

# ATLANTIC COAST PIPELINE PROJECT CONTRACTOR YARDS

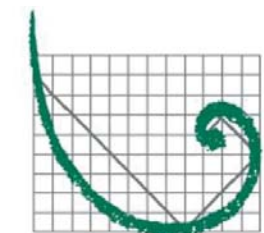
HIGHLAND, AUGUSTA, ROCKBRIDGE, BUCKINGHAM, AND BRUNSWICK COUNTIES, VIRGINIA

## EROSION & SEDIMENT CONTROL PLAN

### PROJECT CONTACTS



**OWNER/APPLICANT**  
DOMINION TRANSMISSION, INC.  
5000 DOMINION BOULEVARD  
GLEN ALLEN, VA 23060  
PHONE: 804-335-4923



**ERM**

**CONSULTANT**  
ENVIRONMENTAL RESOURCES MANAGEMENT  
1000 IDS CENTER  
80 SOUTH EIGHTH STREET  
MINNEAPOLIS, MN 55402  
WAYNE SICORA, PE, CPESC  
612-347-7128  
wayne.sicora@erm.com

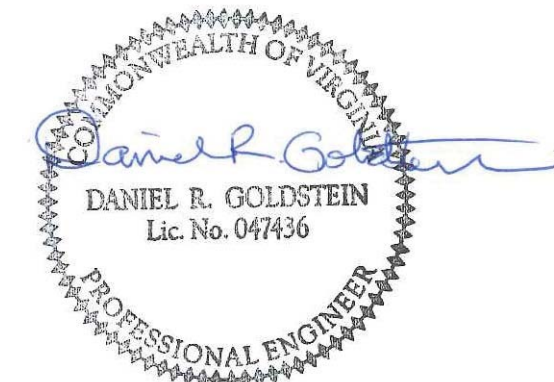
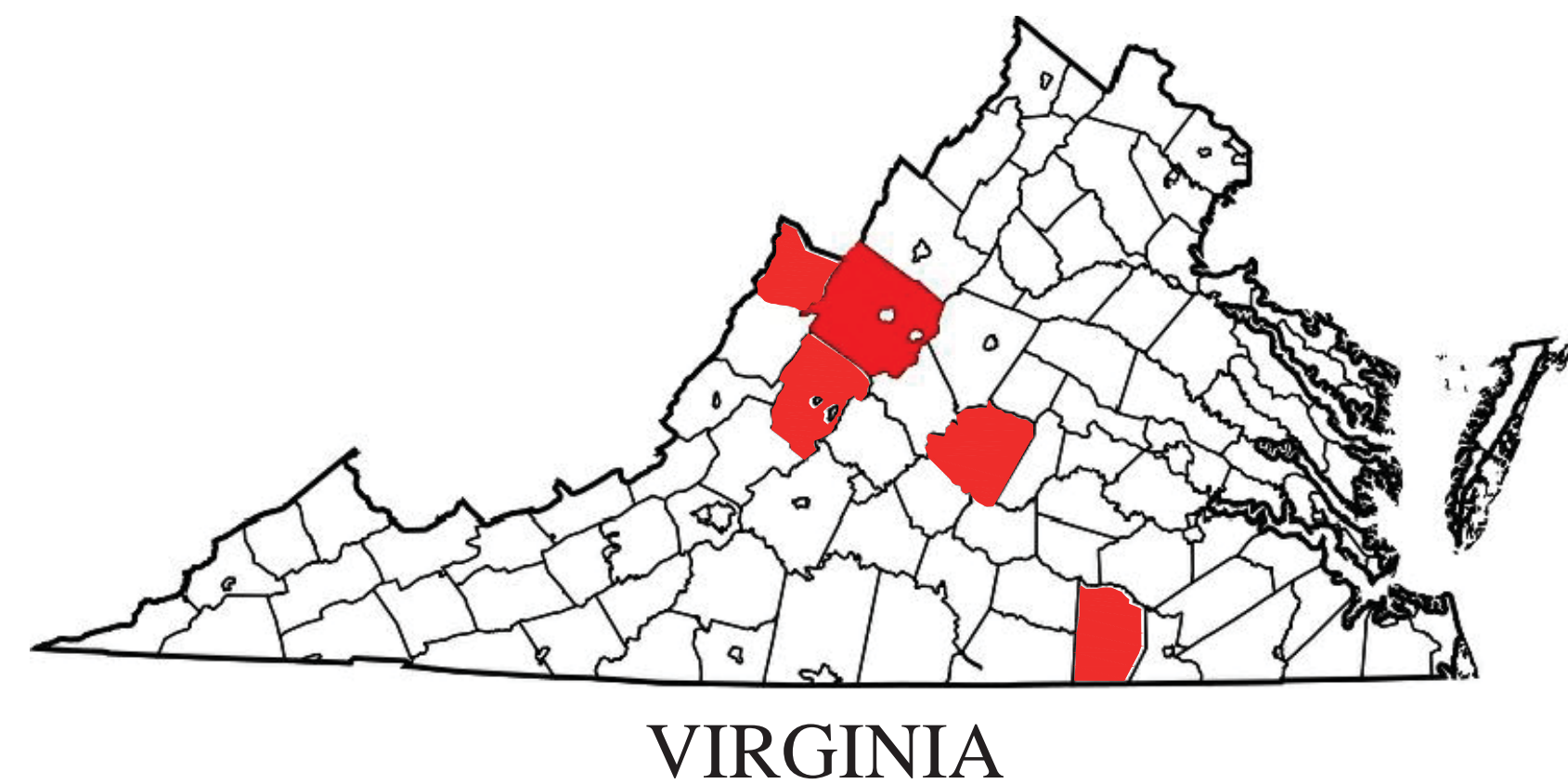
**EXISTING INFORMATION SOURCES**  
CONTOURS AND BASE MAP PROVIDED BY I3 CONSULTING, LLC WITH ADDITIONAL CONTOURS OBTAINED FROM THE USGS NATIONAL ELEVATION DATASET.

**PLAN REPRODUCTION WARNING**  
THE PLANS HAVE BEEN CREATED ON 24"X36" SHEETS FOR REDUCTIONS, REFER TO GRAPHIC SCALE.

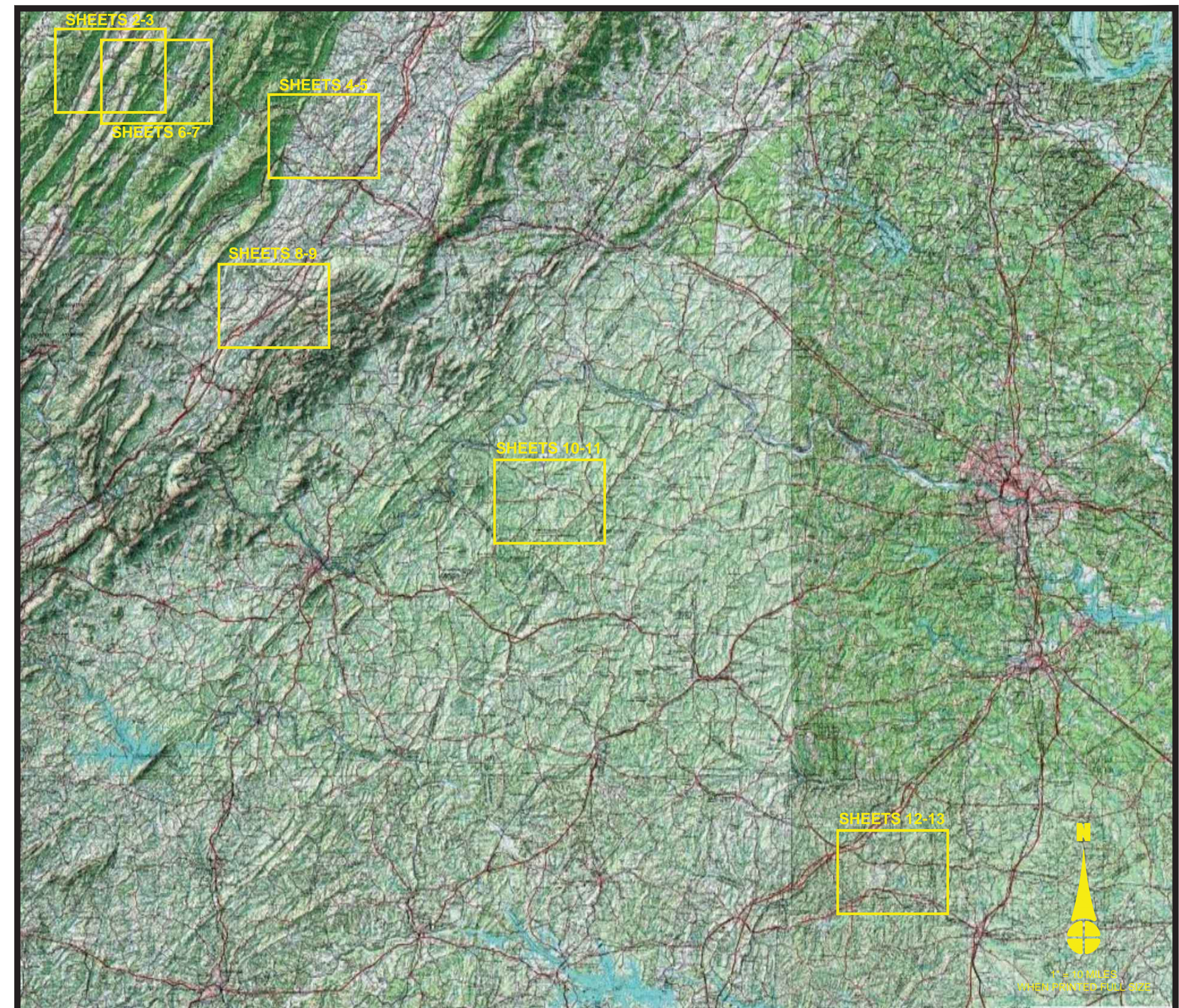
THE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING, AND SET OF THE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

\*\*\*WARNING\*\*\* INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

**GENERAL NOTE**  
ERM HAS DEPICTED EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) ON THESE PLAN SHEETS PREPARED BY OTHERS FOR USE BY CONTRACTOR TO CONTROL EROSION AND SEDIMENTATION DURING CONSTRUCTION OF THIS PROJECT. ERM IS RESPONSIBLE FOR THE NATURE AND LOCATION OF THE DEPICTED BMPs AS OF THE DATE SIGNED AND SEALED BASED ON THE SOURCE DATA PROVIDED. ERM RETAINS NO RESPONSIBILITY OR LIABILITY FOR INFORMATION DEVELOPED, PREPARED OR OTHERWISE PROVIDED BY OTHERS, OR FOR INACCURACIES OF SOURCE DATA PROVIDED BY OTHERS. ERM ASSUMES NO RESPONSIBILITY OR LIABILITY FOR DESIGNS OR WORK PRODUCTS OF ANY TYPE TO THE EXTENT THAT THEY ARE BASED UPON OR DERIVED FROM SUCH INCORRECT INFORMATION OR DATA.



### LOCATION MAP



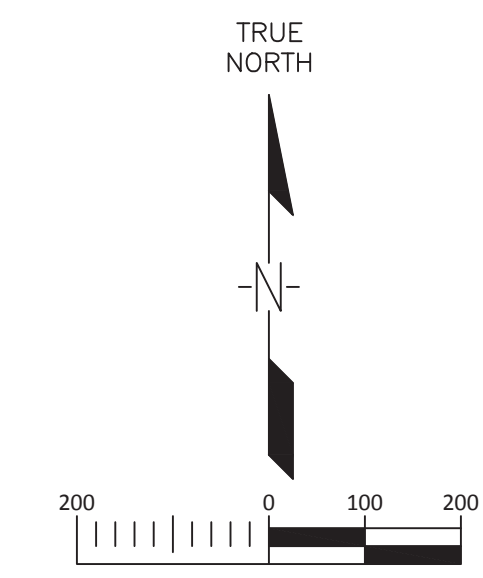
### SHEET INDEX

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●	06/19/2017	SHEET 3 - MONTEREY (CY SPR 03-A) ESCP
●	06/19/2017	SHEET 4 - DEERFIELD (SP4A_CY GWNF-6 SPR04-A) AERIAL OVERVIEW
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●	06/19/2017	SHEET 8 - STEELES TAVERN (SP5_CY SPR05-C) AERIAL OVERVIEW
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●	06/19/2017	SHEET 14 - ESCP NOTES
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### DRAWING INDEX LEGEND

●	FILLED CIRCLE INDICATES DRAWING INCLUDED WITHIN THIS ISSUE
○	MOST RECENT REVISION NUMBER
○	MOST RECENT ISSUE OR REVISION DATE
● - X/XX/201X	SHEET X - SHEET TITLE

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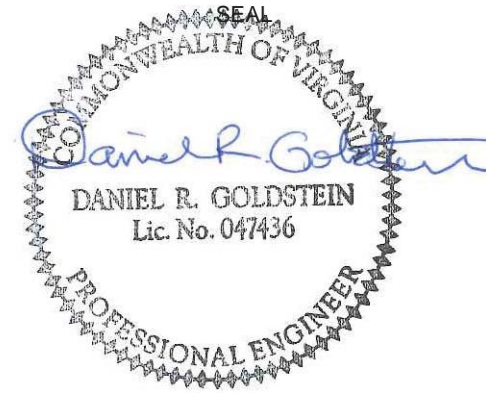
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**LEGEND**

	LIMITS OF CONSTRUCTION		WETLAND
	LIMITS OF DISTURBANCE		FLOW ARROW
	FENCE		
	UNDERGROUND UTILITY CONDUIT		
	DITCH		
	STREAM		
	CONTOUR		
	FLOOD PLAIN		
	GRAVEL AREA		
	FUEL TANK AREA (25' x 250')		
	TRAILER (24' x 60')		
	STORAGE UNITS		
	TOP SOIL SEGREGATION AREA		

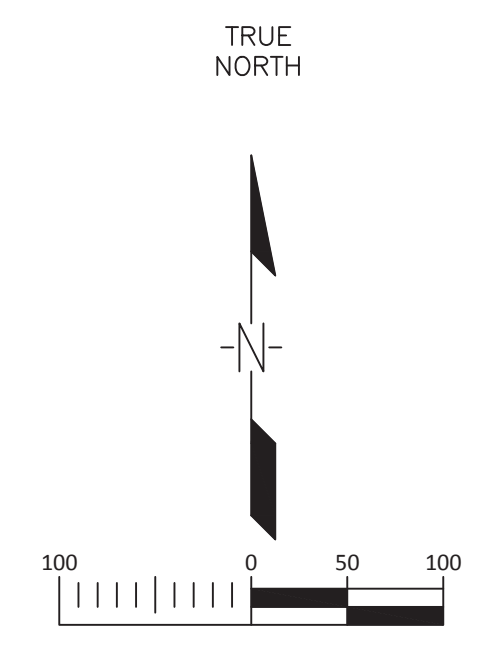
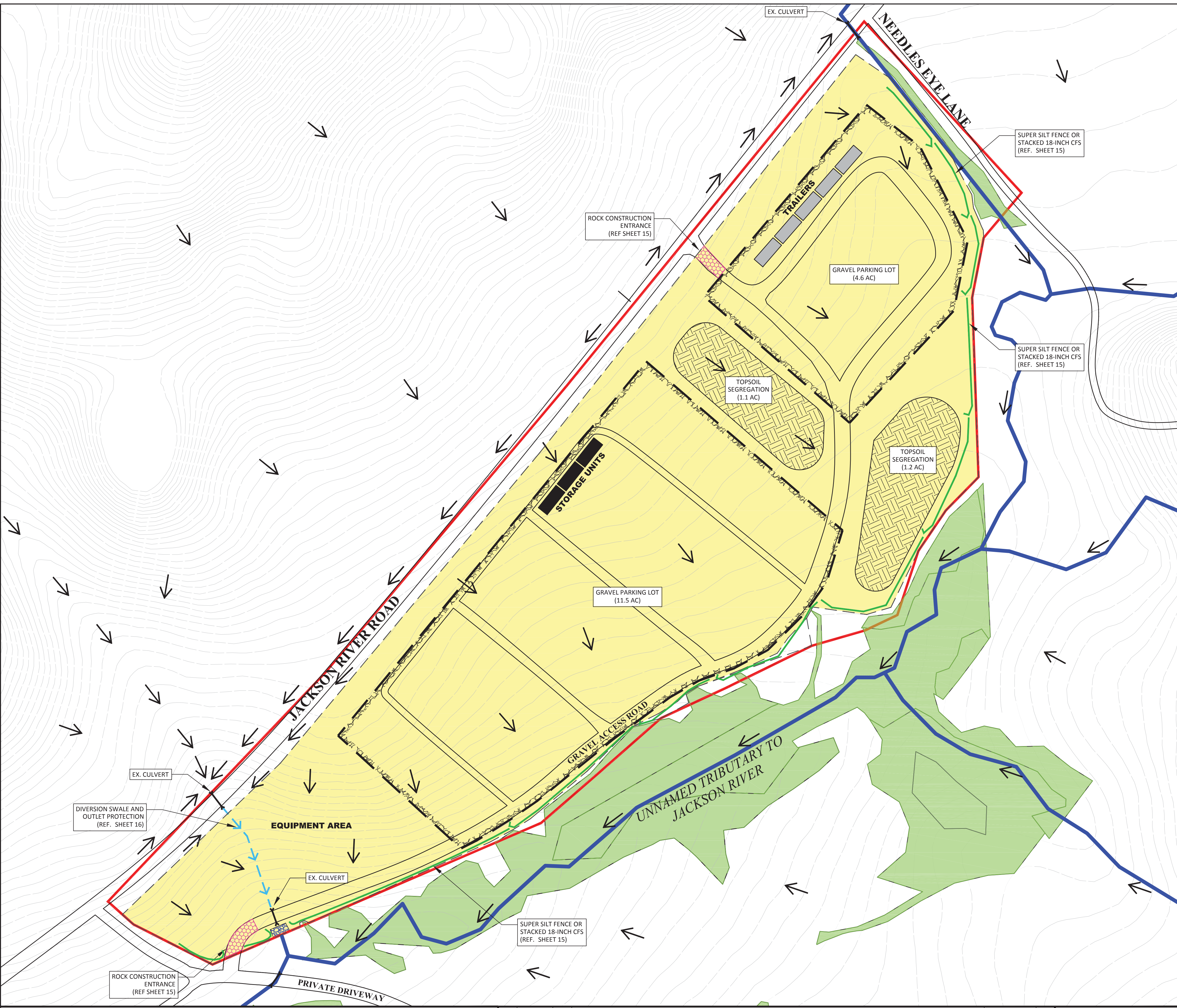
**GENERAL NOTES AND COMMENTS:**  
 1. CONTOURS AND BASE MAP PROVIDED BY I3 ENGINEERING AND CONSULTING, LLC WITH ADDITIONAL CONTOURS OBTAINED FROM THE USGS NATIONAL ELEVATION DATASET. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ITS ACCURACY.  
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 4. DOMINION RESERVES THE RIGHT TO USE EITHER, OR BOTH, 12" COMPOST FILTER SOCK OR STANDARD SILT FENCE, FOR ANY APPLICATION IN WHICH EITHER OF THESE TWO CONTROL MEASURES ARE SPECIFIED.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
△	06/08/17	WTS	ISSUED FOR REVIEW		



