

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Resources

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,

Nashville, Tennessee, 37243

1-888-891-8332 (TDEC)

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

OFFICIAL STATE USE ONLY Site	#:			Permit	t #:	NR24	07.50	
Section 1. Applicant Information (individual responsible for site, signs certification below)								
Applicant Name (company or individual): Jones Bros. Contractors, LLC SOS #: 0000305296 Status: Active					Status: Active			
Primary Contact/Signatory: Andrew Wall			Signatory's Title or Position: President					
Mailing Address: 1010 Pleasant Grove Pla	ace, Suite 300		City: Mt. J	uliet			State: TN	Zip: 37122
Phone: 615-864-7388	Fax:		E-mail: aw	all@jor	nesbro	oscont.co	m	
Section 2. Alternate Contact/Consultant	nformation (a c	onsultant is n	ot required)					
Alternate Contact Name:								
Company:			Title or Po	sition:				
Mailing Address:			City:				State:	Zip:
Phone:	Fax:		E-mail:			_		
Section 3. Fee (application will be incomple	ete until fee is re	ceived)						
No Fee III Fee Sul	omitted with App	lication		Amoun	nt Subn	nitted: \$	500	
Current application fee schedules can be found at the Division of Water Resources webpage at: https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permitaraphtml or by calling (615) 532-0625. Please make checks payable to "Treasurer, State of Tennessee".								
Billing Contact (if different from Applicant):	Name	e:				Ema	il:	
Address:				Phone	ə:			
Section 4. Project Details (fill in information	on and check ap	oropriate boxe	es)					
Site or Project Name: CNV009 - Miller Waste Area Nearest City, Town or Major Landmark: Crossville					ossville			
Street Address or Location (include zip): 1	32 Maynard							
County/ies): Cumborland		MS4 Juriso	diction: N/	Δ	Latitu	ide (dd.d	ddd): 36.0441	
County(ies): Cumberland			EN/.		Long	itude (dd	. dddd): -85.05	56
Resources Proposed for Alteration:	Stream / Riv		Wetland		Rese			
Name of Water Resource (for more informa	tion, access http	://tdeconline.	tn.gov/dwr)	: Scott (Creek ((TN06010	208013_0500))
Brief Project Description (a more detailed d	escription is requ	uired under S	ection 8): Fill	of wetland	d for TDC)T support ar	ea and potential fu	ture commercial development
Does the proposed activity require approval from the U.S. Army Corps of Engineers, the Tennessee Valley Authority, or any other federal, state, or local government agency?								
If Yes, provide the permit reference numbers: USACE NWP #18 Non-PCN								
Will the activity require a 401 Water Quality Certification:								
If Yes, attach any 401 WQC pre-filing meeting request documentation								
Is the proposed activity associated with a larger common plan of development:								
If Yes, submit site plans and identify the l	ocation and ove	rall scope of t	the common	i plan o	of deve	lopment.		
Plans attached? Yes No If applicable, indicate any other federal, sta development) that have been obtained in th	te, or local perm ie past (e.g., cor	its that are as istruction gen	sociated wit eral permit	th the o and/or o	overall other A	project si ARAP): []	te (common FNR17259	plan of)1

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Section 5. Project Schedule (fill in information and check appropriate boxes)					
Proposed start date: July 2024	Estimated end date	e: September 2027			
Is any portion of the activity complete now?	Yes	No			
If yes, describe the extent of the completed portion:					

The required information in Sections 6-11 must be submitted on a separate sheet(s) and submitted in the same numbered format as presented below. If any question in not applicable, state the reason why it is not applicable.

Section 6. Description			ched No
6.1	A narrative description of the scope of the project		
6.2	USGS topographic map indicating the exact location of the project (can be a photographic copy)		
6.3	Photographs of the resource(s) proposed for alteration with location description (photo locations should be noted on map)	•	
6.4	A narrative description of the existing stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation		
6.5	A narrative description of the proposed stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	-	
6.6	In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points	⊡	
6.7	A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site		
r		Atta	ched

Section 7. Project Rationale	Yes	
Describe the need for the proposed activity, including, but not limited to the purpose, alternatives considered and rationale for selection of least impactful alternative, and what will be done to avoid or minimize impacts to water resources		

Section 8. Technical Information		
8.1	Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5.x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions (e.g., stream cross sections where road crossings are proposed)	
8.2	For the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods and any proposed monitoring	
8.3	Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations and any other measures to treat, control, or manage impacts to waters	

Section 9. Water Resources Degradation (degree of proposed impact)

Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than *de minimis* degradation to water quality.

