

# Commercial/Industrial Floodplain Development Permit

Doddridge County, WV Floodplain Management

This permit has been issued to EQT PRODUCTION CO , 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: #14-210

Date Approved:05/22/2014 Expires:05/22/2015

Issued to: EQT PRODUCTION COMPANY POC: MEGAN LANDFRIED 304-848-0061

304-848-0061 Company Address: 115 PROFESSIONAL PLACE

**BRIDGEPORT, WV 26330** 

**Project Address: BIG FLINT RD** 

Firm: 54017C0130C Lat/Long: 80.701694W/39.374099N

Purpose of development: WATER LINE

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

Date: 05/23/2014



7012 MacCorkle Avenue, SE, Charleston, WV 25304 • (304)342-1400 • FAX (304)343-9031; www.potesta.com

April 22, 2014

Doddridge County Floodplain Coordinator **Doddridge County Commission** 118 East Court Street West Union, West Virginia 26456

RE:

Floodplain Permit Application **EQT Production Company** 

EQT SMI-27 Water Line Doddridge County, West Virginia

POTESTA Project No. 0101-11-0147-2703



Potesta & Associates, Inc. (POTESTA) is pleased to submit this cover letter with the associated Floodplain Development Permit Application for the proposed SMI-27 Water Line Project. The proposed project will consist of installing approximately 6,308 linear feet of temporary aboveground water line. Based on information presented on the site FIRM, the project is located outside the FEMA Flood Zone A as shown on the attached Drawing Nos. 3 and 4. A 20-foot right-of-way for this project will be used to layout and assemble the water line fixture and are associated with minimal disturbance. No work will be performed outside the right-of-way. Flood Zone A is the regulatory floodplain associated with the Base Flood (1 percent annual chance flood event), commonly referred to as the 100-year floodplain and indicates that the limits of the floodplain are approximate; as such, Base Flood Elevations (BFEs) have not been previously established by FEMA. No work associated with the installation of a temporary aboveground water line will be inside the 100-year floodplain. No permanent aboveground structures are to be constructed within the floodplain. There will be no excess or fill material associated with this project because there will be no excavation proposed for the project.

Included with this permit application are floodplain map, site plan sheets, and miscellaneous detail sheets for this project.



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

Sincerely,

POTESTA & ASSOCIATES, INC.

Sarrett M. Smith, P.E. Senior Engineer

JMS:JWS/clr

**Enclosures** 

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



#14-210 EQT Production Co

# 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_	Megan & Janah	
DATE	9/1/14	

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:	EQT Production Company, c/o Megan Landfried
ADDRESS: 115 Profess	ional Place, Bridgeport, WV 26330
TELEPHONE NUMBER:	(304) 848-0061

BUILDER'S NAME:
ADDRESS:
TELEPHONE NUMBER:
ENGINEER'S NAME: <u>Jarrett M. Smith, PE / Potesta &amp; Associates, Inc.</u>
ADDRESS: 7012 MacCorkle Avenue, SE, Charleston, WV 25304
TELEPHONE NUMBER: (304) 342-1400
PROJECT LOCATION:
NAME OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT) See attached for project
locations and adjacent land owners.
ADDRESS OF SURFACE OWNER/OWNERS (IF NOT THE APPLICANT)
DISTRICT:
DATE/FROM WHOM PROPERTY
PURCHASED:
LAND BOOK DESCRIPTION:
DEED BOOK REFERENCE:
TAX MAP REFERENCE:
EXISTING BUILDINGS/USES OF PROPERTY:
NAME OF AT LEAST ONE ADULT RESIDING IN EACH RESIDENCE LOCATED UPON THE SUBJECT
PROPERTY
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

