

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: # 15-376

Date Approved: 08/26/2015

Expires: Not in FloodPlain

Issued to: Antero Resources

POC:

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

Project Address: Just off County Rt. 50/30, Greenwood

Firm: #54017C0100C

Lat/Long: 80.890152W -39.269551N

Purpose of development: Sandstrom Water Treatment Facility

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

Date: 8/26/2015

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

#15-376



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

August 24, 2015

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

Mr. Eidel:

Antero Resources Corporation (Antero) would like to submit a Doddridge County Floodplain permit application for our Sandstrom Water Treatment Facility. Our project is located in Doddridge County, Central District where the access road will begin at coordinates 39.269600 N, 80.890139 W and will continue to the center of the facility at coordinates 39.269215 N, 80.893617 W. Per the FIRM Map #54017C0100C, this location is not in the floodplain.

Attached you will find the following:

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

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, appearing to read "Rachel Grzybek".

Rachel Grzybek
Environmental Specialist I
Floodplain Engineer
Antero Resources Corporation

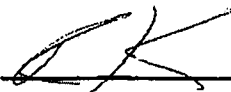
Enclosures

**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 8/24/15

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: Randy Klobberdanz
ADDRESS: 1615 Wynkoop Street, Denver, CO 80202
TELEPHONE NUMBER: (303) 357-7310

BUILDER'S NAME: Antero Resources Corporation

ADDRESS: 1615 Wynkoop Street, Denver, CO 80202

TELEPHONE NUMBER: (303)-357-7310

ENGINEER'S NAME: RETTEW Associates, Inc.

ADDRESS: One Robinson Plaza, Suite 200, Pittsburgh, PA 15205

TELEPHONE NUMBER: (412) 446-1728

PROJECT LOCATION:

NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Surface Owner Table

ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) Please see Surface Owner Table

DISTRICT: _____

DATE/FROM WHOM PROPERTY

PURCHASED: _____

LAND BOOK DESCRIPTION: Please see Surface Owner Table

DEED BOOK REFERENCE: Please see Surface Owner Table

TAX MAP REFERENCE: Please see Surface Owner Table

EXISTING BUILDINGS/USES OF PROPERTY: None

NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT PROPERTY Please see Surface Owner Table

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

D. ADJACENT AND/OR AFFECTED LANDOWNERS:

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

NAME: Please see attached landowner
ADDRESS: information

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: Please see attached landowner
ADDRESS: information

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 Koberdanz

SIGNATURE:  DATE: 8/24/15

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: _____

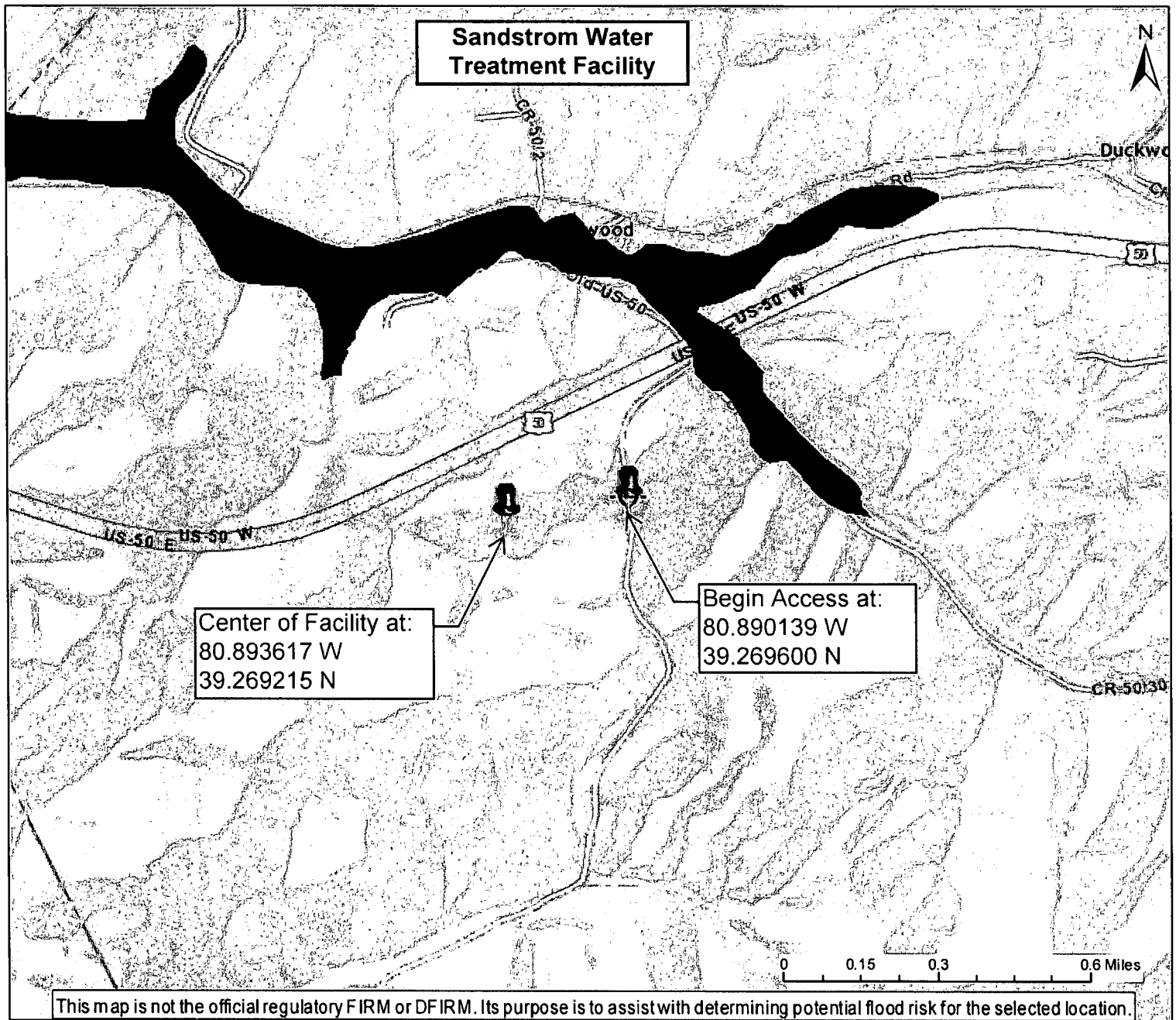
OWNER'S ADDRESS: _____

**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



Center of Facility at:
80.893617 W
39.269215 N

Begin Access at:
80.890139 W
39.269600 N

User Notes:

-  Flood Hazard Zone
-  Flood Point of Interest

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

Map created on July 27, 2015

Flood Hazard Area:

Flood Hazard Area: Location is NOT WITHIN any identified flood hazard area. Unmapped flood hazard

FEMA Issued Flood Map: 54017C0100C

Watershed (HUC8): Little Kanawha (5030203)

Elevation: About 1077 ft

Location (long, lat): (80.890152 W, 39.269551 N)

Location (UTM 17N): (509476, 4346695)

Contacts: Doddridge

CRS Information: N/A

Parcel Number:



JOINS PANEL 0115

285000 FT

280000 FT

39° 15' 00"

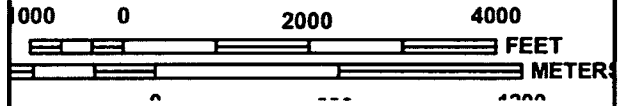
80° 52' 30"

1570000 FT

1575000 FT



MAP SCALE 1" = 2000'



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0100C

FIRM

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

PANEL 100 OF 325

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
DODDRIDGE COUNTY	540024	0100	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.



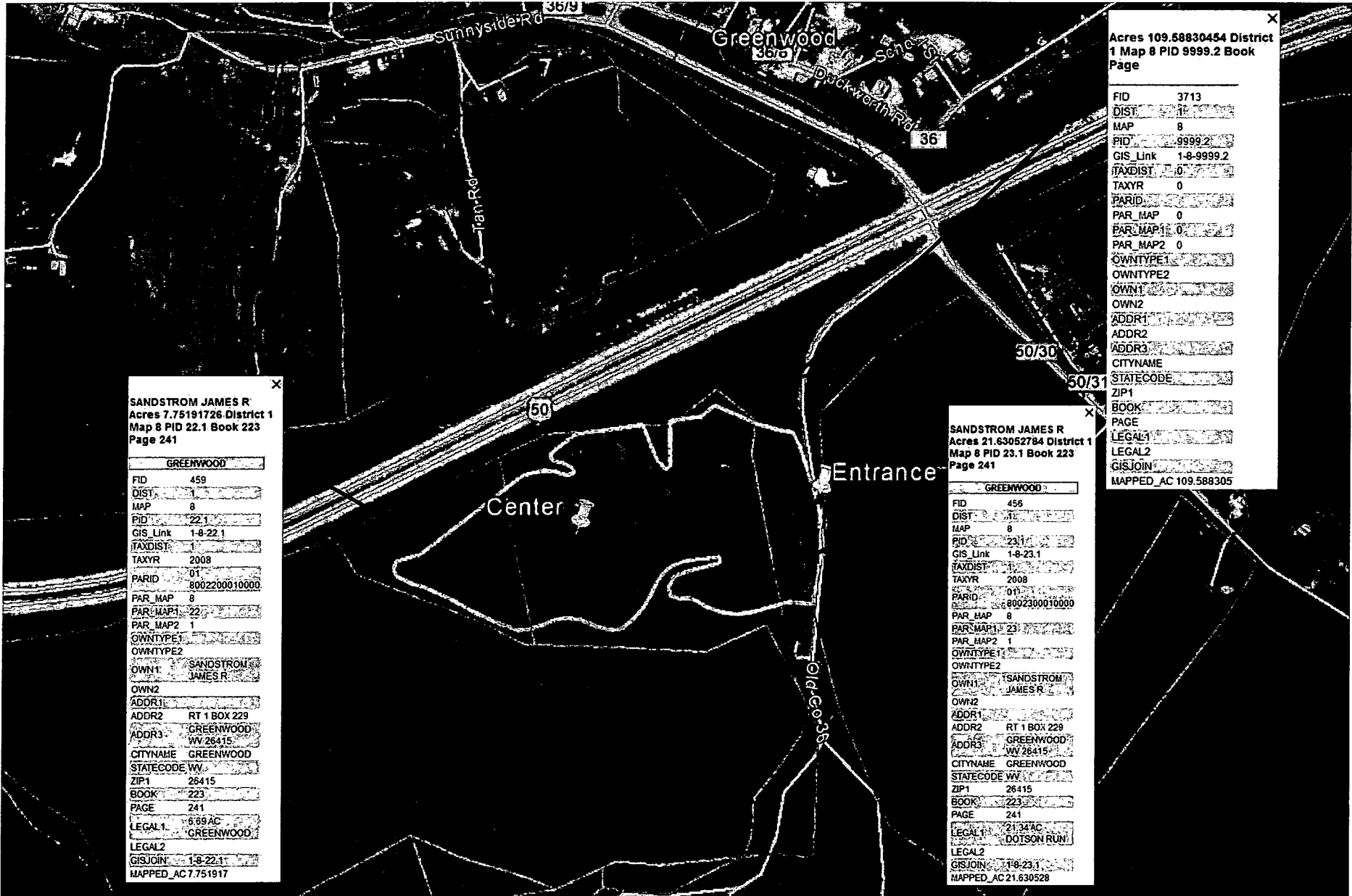
**MAP NUMBER
54017C0100C**

**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

Sandstrom Water Treatment Facility: Surface Owner Information



SANDSTROM JAMES R
Acres 7.75191726 District 1
Map 8 PID 22.1 Book 223
Page 241

GREENWOOD	
FID	459
DIST	1
MAP	8
PID	22.1
GIS_Link	1-8-22.1
TAXDIST	1
TAXYR	2008
PARID	8002200010000
PAR_MAP	8
PAR_MAP1	22
PAR_MAP2	1
OWNTYPE1	
OWNTYPE2	
OWN1	SANDSTROM JAMES R
OWN2	
ADDR1	
ADDR2	RT 1 BOX 229
ADDR3	GREENWOOD WV 26415
CITYNAME	GREENWOOD
STATECODE	WV
ZIP1	26415
BOOK	223
PAGE	241
LEGAL1	6.89 AC GREENWOOD
LEGAL2	
GISJOIN	1-8-22.1
MAPPED_AC	7.751917

