CORP



**RAMSEYS RIDGE ROAD
ROAD PROFILE
ANTERO RESOURCES
CORPORATION**

LEGEND
— Proposed Grade
- - Existing Ground



DATE:	REVISIONS:



**ANTERO RESOURCES
RAMSEYS RIDGE ROAD
IMPROVEMENT PROJECT
ROAD PROFILE**

CENTRAL DISTRICT DODDRIDGE COUNTY, WV

DATE: OCT. 14, 2014	SCALE: 1"=50'	JOB NO.: 14 ARAC 02	DRAWN BY: DAN GRIMM PETE TENNEY	SHEET 9 OF 13 SHEETS
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WV
Route
36/1

Beginning of
Road Improvement
@ 0+00

End of
Project
@ 42+66

Begin
Route
@ 25+00

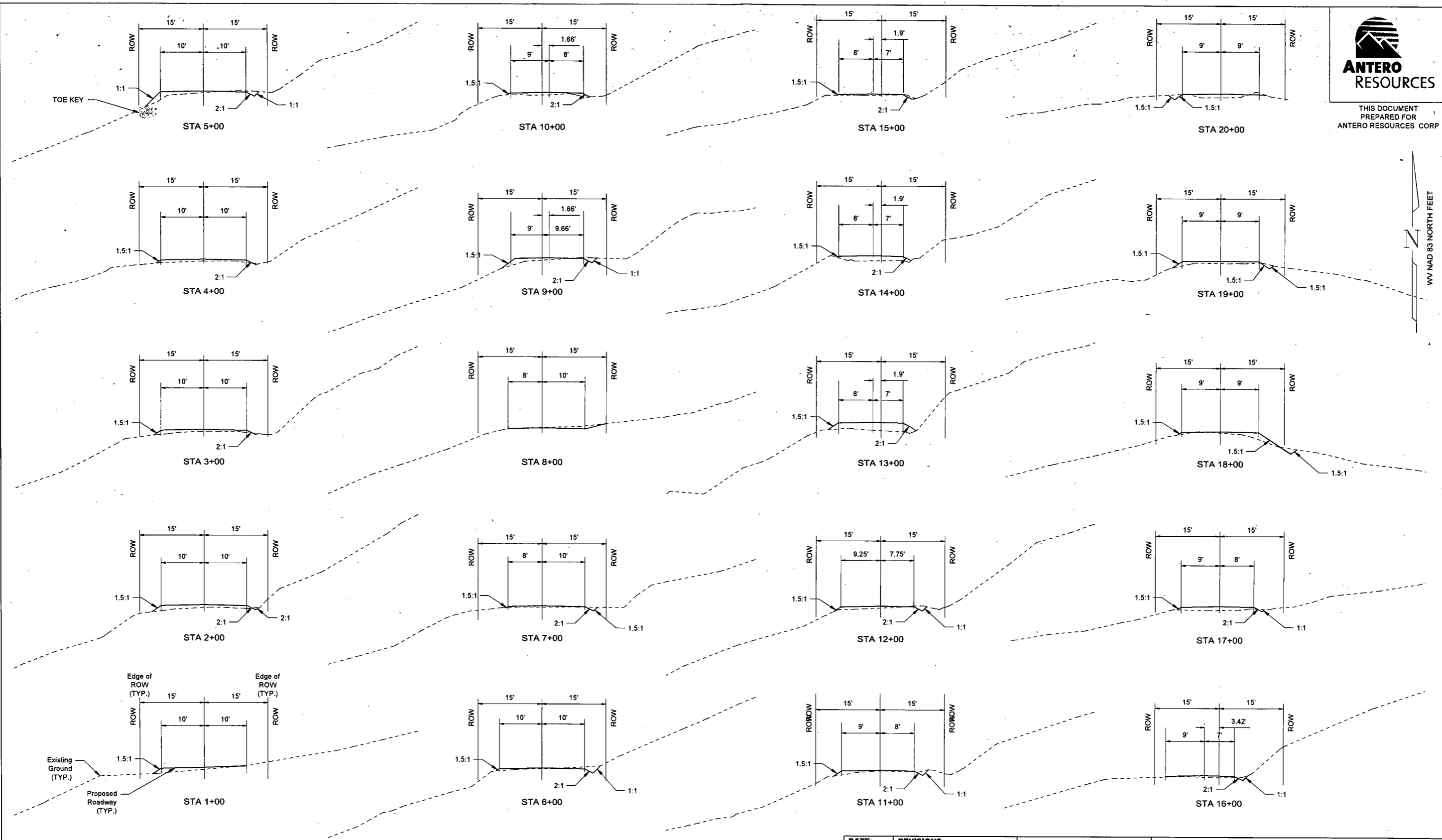
WV
Route
36/1

Beginning of
Road Improvement
@ 0+00



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ANTERO RESOURCES CORP

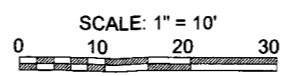
WV NAD 83 NORTH FEET



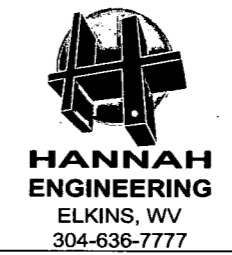
**RAMSEYS RIDGE ROAD
BALLI PAD
ROAD SECTIONS
ANTERO RESOURCES
CORPORATION**

Allowable Road Cut Slopes	
Material	Slope
1. Rock Firm	0.25:1 to 0.50:1
2. Rock Deteriorated	0.50:1 to 1:1
3. Rocky or Stone / Silt or Clay	1:1 to 1.5:1
4. Silt or Clay	1.5:1 to 2:1

LEGEND
 Proposed Grade
 Existing Ground



DATE:	REVISIONS:

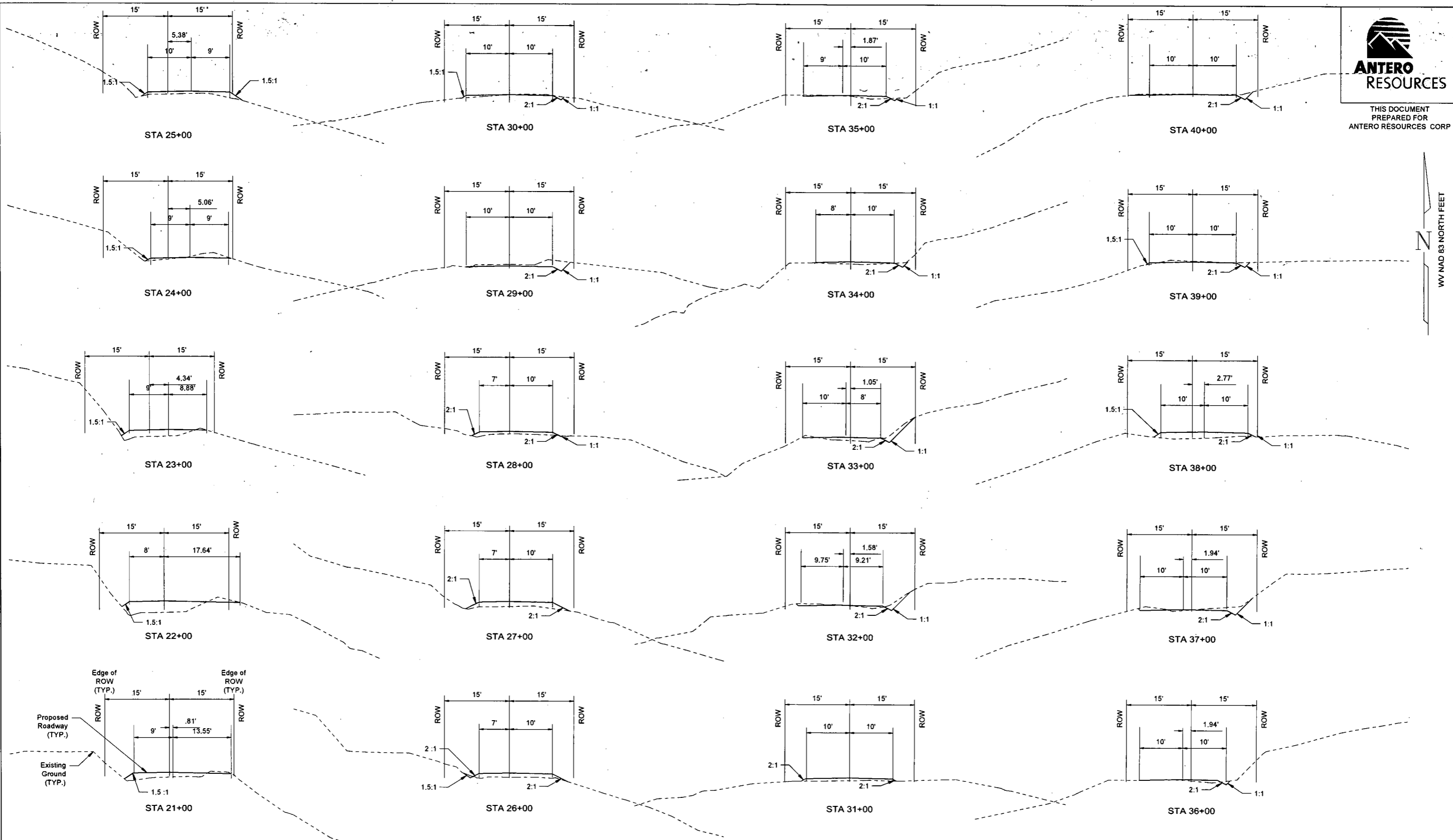


**ANTERO RESOURCES
RAMSEYS RIDGE ROAD
IMPROVEMENT PROJECT
ROAD SECTIONS**

CENTRAL DISTRICT DODDRIDGE COUNTY, WV

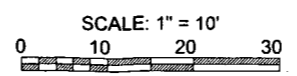
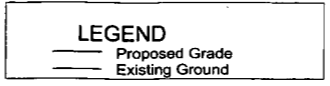
DATE: OCT. 14, 2014	SCALE: 1"=10'	JOB NO.: 14 ARAC 02	DRAWN BY: DAN GRIMM PETE TENNEY	SHEET 10 OF 13 SHEETS
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WV NAD 83 NORTH FEET