	AL	IIVIIY				SIRUCIUI	KAL TYPE	
0 0 0 0 0	New Struct Addition Alteration Relocation Demolition Manufact	1	oil Home		0 0 0 0	Residential Non-reside	(1 – 4 Family) (more than 4 Fa ntial (floodproof Jse (res. & com. nt	fing)
B.	OTHER DE	VEOPL	MENT ACTIV	/ITIES:				
[] [] [X] [] [] [] [] []	Watercour Drainage Io Road, Stre Subdivision	rse Alterc mprovem et, or Brid n (includi Water or	Mining for STRUCTUR ation (includin dents (includir dge Construct ng new expan Sewer Systen fy)	ng dredgiong culvert icion ision)	ng and c	T checked at	•	
C.	STANDA	RD SITE	PLAN OR SI	KETCH				
2	SKETCH OF THE LOT. S INDICATIN	ARD SITE N A SEPAI SHOW TH G BUILDI RES OR LA	IE LOCATION NG SETBACKS ND USES ON	NOT BEEN INCH SHI OF THE IN 5, SIZE & H	N PREPA EET OF P ITENDED IEIGHT.	RED: PAPER THE SHOOL CONSTRUCT	ARED. HAPE AND LOCATION OR LAND LISTING BUILDING	JSE
IRRE	SPECTIVE (	OF WHE		R ANY F	PART O	F THE SUBJ	DEVELOPMEN ECT PROPOSE	. •

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:

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

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:

NAME:

ADDRESS:	ADDRESS:
NAME:	NAME:
ADDRESS:	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.

NAN	VIE (PRINT): <u>IVIEGAN LANGTRIEG</u>		
SIGI	NATURE: Meja & Joseph	DATE:	5/1/14
	i g J		
Afte	er completing SECTION 2, APPLICANT should submit form to	Floodplain	
Adn	ninistrator/Manager or his/her representative for review.		
SEC	CTION 3: FLOODPLAIN DETERMINATION (to be con	npleted by I	Floodplain
<u>Adr</u>	ministrator/Manager or his/her representative)		
THE	E PROPOSED DEVELOPMENT:		
THE	PROPOSED DEVELOPMENT IS LOCATED ON:		
FIRN	M Panel:		
Date	ed:		
[]	Is <u>NOT</u> located in a Specific Flood Hazard Area (Notify a	pplicant that	the application
revi	iew is complete and NO FLOOPLAIN DEVELOPMENT PERMI	T IS REQUIRE	D).
[]	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
<u>SECT</u>	ION 4: ADDITIONAL INFORMATION REQUIRED (To be completed by
Floor	dplain Administrator/Manager or his/her representative)
The a <sub>l</sub> proce	pplicant must submit the documents checked below before the application can be essed.
[]	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 elevationFt. 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

Contractor's License and a Manufactured Home Installation License as required by the

Manufactured homes located in a floodplain area must have a West Virginia

Federal Emergency Management Agency (FEMA).

[]

ONIS: DERM		
	AIT DETERMINIATION	(To be completed by Floodplain
	tor/Manager or his/	
provisions of	the Floodplain Ordinand lay 21, 2013. The permit	activity (type is or is not) in conformance with adopted by the County Commission of Dod is is issued subject to the conditions attached the subject to the conditions attached the conditions attache
SIGNED		DATE
with the pro	visions of the Doddridge	ager found that the above was not in conform County Floodplain Ordinance and/or denied ete an appealing process below.
		ty Commission of Doddridge County? [] Yes {
APPEALS:		y commission of boddings county: () res

## 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:**

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

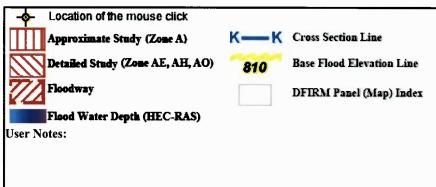
# CERTIFICATE OF COMPLIANCE FOR DEVELOPMENT IN SPECIAL FLOOD HAZARD AREA (OWNER MUST RETAIN)