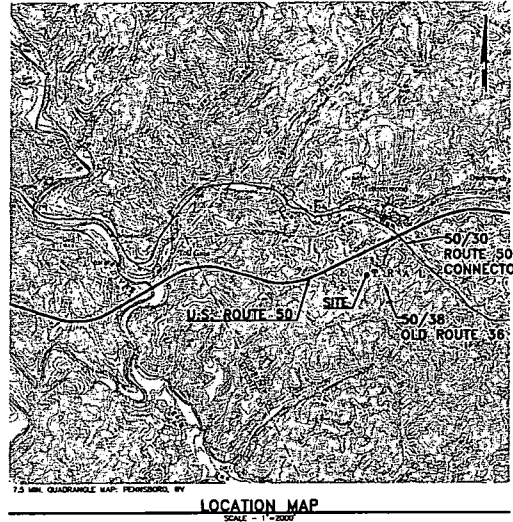
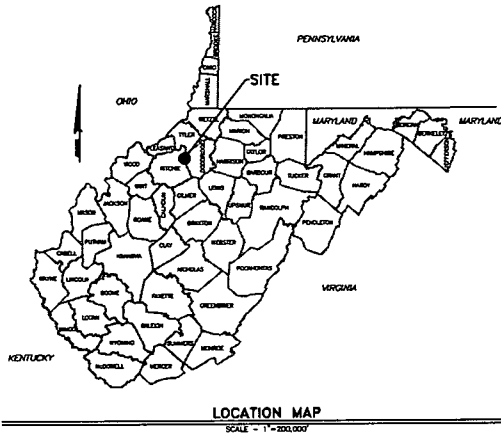
SANDSTROM JAMES R
Acres 21.63052784 District 1
Map 8 PID 23.1 Book 223
Page 241

GREENWOOD	
FID	456
DIST	1
MAP	8
PID	23.1
GIS_Link	1-8-23.1
TAXDIST	1
TAXYR	2008
PARID	8002300010000
PAR_MAP	8
PAR_MAP1	23
PAR_MAP2	1
OWNTYPE1	
OWNTYPE2	
OWN1	SANDSTROM JAMES R
OWN2	
ADDR1	
ADDR2	RT 1 BOX 229
ADDR3	GREENWOOD WV 26415
CITYNAME	GREENWOOD
STATECODE	WV
ZIP1	26415
BOOK	223
PAGE	241
LEGAL1	21.34 AC DOTSON RUN
LEGAL2	
GISJOIN	1-8-23.1
MAPPED_AC	21.630528

Acres 109.58830454 District 1
Map 8 PID 9999.2 Book Page

FID	3713
DIST	1
MAP	8
PID	9999.2
GIS_Link	1-8-9999.2
TAXDIST	10
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	109.588305

EROSION AND SEDIMENT CONTROL DRAWINGS FOR SANDSTROM FACILITY CENTRAL TAX DISTRICT, DODDRIDGE COUNTY, WV



GENERAL NOTES

1. THE TOPOGRAPHIC SURVEY UTILIZED FOR THIS BASE MAPPING WAS PERFORMED BY RETTEW, FEBRUARY 2015.
2. THE HORIZONTAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN DATUM 1983 (NAD 83), NORTH ZONE.
3. THE VERTICAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).
4. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXACT LOCATION PRIOR TO ANY EXCAVATION BY NOTIFYING MISS UTILITY OF WEST VIRGINIA AT 1-800-245-4848.
5. A WETLANDS PRESENCE/ABSENCE SURVEY WAS PERFORMED BY GA ASSOCIATES, INC. IN MAY 2015.
6. THE CUT & FILL SUMMARY CALCULATIONS PRESENTED ON THIS PLAN ARE FOR PERMITTING AND INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING GRADES AND TO VERIFY EARTHWORK VOLUMES, METHODS AND PROCEDURES. ANY ISSUES ARE TO BE BROUGHT TO THE ENGINEER'S AND OWNER'S ATTENTION PRIOR TO COMMENCEMENT OF WORK.
7. ALL EXISTING UTILITIES HAVE BEEN SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION.

DIRECTIONS TO THE SITE

FROM CHARLESTON: MERGE ONTO I-84 E VIA THE RAMP ON THE LEFT TOWARD I-77 / I-78 / BECKLEY. (1.1 MI TOTAL) MERGE ONTO I-77 W VIA EXIT 59 ON THE LEFT TOWARD I-70 / PARKERSBURG. (3.0 MI TOTAL) KEEP LEFT TO TAKE I-77 W TOWARD PARKERSBURG. (79.3 MI TOTAL) TAKE THE US-50 EXIT, EXIT 176 TOWARD DOWNTOWN. (79.6 MI TOTAL) TURN RIGHT ONTO US-50 E. (113.0 MI TOTAL) TURN RIGHT ONTO COUNTY HWY-50 / 50 / SUNSHINE RD. IF YOU REACH COUNTY HWY-50/3 YOU'VE COME ABOUT 2.8 MILES TOO FAR. (113.0 MI TOTAL) TAKE THE 1ST RIGHT ONTO GLEN RUN RD / COUNTY HWY-50 / 38. CONTINUE TO FOLLOW COUNTY HWY-50 / 38. IF YOU REACH ROCKET OR YOU'VE COME ABOUT 0.1 MILES TOO FAR, (113.2 MI TOTAL) LATITUDE: 38.288903 LONGITUDE: -80.822221.

LOCAL ANTERO OFFICE

535 WHITE OAKS BLVD.
BROOKPORT, WV 26330
PHONE (304) 943-1100

LOCAL CONTACTS:
CJ WAGNER--ENVIRONMENTAL ENGINEER
PHONE (304) 943-6658
CELL (304) 478-6770

JOHN KARCIAK--OPERATIONS SUPERINTENDENT
CELL (817) 368-1553

SHAWN BARNETT--CONSTRUCTION SUPERVISOR
PHONE (304) 842-2441
CELL (304) 641-0071

ROBERT WIRTS--DESIGN MANAGER
PHONE (304) 943-6601
CELL (304) 627-7409

WEST VIRGINIA 811

CALL BEFORE YOU DIG! Dial 811 or 800.245.4848
Miss Utility of West Virginia

AT LEAST 48 HOURS, BUT NOT MORE THAN 60 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS) PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES. ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848.

SOILS CLASSIFICATION

- DE QUIN-PLAINTY CLAY, 25 TO 35 PERCENT SLURPS
- SE QUIN-PLAINTY CLAY, 25 TO 35 PERCENT SLURPS
- OL QUIN-UPPER SILT LOAM, 15 TO 25 PERCENT SLURPS
- U1 UNIFORMITY SHOWN

LIST OF DRAWINGS

- 1 OF 10 COVER SHEET
- 2 OF 10 DISTING CONDITIONS PLAN
- 3 OF 10 OVERALL GRADING/EROSION PLAN
- 4 OF 10 GRADING/EROSION PLAN
- 5 OF 10 GRADING/EROSION PLAN
- 6 OF 10 GRADING/EROSION PLAN
- 7 OF 10 GRADING ANALYSIS PLAN
- 8 OF 10 NOTES AND DETAILS
- 9 OF 10 DETAILS
- 10 OF 10 DETAILS

DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE



FOR REVIEW ASSIGNED BY:	DATE

CLIENT: ANTERO RESOURCES CORPORATION
1815 WINDCOOP STREET
DENVER, COLORADO 80202

Antero
Resources

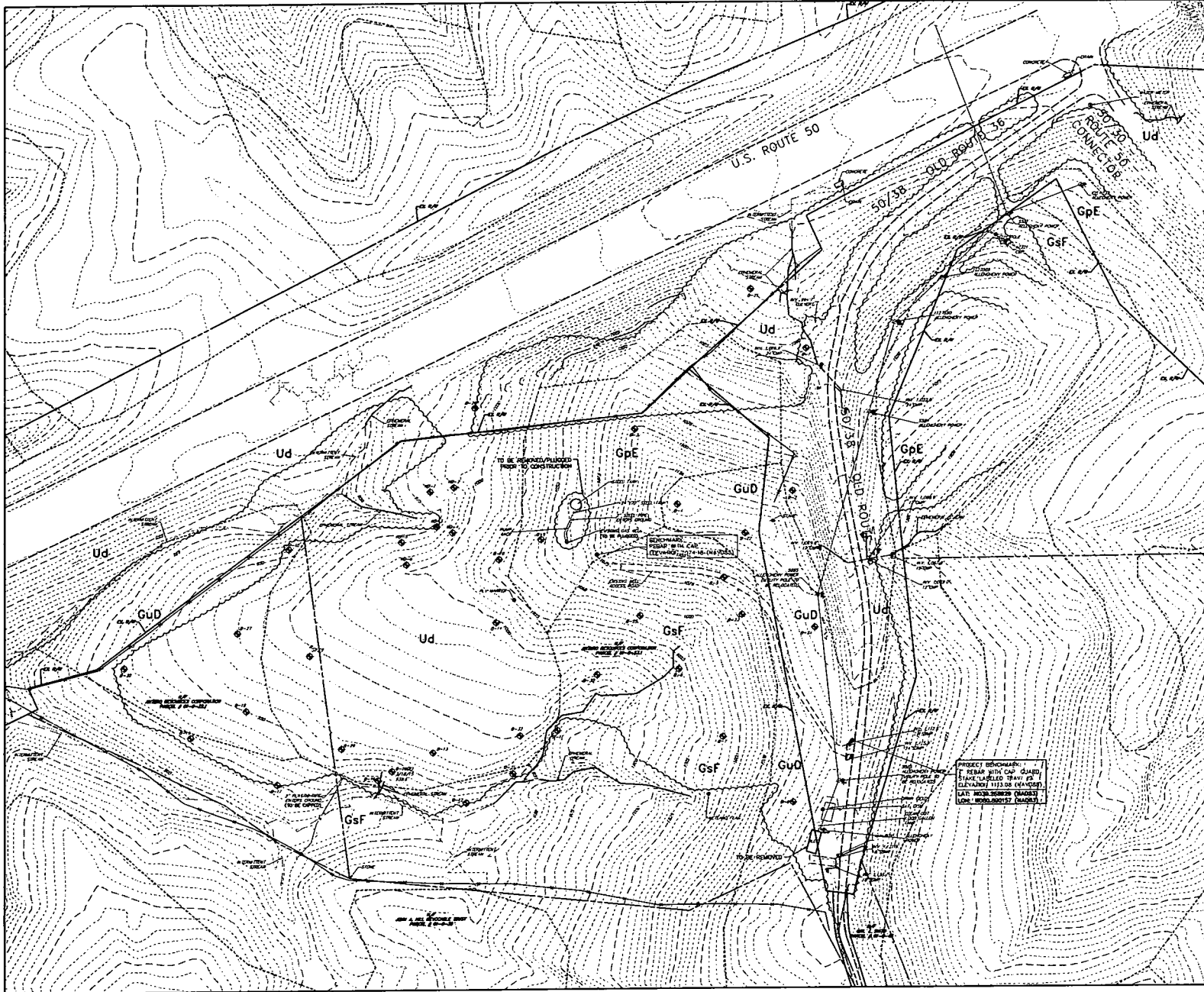
RETTEW

RETTEW ENGINEERING, INC.
One West Liberty Avenue, Suite 200, Charleston, WV 25305
Phone: 304.744.1100 Fax: 304.744.1102
Email: rtw@rettew.com
Website: www.rrettew.com