**RAMSEYS ROAD
BALLI PAD
ROAD SECTIONS
ANTERO RESOURCES
CORPORATION**

Allowable Road Cut Slopes	
Material	
1. Rock Firm	0.25:1 to 0.50:1
2. Rock Deteriorated	0.50:1 to 1:1
3. Rocky or Stone / Silt or Clay	1:1 to 1.5:1
4. Silt or Clay	1.5:1 to 2:1



DATE:	REVISIONS:

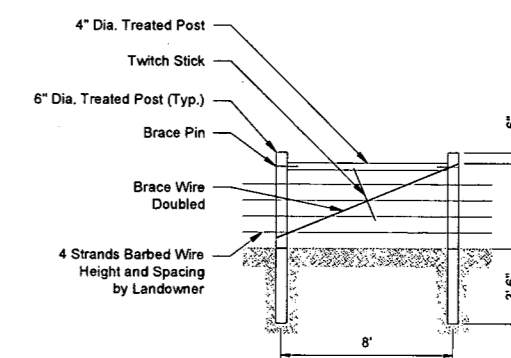
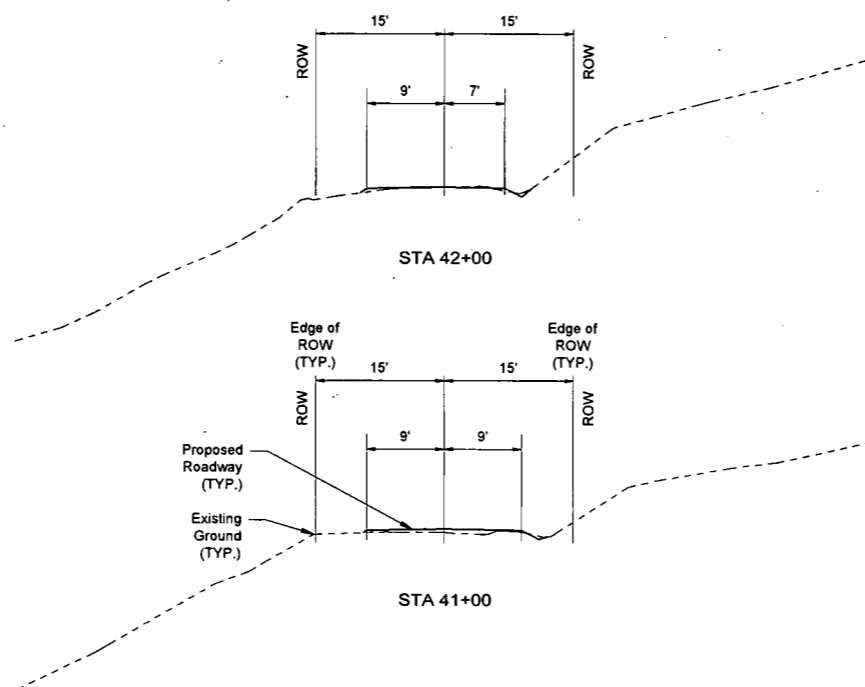