PERMIT NUMBER: PERMIT DATE:	
PURPOSE —	
ONSTRUCTION LOCATION:	
WNER'S ADDRESS:	
HE FOLLOWING MUST BE COMPLETED BY THE FLOODPLAIN DMINISTRATOR/MANAGER OR HIS/HER AGENT.	
COMPLIANCE IS HEREBY CERTIFIED WITH THE REQUIREMENT OF THE LOODPLAIN ORDINANCE ADOPTED BY THE COUNTY COMMISSION OF CODDRIDGE COUNTY ON MAY 21, 2013.	
IGNED DATE	

## **EQT SMI-27**



Map Created on 3/11/2014



### 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: Selected site is NOT WITHIN any identified flood hazard area. Unmapped flood

### hazard areas may be present,

Advisory Flood Height: N/A

Water Depth: N/A

Elevation: About 1313 feet

Location (long, lat): 80.701694 W, 39.374099 N

**Location (UTM 17N):** (525694, 4358335) **FEMA Issued Flood Map:** 54017C0130C

Contacts: Doddridge County

CRS Information: No CRS information available

Flood Profile: No Profile
HEC-RAS Model: No Model

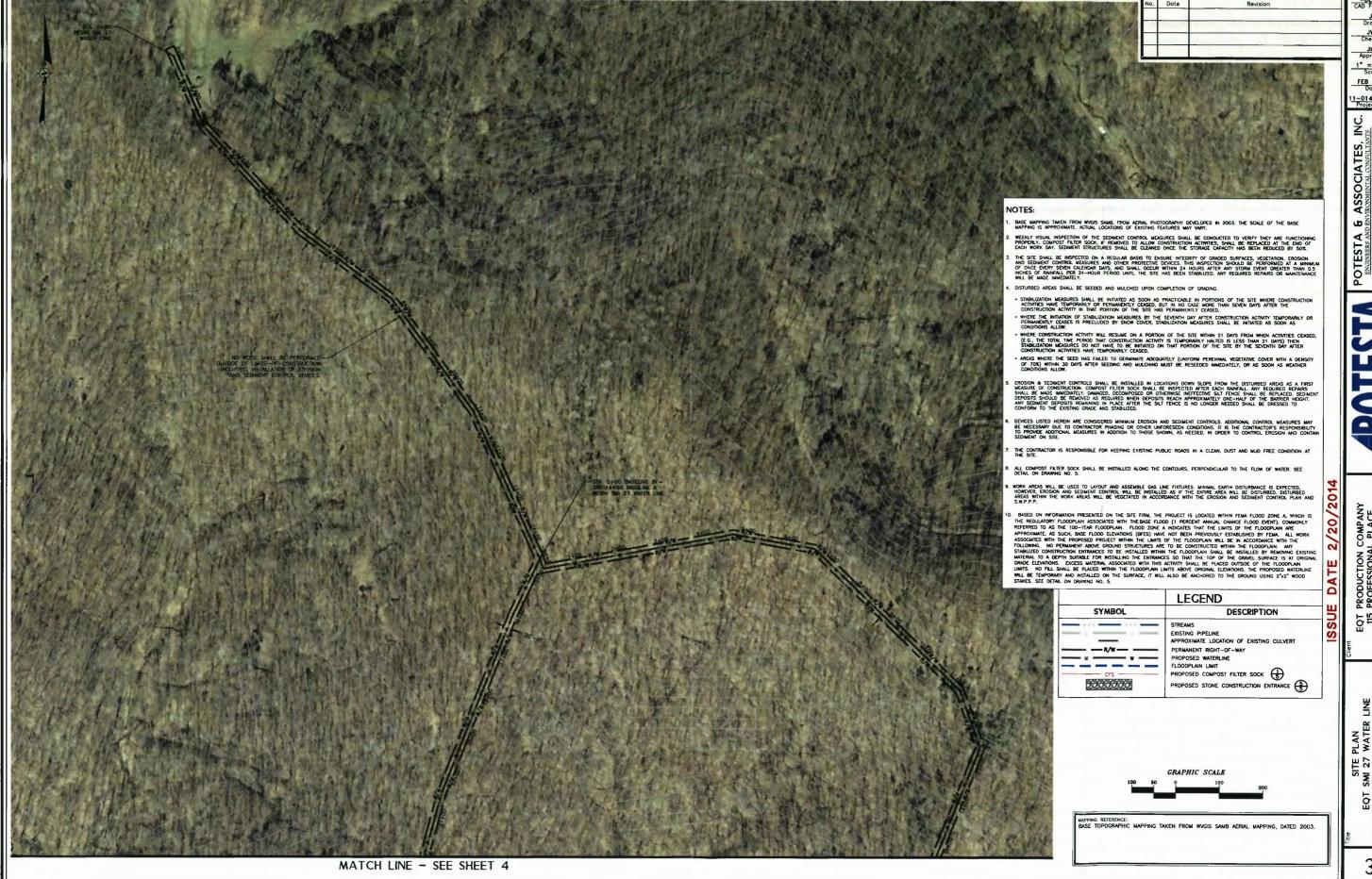
Parcel Number:

2

**P**OTESTA

POTESTA & ASSOCIATES, INC.
ENGINEERS AND ENVIRONMENTAL CONSULTANTS
7012 Medicinta Am. St. Charleton IV 25304
7812 (304) 342-1400 PAR. (304) 543-9031

—DESIGN
CAD File No.
JM
Drawn
JWS
Checked
JMS
Approved
1° = 200'
Scole:
FEB 2014
Dots:
11-0147-2703
Project No.



-DESIGN CAD File No. JWS Checked JMS Approved

1" = 100' Scole:

FEB 2014 Date: 11-0147-2703 Project No.

6 ASSOCIATES, INC.
ENTRONMENTAL CONSULTANTS

1 Ave. St. Charteston, PV 25504

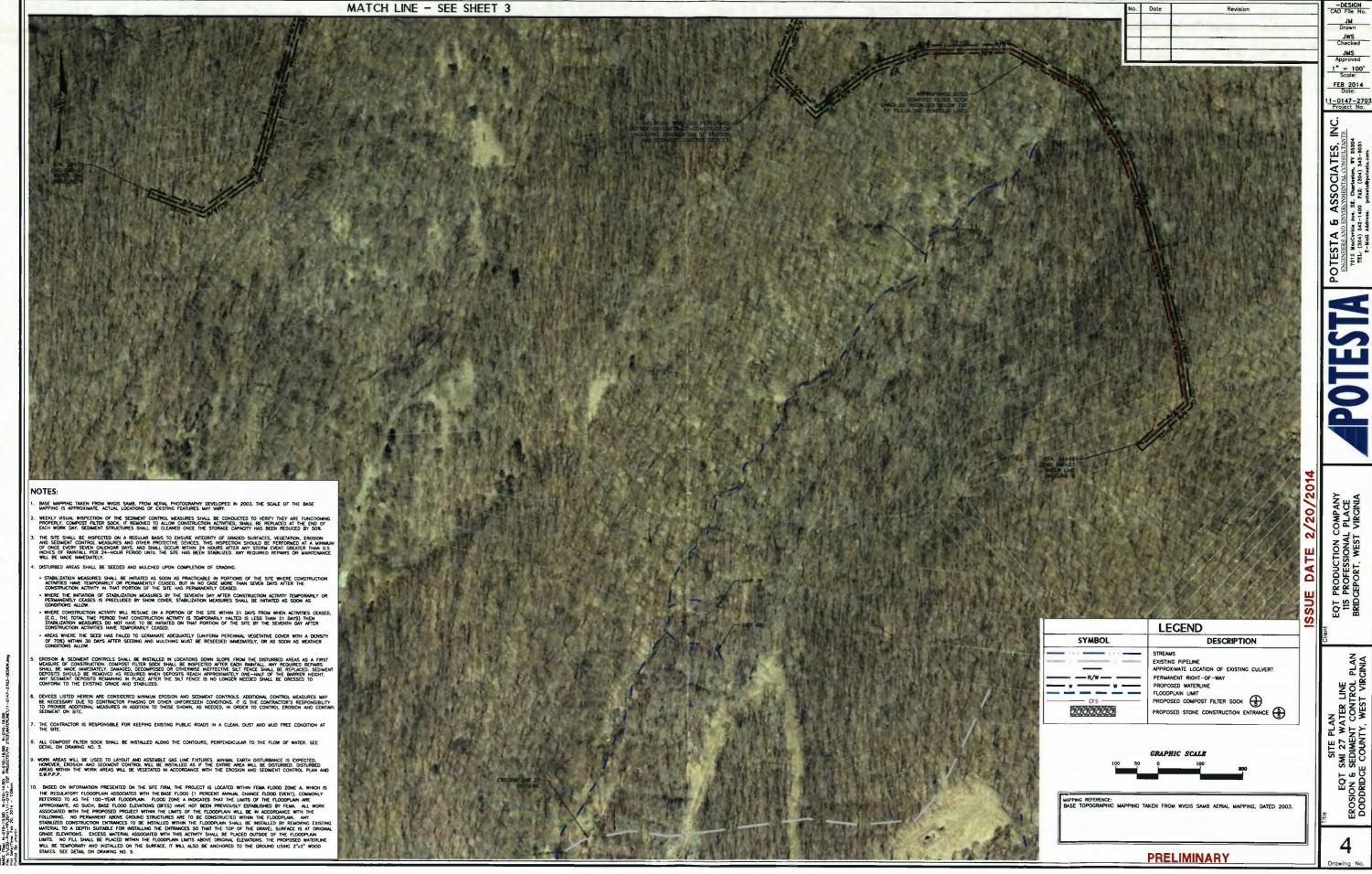
22-1400 PARE. (204) 342-3051

dress: potestad-potesta-com.

POTESTA |
ENGINEERS AND
TOTZ MESCONFILE
TEL: (304) 34:

PRODUCTION COMPANY S PROFESSIONAL PLACE DGEPORT, WEST VIRGINIA

EQT EROSION 6 DODDIPING



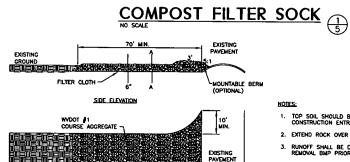
F. Flags:

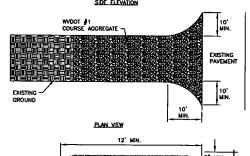
**PLAN VIEW** 

COMPOST SHALL MEET THE FOLLOWING STANDARDS 80% - 100% (DRY WEIGHT BASIS) FIBROUS AND ELONGATED 5.5 - 8.0 MOISTURE CONTENT 35% - 55% 98% PASS THROUGH 1" SCREEN

	MAXIMUM SLOPE LENGTH ABOVE SEDIMENT CONTROL IN FEET .							
	8 INCH ** SEDIMENT CONTROL	12 INCH ** SEDIMENT CONTROL	18 INCH ** SEDIMENT CONTROL	24 INCH ** SEDIMENT CONTROL	32 INCH ** SEDIMENT CONTROL			
SLOPE PERCENT	6.5 INCH	9.5 INCH	14.5 INCH	19 INCH	26 INCH			
2 OR LESS	600	750	1000	1300	1650			
5	400	500	550	650	750			
10	200	250	300	400	500			
15	140	170	200	325	450			
20	100	125	140	260	400			
25	80	100	110	200	275			
30	60	75	90	130	200			
35	60	75	80	115	150			
40	60	75	80	100	125			
45	40	50	60	80	100			
50	40	50	55	65	75			