COVER SHEET
EROSION AND SEDIMENT CONTROL DRAWINGS
FOR
SANDSTROM FACILITY
CENTRAL TAX DISTRICT
DODDRIDGE COUNTY, WV

DATE:	JUNE 3, 2015
SHEET NO.:	1 OF 10
DWG. NO.:	095452132

NOT FOR CONSTRUCTION/NOT FOR BIDDING



LEGEND

- EXISTING PROPERTY LINE
- EXISTING PROPERTY
- EXISTING STONE
- EXISTING SOIL BOUNDARY
- EXISTING FENCE
- EXISTING BEARING
- EXISTING HOLE
- EXISTING MAJOR CENTER LINE
- EXISTING MINOR CENTER LINE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING SANITARY SEWER LINE
- EXISTING FENCE LINE
- EXISTING STREAM-CHANNEL
- EXISTING STREAM-WEIRMENT
- EXISTING WETLAND
- EXISTING LOT/BLK
- EXISTING COUNTY LINE
- EXISTING DISTRICT LINE
- PROPOSED MAJOR CENTER LINE
- PROPOSED MINOR CENTER LINE
- PROPOSED BEARING
- PROPOSED GRAVEL
- PROPOSED STORM PIPE
- LIMITS OF DISTURBANCE (PHASE 0)
- ULTIMATE LIMITS OF DISTURBANCE
- 1" FILTER SOAK
- 1/2" FILTER SOAK
- 3" FILTER SOAK
- 3" FILTER SOAK
- SLOPE LIMIT
- PROPOSED SPOT ELEVATION
- PROPOSED CONSTRUCTION FENCE

SCALE: 1" = 100'

FOR BETTEW ASSOCIATES BY:

DESIGN BY: []
 CHECK BY: []
 DRAWN BY: []
 DATE: []
 SCALE: []
 SHEET NO.: [] OF []
 DATE: []

DESIGN BY	DATE
CHECK BY	DATE
DRAWN BY	DATE
SCALE	DATE
SHEET NO.	DATE
OF	DATE

PROFESSIONAL SEAL

FOR BETTEW ASSOCIATES BY:

DESIGN BY: []
 CHECK BY: []
 DRAWN BY: []
 DATE: []
 SCALE: []
 SHEET NO.: [] OF []
 DATE: []

CLIENT

ANTERO RESOURCES
 CORPORATION
 1015 WINDYBROOK STREET
 DENVER, COLORADO 80202

Antero Resources

BETTEW

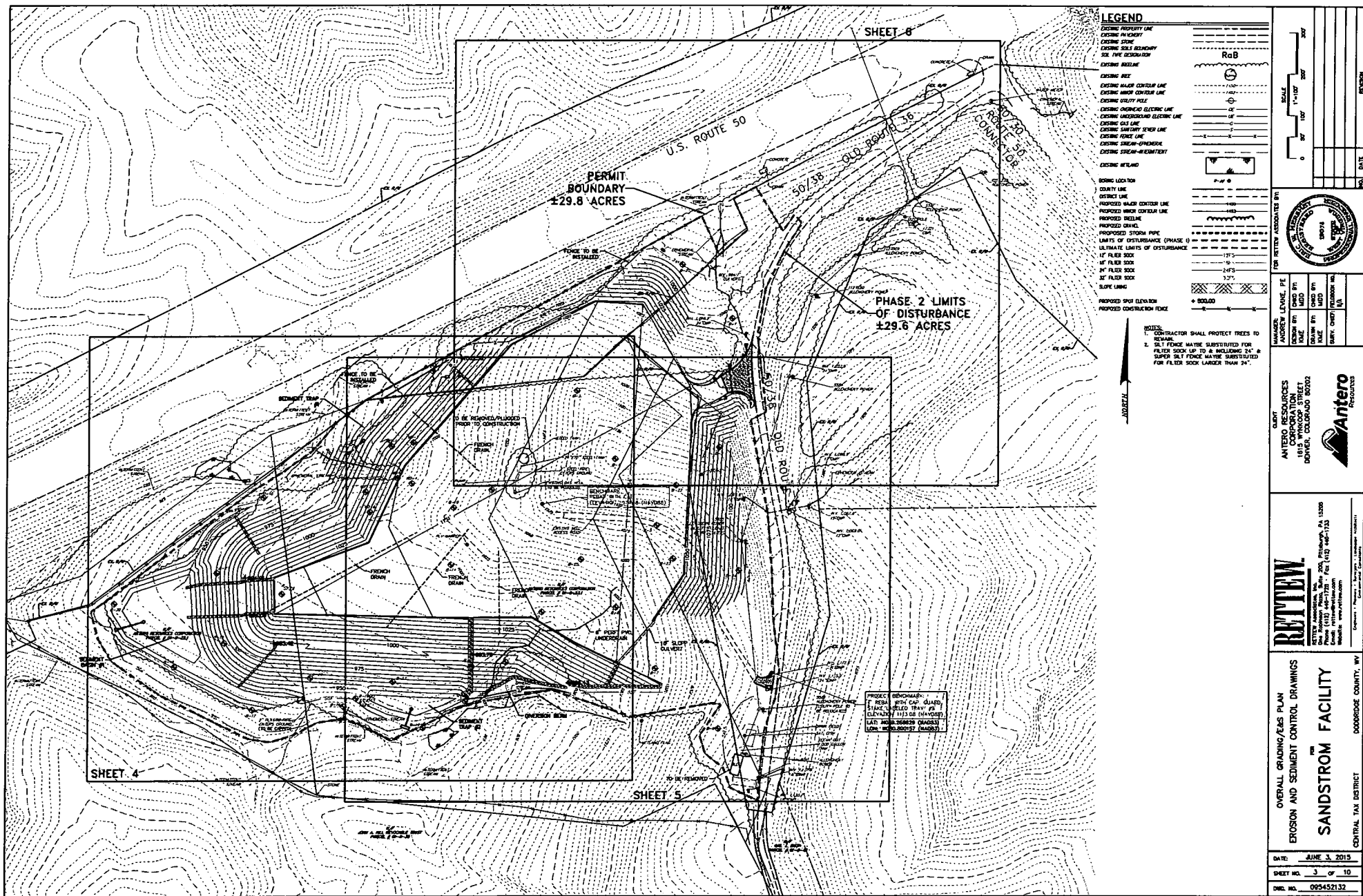
1000 W. UNIVERSITY AVENUE, SUITE 200
 DENVER, COLORADO 80202
 PHONE: 303.733.1111
 FAX: 303.733.1112
 WWW.BETTEW.COM

EXISTING CONDITIONS PLAN
EROSION AND SEDIMENT CONTROL DRAWINGS
SANDSTROM FACILITY

CENTRAL TAX DISTRICT
 COCONINO COUNTY, WY

DATE:	JUNE 3, 2013
SHEET NO.:	2 OF 10
DWG. NO.:	095452132

NOT FOR CONSTRUCTION/NOT FOR BIDDING



LEGEND

- EXISTING PROPERTY LINE
- EXISTING PROPERTY LINE
- EXISTING STONE
- EXISTING SOIL RESISTANCE
- SOIL TYPE DESIGNATION
- EXISTING ROADLINE
- EXISTING FENCE
- EXISTING MAJOR CENTER LINE
- EXISTING MINOR CENTER LINE
- EXISTING UTILITY PIPE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING SANITARY SEWER LINE
- EXISTING FORCE MAIN
- EXISTING CREEK-SPHERICAL
- EXISTING STREAM-RECTANGULAR
- EXISTING WETLAND
- BORING LOCATION
- COUNTY LINE
- DISTRICT LINE
- PROPOSED MAJOR CENTER LINE
- PROPOSED MINOR CENTER LINE
- PROPOSED FENCELINE
- PROPOSED DRAIN
- PROPOSED STORM PIPE
- LIMITS OF DISTURBANCE (PHASE 1)
- ULTIMATE LIMITS OF DISTURBANCE
- 1/2" FILLER SOCK
- 1/4" FILLER SOCK
- 3/4" FILLER SOCK
- 5" FILLER SOCK
- SLOPE LIMB
- PROPOSED SPILT DIVERSION
- PROPOSED CONSTRUCTION FENCE

FOR REVIEW ASSOCIATES BY:

DATE	SCALE
0' 100' 200'	1"=100'

SEAL: REGISTERED PROFESSIONAL ENGINEER, STATE OF COLORADO, No. 15915

CLIENT: ANTERO RESOURCES CORPORATION, 1815 WYNWOOD STREET, DENVER, COLORADO 80202

Antero Resources

REVIEW

REVIEW ASSOCIATES, INC.
 1815 WYNWOOD STREET
 DENVER, COLORADO 80202
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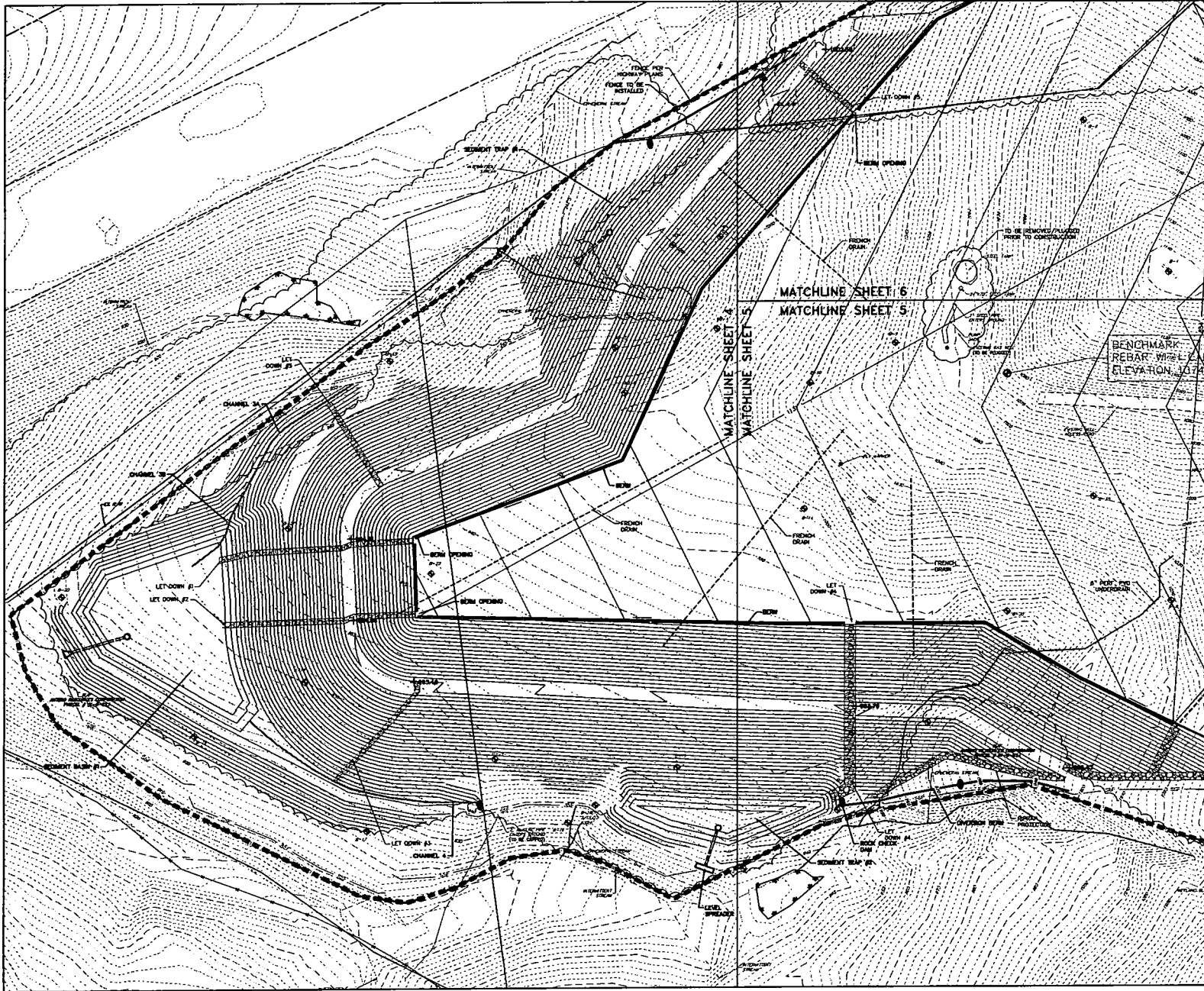
OVERALL GRADING/EAS PLAN
 EROSION AND SEDIMENT CONTROL DRAWINGS