**HANNAH
ENGINEERING**
ELKINS, WV
304-636-7777

**ANTERO RESOURCES
RAMSEYS RIDGE ROAD
IMPROVEMENT PROJECT
ROAD SECTIONS**

CENTRAL DISTRICT DODDRIDGE COUNTY, WV

DATE: OCT. 14, 2014	SCALE: 1"=10'	JOB NO.: 14 ARAC 02	DRAWN BY: DAN GRIMM PETE TENNEY	SHEET 11 OF 13 SHEETS
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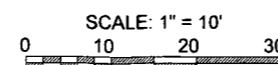


TYPICAL "H" BRACE
Scale: 3" = 1'

**RAMSEYS ROAD
BALLI PAD
ROAD SECTIONS
ANTERO RESOURCES
CORPORATION**

Allowable Road Cut Slopes	
Material	Slope
1. Rock Firm	0.25:1 to 0.50:1
2. Rock Deteriorated	0.50:1 to 1:1
3. Rocky or Stone / Silt or Clay	1:1 to 1.5:1
4. Silt or Clay	1.5:1 to 2:1

LEGEND	
	Proposed Grade
	Existing Ground



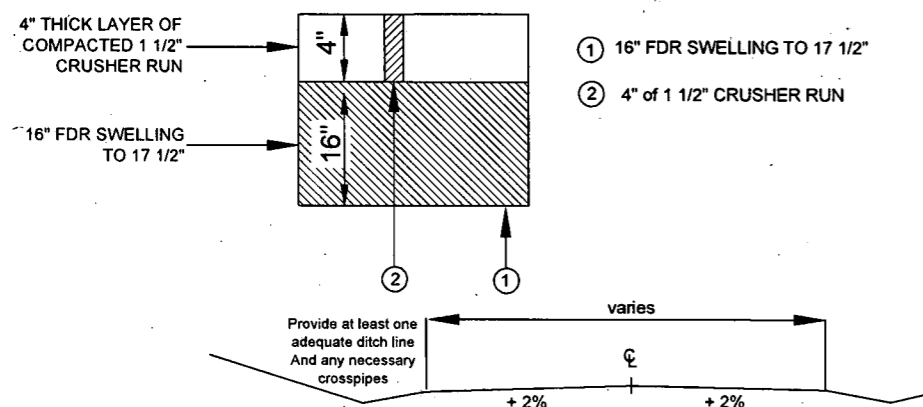
DATE:	REVISIONS:

HANNAH ENGINEERING
ELKINS, WV
304-636-7777

ANTERO RESOURCES
RAMSEYS RIDGE ROAD IMPROVEMENT PROJECT
ROAD SECTIONS

CENTRAL DISTRICT DODDRIDGE COUNTY, WV

DATE: OCT. 14, 2014	SCALE: 1"=10'	JOB NO.: 14 ARAC 02	DRAWN BY: DAN GRIMM PETE TENNEY	SHEET 12 OF 13 SHEETS
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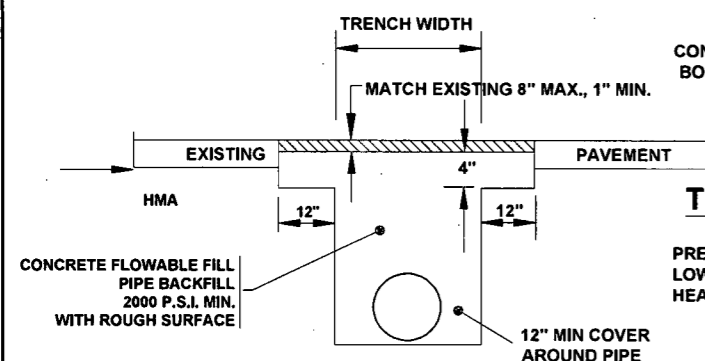


RAMSEYS RIDGE ROAD (WV 36/1 & 11/1), DODDRIDGE CO., WV TYPICAL SECTION

Full Depth Reclamation (FDR) with 4" Wearing Layer of Compacted 1 1/2" Crusher Run