	<b>Environmental Resources Management</b>
DRAWN:	NJB 06/08/17
CHECKED:	WT 06/08/17
APP. FOR BID:	
APP. FOR CONST.:	
SCALE:	AS NOTED

<b>Atlantic Coast Pipeline, LLC</b>	
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000	
TITLE: <b>ATLANTIC COAST PIPELINE MONTEREY CONTRACTOR YARD AERIAL OVERVIEW</b>	
DISTRICT:	COUNTY: HIGHLAND STATE: VA GROUP: DWG. NO. REV.
DIR/FILE: ACP/Virginia	- 2 OF 17 0



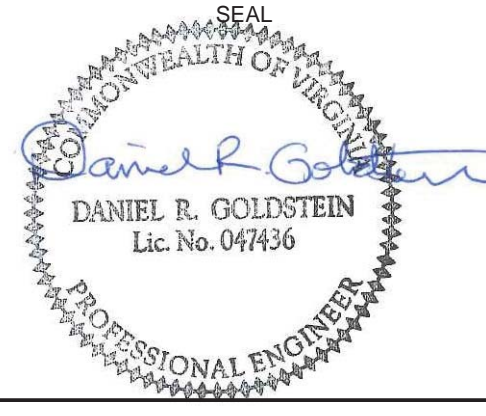
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**LEGEND**

	LIMITS OF CONSTRUCTION (31.9 ACRES)		FLOW ARROW
	LIMITS OF DISTURBANCE (28.2 ACRES)		ROCK CONSTRUCTION ENTRANCE (OR APPROVED ALT.)
	FENCE		OUTLET PROTECTION
	UNDERGROUND UTILITY CONDUIT		PROPOSED CULVERT
	DITCH		PROPOSED DIVERSION SWALE
	STREAM		WETLAND
	CONTOUR		
	FLOOD PLAIN		
	GRAVEL AREA		
	FUEL TANK AREA (25' x 250')		
	TRAILER (24' x 60')		
	STORAGE UNITS		
	TOP SOIL SEGREGATION AREA		
	PROPOSED COMPOST FILTER SOCK OR SILT FENCE		

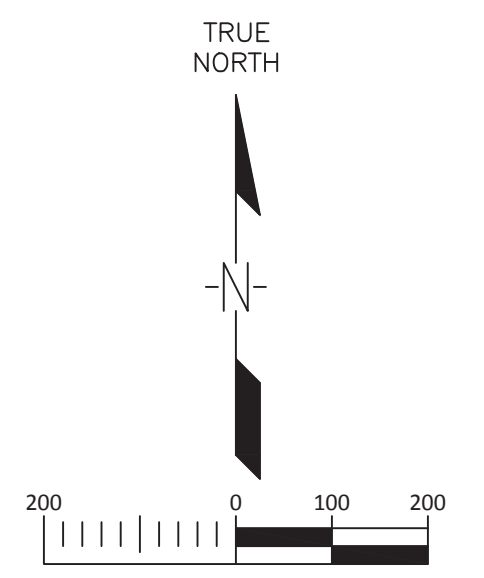
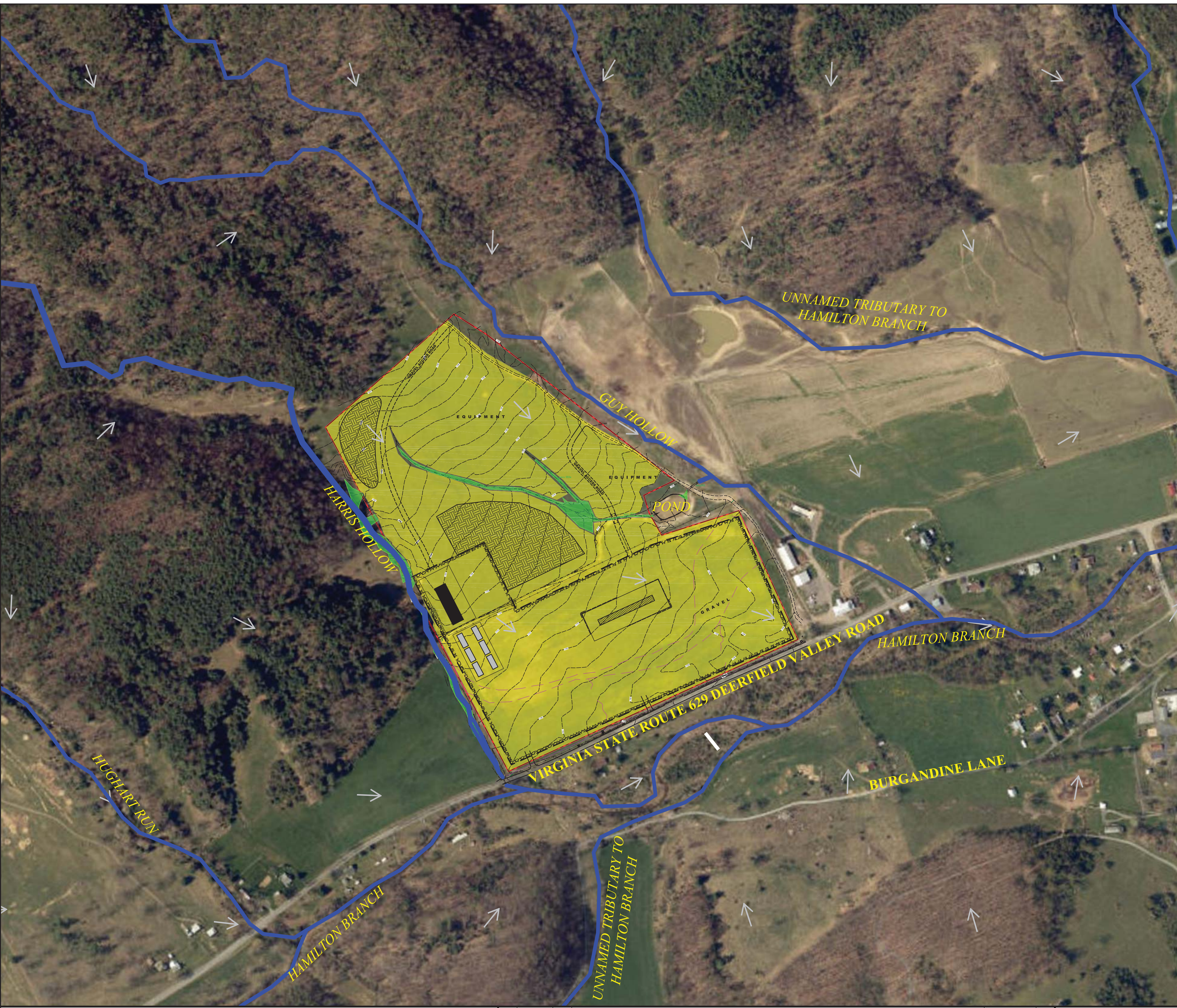
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	CHKD:	WT	06/08/17
	APP. FOR CONST.:		
	SCALE:	AS NOTED	

<b>Atlantic Coast Pipeline, LLC</b>			
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000			
TITLE: ATLANTIC COAST PIPELINE MONTEREY CONTRACTOR YARD ESCP			
DISTRICT:	COUNTY: HIGHLAND	STATE: VA	GROUP: -
DIR/FILE: ACP/Virginia	DWG. NO. 3 OF 17	REV. 0	



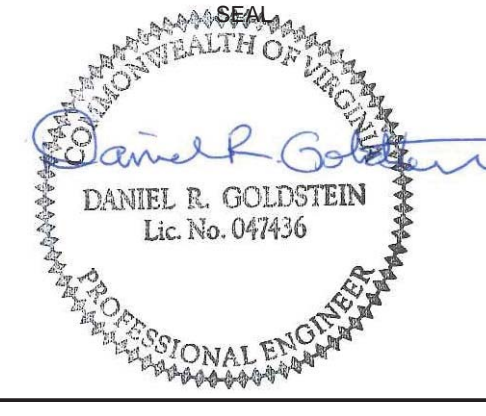
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**LEGEND**

- LIMITS OF CONSTRUCTION
- LIMITS OF DISTURBANCE
- FENCE
- UNDERGROUND UTILITY CONDUIT
- DITCH
- STREAM
- CONTOUR
- FLOOD PLAIN
- GRAVEL AREA
- FUEL TANK AREA (25' x 250')
- TRAILER (24' x 60')
- STORAGE UNITS
- TOP SOIL SEGREGATION AREA
- TBM TEMPORARY BENCH MARK
- CULVERT
- TELEPHONE BOX
- MAIL BOX
- WETLAND
- FLOW ARROW

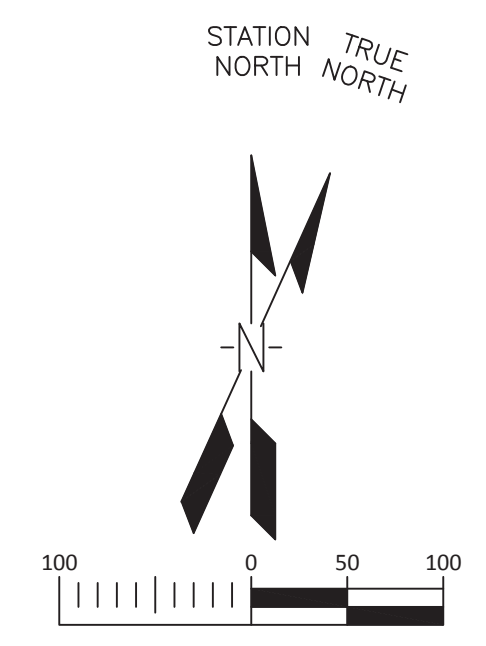
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<b>Atlantic Coast Pipeline, LLC</b>					
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000					
TITLE: ATLANTIC COAST PIPELINE DEERFIELD CONTRACTOR YARD AERIAL OVERVIEW					
DISTRICT:	COUNTY:	STATE:	GROUP:	DWG. NO.:	REV.:
-	AUGUSTA	VA	-	4 OF 17	0
DIR/FILE: ACP/Virginia					



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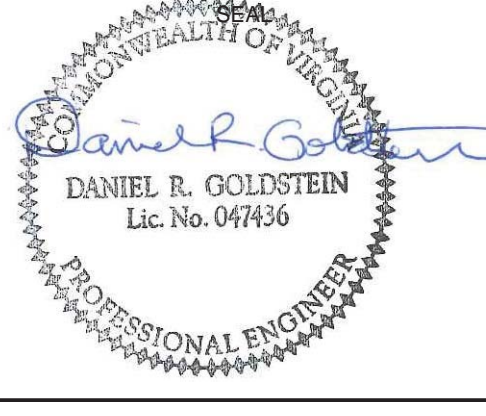
**LEGEND**

	LIMITS OF CONSTRUCTION (45.5 ACRES)		TEMPORARY BENCH MARK
	LIMITS OF DISTURBANCE (42.2 ACRES)		CULVERT
	FENCE		TELEPHONE BOX
	UNDERGROUND UTILITY CONDUIT		MAIL BOX
	DITCH		WETLAND
	STREAM		FLOW ARROW
	CONTOUR		ROCK CONSTRUCTION ENTRANCE (OR APPROVED ALT.)
	FLOOD PLAIN		OUTLET PROTECTION
	GRAVEL AREA		PROPOSED CULVERT
	FUEL TANK AREA (25' x 250')		PROPOSED DIVERSION SWALE
	TRAILER (24' x 60')		500 YEAR FLOODPLAIN
	STORAGE UNITS		BRIDGE
	TOP SOIL SEGREGATION AREA		
	PROPOSED COMPOST FILTER SOCK OR SILT FENCE		

**GENERAL NOTES AND COMMENTS:**

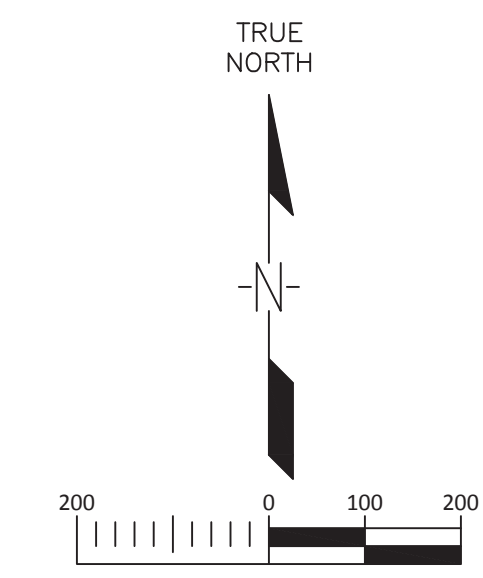
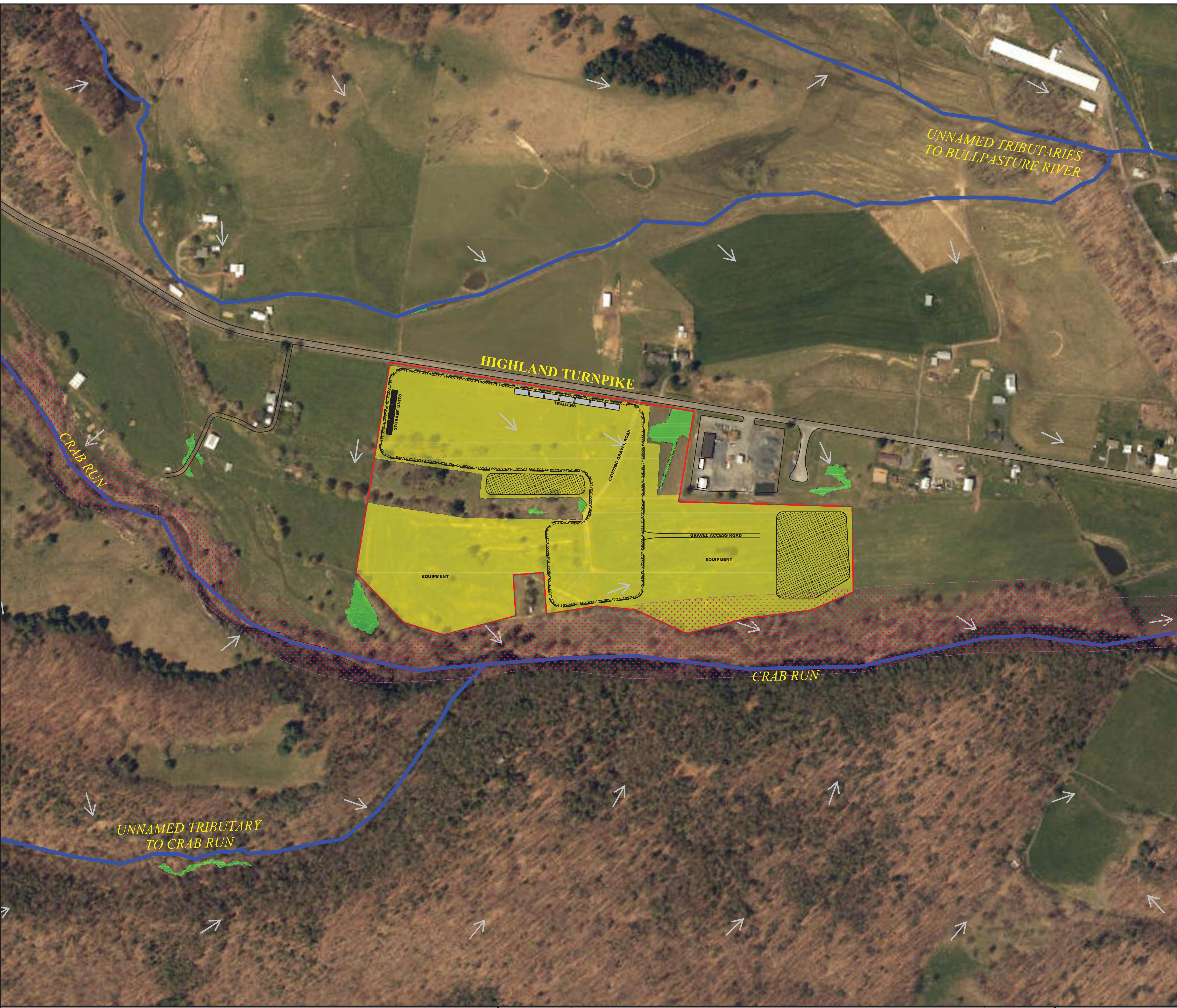
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<b>Atlantic Coast Pipeline, LLC</b>		925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000	
TITLE: ATLANTIC COAST PIPELINE DEERFIELD CONTRACTOR YARD ESCP			
DISTRICT:	COUNTY: AUGUSTA	STATE: VA	GROUP: -
DIR/FILE: ACPI/Virginia	DWG. NO. 5 OF 17	REV. 0	



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**LEGEND**

	LIMITS OF CONSTRUCTION		WETLAND
	LIMITS OF DISTURBANCE		FLOW ARROW
	FENCE		100 YEAR FLOODPLAIN
	UNDERGROUND UTILITY CONDUIT		
	DITCH		
	STREAM		
	CONTOUR		
	FLOOD PLAIN		
	GRAVEL AREA		
	FUEL TANK AREA (25' x 250')		
	TRAILER (24' x 60')		
	STORAGE UNITS		
	TOP SOIL SEGREGATION AREA		