SANDSTROM FACILITY

CENTRAL TAX DISTRICT DODD/BORRIS COUNTY, WY

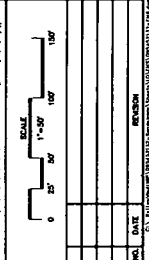
DATE: JUNE 3, 2015
 SHEET NO. 3 OF 10
 DWG. NO. 025452132

NOT FOR CONSTRUCTION/NOT FOR BIDDING



LEGEND

- EXISTING PROPERTY LINE
- EXISTING ALIENWAY
- EXISTING STONE
- EXISTING SOIL BOUNDARY
- SOIL PIPE DESCRIPTION
- EXISTING REEF
- EXISTING REE
- EXISTING HALF CENTER LINE
- EXISTING WHOLE CENTER LINE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING GAS LINE
- EXISTING SANITARY SEWER LINE
- EXISTING FENCE LINE
- EXISTING CURB-OPENING
- EXISTING STREAM-INTERFEST
- EXISTING RETAIN
- EXISTING LOCATION
- COUNTY LINE
- DISTRICT LINE
- PROPOSED MAJOR CENTER LINE
- PROPOSED MINOR CENTER LINE
- PROPOSED REEF
- PROPOSED DRAIN
- PROPOSED STORM PIPE
- LIMITS OF DISTURBANCE (PHASE I)
- ULTIMATE LIMITS OF DISTURBANCE (I)
- 1" FILTER SOCK
- 1/2" FILTER SOCK
- 1" FILTER SOCK
- SLOPE LING
- PROPOSED SPLIT DRAIN
- PROPOSED CONSTRUCTION FENCE



FOR REVIEW ASSOCIATED BY:

ANDREW LEVINE, PE	LEAD BY	NO.
ANDREW LEVINE, PE	MOD BY	NO.
ANDREW LEVINE, PE	CHK BY	NO.
ANDREW LEVINE, PE	DATE	DATE
ANDREW LEVINE, PE	DATE	DATE

NOTES:
 1. CONTRACTOR SHALL PROTECT TREES TO REMAIN.
 2. SILT FENCE MATS BE SUBSTITUTED FOR FILTER SOCK UP TO 8 INCHES 24" & SUPER SILT FENCE MATS SUBSTITUTED FOR FILTER SOCK LARGER THAN 24".

CLIENT: SANDSTROM FACILITY
 1615 WINDOOP STREET
 DENVER, COLORADO 80202

Antero
Resources

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 RETEN ASSOCIATES, INC.
 One Robert Place, Suite 200, Pittsburgh, PA 15203
 Phone: (412) 487-1122
 Fax: (412) 487-1122
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 Website: www.reten.com

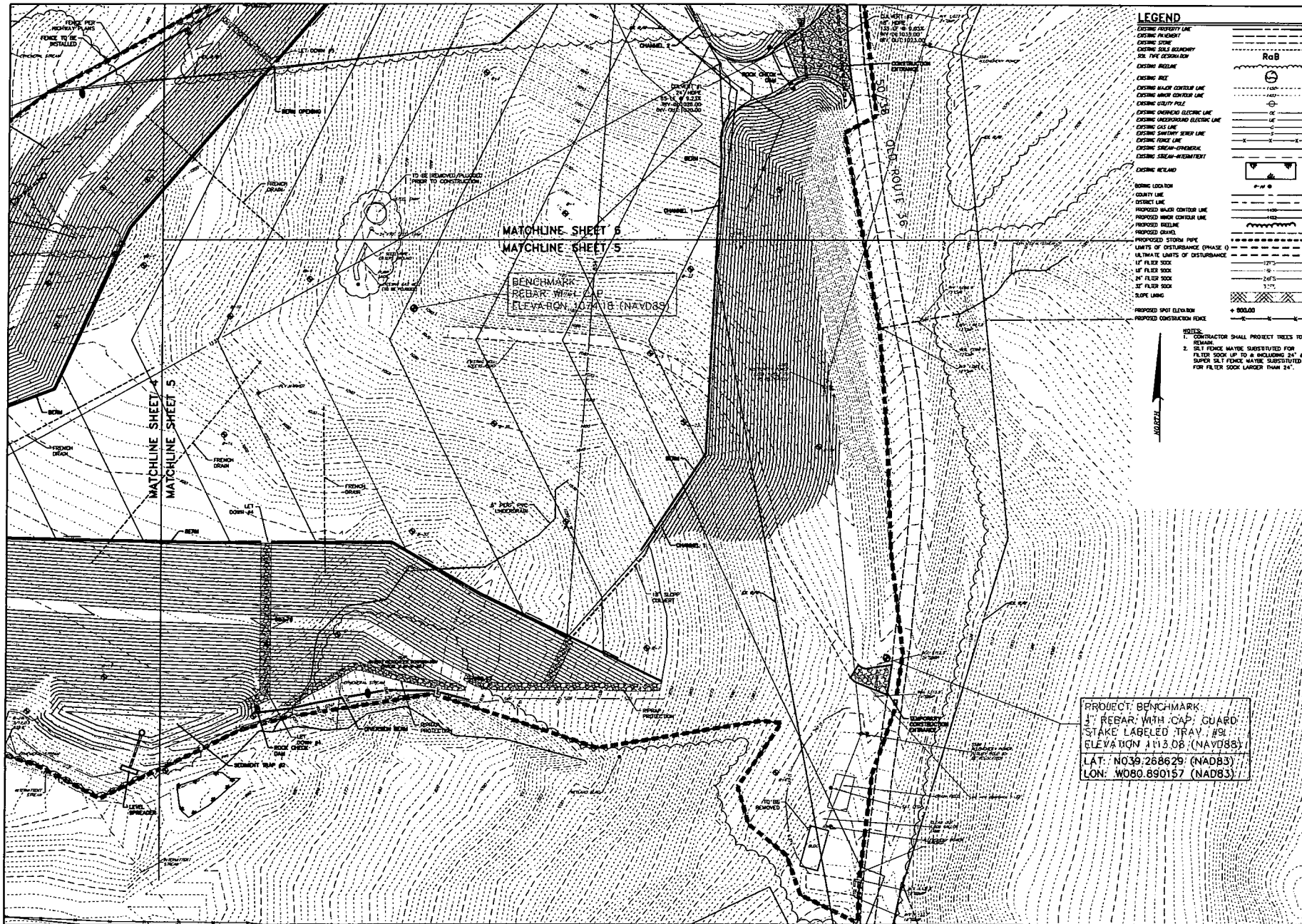
GRADING/EAS PLAN
 EROSION AND SEDIMENT CONTROL DRAWINGS

SANDSTROM FACILITY

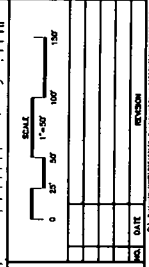
CENTRAL TAX DISTRICT
 DODDORGE COUNTY, WY

DATE:	JUNE 3, 2015
SHEET NO.:	4 OF 10
DWG. NO.:	095432132

NOT FOR CONSTRUCTION/NOT FOR BIDDING



- LEGEND**
- EXISTING PROPERTY LINE
 - EXISTING FENCING
 - EXISTING STONE
 - EXISTING SOIL BENCHMCH
 - SOIL TYPE DESIGNATION
 - EXISTING REGRADE
 - EXISTING REE
 - EXISTING MAJOR CENTER LINE
 - EXISTING MINOR CENTER LINE
 - EXISTING UTILITY PIPE
 - EXISTING OVERHEAD ELECTRIC LINE
 - EXISTING UNDERGROUND ELECTRIC LINE
 - EXISTING GAS LINE
 - EXISTING SANITARY SEWER LINE
 - EXISTING FORCE MAIN
 - EXISTING STREAM-SPHERICAL
 - EXISTING STREAM-RECTANGULAR
 - EXISTING WEIR/LAKE
 - SOUND LOCATION
 - COUNTY LINE
 - DISTRICT LINE
 - PROPOSED MAJOR CENTER LINE
 - PROPOSED MINOR CENTER LINE
 - PROPOSED REGRADE
 - PROPOSED GRAVEL
 - PROPOSED STORM PIPE
 - LIMITS OF DISTURBANCE (PHASE 1)
 - ULTIMATE LIMITS OF DISTURBANCE
 - 1" FILTER SOCK
 - 1/4" FILTER SOCK
 - 1/2" FILTER SOCK
 - SLOPE LIMB
 - PROPOSED SPOT ELEVATION
 - PROPOSED CONSTRUCTION FENCE



FOR REVIEW ASSOCIATES BY:

DESIGN BY:	LEAD BY:	DATE:
DATE:	DATE:	DATE:
DATE:	DATE:	DATE:

- NOTES:**
- CONTRACTOR SHALL PROTECT TREES TO REMAIN.
 - SILT FENCE MAY BE SUBSTITUTED FOR FILTER SOCK UP TO & INCLUDING 24" & SUPER SILT FENCE MAY BE SUBSTITUTED FOR FILTER SOCK LARGER THAN 24".