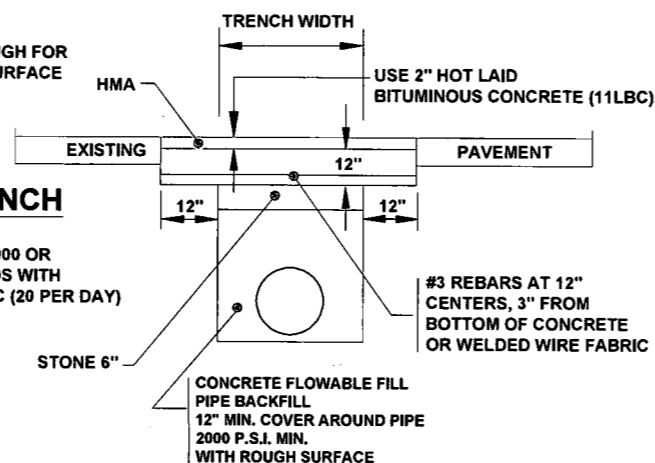
1. Pulverize the constructed road surface to a minimum depth of 16 inches
2. Evaluate subsurface soils to allow appropriate stabilization measures to be taken.
3. Compact and rough grade pulverized material to a minimum 2% crown.
4. Apply Type I/II Portland Cement at a rate of 10% or 130 lb/sy (recommended cement placement is to be mixed in two equal applications of 65 lb/sy for each application) plus water to maintain a moisture content of ± 2% of optimum moisture. Materials stabilized with Type I/II cement should be graded, compacted, final rolled and fine graded before the material sets, which is within about 2 hours of mixing. Compaction shall be 98% of maximum dry density as determined from the daily control strip. Expect about 1 1/2" of swell from the FDR. The completed FDR should be proof rolled prior to placing a 4" thick layer of compacted 1 1/2" Crusher Run. Crusher Run placement should start no sooner than 3 days following completion of the FDR and should occur between 3 to 5 days. Compaction of Crusher Run shall be 95% of maximum dry density as determined by the Standard Proctor Method.

(See "Type C Trench" Detail below for culverts)



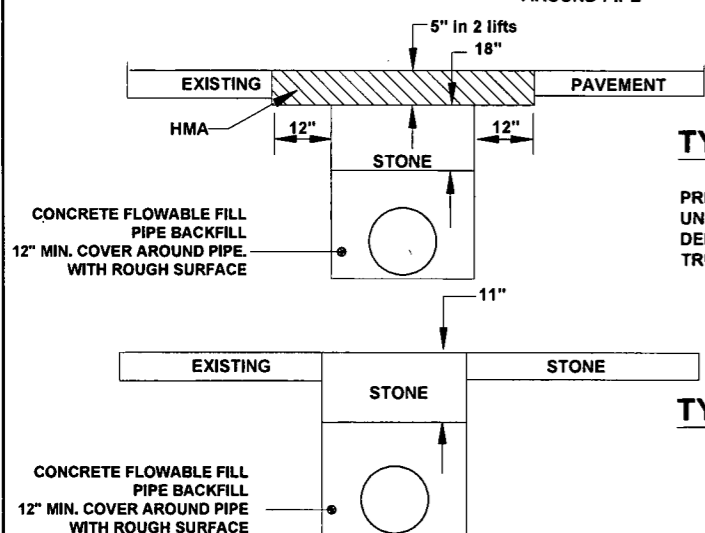
TYPE A TRENCH

MIX PAVEMENT
PRESENT ADT OVER 2000 OR LOWER-VOLUME ROADS WITH HEAVY TRUCK TRAFFIC (20 PER DAY)



TYPE B TRENCH

HMA PAVEMENT
PRESENT ADT UNDER 2000 UNLESS HEAVY TRUCK TRAFFIC, DEFINED AS 20 TANDEM-AXLE TRUCKS PER DAY IS EVIDENT.