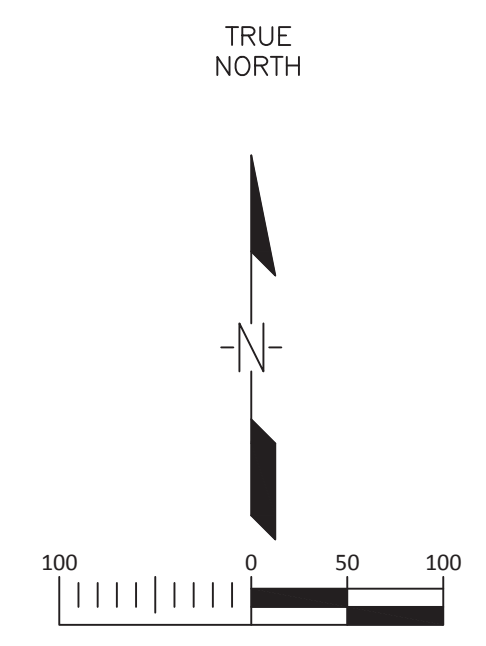
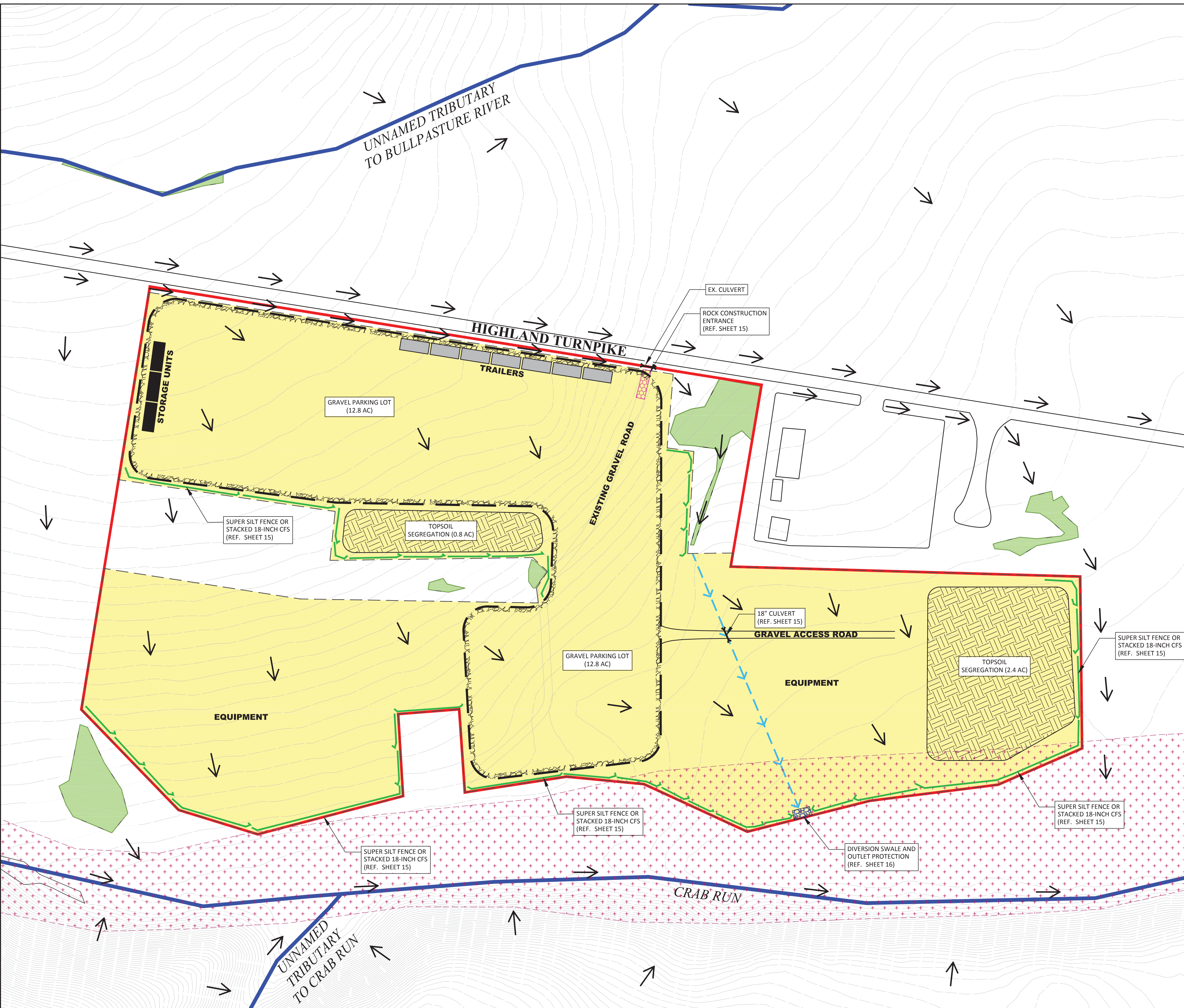
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SEAL  
 COMMONWEALTH OF VIRGINIA  
 Daniel R. Goldstein  
 Lic. No. 047436  
 PROFESSIONAL ENGINEER

	Environmental Resources Management
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925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000					
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DISTRICT:	-	COUNTY:	HIGHLAND	STATE:	VA
DIR/FILE:	ACPI/Virginia				
GROUP:	-	DWG. NO.:	6 OF 17	REV.:	0



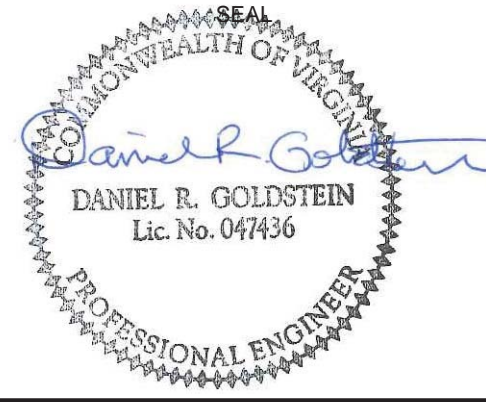
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**LEGEND**

	LIMITS OF CONSTRUCTION (36.4 ACRES)		FLOW ARROW
	LIMITS OF DISTURBANCE (32.1 ACRES)		ROCK CONSTRUCTION ENTRANCE (OR APPROVED ALT.)
	FENCE		OUTLET PROTECTION
	UNDERGROUND UTILITY CONDUIT		PROPOSED CULVERT
	DITCH		PROPOSED DIVERSION SWALE
	STREAM		100 YEAR FLOODPLAIN
	CONTOUR		WETLAND
	FLOOD PLAIN		
	GRAVEL AREA		
	FUEL TANK AREA (25' x 250')		
	TRAILER (24' x 60')		
	STORAGE UNITS		
	TOP SOIL SEGREGATION AREA		
	PROPOSED COMPOST FILTER SOCK OR SILT FENCE		

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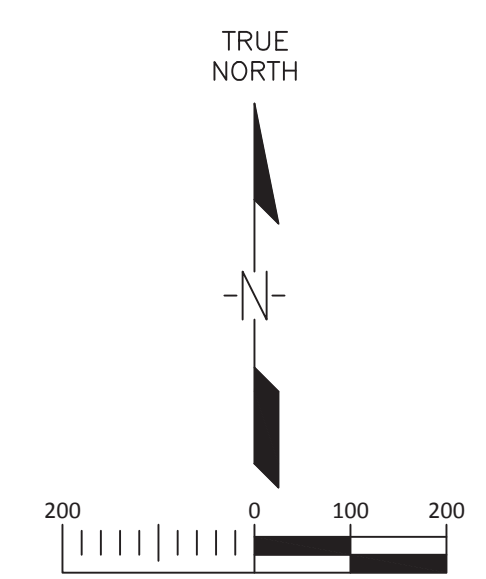


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**Atlantic Coast Pipeline, LLC**  
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

**ATLANTIC COAST PIPELINE  
 MCDOWELL CONTRACTOR YARD ESCP**

DISTRICT:	COUNTY:	HIGHLAND	STATE:	VA	GROUP:	DWG. NO.:	REV.:
DIR/FILE:	ACPI/Virginia					7 OF 17	0



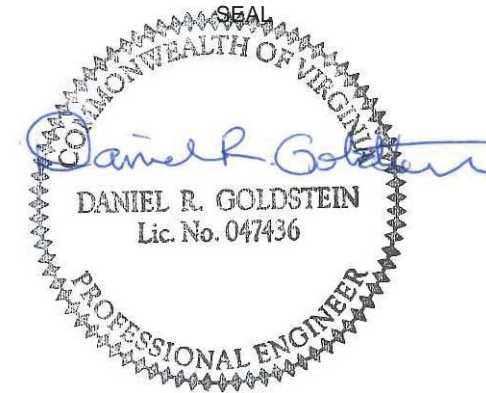
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**LEGEND**

	LIMITS OF CONSTRUCTION
	LIMITS OF DISTURBANCE
	SPOIL AREAS
	FENCE
	DITCH
	STREAM
	CONTOUR
	VIRGINIA DEPARTMENT OF TRANSPORTATION MARKER
	FIRE HYDRANT
	FUEL TANK AREA (25' x 250')
	TRAILER (24' x 60')
	STORAGE UNITS
	TOP SOIL SEGREGATION AREA
	GRAVEL AREA
	FLOW ARROW

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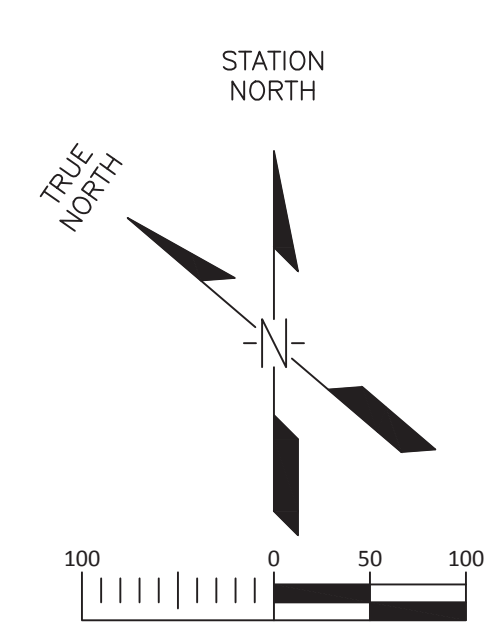
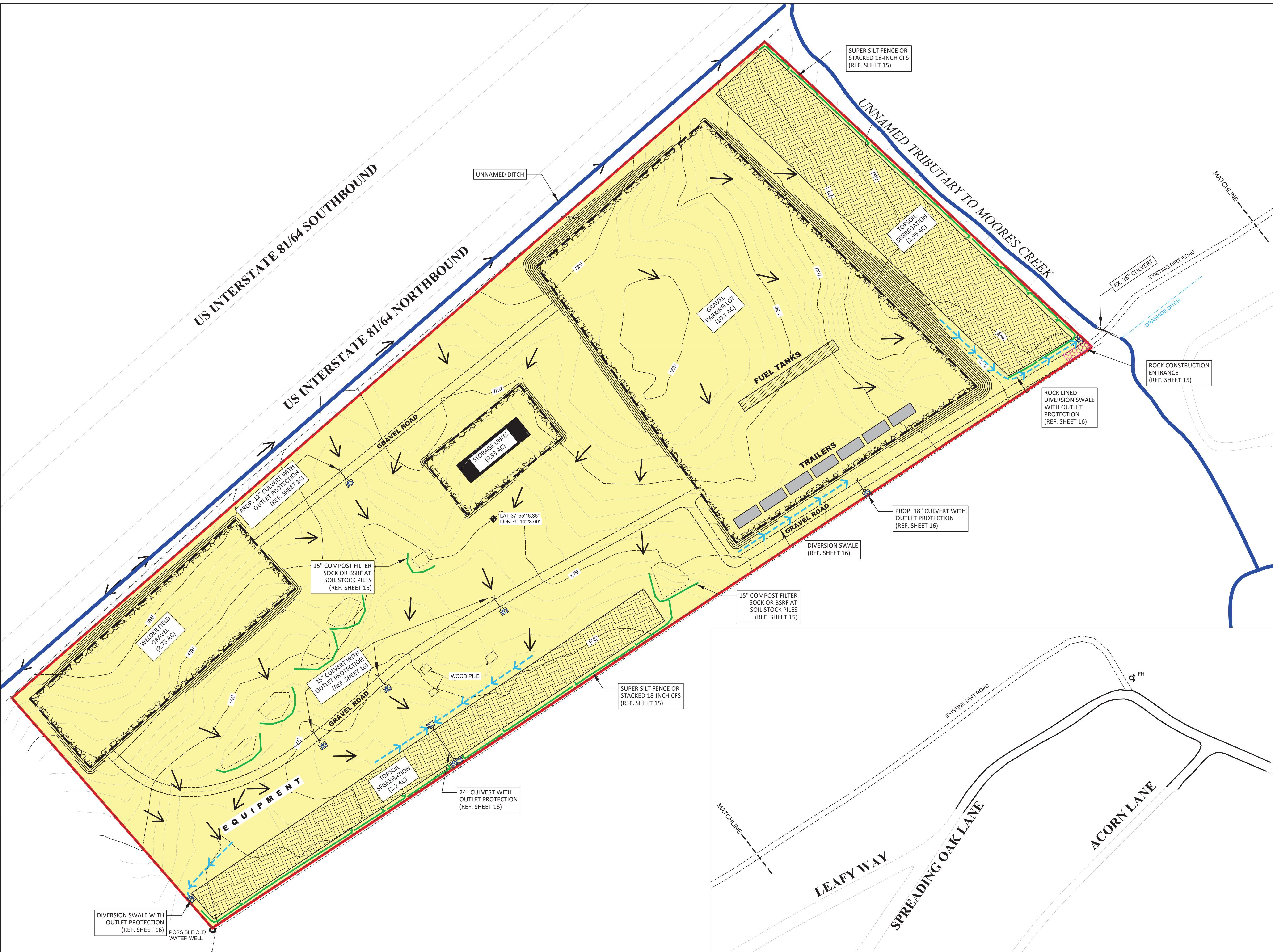
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APP. FOR CONST.:	
SCALE:	AS NOTED

<b>Atlantic Coast Pipeline, LLC</b>					
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000					
TITLE: ATLANTIC COAST PIPELINE STEELES TAVERN CONTRACTOR YARD AERIAL OVERVIEW					
DISTRICT:	COUNTY:	STATE:	GROUP:	DWG. NO.:	REV.:
-	ROCKBRIDGE	VA	-	8 OF 17	0
DIR/FILE: ACP/Virginia					





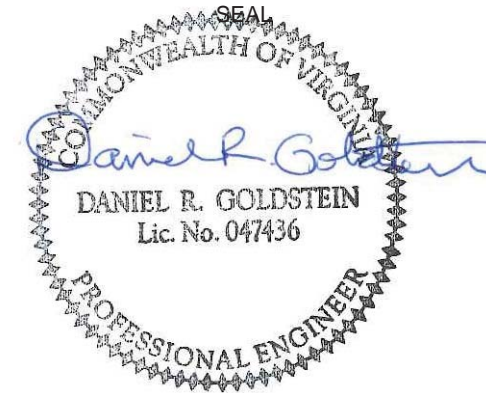
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- LIMITS OF CONSTRUCTION (42.7 ACRES)
- LIMITS OF DISTURBANCE (42.7 ACRES)
- SPOIL AREAS
- FENCE
- DITCH
- STREAM
- CONTOUR
- VDOT VIRGINIA DEPARTMENT OF TRANSPORTATION MARKER
- FIRE HYDRANT
- FUEL TANK AREA (25' x 250')
- TRAILER (24' x 60')
- STORAGE UNITS
- TOP SOIL SEGREGATION AREA
- GRAVEL AREA
- PROPOSED COMPOST FILTER SOCK OR SILT FENCE
- FLOW ARROW
- ROCK CONSTRUCTION ENTRANCE (OR APPROVED ALT.)
- OUTLET PROTECTION
- PROPOSED CULVERT
- PROPOSED DIVERSION SWALE

GENERAL NOTES AND COMMENTS:  
 1. CONTOURS AND BASE MAP PROVIDED BY I3 ENGINEERING AND CONSULTING, LLC WITH ADDITIONAL CONTOURS OBTAINED FROM THE USGS NATIONAL ELEVATION DATASET. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ITS ACCURACY.  
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 4. DOMINION RESERVES THE RIGHT TO USE EITHER, OR BOTH, 12" COMPOST FILTER SOCK OR STANDARD SILT FENCE, FOR ANY APPLICATION IN WHICH EITHER OF THESE TWO CONTROL MEASURES ARE SPECIFIED.