PROJECT BENCHMARK
 3" REBAR WITH CAP, GUARD
 STAKE LABELED TRAY #91
 ELEVATION 1113.08 (NAD83)
 LAT: N039.268629 (NAD83)
 LON: W080.890157 (NAD83)

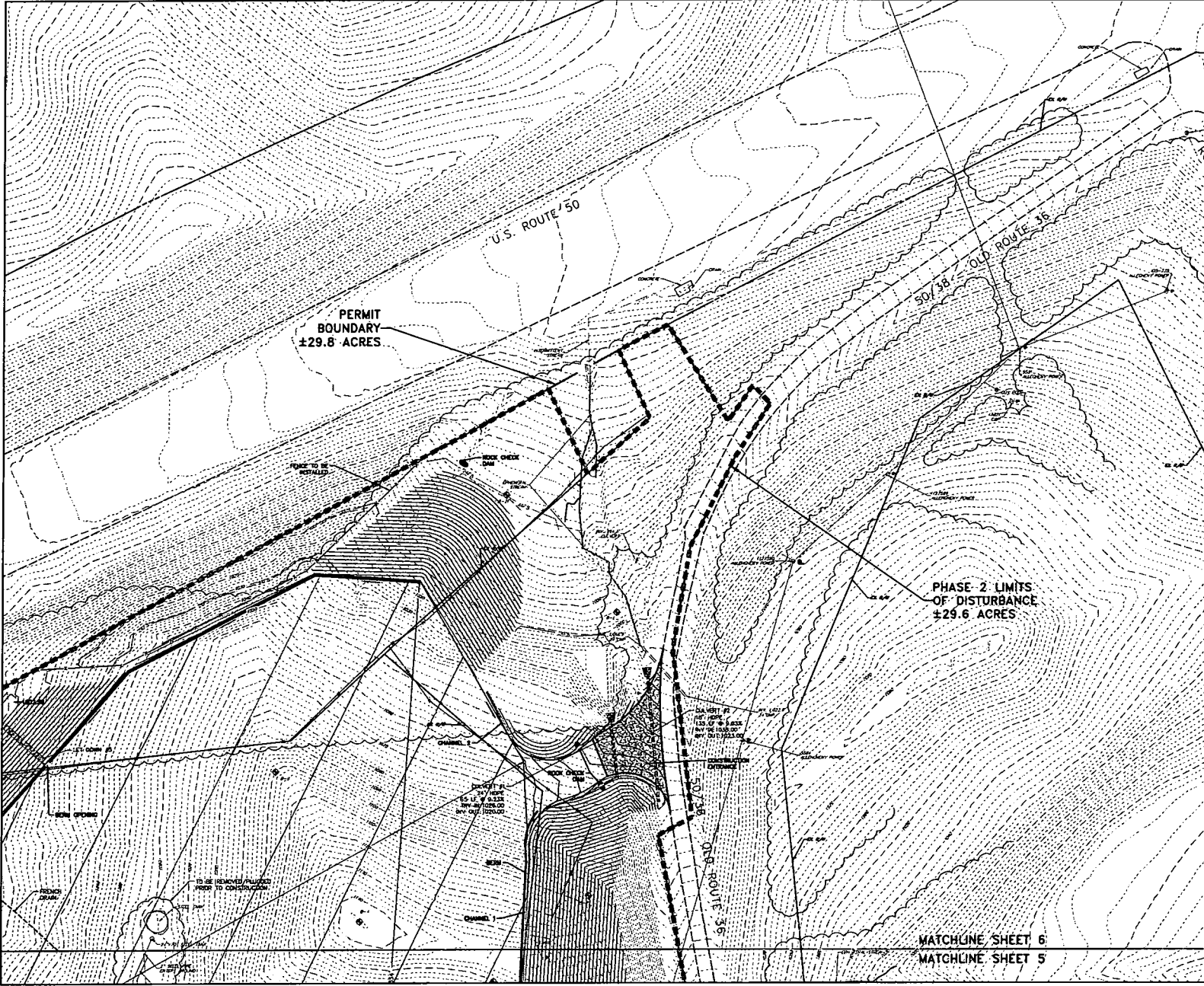
CLIENT:
ANTERO RESOURCES CORPORATION
 1815 WINDHOPE STREET
 DENVER, COLORADO 80202

RETTEW
 RETTEW ASSOCIATES, INC.
 11000 W. WYOMING AVE., SUITE 200
 DENVER, CO 80222
 PHONE: (303) 440-7777 FAX: (303) 440-7722
 EMAIL: info@rettew.com
 WEBSITE: www.rettew.com

GRADING/E&S PLAN
 EROSION AND SEDIMENT CONTROL DRAWINGS
SANDSTROM FACILITY
 CENTRAL TAX DISTRICT
 DODDORIDGE COUNTY, WY

DATE: **JUNE 3, 2015**
 SHEET NO. **5** OF **10**
 DWG. NO. **095452132**

NOT FOR CONSTRUCTION/NOT FOR BIDDING



LEGEND

EXISTING PROPERTY LINE	---
EXISTING PROPERTY	---
EXISTING STONE	---
EXISTING SOIL BENCHING	---
SOIL PIPE DESIGNATION	---
EXISTING BOUNDARY	---
EXISTING FENCE	---
EXISTING MAJOR CENTER LINE	---
EXISTING MINOR CENTER LINE	---
EXISTING UTILITY PIPE	---
EXISTING OVERHEAD ELECTRIC LINE	---
EXISTING UNDERGROUND ELECTRIC LINE	---
EXISTING GAS LINE	---
EXISTING SANITARY SEWER LINE	---
EXISTING FENCE LINE	---
EXISTING DRAINAGE-OPENURE	---
EXISTING DRAINAGE-REINFORCEMENT	---
EXISTING WEIR/SLAB	---
EXISTING LOCATION	---
COUNTY LINE	---
DISTRICT LINE	---
PROPOSED MAJOR CENTER LINE	---
PROPOSED MINOR CENTER LINE	---
PROPOSED BOUNDARY	---
PROPOSED CHIMNEY	---
PROPOSED STORM PIPE	---
LIMITS OF DISTURBANCE (PHASE 1)	---
ALTERNATE LIMITS OF DISTURBANCE	---
1" FILTER SOCK	---
4" FILTER SOCK	---
12" FILTER SOCK	---
SLOTTED LINING	---
PROPOSED SPOT ELEVATION	---
PROPOSED CONSTRUCTION FENCE	---

FOR REVIEW ASSOCIATES BY:

DATE	
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DATE	
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FOR REVIEW ASSOCIATES BY:

DATE	
BY	
DATE	
BY	
DATE	
BY	

CLIENT: ANTERO RESOURCES CORPORATION
 1615 WINDGAP STREET
 DENVER, COLORADO 80202

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 RETTEW ASSOCIATES, INC.
 One Redwood Plaza, Suite 200, Pittsburgh, PA 15205
 One Redwood Plaza, Suite 200, Fort Collins, CO 80526
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 Website: www.retrew.com

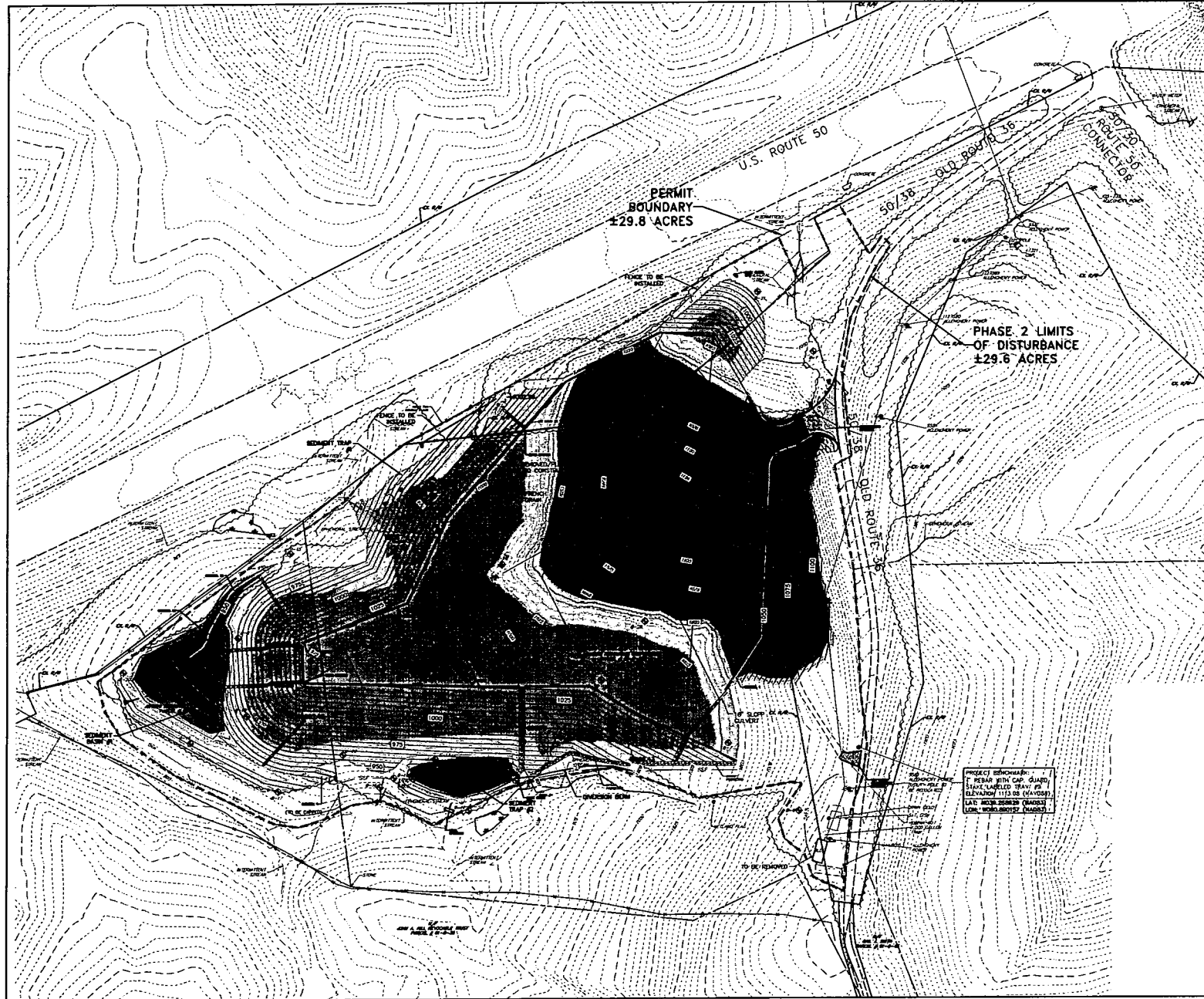
GRADING/EAS PLAN
 EROSION AND SEDIMENT CONTROL DRAWINGS
SANDSTROM FACILITY
 CENTRAL TAX DISTRICT
 OGDORGE COUNTY, WY

DATE:	JUNE 3, 2015
SHEET NO.:	8 OF 10
ONG. NO.:	093452132

PHASE 2 LIMITS OF DISTURBANCE ±29.6 ACRES

MATCHLINE SHEET 6
 MATCHLINE SHEET 5

NOT FOR CONSTRUCTION/NOT FOR BIDDING




PERMIT BOUNDARY ±29.8 ACRES

PHASE 2 LIMITS OF DISTURBANCE ±29.6 ACRES

LEGEND

- EXISTING PROPERTY LINE
- EXISTING PLUMB LINE
- EXISTING STONE
- EXISTING SLOPE GRADUARY
- EXISTING RIBBLINE
- EXISTING BENCH
- EXISTING BENCH
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING UNDERGROUND ELECTRIC LINE
- EXISTING DRAINAGE LINE
- EXISTING SWIFTWAY SLOPE LINE
- EXISTING FENCE LINE
- EXISTING STREAM-SPHERICAL
- EXISTING STREAM-FLAT
- EXISTING WEIR AND
- BOILING LOCATION
- COUNTY LINE
- DISTRICT LINE
- PROPOSED WATER CONTOUR LINE
- PROPOSED MINOR CONTOUR LINE
- PROPOSED FENCE LINE
- PROPOSED DRAIN
- PROPOSED STORM PIPE
- LIMITS OF DISTURBANCE (PHASE 1)
- ULTIMATE LIMITS OF DISTURBANCE
- 1/2" FILLER SOIL
- 1/4" FILLER SOIL
- 1/2" FILLER SOIL
- 1/4" FILLER SOIL
- SLIP LANE
- PROPOSED SPOT ELEVATION
- PROPOSED CONSTRUCTION FENCE

SCALE	0	50	100	200	300	400	500
DATE							

FOR REVIEW ASSIGNED BY:							
							
ISSUES:	ANDREW PECK	LEAD BY:	LEAD BY:	LEAD BY:	LEAD BY:	LEAD BY:	LEAD BY:
DATE:		DATE:		DATE:		DATE:	
DATE:		DATE:		DATE:		DATE:	

ANTERO RESOURCES CORPORATION
 1815 WYNDROP STREET
 DENVER, COLORADO 80202


NOTES:
 1. THE CUT & FILL SUMMARY CALCULATIONS PRESENTED ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXISTING GRADES AND VERIFY EARTHWORK VOLUMES, METHODS AND PROCEDURES. ANY ISSUES ARE TO BE BROUGHT TO THE ENGINEER'S AND OWNER'S ATTENTION PRIOR TO COMMENCEMENT OF WORK.