Please provide your basis for concluding the proposed activity will cause one of the following levels of water quality degradation;



De minimis degradation, no appreciable permanent loss of resource values

Greater than de minimis degradation (if greater than de minimis complete Sections 10-11)

For information and guidance on the definition of de minimis and degradation, refer to the Antidegradation Statement in
Chapter 0400-40-0306 of the Tennessee Water Quality Criteria Rule:
https://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm
For more information on anapitics on what Conom! Permits can cover refer to the Natural Resources Unit webnade at:

For more information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at https://www.tn.gov/environment/permit-permits/water-permits1/aquatic-resource-alteration-permit--arap-.html

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Section 10. Detailed Alternatives Analysis			hed No
10.1	Analyze all reasonable alternatives and describe the level of degradation and permanent loss of resource value caused by each alternative. Assessment must consider options other than the "Preferred" and "No Action" alternatives. Provide associated rationale for selecting or rejecting all alternatives considered and demonstration that the least impactful practicable alternative was selected.		⊡
10.2	Discuss the social and economic consequences of each alternative		
10.3	Demonstrate that the degradation associated with the preferred alternative will not violate water quality criteria for uses designated in the receiving waters, and is necessary to accommodate important economic and social development in the area		

Section 11. Compensatory Mitigation			hed No
11.1	A detailed discussion of the proposed compensatory mitigation. Provide evidence of credit reservation if proposing to utilize a third-party provider.		⊡
11.2	Analysis of any proposed appreciable loss of resource value using the TN Stream Mitigation Guidelines. Provide Stream Quantification Tool (SQT) results if applicable. Include Existing Condition Score (ECS) and debit/credit calculations.		
11.3	Describe how the compensatory mitigation would result in no net loss of resource value		
11.4	Provide a detailed monitoring plan for the compensatory mitigation site if permittee-responsible project is proposed		
11.5	Describe the long-term protection measures for the compensatory mitigation site if permittee-responsible project is proposed (e.g., deed restrictions, conservation easement)		•

Certification and Signature

An application submitted by a corporation must be signed by a principal executive officer; from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee. I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury. The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.

Andrew Wall	President	A. Duhl	6117/24
Printed Name	Official Title	Signature / U	Date

Note that this form must be signed by the principal executive officer, partner or proprietor, or a ranking elected official in the case of a municipality; for details see **Certification and Signature** statement above. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed ARAP Application form (keep a copy for your records) to the appropriate EFO for the county(ies) where the proposed activity is located, addressed to **Attention: ARAP Processing**. You may also electronically submit the complete application and all associated attachments to water.permits@tn.gov.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy., Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601





Jones Bros. Contractors, LLC – Minor Alterations to Wetlands General Aquatic Resource Alteration Permit Fill of Wetland

*The numbering scheme below follows TDEC's Form CN-1091

Section 6: Description

6.1 Narrative Description of the Scope of the Project

Jones Bros. Contractors, LLC (Jones) is proposing the filling of a small wetland for an associated TDOT support area located at 132 Maynard Road, Crossville, Cumberland County, TN. Jones is proposing filling within the project boundary using material from the associated TDOT project (CNV009) and will result in the taking of the wetland as well as a non-jurisdictional farm pond.

6.2 USGS Topographic Map showing the location of the project.

See attached Figures 1 and 2.

6.3 Photographs

See the attached photo summary and photo location indicated in Figure 3.

6.4 Narrative Description of Existing Stream and/or Wetland Characteristics

WTL-1 is a small low-quality wetland feature located at the downgradient toe of the existing (non-jurisdictional) farm pond. The feature possesses only herb stratum, no riparian tree coverage with only 5% redox depletions noted within the soil matrix. The total area of the feature measures 0.04 acres.