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
△	06/08/17	WTS	ISSUED FOR REVIEW		

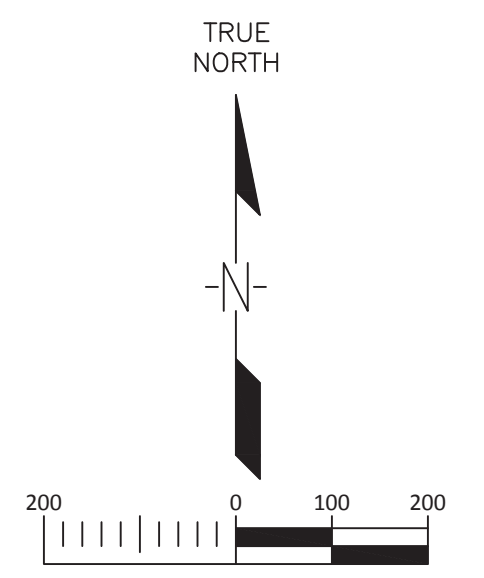


<b>ERM</b> Environmental Resources Management	DRAWN: NJB	06/08/17
	CHECKED: WT	06/08/17
	APP. FOR CONST.:	
	SCALE: AS NOTED	

**Atlantic Coast Pipeline, LLC**  
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

**ATLANTIC COAST PIPELINE  
 STEELES TAVERN CONTRACTOR YARD ESCP**

DISTRICT: -	COUNTY: ROCKBRIDGE	STATE: VA	GROUP: -	DWG. NO.: 9 OF 17	REV.: 0
DIR/FILE: ACPI/Virginia					



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**LEGEND**

	LIMITS OF CONSTRUCTION		WETLAND
	LIMITS OF DISTURBANCE		FLOW ARROW
	FENCE		100 YEAR FLOODPLAIN
	UNDERGROUND UTILITY CONDUIT		
	DITCH		
	STREAM		
	CONTOUR		
	FLOOD PLAIN		
	GRAVEL AREA		
	FUEL TANK AREA (25' x 250')		
	TRAILER (24' x 60')		
	STORAGE UNITS		
	TOP SOIL SEGREGATION AREA		

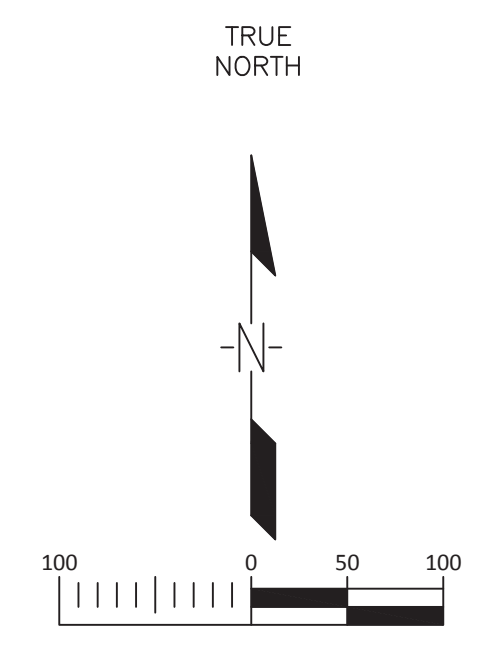
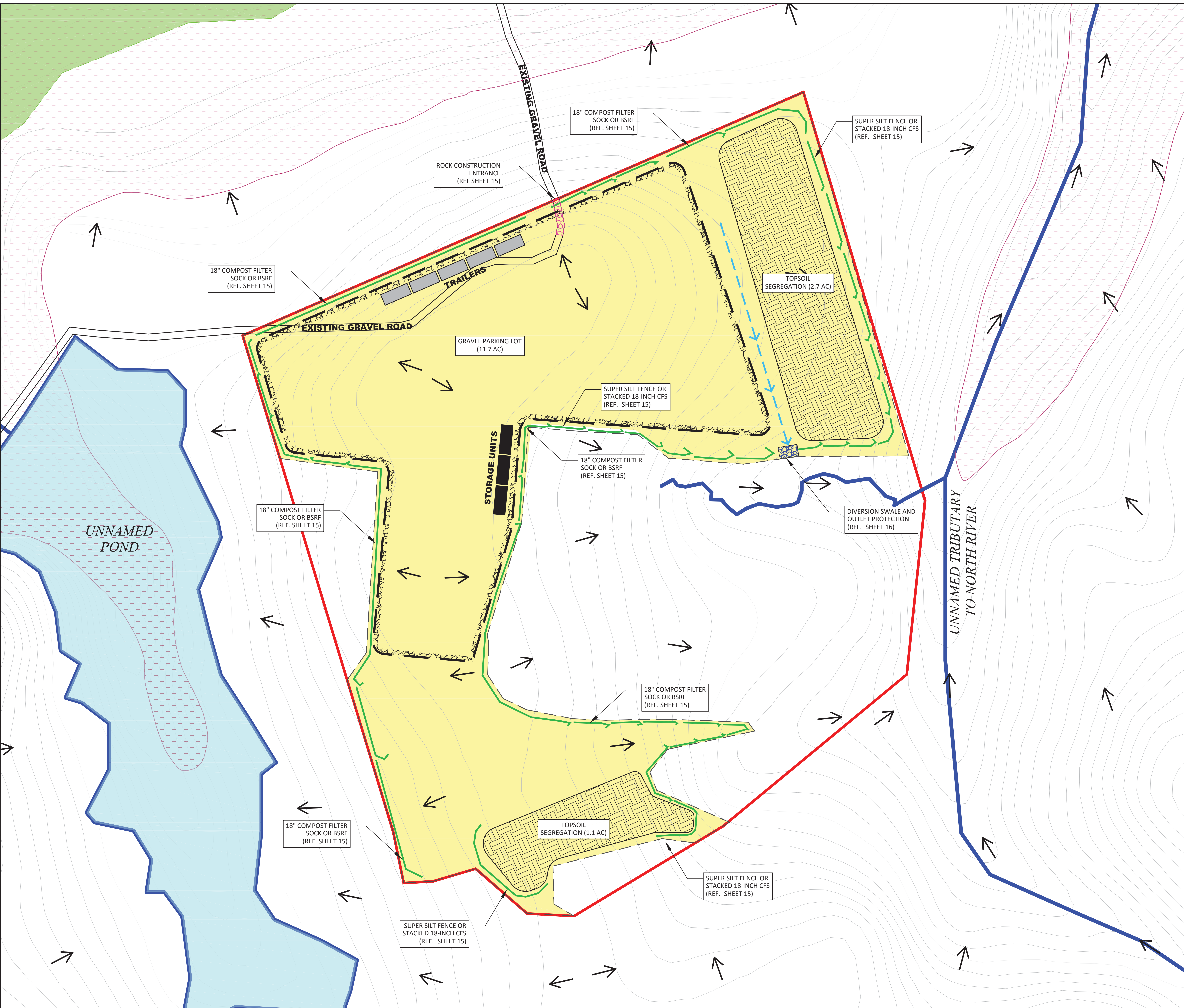
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SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
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SEAL  
 COMMONWEALTH OF VIRGINIA  
*Daniel R. Goldstein*  
 DANIEL R. GOLDSTEIN  
 Lic. No. 047436  
 PROFESSIONAL ENGINEER

	<b>Environmental Resources Management</b>
DRAWN:	NJB 06/08/17
CHECKED:	WT 06/08/17
APP. FOR BID:	
APP. FOR CONST.:	
SCALE:	AS NOTED

<b>Atlantic Coast Pipeline, LLC</b>					
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000					
TITLE: ATLANTIC COAST PIPELINE BUCKINGHAM CONTRACTOR YARD AERIAL OVERVIEW					
DISTRICT:	-	COUNTY:	BUCKINGHAM	STATE:	VA
DIR/FILE:	ACPI/Virginia		GROUP:	-	DWG. NO. 10 OF 17
					REV. 0



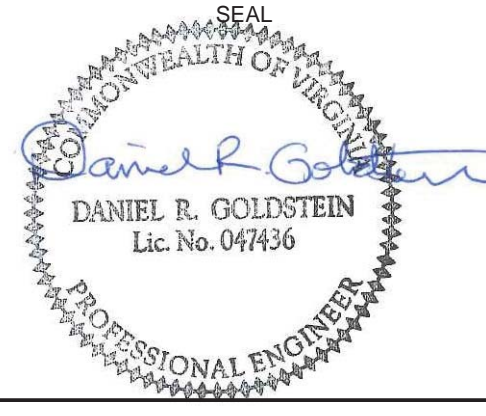
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**LEGEND**

	LIMITS OF CONSTRUCTION (37.0 ACRES)		FLOW ARROW
	LIMITS OF DISTURBANCE (23.4 ACRES)		ROCK CONSTRUCTION ENTRANCE (OR APPROVED ALT.)
	FENCE		OUTLET PROTECTION
	UNDERGROUND UTILITY CONDUIT		PROPOSED CULVERT
	DITCH		PROPOSED DIVERSION SWALE
	STREAM		100 YEAR FLOODPLAIN
	CONTOUR		WETLAND
	FLOOD PLAIN		
	GRAVEL AREA		
	FUEL TANK AREA (25' x 250')		
	TRAILER (24' x 60')		
	STORAGE UNITS		
	TOP SOIL SEGREGATION AREA		
	PROPOSED COMPOST FILTER SOCK OR SILT FENCE		

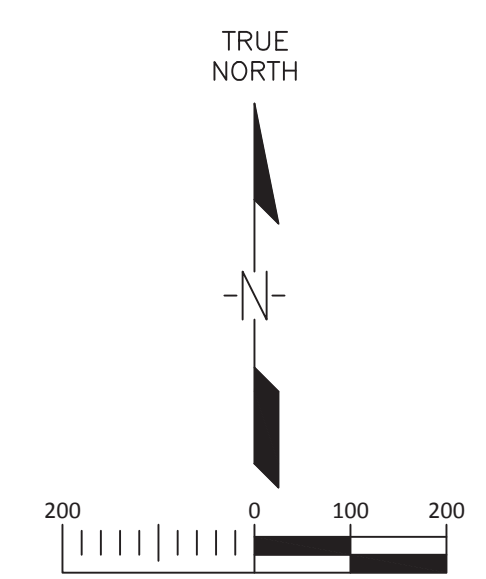
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SCALE:	AS NOTED









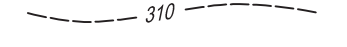








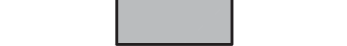
<b>Atlantic Coast Pipeline, LLC</b>	
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000	
TITLE: <b>ATLANTIC COAST PIPELINE BUCKINGHAM CONTRACTOR YARD ESCP</b>	
DISTRICT:	COUNTY: BUCKINGHAM STATE: VA GROUP: DWG. NO. REV.
DIR/FILE:	ACPI/Virginia - 11 OF 17 0



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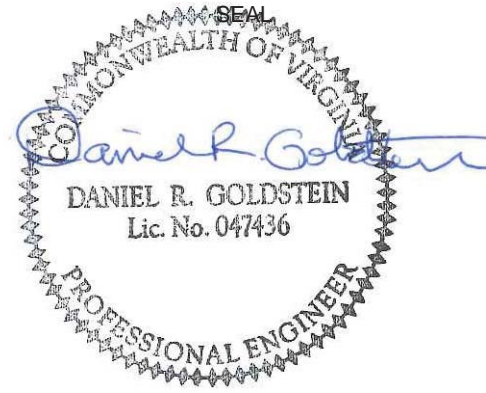
**LEGEND**


-  LIMITS OF CONSTRUCTION
-  LIMITS OF DISTURBANCE
-  OVERHEAD ELECTRIC LINE
-  FENCE
-  EDGE OF WOODS/TREE LINE
-  DITCH
-  STREAM
-  CONTOUR
-  WETLAND
-  GRAVEL AREA
-  TOP SOIL SEGREGATION AREA
-  UTILITY POLE
-  TEMPORARY BENCH MARK
-  TREE LOCATION
-  FUEL TANK AREA (25' x 250')
-  TRAILER (24' x 60')
-  STORAGE UNITS
-  FLOW ARROW

**GENERAL NOTES AND COMMENTS:**

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**Atlantic Coast Pipeline, LLC**  
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

**ATLANTIC COAST PIPELINE  
EMPORIA CONTRACTOR YARD AERIAL OVERVIEW**

DISTRICT: -	COUNTY: BRUNSWICK	STATE: VA	GROUP: -	DWG. NO.: 12 OF 17	REV.: 0
DIR/FILE: ACP/Virginia					



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TRUE NORTH

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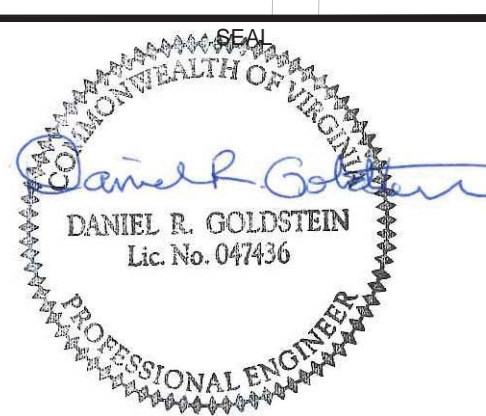
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**LEGEND**

- LIMITS OF CONSTRUCTION (30.6 ACRES)
- LIMITS OF DISTURBANCE (30.2 ACRES)
- OVERHEAD ELECTRIC LINE
- FENCE
- EDGE OF WOODS/TREE LINE
- DITCH
- STREAM
- CONTOUR
- WETLAND
- GRAVEL AREA
- TOP SOIL SEGREGATION AREA
- TEMPORARY BENCH MARK
- TREE LOCATION
- FUEL TANK AREA (25' x 250')
- TRAILER (24' x 60')
- STORAGE UNITS
- PROPOSED COMPOST FILTER SOCK OR SILT FENCE
- CONSTRUCTION SAFETY FENCE
- FLOW ARROW
- ROCK CONSTRUCTION ENTRANCE (OR APPROVED ALT.)
- OUTLET PROTECTION
- PROPOSED CULVERT
- PROPOSED DIVERSION SWALE

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**Atlantic Coast Pipeline, LLC**  
 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000

**ATLANTIC COAST PIPELINE  
 EMPORIA CONTRACTOR YARD ESCP**

DISTRICT: -	COUNTY: BRUNSWICK	STATE: VA	GROUP: -	DWG. NO.: 13 OF 17	REV.: 0
DIR/FILE: ACPI/Virginia					

**GENERAL EROSION AND SEDIMENT CONTROL PLAN NOTES**

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 9VAC25-840: EROSION AND SEDIMENT CONTROL REGULATIONS.
- THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

**EROSION AND SEDIMENT CONTROL PLAN NARRATIVE**

THE EROSION AND SEDIMENT (E&S) CONTROL MEASURES FOR THE CONTRACTOR YARD ACTIVITIES CONSIST OF, BUT ARE NOT LIMITED TO, SAFETY FENCE, COMPOST FILTER SOCK, BELTED SILT RETENTION FENCE, WATERBARS, TRENCH PLUGS, ROCK CONSTRUCTION ENTRANCES, DIVERSION SWALES, CULVERTS, OUTLET PROTECTION, AND TEMPORARY AND PERMANENT SEEDING AND MULCHING. BEST MANAGEMENT PRACTICES (BMP) SPECIFICATIONS FOR THE E&S CONTROL PLAN (E&SCP) ARE TO BE UTILIZED BY THE CONSTRUCTION CONTRACTOR ACCORDING TO THE PROVIDED PLAN.

GENERAL CONSTRUCTION NOTES:

- DISCHARGING SEDIMENT LADEN WATER WHICH WILL CAUSE OR CONTRIBUTE TO THE DEGRADATION OF A BENEFICIAL USE OF A WATER OF THE STATE FROM THE CONSTRUCTION SITE, A DEWATERING SITE, INTO ANY WATERBODY OR STORM DRAIN WITHOUT FILTRATION OR EQUIVALENT TREATMENT IS PROHIBITED.
- THE DISCHARGER SHALL AMEND THE EROSION & SEDIMENT CONTROL PLAN WHENEVER THERE IS A CHANGE IN THE CONSTRUCTION OR OPERATIONS, WHICH MAY EFFECT THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS, GROUNDWATER, OR A MUNICIPAL STORM DRAIN SYSTEM.
- DISCHARGES ORIGINATING FROM OFF-SITE SOURCES, WHICH FLOW THROUGH OR ACROSS THE AREAS DISTURBED BY CONSTRUCTION, SHALL BE DIVERTED AROUND THE ACTIVE CONSTRUCTION AREA WHENEVER POSSIBLE.
- SOIL STABILIZATION (TEMPORARY SEED AND MULCHING) PROCEDURES WILL TAKE PLACE WITHIN 7 DAYS IF AREA IS TO BE LEFT IDLE FOR 21 DAYS AND/OR PRIOR TO PERIODS OF CESSATION IN CONSTRUCTION ACTIVITIES. PERMANENT STABILIZATION MUST ULTIMATELY BE COMPLETED IN ALL DISTURBED AREAS.
- DUE TO VARYING SITE CONDITIONS, ADDITIONAL SEDIMENT CONTROL BMPs MAY BE NECESSARY BEYOND THE MEASURES SHOWN ON THE E&S CONTROL PLAN.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES, LOCATED WITHIN THE IMMEDIATE AREA AND ABLE TO GET TO THE SITE WITHIN A REASONABLE TIMEFRAME. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON-SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY BMP DEVICES WHEN RAIN OR SNOW MELT EVENTS ARE IMMINENT.
- DUE TO VARYING SITE CONDITIONS, SOIL STOCKPILE LOCATIONS/EXTENT AND LOCATION OF EROSION CONTROL MEASURES ASSOCIATED WITH THESE STOCKPILES SHALL BE PREVIEWED/APPROVED BY PROJECT EI.
- STAGING AREAS, ASSEMBLY AREAS, TEMPORARY EQUIPMENT AND NON-HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED OUTSIDE 100-YR FLOOD ZONES. HAZARDOUS MATERIAL STORAGE AREAS SHALL BE LOCATED AT LEAST 100 FEET BACK FROM SURFACE WATER BODIES.
- BMPs ARE TO BE INSPECTED IN ACCORDANCE WITH THE FREQUENCIES STIPULATED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). A WRITTEN REPORT MUST ALSO BE COMPLETED, DOCUMENTING EACH INSPECTION AND, IF NECESSARY, ANY REPAIR, REPLACEMENT OR MAINTENANCE ACTIVITY.
- THE LOCATION AND EXISTENCE OF EXISTING UNDERGROUND FACILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM A SEARCH OF AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING FACILITY SHOWN ON THE DRAWINGS, AND ANY OTHER WHICH IS NOT ON RECORD OR NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL POTHOLE EXISTING UTILITIES AT THE POINTS OF CONNECTION AND ALL UTILITY CROSSINGS TO DETERMINE EXACT LOCATIONS PRIOR TO THE START OF WORK. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER OF RECORD IMMEDIATELY.
- ALL REQUIRED PERMITS MUST BE OBTAINED PRIOR TO STARTING WORK.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, STABILIZATION AND MAINTENANCE OF ALL EXISTING AND PROPOSED SITE EROSION & SEDIMENTATION CONTROL DEVICES AND FACILITIES.
- THE CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING EROSION & SEDIMENTATION DEVICES AND SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE ENGINEER OF RECORD HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER OF RECORD.

- AS SITE SPECIFIC CONDITIONS MAY WARRANT, THE E&SC PLAN MAY REQUIRE MINOR MODIFICATIONS TO ENSURE PROPER PROTECTION OF RECEIVING WATERS. THE RESPECTIVE PROJECT ENVIRONMENTAL INSPECTOR (EI) WILL IDENTIFY SITE SPECIFIC AREAS WHERE A CERTAIN BMP MODIFICATION(S) IS NECESSARY TO EITHER OMIT OR ENHANCE BMPs IN SUCH AREAS. THIS PROCESS ENTAILS THE EI TO IDENTIFY LOCATIONS WHERE BMPs WILL NEED TO BE ALTERED, SUBSTITUTED OR OMITTED AND CONTACT THE DOMINION COMPLIANCE SPECIALIST TO REVIEW PROPOSED CHANGES. UPON REVIEW AND APPROVAL BY THE DOMINION COMPLIANCE SPECIALIST, THE EI WILL REDLINE, DATE, AND SIGN THE E&SCP DRAWING(S) DEPICTING THE REDLINE CHANGE(S). ONCE THIS PROCESS IS COMPLETED BY THE EI WILL NOTIFY THE VADEQ OF SUCH MINOR MODIFICATION REDLINE AMENDMENTS AS REQUIRED BY THE GENERAL PERMIT.
- FOR THE PURPOSES OF THIS DOCUMENT, THE FOLLOWING DEFINITIONS APPLY:
  - LIMITS OF DISTURBANCE (LOD) - THE BOUNDARY WITHIN WHICH GROUND DISTURBANCE OCCURS (OR MAY OCCUR) AS A RESULT OF CONSTRUCTION RELATED ACTIVITIES.
  - LIMITS OF CONSTRUCTION (LOC) - THE BOUNDARY WITHIN WHICH GROUND DISTURBANCE OCCURS AS A RESULT OF THE CONSTRUCTION RELATED ACTIVITIES, IDENTIFIED AS LIMITS OF DISTURBANCE (LOD) ON THE E&SC PLANS, AS WELL AS WORK AREAS INCLUDING VEHICLE PARKING AND EQUIPMENT AND MATERIAL STAGING.