PROJECT SHOWS: 7' BENCH WITH CAP, GUARD, STAKE, LABELED TRAP #1 (ELEVATION 1113.18 (EAVES)), 14" MESH SEDIMENT TRAP (EAVES), 14" MESH SEDIMENT TRAP #2 (EAVES), 14" MESH SEDIMENT TRAP #3 (EAVES)

CUT	FILL

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 RETTEW ASSOCIATES, INC.
 2000 Pennsylvania Avenue, Suite 1100
 Denver, Colorado 80202
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GRADING ANALYSIS PLAN
 EROSION AND SEDIMENT CONTROL DRAWINGS
 SANDSTROM FACILITY
 CENTRAL TAX DISTRICT
 DOORIDGE COUNTY, WY

DATE:	JUNE 3, 2015
SHEET NO.:	7 OF 10
DWG. NO.:	095452132

NOT FOR CONSTRUCTION/NOT FOR BIDDING

EROSION AND SEDIMENTATION CONTROL MEASURES

EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED DURING THE CONSTRUCTION AND POST CONSTRUCTION PERIOD TO PREVENT SOIL EROSION, SEDIMENTATION AND DRIFT FROM EXISTING STREAMS, EXISTING ROADWAYS, PROPOSED ROADS, ETC. THESE MEASURES INCLUDE FIELD SOCKS, TOSPOL, STOOPPLES, ROCK CONSTRUCTION ENTRANCE, ETC. AS SHOWN ON THE DRAWINGS.

TEMPORARY EROSION CONTROL MEASURES

- 1. TEMPORARY VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED TOSPOLES AND ON ALL DISTURBED AREAS LEFT UNSTABILIZED, OR DISCONTINUED EROSION CONTROL ACTIVITY WILL BE STABILIZED WITHIN 14 DAYS.
2. DURING CONSTRUCTION, THE AMOUNT OF DISTURBED SOILS SHALL BE KEPT TO A MINIMUM AND, WHENEVER POSSIBLE, A SUITABLE VEGETATIVE BUFFER WILL BE MAINTAINED AROUND ALL CONSTRUCTION AREAS.
3. ALL EROSION CONTROL ACTIVITIES SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE THE AMOUNT OF DISTURBED AREA.
4. ALL SOIL STOOPPLES ARE TO BE SEEDED WITH A TEMPORARY GRASS COVER WITHIN 14 DAYS.
5. UPON GENERAL COMPLETION OF THE FINAL GRADING, TOSPOLES SHALL BE PLACED AND FINAL GRADING PASSES SHALL BE MADE PARALLEL TO THE DIRECTION OF RUNOFF.
6. RE-SEED AND REESTABLISH ANY BARRON AND DISTURBED AREAS NOT HAVING ESTABLISHED GRASS COVER.
7. SILT SOCK SHALL BE PLACED AT CRITICAL EROSION AREAS, AS SHOWN ON THE PLAN, IN ORDER TO PREVENT SEDIMENT FROM DRIVING INTO THE SUPPLIER'S STRUCTURES.
8. SILT SOCK SHALL BE INSTALLED AND MAINTAINED FOR THE SUPPLIER'S PROTECTION.
9. WHERE OUST OR WHO EXCESS IS A PROBLEM, THE UNSTABLE SURFACE(S) SHALL BE SPRINKLED WITH WATER OR OTHER SUITABLE SOIL CONDITIONER, HOWEVER, WASHING OF ROADWAYS IS NOT PERMITTED.
10. ANY WATER PUMPED FROM ANY EXCAVATION, FOR ANY REASON, SHALL BE DIRECTED THROUGH A SEDIMENT TRAP AND DUMP INTO THE EXISTING DRAINAGE SYSTEM.
11. THE CONTRACTOR SHALL EMPLOY MEASURES DURING CONSTRUCTION TO PREVENT SPILLS OF FUELS OR LUBRICANTS, IF A SPILL OCCURS, IT SHALL BE CONTROLLED IMMEDIATELY TO PREVENT ITS ENTRY INTO EXISTING DRAINAGE SYSTEMS.
12. AT A MINIMUM INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROLS WILL BE CONDUCTED EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAIN EVENT OF 0.5 INCHES OR GREATER OF RAINFALL IN 24 HOURS.
13. WHERE THE INTENTION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
14. WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES CEASED, THE TOTAL TIME PERIOD THAT STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
15. AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERSONAL VEGETATIVE COVER WITH A DENSITY OF 70% WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RESEED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.

EARTHWORK NOTES (CONTINUED)

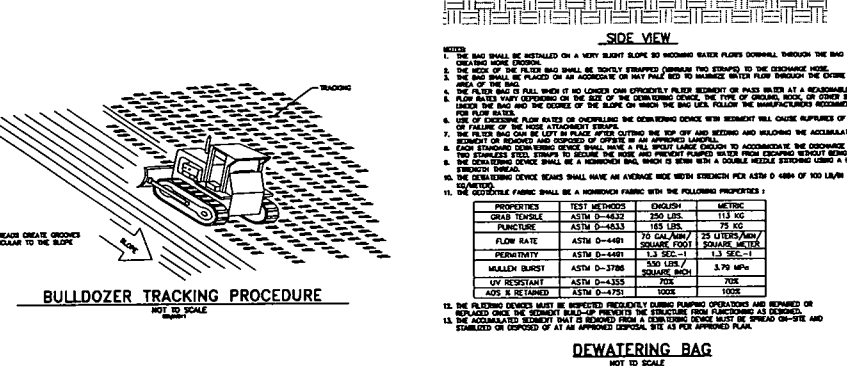
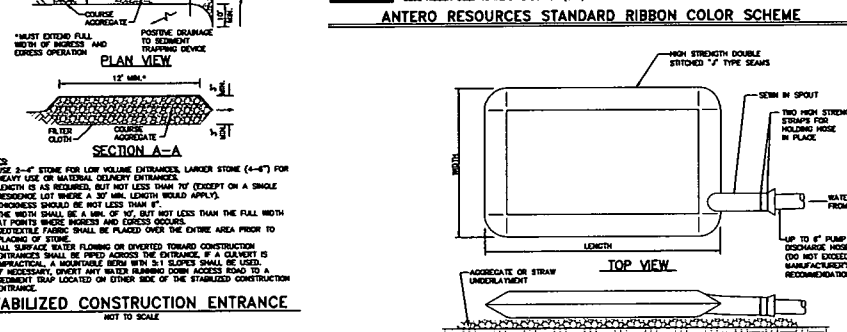
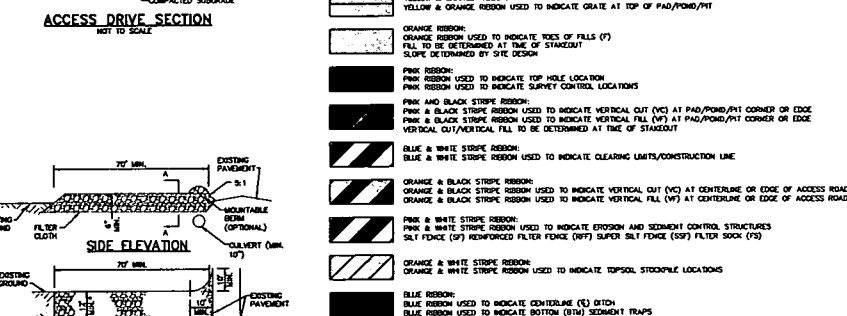
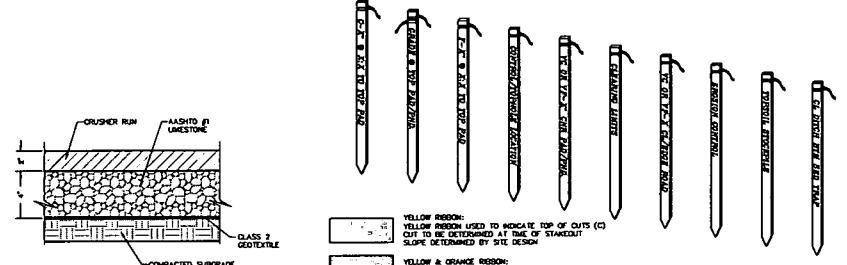
- 11. THE SIZES OF TEMPORARY EXCAVATIONS SHALL BE ADEQUATELY SLOPED OR SHOULDERED TO PROVIDE STABLE SIDES AND SAFE WORKING CONDITIONS FOR OPERATORS, LABORERS AND EQUIPMENT OPERATORS TO WORK UNDER THE SURFACE AND PROTECT TEST PITS. ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY STANDARDS SHALL BE FOLLOWED BY THE CONTRACTOR.
12. PROTECT ALL EXISTING UTILITY LINES AND STRUCTURES FROM DAMAGE BY EXCAVATION AND REPLACEMENT WITH CONTROLLED COMPACTED SOIL OR ROCK FILL. PROVIDE A CUT/FILL TRANSITION LINE AND PLACE SUBSURFACE DRAINS AT THE TRANSITION ZONE AS DIRECTED BY THE ENGINEER. THE SURFACE SHALL BE SEALED ON A DAILY BASIS TO MINIMIZE DISTURBANCE AND MOISTURE INTRUSION.
13. ALL EARTHWORK OPERATIONS SHALL BE OBSERVED AND TESTED ON A FULL-TIME BASIS BY A SOIL TECHNICIAN UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER. THE OBSERVATION AND TESTING SHALL INCLUDE OBSERVATION OF STABILITY OF THE SOILS AND BONDING CHARACTERISTICS OF UNSTABLE COLLUVIAL SOILS. INSTALLATION OF BRIDGE MEASURES, LIFT THICKNESS OF MATERIAL, COMPACTIVE EFFORT, TYPE AND MOISTURE OF SOIL, QUALIFICATION OF OPERATOR, MOISTURE AND DENSITY OF COMPACTION. ALL COMPACTIVE EFFORT SHALL BE VERIFIED BY IN-PLACE DENSITY TESTING ON EACH LIFT AT A MINIMUM 100-FOOT GOOD PATTERN.
14. EARTHWORK OPERATIONS SHALL BE OBSERVED AND TESTED ON A FULL-TIME BASIS BY A SOIL TECHNICIAN UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER. THE OBSERVATION AND TESTING SHALL INCLUDE OBSERVATION OF STABILITY OF THE SOILS AND BONDING CHARACTERISTICS OF UNSTABLE COLLUVIAL SOILS. INSTALLATION OF BRIDGE MEASURES, LIFT THICKNESS OF MATERIAL, COMPACTIVE EFFORT, TYPE AND MOISTURE OF SOIL, QUALIFICATION OF OPERATOR, MOISTURE AND DENSITY OF COMPACTION. ALL COMPACTIVE EFFORT SHALL BE VERIFIED BY IN-PLACE DENSITY TESTING ON EACH LIFT AT A MINIMUM 100-FOOT GOOD PATTERN.