The attached photographic summary depicts conditions present along the stream during the site visit.

6.5 Narrative Description of Proposed Stream and/or Wetland Characteristics

During Stage 1 of the attached EPSC plans, WTL-1 will be protected from impact using silt fence and outfall protection until ARAP coverage is attained. Once ARAP coverage is attained, WTL-1 will be permanently filled during Stage 2. Disturbance caused during the placement of proposed fill will be stabilized permanent seed mixture and erosion control blanket (if necessary).

6.6 Wetlands

See the attached Jurisdictional Determination (and Amendment 1) for wetland delineation forms & Figure 2 – Hydrologic Feature Location Map, as well as TDEC concurrence.

CEC Project # 322-231



6.7 Hydrologic or Jurisdictional Determination Documents

A hydrologic determination by a qualified hydrologic professional, William Methvin, QHP 1221-TN22. The feature's status has been determined to be a wetland. The hydrologic determination was submitted to TDEC for concurrence, which responded with agreement of the wetland determination performed by CEC.

Section 7: Project Rationale

The use of this location for a TDOT support area will enable the usage of soil waste material generated by the adjacent TDOT Project CNV009. In addition, the proposed fill site will provide the property owner with an opportunity to develop portions of their property that could not be previously utilized due to the presence of an aquatic feature. Three project alternatives were considered.

The first alternative considered was a no-build option. This alternative was determined not to be feasible because the location is needed to provide support activities for TDOT Project CNV009. Additionally, this location is preferrable due to its close proximity with the TDOT project. Other potential locations would have increased the hauling distance between the site and the TDOT project.

The second alternative considered was a revised site plan that provided maximum grading extents as shown within Stage 2 of the EPSC plans. This alternative was determined not to be feasible because the proposed volume of fill required for the TDOT project waste is greater than what the site would be able to accept.

The third alternative considered was to fill in WTL-1 and extend the grading to the Limits of Disturbance shown within the EPSC plans. This alternative was determined to be feasible because it provided the volume of fill required for the TDOT project waste without encroaching within the buffer of WTL-2.

Temporary erosion and sediment controls will be implemented to ensure sediment resulting from project construction will remain onsite. EPSC measures will be installed downgradient of proposed disturbances according to the attached EPSC plans and will be maintained until final stabilization is achieved.

Section 8: Technical Information

8.1 Detailed Plans

Please see the attached construction plan typical details.



8.2 Sequencing of events

The proposed construction will not begin until all materials necessary for the proposed fill site are available on-site. Effort will be made to schedule work when site conditions are as dry as practicable. An experienced contractor will perform the work. Due to the degree of the proposed impact, no mitigation is proposed.