**BMP INSTALLATION AND REMOVAL SEQUENCE**

CONSTRUCTION MUST BE IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. THIS SEQUENCE IS DESIGNED TO MINIMIZE SOIL EROSION AND SEDIMENTATION. THE CONTRACTOR MAY DEVIATE SLIGHTLY FROM THE STAGING OF PERMANENT SITE IMPROVEMENTS, BUT NO DEVIATION FROM THE RELATIVE ORDER OF EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE ALLOWED.

THE STAGING OF EARTHMOVING ACTIVITIES FOR THIS PROJECT IS A GENERAL DESCRIPTION OF THE WORK REQUIRED. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH COMPANY STANDARDS, THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS AND ALL OTHER APPLICABLE FEDERAL, STATE OR LOCAL REQUIREMENTS.

THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN INCLUDING THE SOIL EROSION CONTROL DRAWINGS AND NARRATIVE SHALL BE AVAILABLE ON SITE AT ALL TIMES DURING EARTH DISTURBANCE.

- STAKE/FLAG ALL LIMITS OF DISTURBANCE FOR CONSTRUCTION ACTIVITIES, CLEARLY IDENTIFYING WETLAND AND STREAM EDGES. INSTALL SIGNS TO DESIGNATE THE AREA TO IDENTIFY IMPORTANT PROJECT ATTRIBUTES SUCH AS WETLAND/STREAM BOUNDS, EXCLUSION AREAS ETC.
- INSTALL ROCK CONSTRUCTION ENTRANCE IMMEDIATELY BEFORE INITIAL DISTURBANCES. THE ROCK CONSTRUCTION ENTRANCE TO BE UNDERLAIN BY FILTER FABRIC. ALL CONSTRUCTION TRAFFIC SHOULD USE ONLY ROCK CONSTRUCTION ENTRANCE FOR INGRESS AND EGRESS. ALL MUD OR SEDIMENT TRACKED ONTO THE EXISTING ROADWAY SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY.
- INSTALL EROSION CONTROL MEASURES (I.E., COMPOST FILTER SOCK AND/OR SILT FENCE) AS NECESSARY WITH THE ACCESS ROADS TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING DOWNSTREAM WATER BODIES. MAINTAIN THE ACCESS ROAD AS REQUIRED, ASSOCIATED DITCHES, AND NECESSARY OUTLET PROTECTION.
- PRIOR TO GRADING AND EXCAVATION, INSTALL REMAINING EROSION CONTROL DEVICES (ECDs) SHOWN ON THE PLANS.
- COMMENCE GRADING AND ASSOCIATED CUT AND FILL SLOPES. THE EARTH MOVING ACTIVITY SHALL BEGIN IN AREA OF CUT SO THAT THE CUTS CAN BE PLACED IN AREAS OF FILL.
- FINALIZE CONTRACTOR YARD INSTALLATION AND ROADWAY GRADES AND PLACE TOPSOIL ON THE CUT AND FILL AREAS. IMMEDIATELY INSTALL EROSION CONTROL BLANKETS OR EQUIVALENT ON CUT AND FILL SLOPES, AFTER PLACEMENT OF STOCKPILES TOPSOIL ON EXCAVATED SLOPES, AND AS DIRECTED.
- RE-DISTRIBUTION OF WET SEDIMENT FROM DEVICES AND FACILITIES SHALL ONLY BE PERMITTED UPHILL OF AN EFFECTIVE SEDIMENT CONTROL DEVICE OR FACILITY. SEDIMENT LADEN RUNOFF SHALL NOT BE ALLOWED TO FLOW DIRECTLY INTO, ONTO OR THROUGH UNPROTECTED INLETS, STORM DRAINS, AND WATER BODIES.
- ANY EXPOSED TOPSOIL PILES SHOULD BE STABILIZED & SEEDED PER THE PERMIT REGULATIONS, AND BY TABLES SHOWN ON THE APPROVED EROSION CONTROL PLANS AND MULCHED WITH STRAW AS SPECIFIED BY THE PROJECT OWNER.
- UPON MINIMUM 70% UNIFORM PERENNIAL VEGETATIVE GROWTH, REMOVE TEMPORARY SEDIMENT CONTROLS. REMOVE ACCUMULATED SEDIMENTS WITHIN DEVICES, RE-GRADE TO FINAL CONTOURS. STABILIZE SITE PER THE PLANS.

**SEQUENCE OF CONSTRUCTION**

- LIMITS OF CONSTRUCTION MUST BE FIELD MARKED PRIOR TO CLEARING, INSTALLATION OF SEDIMENT CONTROL MEASURES, CONSTRUCTION, OR OTHER LAND DISTURBING ACTIVITIES.
- DETAILED SEQUENCE OF CONSTRUCTION:
  - INSTALL STABILIZED CONSTRUCTION ENTRANCE.
  - CLEAR AND GRADE AS NECESSARY FOR INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES.
  - INSTALL SEDIMENT CONTROL DEVICES.
  - PREPARE "TEMPORARY" PARKING AND STORAGE AREA(S).
  - CLEAR AND GRUB THE SITE, AS REQUIRED.
  - START CONSTRUCTION OF THE SITE IMPROVEMENTS.
  - BEGIN GRADING THE SITE.
  - INSTALL CONTRACTOR YARD IMPROVEMENTS.
  - COMPLETE GRADING, INSTALL GRAVEL AND PERMANENT SEEDING AND PLANTING.
  - AT THE CONCLUSION OF THE CONSTRUCTION ACTIVITIES, TEMPORARY SOIL STOCKPILES, ROCK STAGING AREAS AND EQUIPMENT AREAS SHALL BE REMOVED, REGRADED, AND STABILIZED TO PRE-EXISTING CONDITIONS.
  - REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED).

**MAINTENANCE SCHEDULE**

AFTER CONSTRUCTION IS COMPLETED AND REVEGETATION HAS BEEN ACHIEVED, ALL BMPs WILL BE REMOVED AND ANY LAND DISTURBED BY REMOVAL WILL BE PERMANENTLY STABILIZED. UNLESS OTHERWISE SPECIFIED, ALL MAINTENANCE MUST BE COMPLETED IMMEDIATELY AFTER AN INSPECTION IDENTIFIES THAT A BMP IS NOT FUNCTIONING AS REQUIRED.

- E&S CONTROLS WILL BE INSPECTED DAILY AT THE ACTIVE CONSTRUCTION SITE, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS FOR ACTIVELY DISTURBED AREAS, EVERY 14 CALENDAR DAYS FOR RESTORED AREAS, AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5-INCH PER 24-HOUR PERIOD DURING THE ENTIRE PROJECT.
- SEDIMENT MUST BE REMOVED WHERE ACCUMULATION REACHES ONE-HALF THE ABOVE GROUND HEIGHT OF THE CONTROL MEASURE.
- EROSION CONTROL MEASURES, WHICH HAVE BEEN UNDERMINED OR TOPPED, MUST IMMEDIATELY BE REPAIRED.
- OTHER REQUIRED REPAIRS OR MAINTENANCE SHALL BE MADE IMMEDIATELY.
- TEMPORARY AND PERMANENT E&S CONTROL BMPs SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

**MATERIAL WASTE HANDLING AND RECYCLING**

- SOLID WASTE DISPOSAL SHALL BE HANDLED THROUGH ONE OF THE LOCAL LICENSED WASTE MANAGEMENT PROVIDERS AND PERMITTED DISPOSAL FACILITIES. THE CONTRACTOR WILL PROVIDE MOBILE AND COVERED WASTE RECEPTACLES AS NEEDED ALONG THE PROJECT LIMITS. CONTRACTOR SHALL ALSO PROVIDE A COVERED DUMPSTER FOR CONSOLIDATION OF WASTE FOR PICK UP AND DISPOSAL FOR THE DURATION OF THE PROJECT. ALL SOLID WASTE SHALL BE DISPOSED OF AT A LICENSED PERMITTED MUNICIPAL LANDFILL
- THE CONTRACTOR WILL DISPOSE OF ALL SCRAP MATERIAL. THE SCRAP MATERIAL MUST BE REMOVED FROM THE SITE AND DISPOSED OF OR RECYCLED AT A PROPERLY LICENSED/PERMITTED FACILITY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY PERMITS AND/OR DISPOSAL FEES. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE TO ASSURE THAT ALL MATERIALS AREA HANDLED AND DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS, RULES, AND REGULATIONS, INCLUDING BUT NO LIMITED TO THOSE ISSUED BY THE ENVIRONMENTAL PROTECTION AGENCY, VADEQ, AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
- CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING FOR THE DURATION OF THE PROJECT INCLUDING THE ROUTINE REMOVAL AND DISPOSAL OF SOLID WASTE.
- CONTRACTOR SHALL KEEP RECORDS OF PROPER SOLID WASTE DISPOSAL AND PROVIDE COPIES TO THE EI.

**SEEDING AND MULCHING**

SEE SEED MIXES, SOIL AMENDMENTS, AND MULCH SPECIFICATIONS SPECIFIED IN THE ACP RESTORATION AND REHABILITATION PLAN.

- SEEDBED PREPARATION: AREAS TO BE SEEDED SHALL BE FREE OF ROCKS AND STONES, DISKED TO A DEPTH OF 4-IN TO 6-IN, AND SMOOTHLY GRADED.
- TOPSOIL SHALL BE REDISTRIBUTED ON ALL DISTURBED AREAS TO BE STABILIZED PRIOR TO SEEDING.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 21 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.
- WHERE THE INITIATION OF STABILIZATION MEASURES WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.
- WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 21 DAYS FROM WHEN ACTIVITIES CEASED (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 21 DAYS), THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.
- AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS AFTER SEEDING AND MULCHING MUST BE RE-SEEDED IMMEDIATELY, OR AS SOON AS WEATHER CONDITIONS ALLOW.

**POLLUTANT CONTROLS**

- SPILLS OCCURRING DURING CONSTRUCTION, OPERATION AND MAINTENANCE ARE TO BE REPORTED IMMEDIATELY TO THE MONITORING CENTER AT 1-800-835-7191. DOMINION'S ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT WILL BE RESPONSIBLE FOR CONTACTING THE APPROPRIATE AGENCIES, EXCEPT AS PROVIDED FOR BELOW.
- IF THE CALL TO THE MONITORING CENTER IS NOT RETURNED WITHIN 30 MINUTES AND THE SPILL HAS IMPACTED WATER, THE PERSON DISCOVERING THE SPILL OR RELEASE WILL CONTACT THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 AND REPORT THE RELEASE. THAT PERSON WILL CONTINUE CALLING THE MONITORING CENTER UNTIL A REPRESENTATIVE IS REACHED.

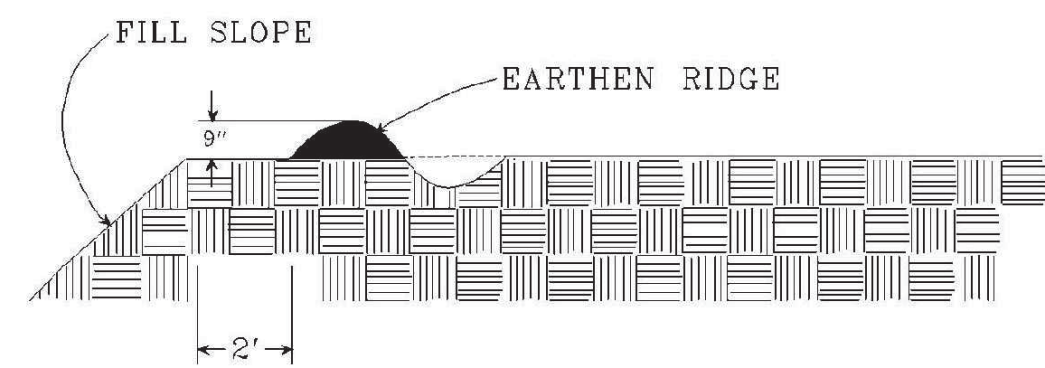
**STORMWATER POLLUTION PREVENTION PLAN (SWPPP)**

THE CONTRACTOR SHALL BE READILY FAMILIAR WITH AND MAINTAIN ON SITE FOR IMMEDIATE REFERENCE THE PROJECT SWPPP. THE REQUIREMENTS OF THE SWPPP PROVIDE ADDITIONAL DETAIL AND INFORMATION BEYOND THE PROJECT NOTES AND DETAILS. THE PERFORMANCE REQUIREMENTS OF THE SWPPP ARE INCORPORATED AND MADE PART OF THESE PLANS.

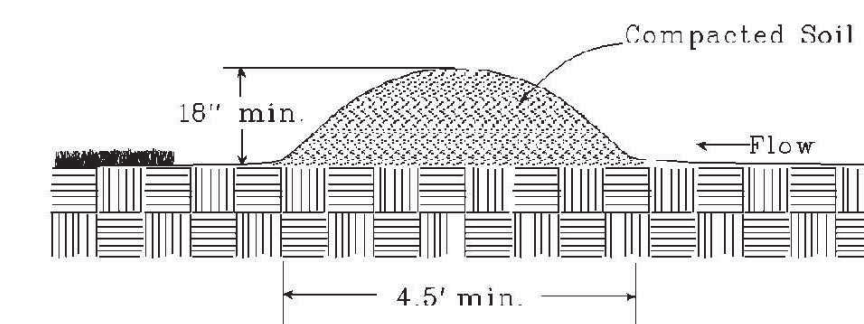
GENERAL NOTES AND COMMENTS:	SYM.	DATE	BY	REVISION INFORMATION			PROJECT/TASK	APP.			<p align="center"><b>Atlantic Coast Pipeline, LLC</b></p> <p align="center">925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000</p>					
	△	06/08/17	WTS	ISSUED FOR REVIEW							<p align="center">TITLE: ATLANTIC COAST PIPELINE EROSION AND SEDIMENT CONTROL PLAN NOTES</p>					
									DRAWN: NJB CHECKED: WT APP. FOR BID: APP. FOR CONST.: SCALE: AS NOTED	06/08/17 06/08/17	DISTRICT: -	COUNTY: -	STATE: VA	GROUP	DWG. NO.	REV.
											DIR/FILE: ACP\Virginia\	-	14 OF 17	0		