\* BASED ON A FAILURE OF 36" SUPER SILT FENCE (WIRE REINFORCED AT 1000 FEET OF SLOPE, WATERSHED EQUIVALENT TO RECEIVING LENGTH OF SEDIMENT CONTROL DEVICE, 1 IN. / 24 KR RAIN EVENT)

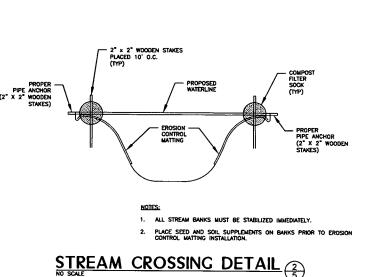




TOP SOIL SHOULD BE REMOVED PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE

- 2. EXTEND ROCK OVER FULL WIDTH OF ENTRANCE.
- RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
- 5. MAINTENANCE ROCK CONSTRUCTION ENTRANCE THICKNESS SMALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSION BY ADDING ROCK. A STOCKPILE SMALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAYED ROADWAYS SMALL BE REMOYED AND RETURNED TO THE CONSTRUCTION IMPEDIATELY IF EXCESSIVE MOUNT OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND THE LENGTH OF ROCK CONSTRUCTION BITRANCE BY SO FOOT INCREMENTS LIMIT. CONDITION IS ALLEWATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE OPENS INTO ROADWAY DITCHES, SEWER, CULVERTS, OR OTHER DRAINAGEWAYS IS NOT ACCEPTABLE.

STONE CONSTRUCTION ENTRANCE DETAIL 5
5



FILL SLOPE SECTION SLOPE LINING (WET SLOPE) SLOPE LINING (DRY SLOPE) 4 FEET OR TO NOTE: SEE 6 FOR ECTC SPECIFICATIONS.

**ROLLED EROSION** 

ROLLED EROSION CONTROL PRODUCTS

No. Date

Rate		Manimum	Specifications
(lb/1000 sq. ft.)	Seed Variety	% Parity	46 Total Germination
0.45	Red Fescue (Penniawn)	98	85
0,90	Kentucky Bhiegrass	85	75
0.70	Merion Bluegrass	90	75
0.20	Annual Ryegrass*	93	85

### General Mixture

Variety of Seed	Spring 3/15 – 5/31 lb/acre	Fall 8/15 - 10/15 8/acre
Orchardgrass (Dactylis Glometata)	15	15
Birdsfoot Trefoli <sup>(1)</sup> (Lotus Corniculatus)	15	15
Red Clover (Trifolium Pre:ense)	10	10
Amual Ryegrass (Lolium Muliflorum)	15	15
Bicolor Lespedeza	1	1
Foxtail Millet or	12	12
Hairy Vetch(2) (Vicia Villosa)	5	5
Winter Wheat	10	20

PERMANENET SEED MIXTURES (4) 5

-DETAILS
CAD File No.

JWS Checked

JMS Approved

NOTED Scale:

FEB 2014 Date: 11-0147-803 Project No.

ASSOCIATES, INC.
NVIRONMENTAL CONSULTANTS
NAVA. 28. Charleton. TO 28504
1400 PAX: (304) 383-8031

**w** 🗐

POTESTA (
ENGINEERS AND
7012 MODGOWID
TEL: (304) 343

FRODUCTION COMPANY PROFESSIONAL PLACE DGEPORT, WEST VIRGINIA

EROSION

DATE ISSUE

CONTROL MATTING (3) For use where natural vegetation alone will provide permanent erosion protection ULTRA SHORT-TERM - Typical 3 month functional longevity. Maximum Gradient C Factor2.5 Max. Shear Stress 1, 4, 6 A Mulch Coulted Nels A photodegradable synthetic mesh or woven biodegradable natural fiber netting 5:1 (H:V) ≤ 0.10 @ 5:1 0.25 lbs/ft (12 Pa) 5 lbs/ft (0.073 LN/ As Neiless Rolled Erusion Natural and/or polymer fibers mechanically interiorked ant/or chemically adhered bgether to form a RECP.