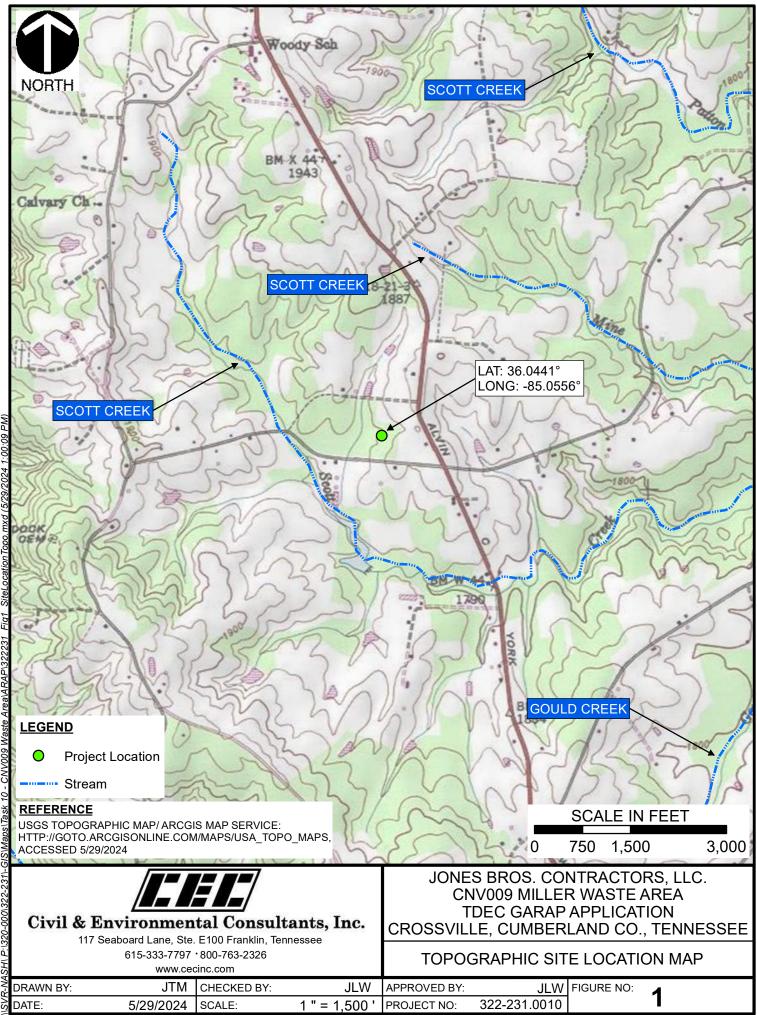
See the attached EPSC plans for additional sequencing of construction.

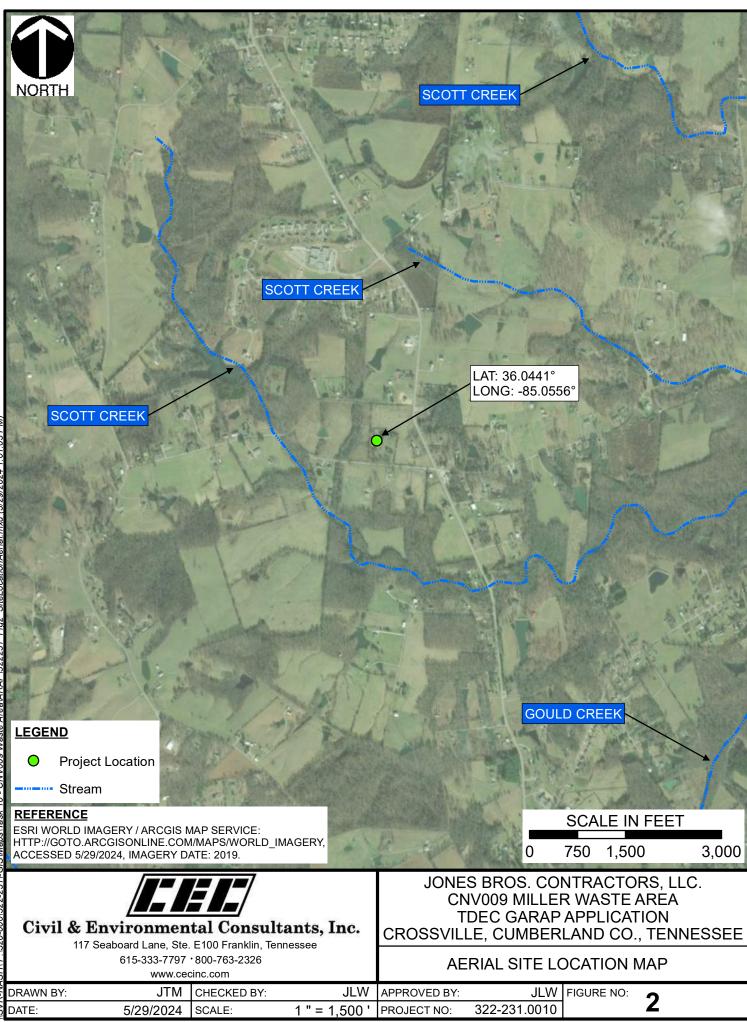
8.3 Erosion Prevention and Sediment Controls (EPSC)