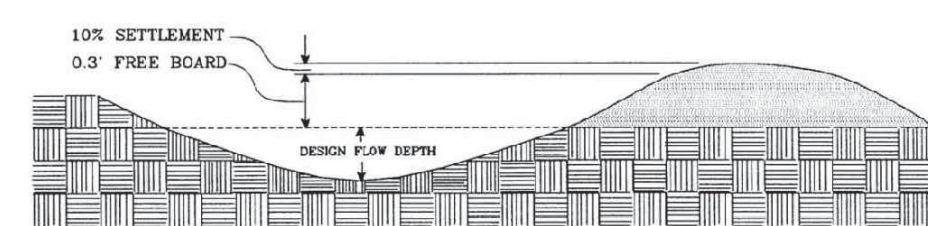
TEMPORARY FILL DIVERSION - 3.10



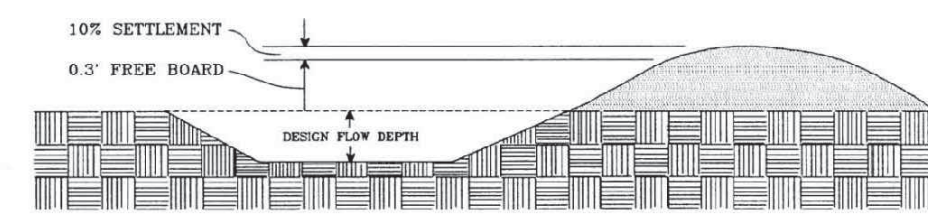
TEMPORARY DIVERSION DIKE - 3.09



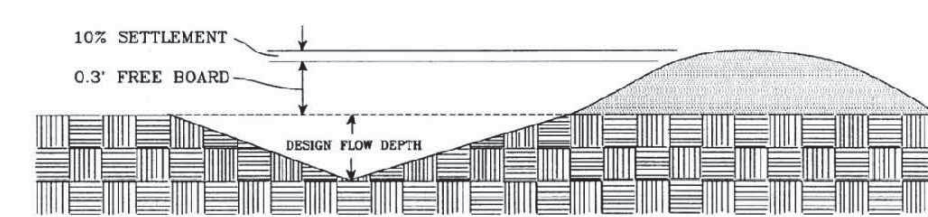
DIVERSIONS



TYPICAL PARABOLIC DIVERSION

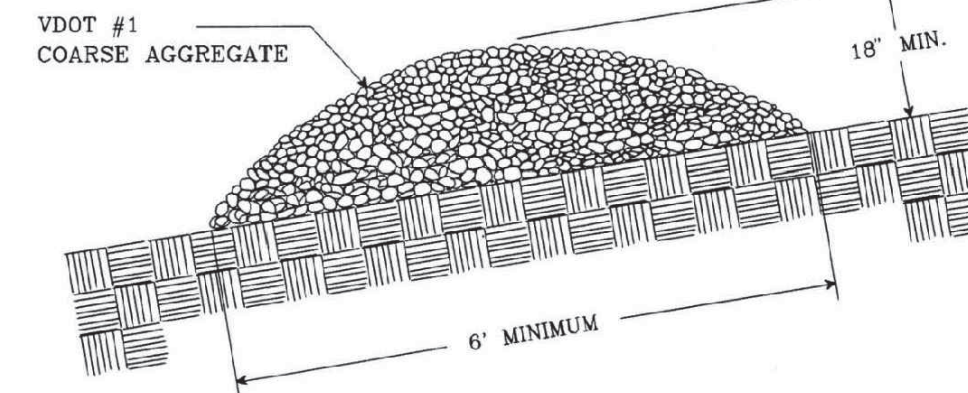


TYPICAL TRAPEZOIDAL DIVERSION

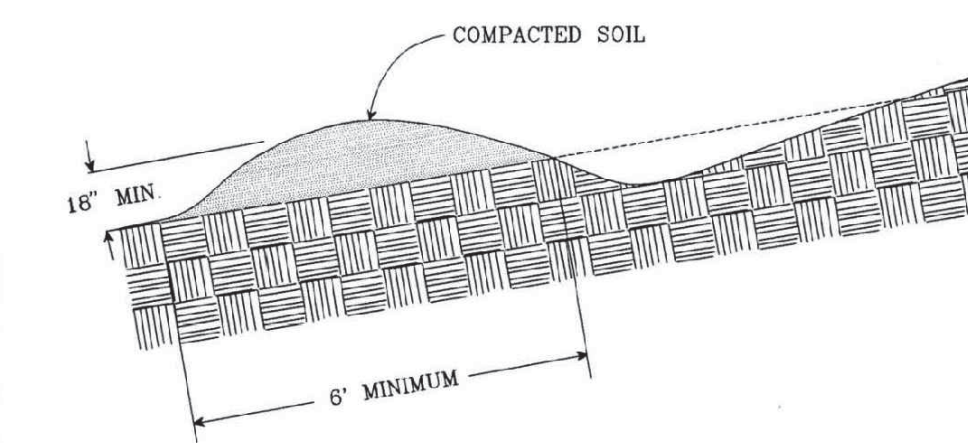


TYPICAL VEE-SHAPED DIVERSION

TEMPORARY RIGHT-OF-WAY DIVERSIONS

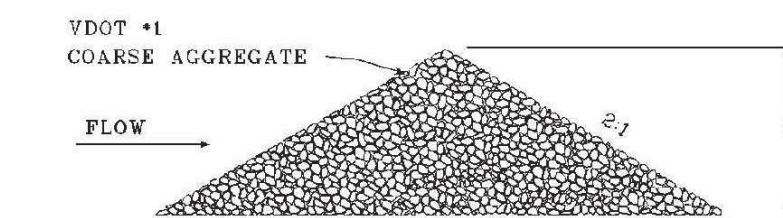
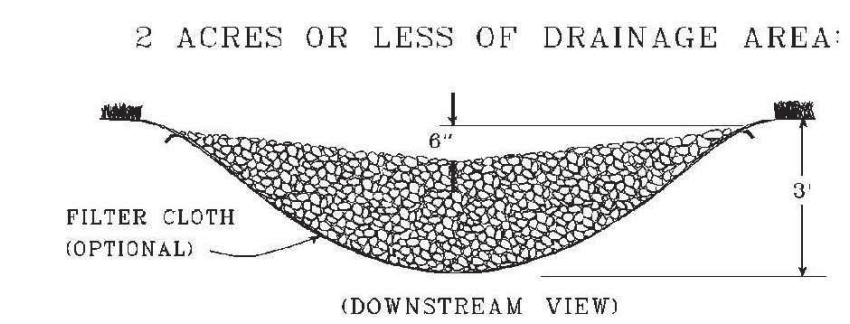


TYPICAL GRAVEL STRUCTURE

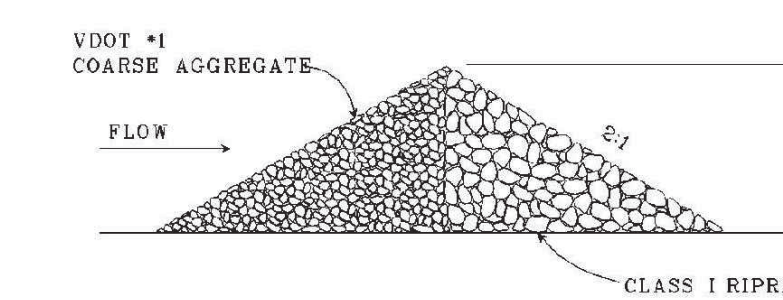
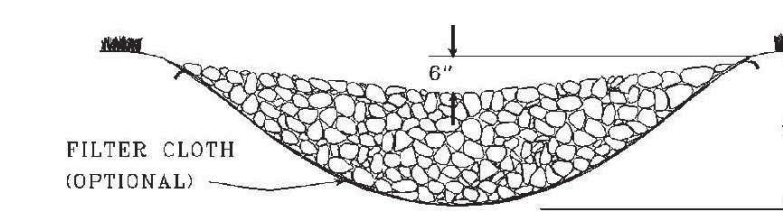


TYPICAL EARTHEN STRUCTURE

ROCK CHECK DAM - 3.20

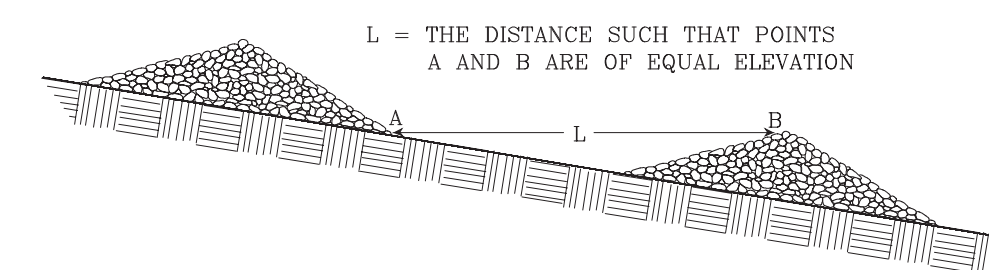


2-10 ACRES OF DRAINAGE AREA



SPACING BETWEEN CHECK DAMS

NOT TO SCALE



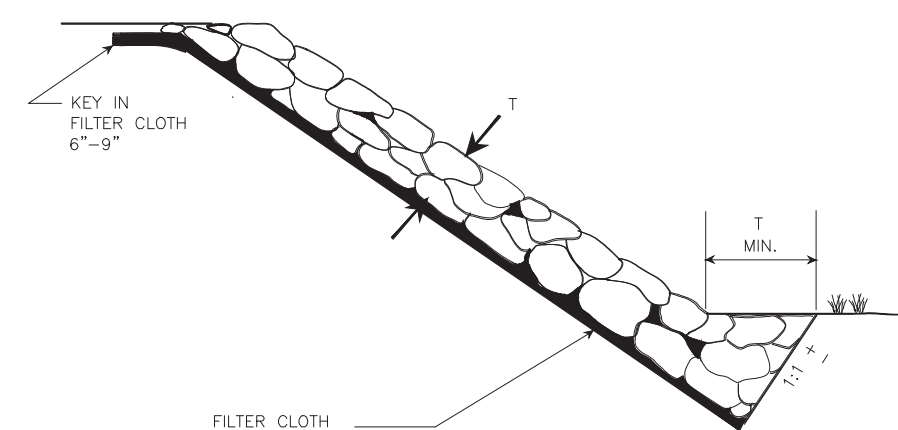
Design Criteria: No formal design is required. The following criteria shall be met:  
 Height- The minimum allowable height of the diversion is 18 inches;  
 Side Slopes- Side slopes should be 2:1 or flatter to allow the passage of construction traffic, along with a minimum base width of 6 feet;  
 Width- The measure should be constructed completely across the disturbed portion of the right-of-way;  
 Spacing- Use the following to determine the spacing of right-of-way diversions within the VA Erosion Control Handbook;  
 - less than 7% slope: 100 ft.  
 - between 7% and 25% slope: 75ft.  
 - between 25% and 40% slope: 50ft.  
 - Greater than 40% 25 ft.  
 Grade- Positive drainage (with less than 2% slope) should be provided to a stabilized outlet, sediment-trapping facility, or a vegetative buffer strip of adequate size.

Outlet- Interceptor dikes must have an outlet which is not subject to erosion. The on-site location may need to be adjusted to meet field conditions in order to utilize the most suitable outlet. Concentrated flows should spread over the widest possible area after release. Flows with high sediment concentrations should pass through an appropriate sediment-trapping measure.

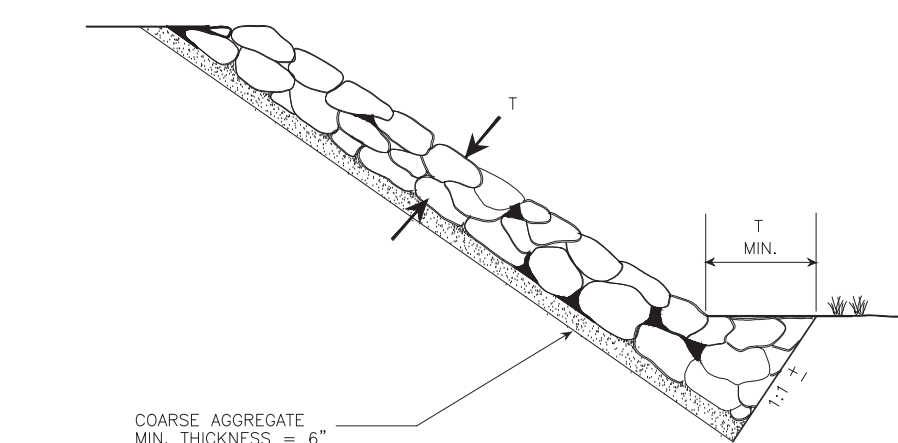
TOE REQUIREMENTS FOR BANK STABILIZATION

FILTER CLOTH UNDERLINER (PREFERRED)

NOT TO SCALE

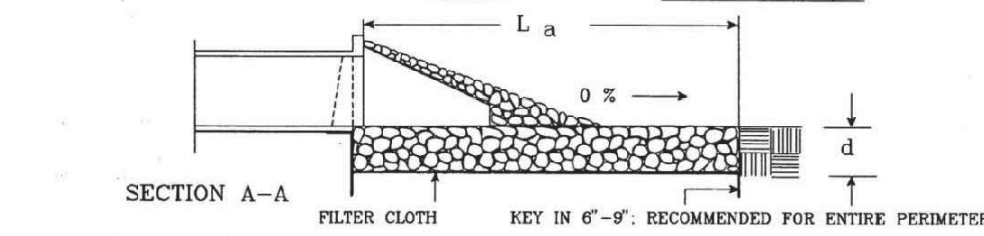
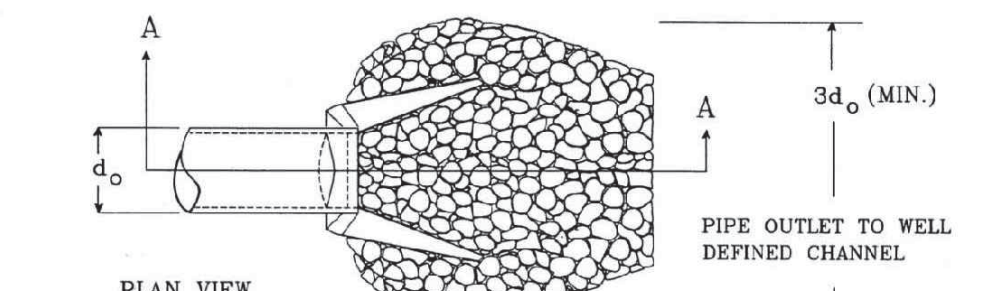
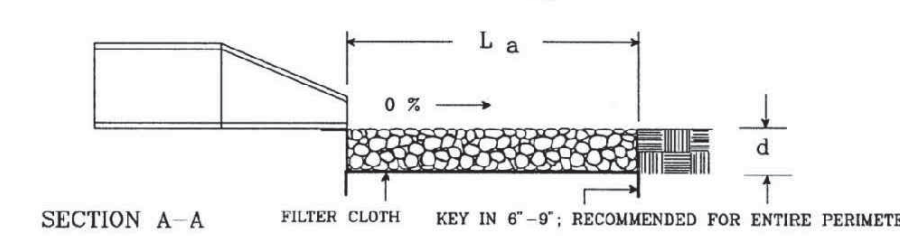
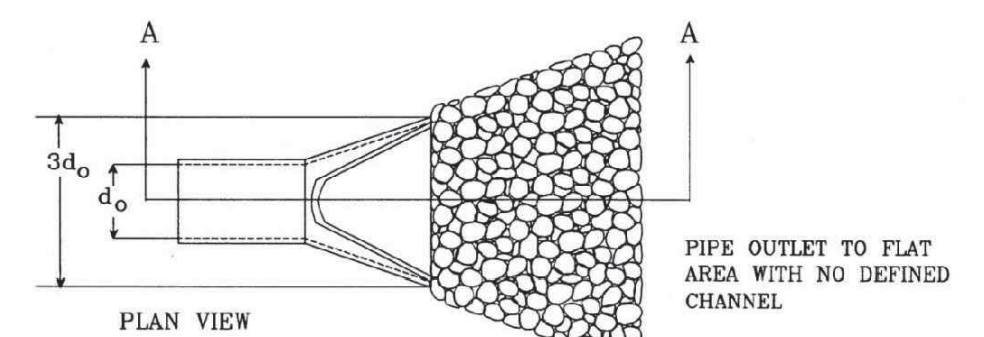


GRANULAR FILTER



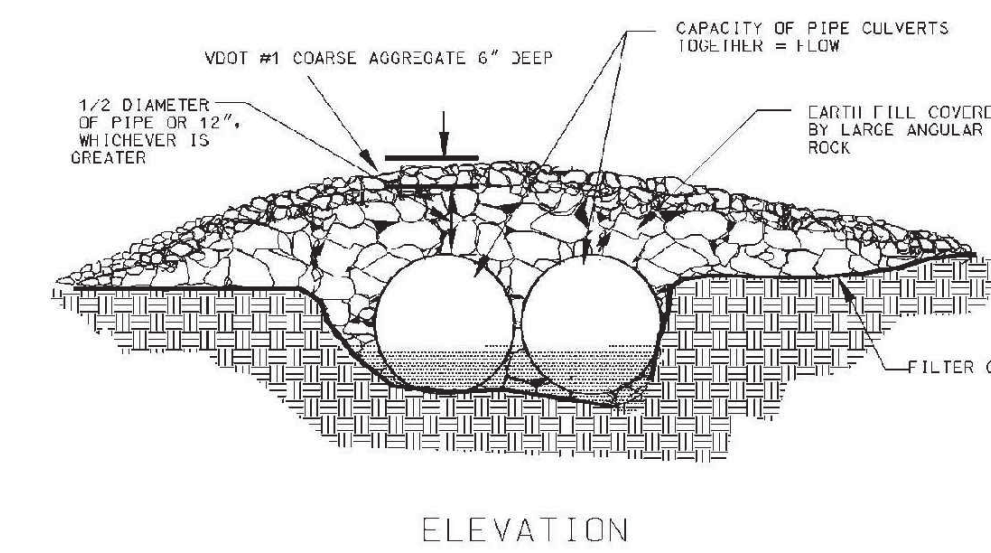
Notes:  
 Filter Fabric Underlining: A lining of engineering filter fabric (geotextile) shall be placed between the riprap and the underlying soil surface to prevent soil movement into or through the riprap. The filter fabric must have opening size equal to or greater than U.S. No. 50 sieve; tensile strength of at least 30 lb/linear in. and puncture strength of at least 80 lbs.  
 Filter Fabric shall not be used on slopes greater than 1 1/2:1 as slippage may occur and should be used in conjunction with a layer of coarse aggregate (granular filter blanket) when the riprap to be placed is Class II or larger.

PIPE OUTLET CONDITIONS

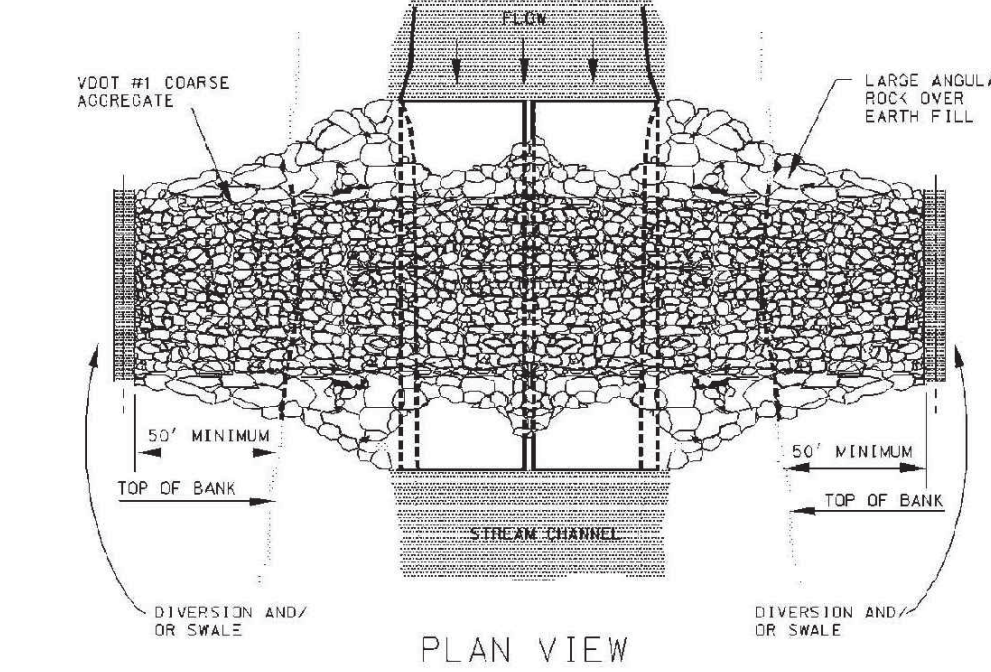


NOTES:  
 1. APRON LINING MAY BE RIPRAP, GROUDED RIPRAP, CASHION BASKET, OR CONCRETE.  
 2. L a IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18-3 AND 3.18-4.  
 3. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6 INCHES.