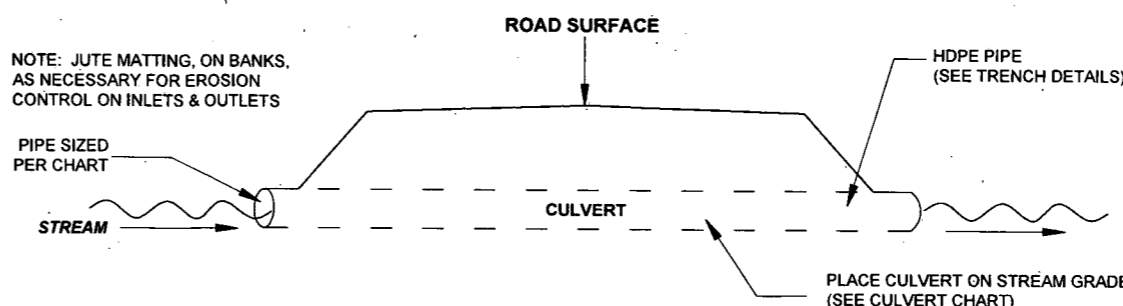


TYPE C TRENCH

STONE ROADWAY

NOTES

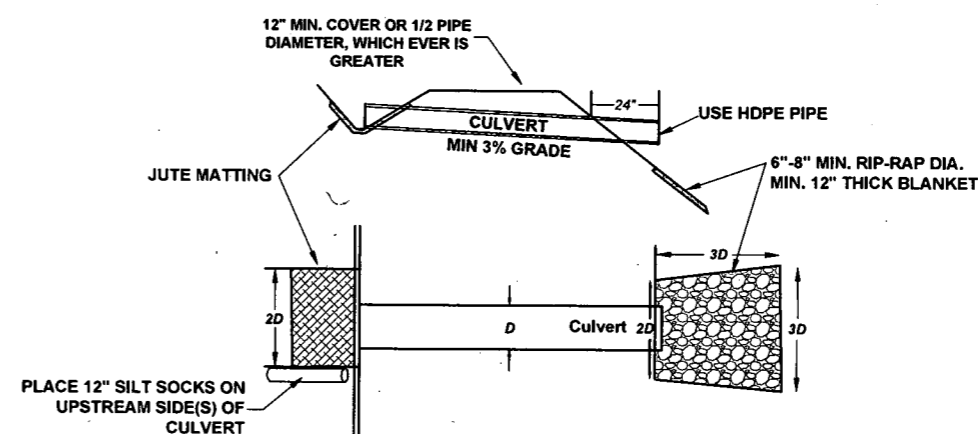
1. Where type A trenches are wider than 7' in existing bituminous pavement, concrete may be deleted if existing HMA thickness and 18" stone are restored.
2. Traffic is to be maintained at all times by the use of appropriate traffic control devices. Use of metal plates, having sufficient rigidity to span Type A trench, is required to prevent wheel loads from being are to be transmitted to the concrete flowable fill. The plates securely anchored to prevent movement caused by traffic. The plates are to be left in place until Concrete Flowable Fill has attained a 50% of its compressive strength.
3. Anchor pipe 18" from ends and at center with maximum 10' intervals prior to placement of flowable fill.
4. Class 1 or #57 Stone may be substituted for concrete flowable fill in Type A, B, & C Trenches.



SEE STREAM IMPACT TABLE FOR CULVERTS INVOLVED

STREAM CULVERTS

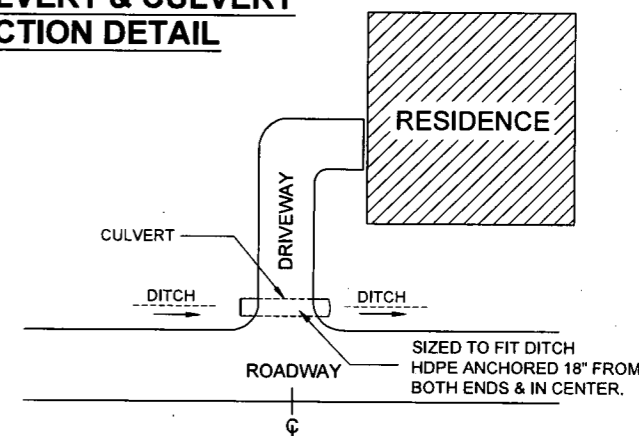
N.T.S.



(SEE CULVERT SECTION SHEET FOR STREAM CULVERT DETAILS)

TYPICAL DITCH RELIEF CULVERT & CULVERT INLET/OUTLET PROTECTION DETAIL

N.T.S.



DRIVEWAY REPLACEMENT CULVERT

N.T.S.

DATE:	REVISIONS:



ANTERO RESOURCES

RAMSEYS RIDGE ROAD IMPROVEMENT PROJECT DETAILS

CENTRAL DISTRICT DODDRIDGE COUNTY

DATE: OCT. 14, 2014	SCALE: NONE	JOB NO: 14 ARAC 02	DRAWN BY: JERRI REED	SHEET 13 OF 13 SHEETS
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