TOSPOL SPECIFICATIONS

- 1. SITE PREPARATION - BEFORE SPREADING TOSPOL, ASSURE THAT ALL NECESSARY EROSION AND SEDIMENT CONTROL MEASURES SUCH AS DIMENSIONAL BERM, DITCHES, WATERWAYS AND SEDIMENT BARRIERS ARE IN PLACE AND FUNCTIONING PROPERLY. THESE PRACTICES MUST BE MAINTAINED UNTIL THE SITE IS PERMANENTLY STABILIZED.
2. GRADING - MAINTAIN GRADES ON THE AREAS TO BE TOSPOLED ACCORDING TO THE APPROVED PLAN AND DO NOT ALTER THEM BY ADDING TOSPOL.
3. LAMING OF SURFACE - WHERE THE PH OF THE EXISTING SURFACE IS 6.0 OR LESS, OR THE SOIL IS COMPOSED OF HEAVY CLAYS, APPROPRIATE AGRICULTURAL LIMESTONE IS AVAILABLE, RECOMMENDED BY SOIL TESTS OR SPECIFIED FOR THE SEEDING MIXTURE TO BE USED, INCORPORATE LIME TO A DEPTH OF AT LEAST 18 INCHES BY TOSPOLING.
4. REDISTRIBUTION - IMMEDIATELY PRIOR TO SPREADING THE TOSPOL, LOOSEN THE SUBGRADE BY DRIVING OR GRADING TO A DEPTH OF AT LEAST 18 INCHES TO OBTAIN BONDING OF THE TOSPOL AND SURFACE. IF NO ADJUSTMENTS HAVE BEEN INCORPORATED, LOOSEN THE SOIL TO A DEPTH OF AT LEAST 18 INCHES.
5. SPREADING TOSPOL - UNIFORMLY DISTRIBUTE TOSPOL TO A MINIMUM COMPACTED DEPTH OF 2 INCHES ON 3:1 SLOPES OR STEEPER AND 4 INCHES ON FLATTER SLOPES.
6. TOSPOL SHALL BE SPREAD 100 TO 150 POUNDS PER SQUARE YARD OR WHEN THE SUBSOIL IS FROZEN OR SATURATED.
7. OPERATIONS ON THE SURFACE THAT RESULT FROM TOSPOLING OR OTHER OPERATIONS SHALL BE CORRECTED TO PREVENT THE FORMATION OF DEPRESSIONS OR POONDING OF WATER.
8. CONTACT THE TOSPOL SUPPLIER TO OBTAIN BEST PRACTICES FOR THE TOSPOLING PROCESS, BUT AVOID EXCESSIVE COMPACTING AS IT MAY CAUSE RUNOFF AND INHIBIT SEED GERMINATION AND SEEDLING DEVELOPMENT. LIGHT PACKING WITH A ROLLER IS RECOMMENDED WHERE HIGH-MAINTENANCE TURF IS TO BE ESTABLISHED.

CONSTRUCTION SEQUENCE

- 1. EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE, EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE.
2. EROSION CONTROL MEASURES SHALL BE INSTALLED IMMEDIATELY UPON THE COMPLETION OF ANY ACTIVITY OF THE OPERATOR THAT INSTALLED OR DISTURBED AREAS TO PROTECT FROM ACCELERATED EROSION.
3. ERPS SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO INITIATING ANY UP-SLOPE EARTH DISTURBANCE ACTIVITIES. CLEARING AND GRUBBING MEASURES TO INSTALL THE ERPS SHALL BE LIMITED TO ONLY THOSE AREAS REQUIRED TO INSTALL THE ERPS.
4. AT LEAST 48 HOURS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMAPPED, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY THE WEST VIRGINIA ONE CALL SYSTEM INCORPORATED AT 1-800-315-4848 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
PHASE 1
STAGE 1
1. FIELD MARK THE LIMITS OF DISTURBANCE FOR PHASE 1, RETAINERS, AND EXISTING UTILITY LINE PROXIMITY PRIOR TO EARTH DISTURBANCE.
2. INITIAL STABILIZED CONSTRUCTION ENTRANCES AT PERMITTED LOCATIONS, ALL CONSTRUCTION ENTRANCES SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE. UPON EARTH DISTURBANCE OR EXISTING ROADWAYS MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
3. INSTALL DRAINAGE PITS AND 18" DIA. INCHES INCLUDING.
4. INSTALL PROTECTIVE CONSTRUCTION FENCE AT LOCATIONS INDICATED OR WHERE NEEDED.
5. BEGIN SITE CLEARING FOR PHASE 1. PERMETER FILTER SOCK MUST BE IN PLACE PRIOR TO PULLING STAMPS.
6. INSTALL PERMETER FILTER SOCK AT LOCATIONS INDICATED.
STAGE 2
1. REMOVE EXISTING BUILDING AND SETUP TEMPORARY TOSPOL STOOPPLE AREA AS INDICATED.
2. CONSTRUCT THE SEDIMENT BARRIERS/STRAPS, OUTLET PIPES AND ALL APPURTEANCES. SEED AND MULCH EXTERIOR SLOPES AND INTERIOR SLOPES ABOVE THE CLEANOUT ELEVATION IMMEDIATELY.
3. CONSTRUCT COLLECTION CHANNELS AND BERM TO DIVERT RUNOFF FROM THE CONSTRUCTION AREA TO THE BASIN/TRAP AS SHOWN ON PLAN. INSTALL CHANNEL LINING AS INDICATED.
STAGE 3
1. BEGIN CLEARING AND GRUBBING OPERATIONS FOR THE REMAINING CONSTRUCTION AREA.
2. STOP AND STOOPPLE REMAINING TOSPOL FROM AREAS OF CONSTRUCTION. TOSPOL STOOPPLE SLOPES MUST BE 2:1 H OR FLATTER. PLACE FILTER SOCK AT THE BASE OF THE STOOPPLE AS SHOWN ON PLAN TO PREVENT WASHOUT.
3. COMMENCE WITH BULK EARTH MOVING OPERATIONS FOR PHASE 1. REFER TO THE GEOTECHNICAL REPORT PREPARED BY RETIEW ASSOCIATES FOR CONSTRUCTION REQUIREMENTS.
4. CONSTRUCT THE PAD AND ASSOCIATED CHANNELS. CONSTRUCT THE FILL SLOPES IN REGULAR VERTICAL SECTIONS, SLOPE TO DRAIN BACK TOWARD THE "LET DOWN" CHANNELS. INSTALL CHANNEL LINING AS THE FILL SLOPE IS CONSTRUCTED. CONSTRUCT THE PAD BERM AS SHOWN TO DIVERT RUNOFF FROM THE PAD TO THE "LET DOWN" CHANNELS.
5. OPENED LOCUS IN AREAS WHERE SUBGRADE ELEVATIONS HAVE BEEN ACHIEVED. SEED AND MULCH ALL AREAS WHICH ARE AT FINAL GRADE. INSTALL EROSION CONTROL BLANKETS ON ALL SLOPES 3:1 V OR STEEPER.
PHASE 2
STAGE 1
1. FIELD MARK THE LIMITS OF DISTURBANCE FOR PHASE 2, RETAINERS, AND EXISTING UTILITY LINE PROXIMITY PRIOR TO EARTH DISTURBANCE.
2. REMOVE AND REPLACE THE TEMPORARY EROSION CONTROL MEASURES FROM PHASE 1, INCLUDING THE CONSTRUCTION ENTRANCES, AS NECESSARY FOR PHASE 2 CONSTRUCTION.
3. INITIAL PROTECTIVE CONSTRUCTION FENCE AT LOCATIONS INDICATED OR WHERE NEEDED.
4. BEGIN SITE CLEARING FOR PHASE 2. PERMETER FILTER SOCK MUST BE IN PLACE PRIOR TO PULLING STAMPS.
5. INSTALL ADDITIONAL PERMETER FILTER SOCK AT LOCATIONS INDICATED.
STAGE 2
1. DETAILER AND REMOVE ACCUMULATED SEDIMENT FROM THE SEDIMENT BARRIERS/STRAPS AS REQUIRED.
2. STOP AND STOOPPLE REMAINING TOSPOL FROM AREAS OF CONSTRUCTION. TOSPOL STOOPPLE SLOPES MUST BE 2:1 H OR FLATTER. PLACE FILTER SOCK AT THE BASE OF THE STOOPPLE AS SHOWN ON PLAN TO PREVENT WASHOUT.
3. COMMENCE WITH BULK EARTH MOVING OPERATIONS FOR PHASE 2. REFER TO THE GEOTECHNICAL REPORT PREPARED BY RETIEW ASSOCIATES FOR CONSTRUCTION REQUIREMENTS.
4. CONSTRUCT THE PAD AND ASSOCIATED CHANNELS. CONSTRUCT THE FILL SLOPES IN REGULAR VERTICAL SECTIONS, SLOPE TO DRAIN BACK TOWARD THE "LET DOWN" CHANNELS. INSTALL CHANNEL LINING AS THE FILL SLOPE IS CONSTRUCTED. CONSTRUCT THE PAD BERM AS SHOWN TO DIVERT RUNOFF FROM THE PAD TO THE "LET DOWN" CHANNELS.
5. OPENED LOCUS IN AREAS WHERE SUBGRADE ELEVATIONS HAVE BEEN ACHIEVED. SEED AND MULCH ALL AREAS WHICH ARE AT FINAL GRADE. INSTALL EROSION CONTROL BLANKETS ON ALL SLOPES 3:1 V OR STEEPER.
STAGE 3
1. UNTIL SUCH TIME AS THE SITE IS PERMANENTLY STABILIZED, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND MONITORED. MAINTENANCE SHALL INCLUDE REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH RAIN EVENT AND ON A WEEKLY BASIS. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM 70% PERSONAL VEGETATIVE COVER OR THEIR PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCEPTED FLOOD SURFACE DRAINAGE AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING OR OTHER MOVEMENTS.
2. IMMEDIATELY REPAIR AND STABILIZE ANY AREAS DISTURBED DURING REMOVAL OF THE TEMPORARY ERPS.



ANTERO RESOURCES STANDARD RIBBON COLOR SCHEME table listing various ribbon colors and their corresponding uses for site identification.

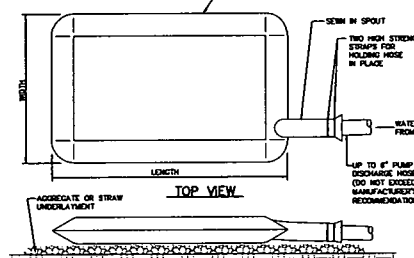


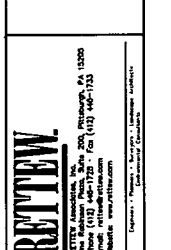
Table with 3 columns: TEST METHOD, DENSITY, and UNIT. Lists various soil tests and their corresponding density values.

DEWATERING BAG NOT TO SCALE

Table with columns for revision dates and descriptions, including fields for DATE, REVISION, and DESCRIPTION.