TEMPORARY CULVERT CROSSING - 3.24

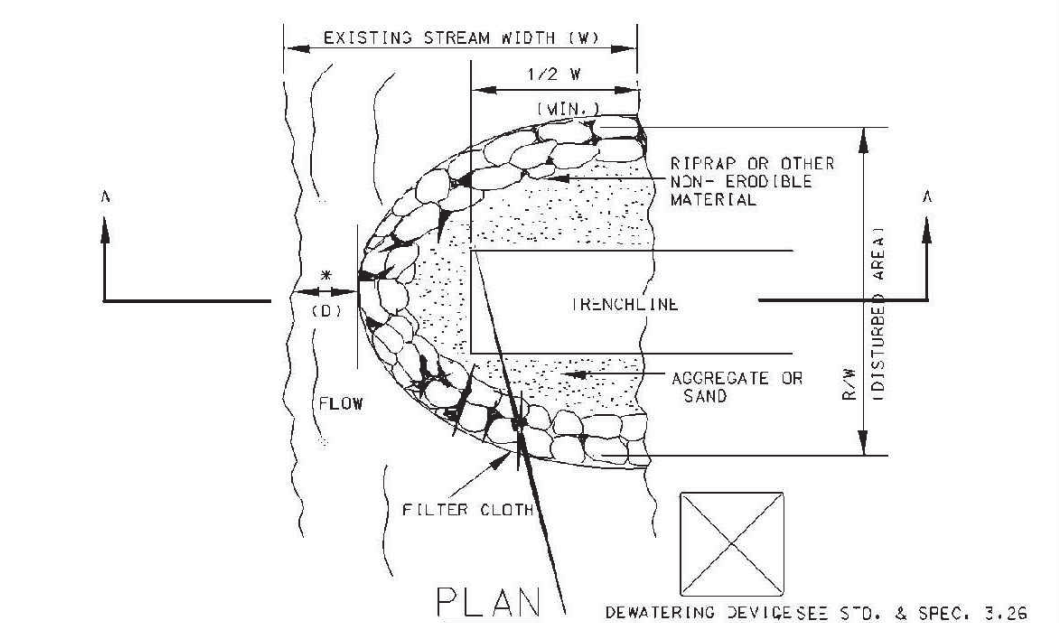


ELEVATION

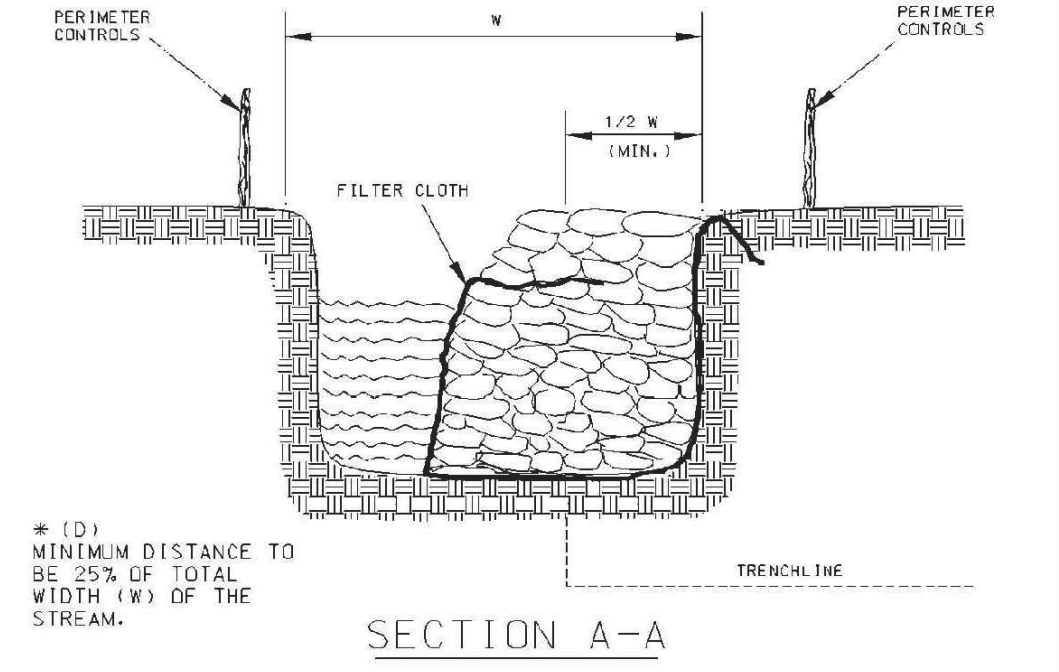


PLAN VIEW

COFFERDAM CROSSING - 3.25



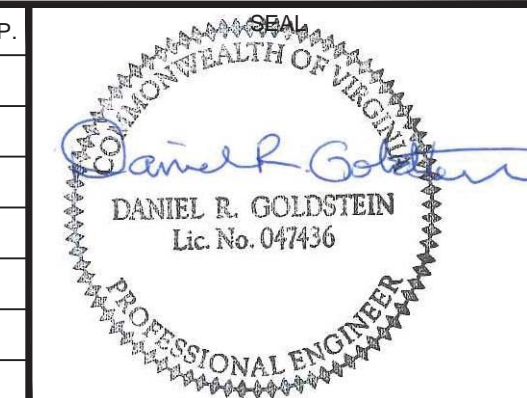
PLAN



SECTION A-A

GENERAL NOTES AND COMMENTS:

SYM.	DATE	BY	REVISION INFORMATION	PROJECT/TASK	APP.
△	06/08/17	WTS	ISSUED FOR REVIEW		

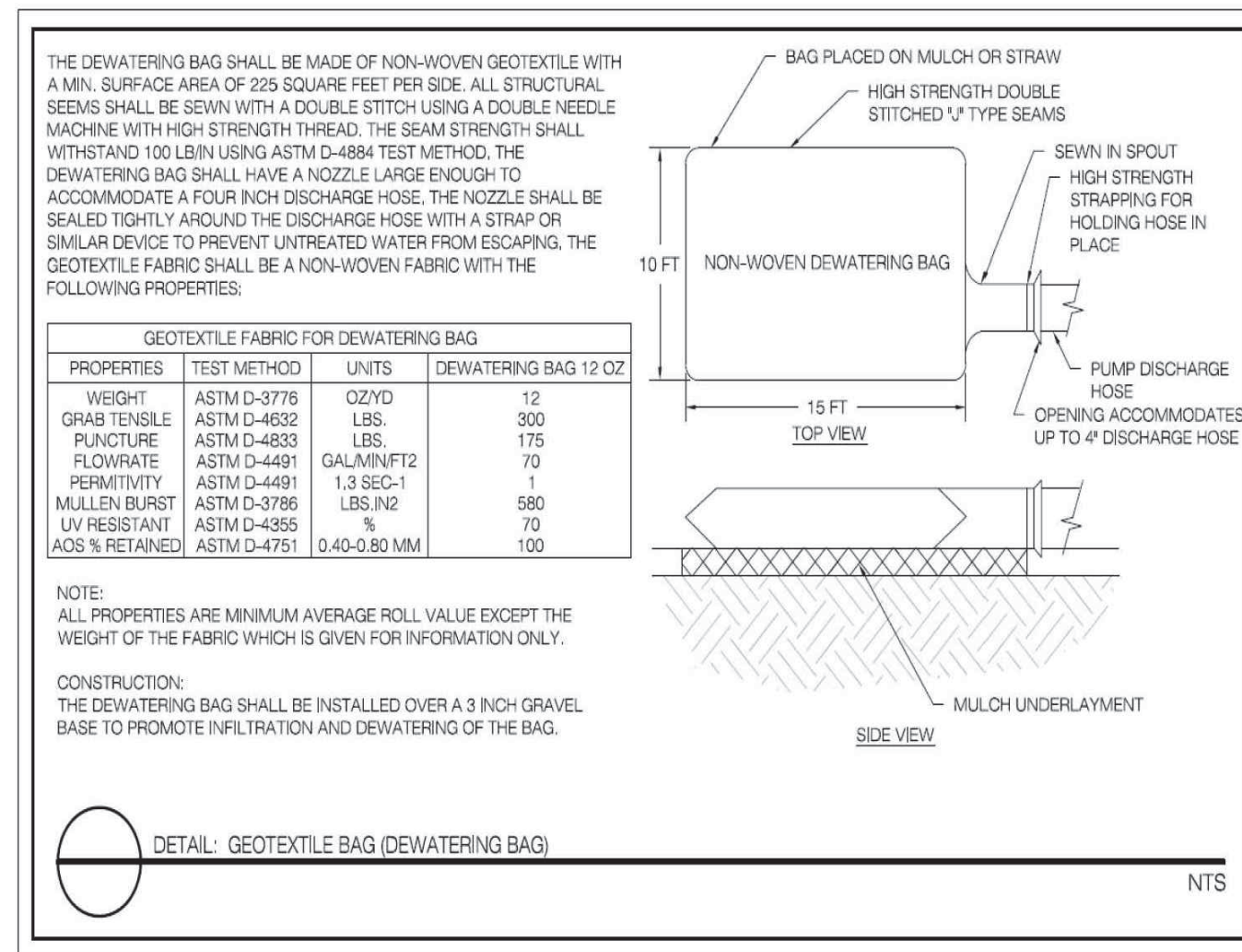


Environmental Resources Management	DRAWN:	NJB	06/08/17
	CHECKED:	WT	06/08/17
	APP. FOR BID:		
	APP. FOR CONST.:		
	SCALE:	AS NOTED	

<b>Atlantic Coast Pipeline, LLC</b>			
925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000			
TITLE: ATLANTIC COAST PIPELINE EROSION AND SEDIMENT CONTROL PLAN DETAILS			
DISTRICT:	COUNTY:	STATE: VA	GROUP: DWG. NO.
DIR/FILE:	ACPI/Virginia		16 OF 17
			0