1. Single-set Erosion Control Blankets
Open Wesvo Textiles
Open Wesvo Textiles
Open Wesvo Textiles 4:1 (H:V) ≤ 0.10 @ 4:1 0.5 lbs/fl<sup>2</sup> (24 Pa) 5 lbs/ft (0.073 kN/s ≤ 0.15 @ 3:1 1.5 lbs/ft² (72 Pa) 50 lbs/ft (0.73 kN/ D Double-net Erosion Processed degradable natural and/or polymer fibers mechanically bound together 2:1 (H:V) ≤ 0.20 @ 2:1 1.75 lbs/ft2 (84 Pa) 75 lbs/ft (1.09 kN/s between two rapidly degrading, synthetic or natural fiber nettings. IORT-TERM - Typical 12 month functional longevity. Slope Applications Channel Applications Tensile Strength 5 lbs/ft (0.073 kN/n 5 lbs/ft (0.073 kN/n Maximum Gradient C Factor 5 Max. Shear Stress<sup>3.40</sup> 0.25 lbs/ft<sup>2</sup> (12 Pa) Mulch Control Nets A photodegradable synthetic mesh or woven biodegradable natural fiber netting A Muich Control Nets A photodegradable synthetic mesh or woven biodegradable natural fiber netting.

B Netless Rolled Broston
Control Blankets
Control Blankets
Control Blankets
Copen Weave Textiles
Open Weave Textiles
D D Dubble-net Erosion
Control Blankets
Control Blankets
Copen Weave Textiles
Copen W 5:1 (H:V) 4:1 (H:V) ≤ 0.10 @ 5:1 ≤ 0.10 @ 4:1 0.5 lbs/ft² (24 Pa) 3:1 (H:V) 1.5 lbs/ft² (72 Pa) 2:1 (H:V) ≤ 0.20 @ 2:1 1.75 lbs/ft² (84 Pa) 75 lbs/ft (1.09 kN/m Control Blankets between two degradable, synthetic or XTENDED-TERM - Typical 24 month functional longevity. between two degradable, synthetic or natural fiber nettings. Maximum Gradient C Factor<sup>3,5</sup> Max. Shear Stress3.4.6 A Mulch Control Note A slow degrading synthetic mesh or woven natural fiber netting. 0.25 lbs/ft² (12 Pa) 25 lbs/ft (0.36 kN/r ≤ 0.10 @ 5:1 An ensoin control blankel composed of processed allow degrading natural or polymer fibers mechanically bound together between two slow degrading synthetic or natural fiber nettings to form a continuous matrix or an open weave textile composed of the polymer of 1.5:1 (H:V) ≤ 0.25 @ 1.5:1 2.00 lbs/ft (96 Pa) 100 lbs/ft (1.45 kN/ ed slow degrading natural or polymer years or twines woven into a continuou NG-TERM - Typical 36 m Slope Applications\* An erosism control bianket composed of processed slow degrading natural or polymer fibers mechanically bound together between two slow degrading synthetic or natural fiber nettings to form a continuous matrix or an open weave textile composed of ≤ 0.25 @ 1:1 2.25 lbs/ft² (108 Pa) 125 lbs/ft (1.82 kN/ seed slow degrading natural or polymer years or twines woven into a con-

Mithium Average Rol Valvas, Machine direction subg ECTC Mod. ASTM D 5035.

"CF Factor factives are subgrade as ratio of all lists from RECP producted size (sucre of specified and specified and specified as a ratio of all lists from RECP producted size (sucre of specified and specified as a ratio of all lists from RECP producted size (sucre of specified and specified as a specified

ECTC STANDARD SPECIFICATION FOR TEMPORARY

ROLLED EROSION CONTROL PRODUCTS

SOME