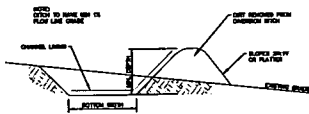
FOR REVIEW ASSOCIATES BY: RETIEW ASSOCIATES, INC. 1015 WINDING STREET, DENVER, COLORADO 80202



NOTES AND DETAILS EROSION AND SEDIMENT CONTROL DRAWINGS SANDSTROM FACILITY CENTRAL TAX DISTRICT

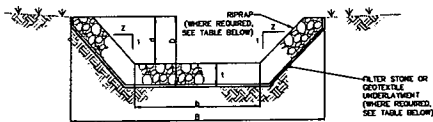
DATE: JUNE 3, 2013 SHEET NO. 8 OF 10 DWG. NO. 095452132

NOT FOR CONSTRUCTION/NOT FOR BIDDING



CHANNEL NO.	BOTTOM WIDTH (FT)	TOP WIDTH (FT)	DEPTH (FT)	LINING
1	15	25	2	ASHTO #1
2	15	25	2	ASHTO #1

DIVERSION DITCH DETAIL
NOT TO SCALE

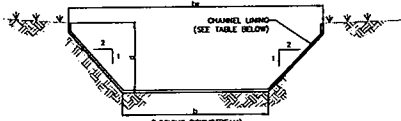


CHANNEL CROSS-SECTION
(LOOKING DOWNSTREAM)

NOTES:
FILTER STONE UNDERLAYMENT FOR 80% SLOPES & 0.10 F/FT (10:1) SHALL BE USED.
CHANNEL DIMENSIONS ARE FOR THE COMPLETED CHANNEL. AFTER ROCK PLACEMENT, CHANNEL MUST BE OVER-EXCAVATED A SUFFICIENT AMOUNT TO ALLOW FOR THE VOLUME OF ROCK PLACED WITHIN THE CHANNEL WHILE PROVIDING THE SPECIFIED FINISHED DIMENSIONS.
CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE.
DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.
THE MINIMUM ROCK THICKNESS (U) SHALL BE 1.5 TIMES THE MAX. ROCK SIZE.

CHANNEL NO.	SLOPE (H:V)	OVERALL BOTTOM WIDTH (FT)	OVERALL TOP WIDTH (FT)	DEPTH (FT)	Z1 (FT)	Z2 (FT)	LINING TYPE	RIPRAP SIZE (EQ)	RIPRAP DEPTH (IN)	UNDERLAYMENT (IN)	UNDERLAYMENT THICKNESS (IN)
1	1:1.5	15	25	2	2	2	RIPRAP	18	18	ASHTO #1	6
2	1:1.5	15	25	2	2	2	RIPRAP	18	18	ASHTO #1	6
3	18:3	14.5	2	2.25	2	2	RIPRAP	18	37	ASHTO #1	6
4	18:3	14.5	2	2.25	2	2	RIPRAP	18	37	ASHTO #1	6
5	18:3	14.5	2	2.25	2	2	RIPRAP	18	37	ASHTO #1	6
6	18:3	14.5	2	2.25	2	2	RIPRAP	18	37	ASHTO #1	6
7	18:3	14.5	2	2.25	2	2	RIPRAP	18	37	ASHTO #1	6
8	18:3	14.5	2	2.25	2	2	RIPRAP	18	37	ASHTO #1	6
9	18:3	14.5	2	2.25	2	2	RIPRAP	18	37	ASHTO #1	6
10	18:3	14.5	2	2.25	2	2	RIPRAP	18	37	ASHTO #1	6

RIPRAP CHANNEL
NOT TO SCALE

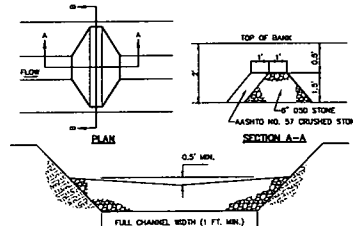


CHANNEL CROSS-SECTION
(LOOKING DOWNSTREAM)

NOTES:
CHANNEL DIMENSIONS SHALL BE CONSTANTLY MAINTAINED. CHANNEL SHALL BE CLEANED WHENEVER TOTAL CHANNEL DEPTH IS REDUCED BY 25% AT ANY LOCATION. SEDIMENT DEPOSITS SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY OR AS SOON AS SOIL CONDITIONS PERMIT ACCESS TO CHANNEL WITHOUT FURTHER DAMAGE.
DAMAGED LINING SHALL BE REPAIRED OR REPLACED WITHIN 48 HOURS OF DISCOVERY.

CHANNEL NO.	STATIONS	SLOPE (H:V)	BOTTOM WIDTH (FT)	TOP WIDTH (FT)	DEPTH (FT)	Z1 (FT)	Z2 (FT)	LINING TYPE
3A	Entire Length	1:2	2	10	2	2	2	275
4	Entire Length	1:2	2	10	2	2	2	275

VEGETATED CHANNEL
NOT TO SCALE

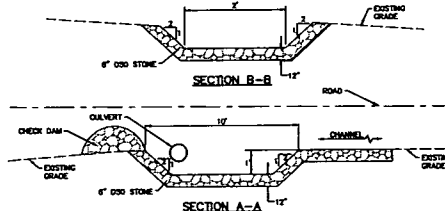


SECTION B-B

NOTES:
THE TOP OF THE CHECK DAM SHALL BE CONSTRUCTED SO THAT THE CENTER IS APPROXIMATELY 6 IN. LOWER THAN THE OUTER EDGES, SO WATER WILL FLOW ACROSS THE CENTER AND NOT AROUND THE EDGES.
THE MAXIMUM HEIGHT OF THE CHECK DAM AT THE CENTER OF THE WEIR SHALL NOT EXCEED 3 FT.
A MATTE MAY BE SUBSTITUTED FOR THE ROCK FILTER.
SPACING BETWEEN DAMS SHALL BE AS SHOWN IN THE PLANS OR BY THE FOLLOWING TABLE:

DAM HEIGHT (FT)	CHANNEL SLOPE
<3X	5-10X
3-10	10-15X
10-15	15-20X
15-20	20-30X
20-30	30-40X

CHECK DAM
NOT TO SCALE

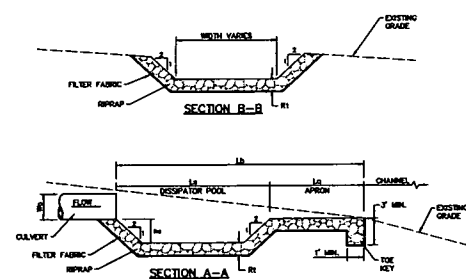


SECTION A-A

SECTION B-B

PLAN VIEW

CULVERT PIPE INLET PROTECTION
NOT TO SCALE



SECTION B-B

SECTION A-A

PLAN VIEW

OUTLET NO.	PIPE DIA (IN)	RIPRAP SIZE (EQ)	POOL DEPTH (FT)	POOL LENGTH (FT)	APRON LENGTH (FT)	OVERALL LENGTH (FT)	BASH WIDTH (FT)
CULVERT 1	2.0	0	18	2.25	22	12	28
CULVERT 2	2.5	0	18	1.00	10	5	11.50

- NOTES:**
- THE SUBGRADE FOR THE FILTER, RIPRAP, OR GRASS SHALL BE PREPARED TO THE REQUIRED LAYS AND GRADES. ALL FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY OF APPROXIMATELY 90% OF THE SURROUNDING UNDISTURBED MATERIAL.
 - THE SLOPE OF SUBGRADE SHALL CONFORM TO THE SPECIFIED CHANNEL LIMITS WHEN INSTALLED RESPECTIVELY IN THE SLOPE OR LEVEL.
 - FILTER CLOTH SHALL BE PROTECTED FROM PUNCTURE, CUTTING, OR TEARING. ANY DAMAGE OTHER THAN IN OCCASIONAL SMALL HOLES SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF CLOTH OVER THE DAMAGED PATCH OR BY COMPLETELY REPLACING THE CLOTH. ALL OVERLAPS, WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF CLOTH SHALL BE A MINIMUM OF 6".
 - STONE FOR THE RIPRAP OR GRASS OUTLETS MAY BE PLACED BY COMPACTED, BOTH SHALL BE CONSTRUCTED TO THE FULL CLOSURE OF THE OPERATOR AND BY SUCH A MANNER AS TO VOID DISPLACEMENT OF LINING AND MATERIALS. THE STONE FOR RIPRAP OR GRASS OUTLETS SHALL BE DELIVERED AND PLACED IN A MANNER THAT WILL OBTAIN THAT IT IS RELIABLY INTERLOCKED WITH THE REMAINING STONES AND SHALL BE PLACED UNDER THE FILTER CLOTH. RIPRAP SHALL BE PLACED IN A MANNER TO PREVENT DAMAGE TO THE PERMANENT WORKS.
 - THE RIPRAP OUTLET SHOULD BE INSPECTED AFTER HIGH FLOODS FOR EVIDENCE OF SCOUR BEHIND THE RIPRAP OR FOR COLLAPSED STONES. IF A SUFFICIENT NUMBER OF STONES HAVE BEEN COLLAPSED IT WILL BE NECESSARY TO RECALCULATE STONE SIZE AND REPLACE THE EXISTING STONE WITH PROPERLY SIZED STONE. ANY REPAIRS MUST BE MADE IMMEDIATELY.

RIPRAP BASIN OUTLET PROTECTION
NOT TO SCALE

FOR REVIEW ASSOCIATED BY: [Stamp]

DATE: JUNE 3, 2015
SHEET NO. 10 OF 10
DWG. NO. 095452132

ANTERO RESOURCES CORPORATION
1475 WINDYBROOK STREET
DENVER, COLORADO 80202

Antero Resources

RETIEN
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Phone: (303) 751-1100
Fax: (303) 751-1101
Website: www.retienv.com

DETAILS
EROSION AND SEDIMENT CONTROL DRAWINGS
FOR
SANDSTROM FACILITY
CENTRAL TAX DISTRICT
DOORIDGE COUNTY, WY

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:

Floodplain Permit Application # 15-376

Please take notice that on the 17th day of August, 2015

Antero Resources Corporation

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

15-376 - Antero Resources Corp. / Sandstrom Water Treatment Facility Location: Off County Rt. 50/30

Coordinates: Begin Access at: 80.890139W - 39.269600N

And to Center of Facility at: 80.893617W - 39.269215N

was published in The Doddridge Independent 2 times commencing on Friday, August 28, 2015 and Ending on Friday, September 4, 2015 at the request of:

George Eidel, Doddridge County Floodplain Manager & Doddridge County Commission

Given under my hand this Tuesday, September 8, 2015

The publisher's fee for said publication is:

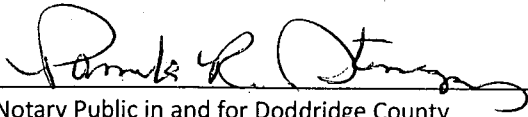
\$ 25.27 1st Run/\$ 18.95 Subsequent Runs

This Legal Ad Total: \$ 44.22


Michael D. Zorn
Publisher of The Doddridge Independent

Subscribed to and sworn to before me on

this date: 9/8/15


Notary Public in and for Doddridge County

My Commission expires on

The 17th day of May 2019

Doddridge County
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Received: 08/25/2015
To Be Announced: 09/01/2015
Publication Date: Week of 09/24/2015
**20-Day Comment Period Window (from Commission Meeting)
09/20/2015 - NOT IN 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 August 28, 2015, delivered to
Clerk of the County Court
118 E. Court Street, West Union, WV 26456
Beth A. Rogers, Doddridge County Clerk
George Eidel, Doddridge County Floodplain Manager.
8/28-9/02