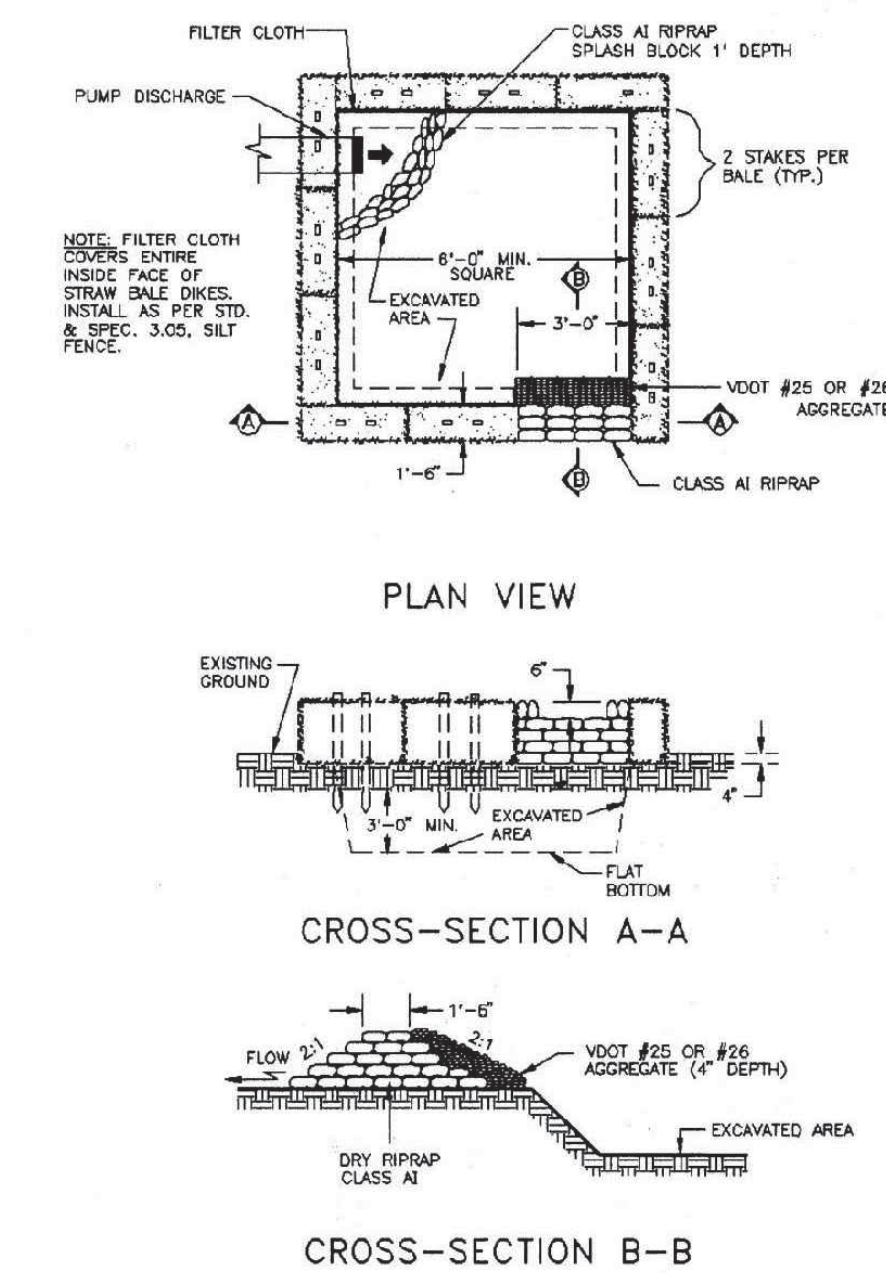
GEOTEXTILE/DEWATERING BAG



1992

3.26

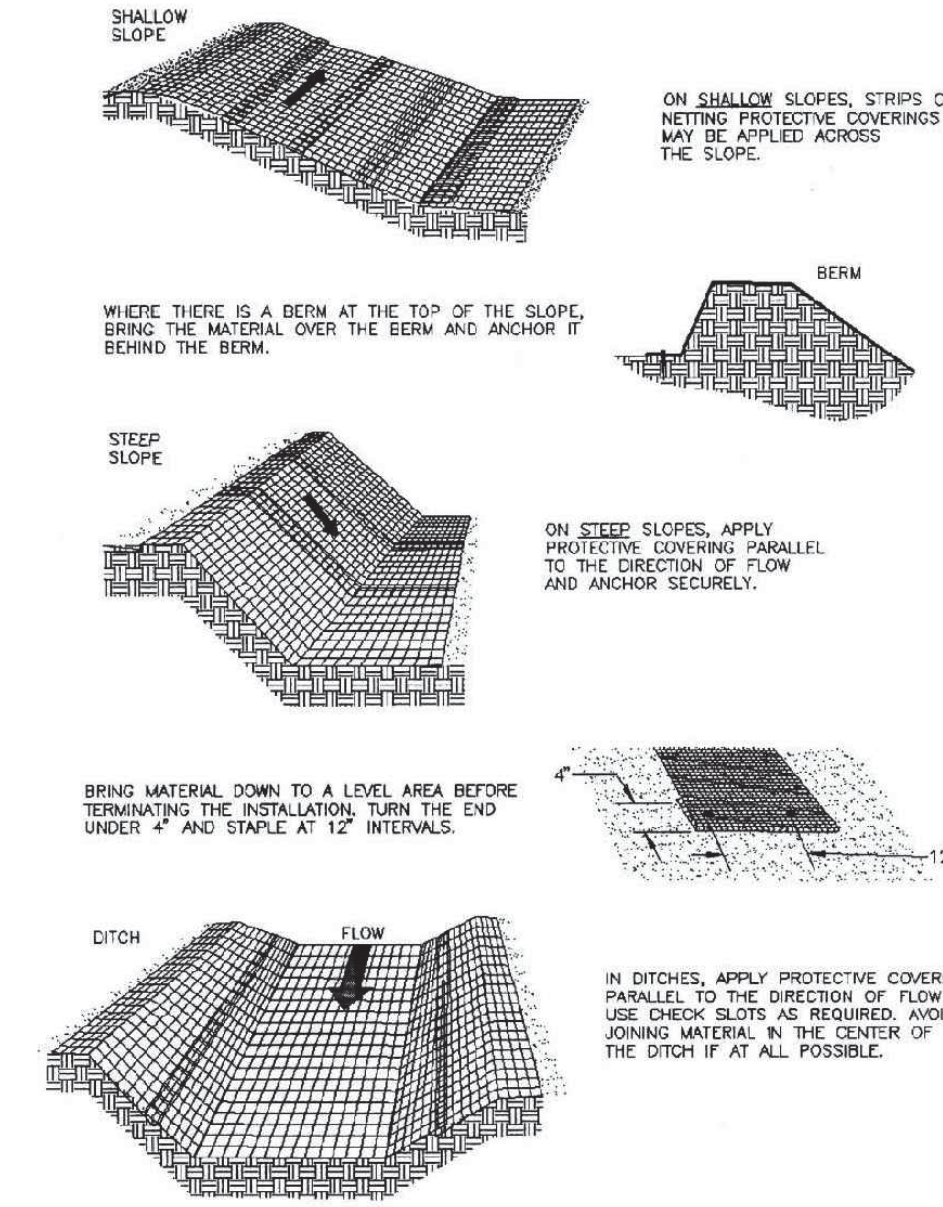
STRAW BALE/SILT FENCE PIT



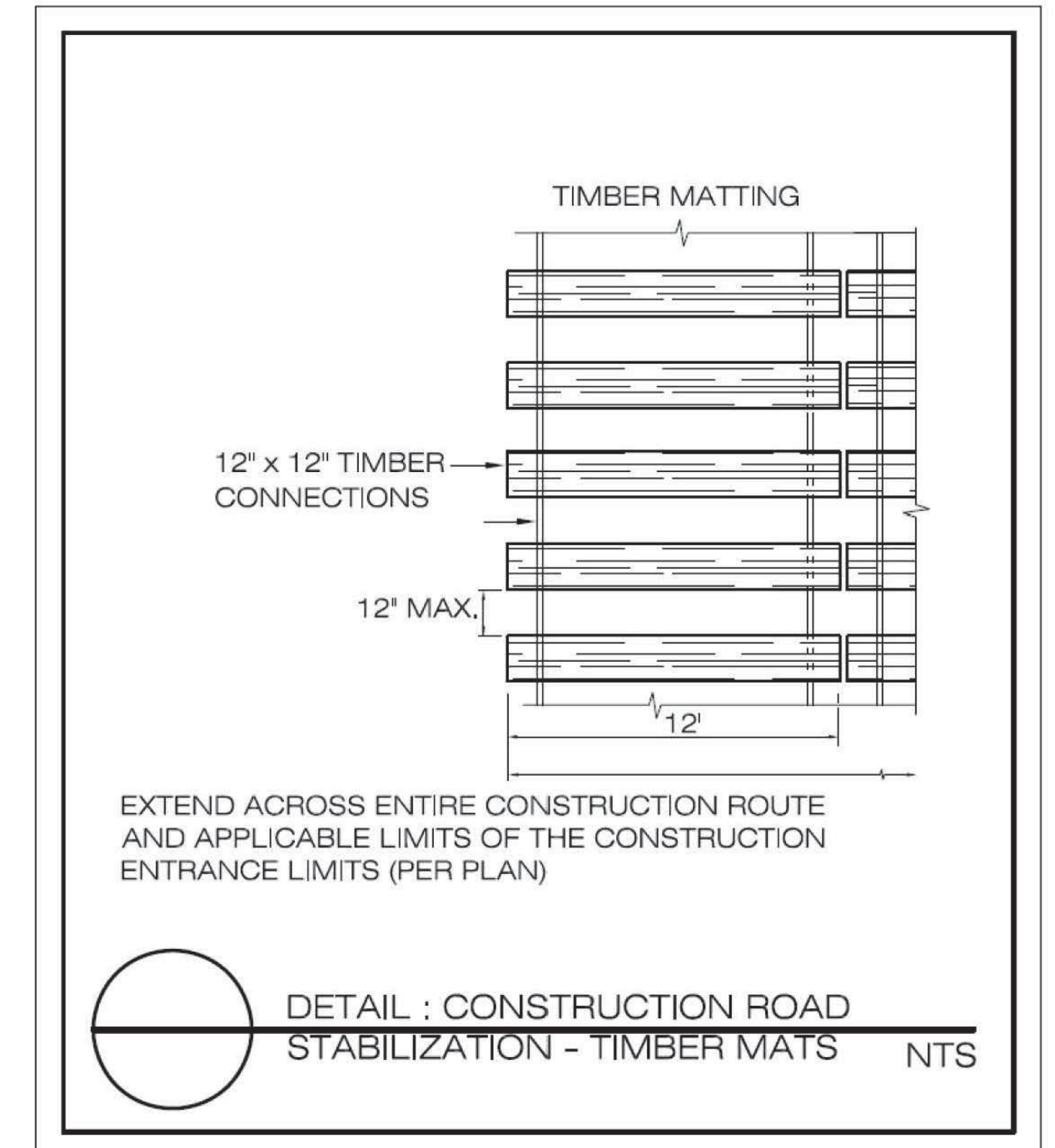
1992

3.36

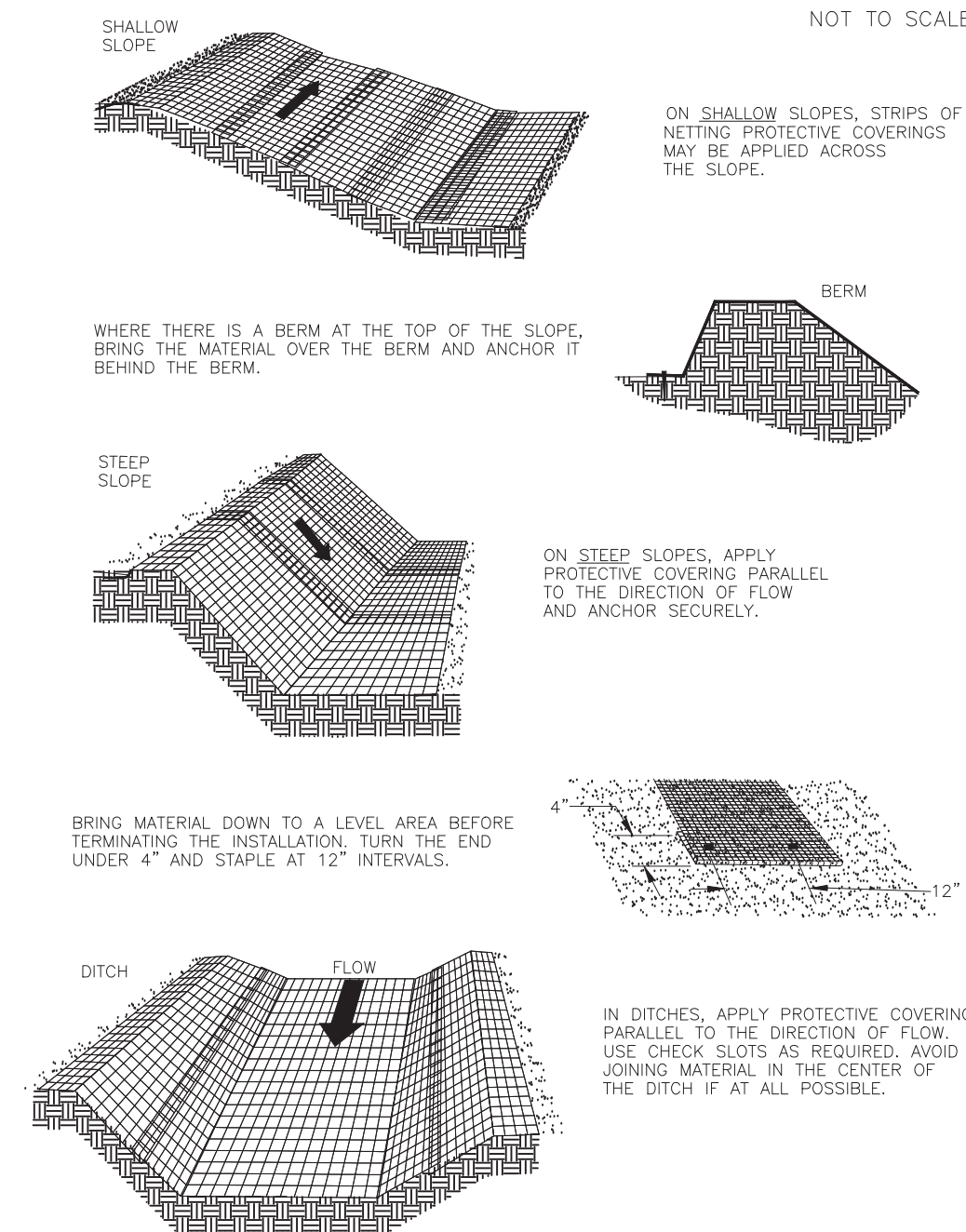
TYPICAL ORIENTATION OF TREATMENT - 1 (SOIL STABILIZATION BLANKET)



TIMBER MAT STABILIZATION



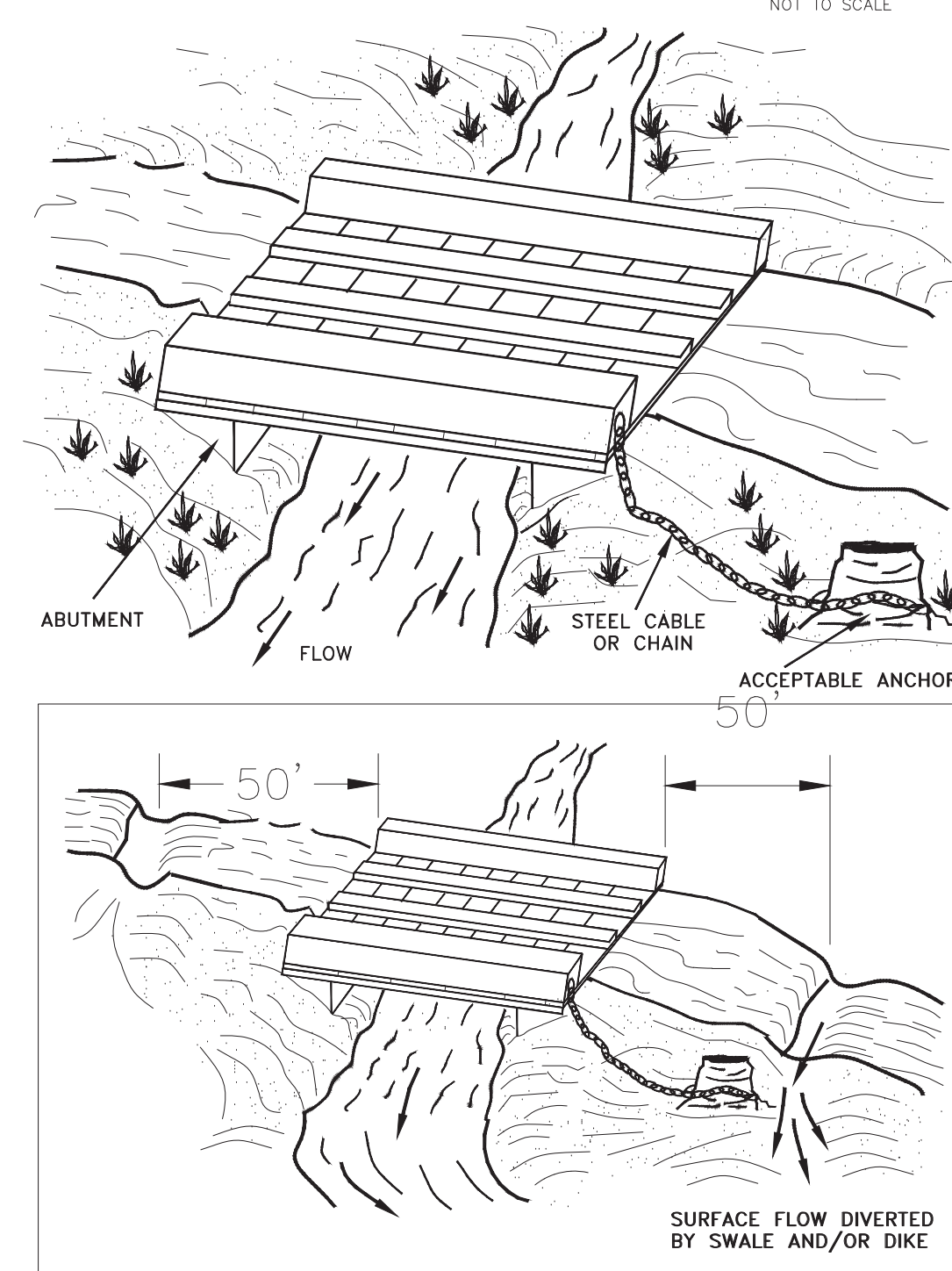
TYPICAL ORIENTATION OF TREATMENT - 1 (SOIL STABILIZATION BLANKET)



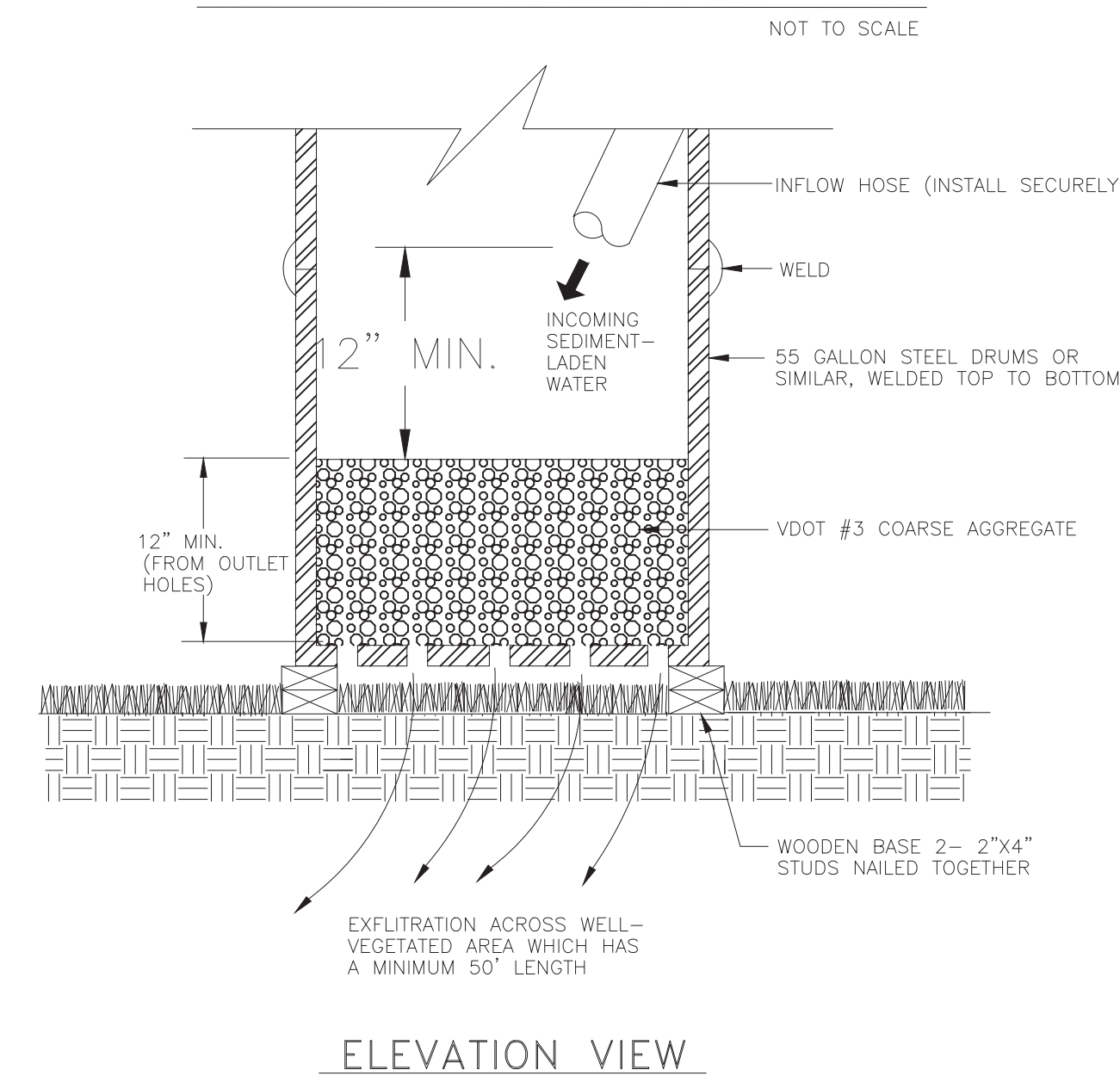
NOTES

1. EROSION CONTROL MATS/BLANKETS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

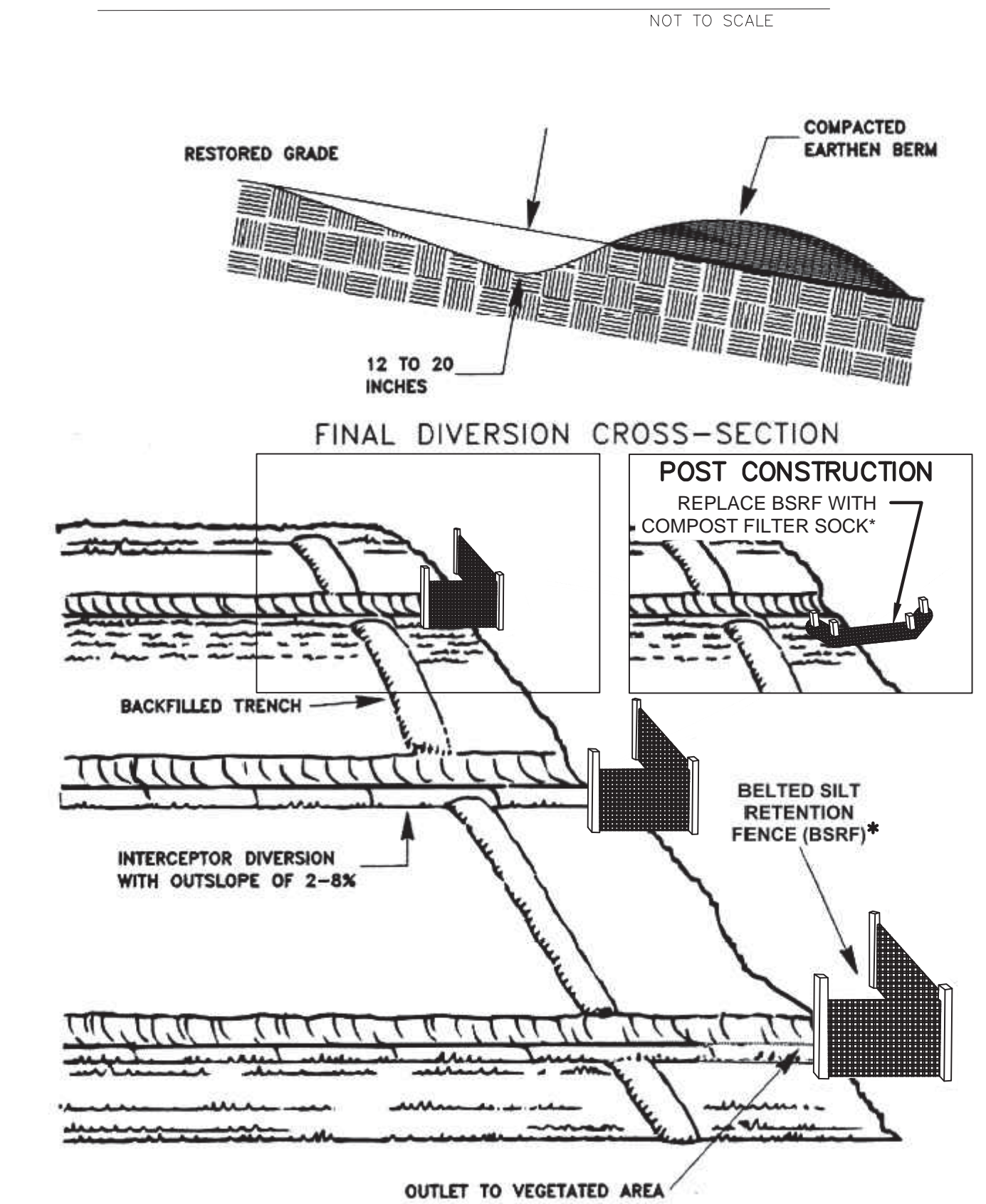
TEMPORARY BRIDGE CROSSING



FILTER BOX



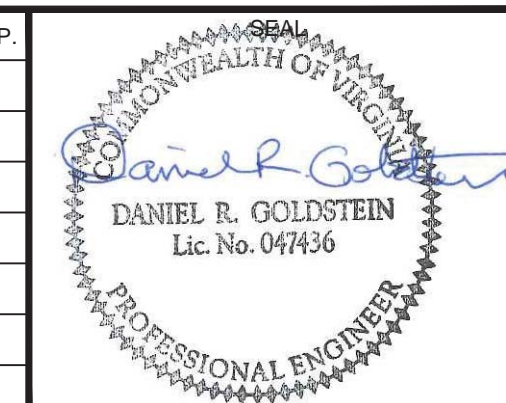
RIGHT-OF-WAY DIVERSION



\*CONTRACTOR MAY SUBSTITUTE STRAW WATTLES, COIR LOGS, MULCH SOCK OR SIMILAR BMP. FURTHER, SALVAGED OR IMPORTED ROCK MAY ALSO BE USED TO REDUCE VELOCITY AND DISTRIBUTE FLOW.

GENERAL NOTES AND COMMENTS:

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Environmental Resources Management	ERM
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SCALE:	AS NOTED

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DIR/FILE:	ACPI/Virginia	DWG. NO.:	17 OF 17
		REV.:	0