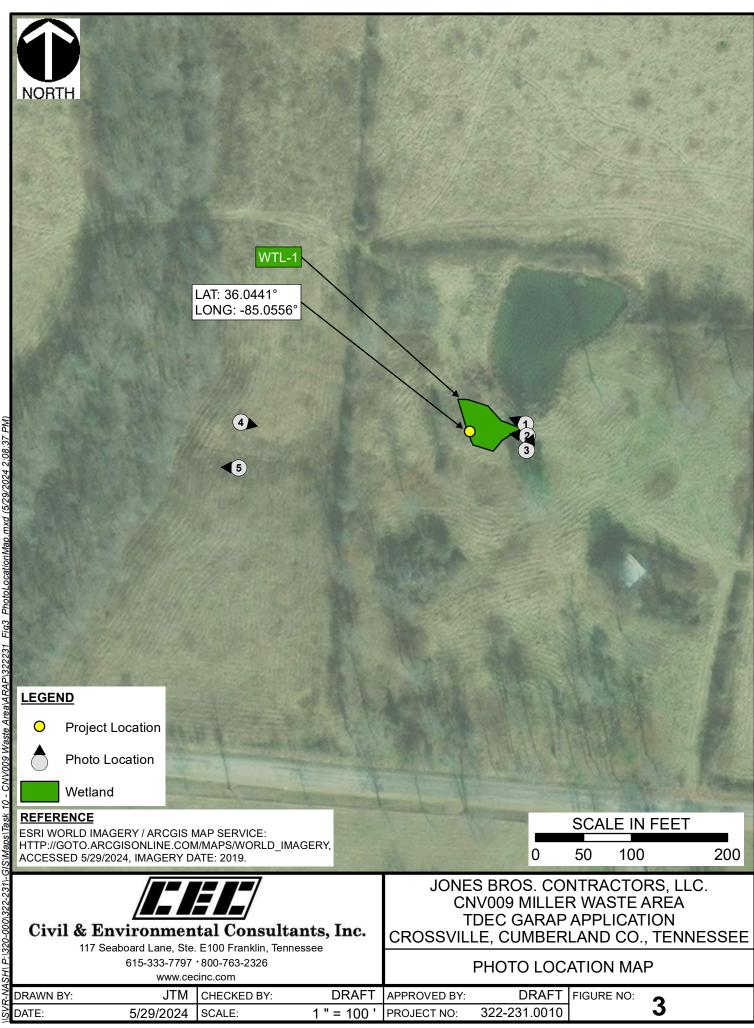
All proposed fill work will be performed when site conditions are as dry as practicable. Silt fence and outfall protection will remain in place downgradient of the disturbance during Stage 1. Once fill activities are completed, the associated disturbance will be stabilized using seed and erosion control blanket (if necessary). The site will not be considered stabilized until the disturbed area has achieved final stabilization as defined by Tennessee's Construction General Permit.

The Contractor is responsible for and must maintain the quality of the water discharged from this construction site. The construction activities shall be carried out in a manner that will prevent violations of water quality criteria as stated in Rule 1200-4-3-.03 of the Rules of the Tennessee Department of Environment and Conservation. This includes, but is not limited to, the prevention of any discharge that causes a condition in which solids, bottom deposits, or turbidity impairs the usefulness of this water for any of the uses designated by Rule 1200-4-4.

All EPSC control measures must be properly installed and maintained in accordance with TDEC's Erosion & Sediment Control Handbook, 4th Edition. The Contractor is responsible for maintaining the effectiveness of the controls and must replace or modify the controls if they are deemed no longer effective.







(5/29/2024 2:08:37 Dhoto Fig3 CNV009 Waste Area\ARAP\32231 5 S\Maps\Task 1320-000 SVR-NASH



Photo 1 – General view looking northwest (downgradient) toward WTL-1 from the adjacent farm pond (non-jurisdictional).



Photo 2 – General view looking northwest (downgradient) toward WTL-1 from the adjacent farm pond (non-jurisdictional).



Page 1 of 3





Photo 3 – General view looking northeast (upgradient) toward the adjacent farm pond (non-jurisdictional) from upgradient of WTL-1.



Photo 4 – General view looking southeast (upgradient) toward WTL-1 from downgradient location.

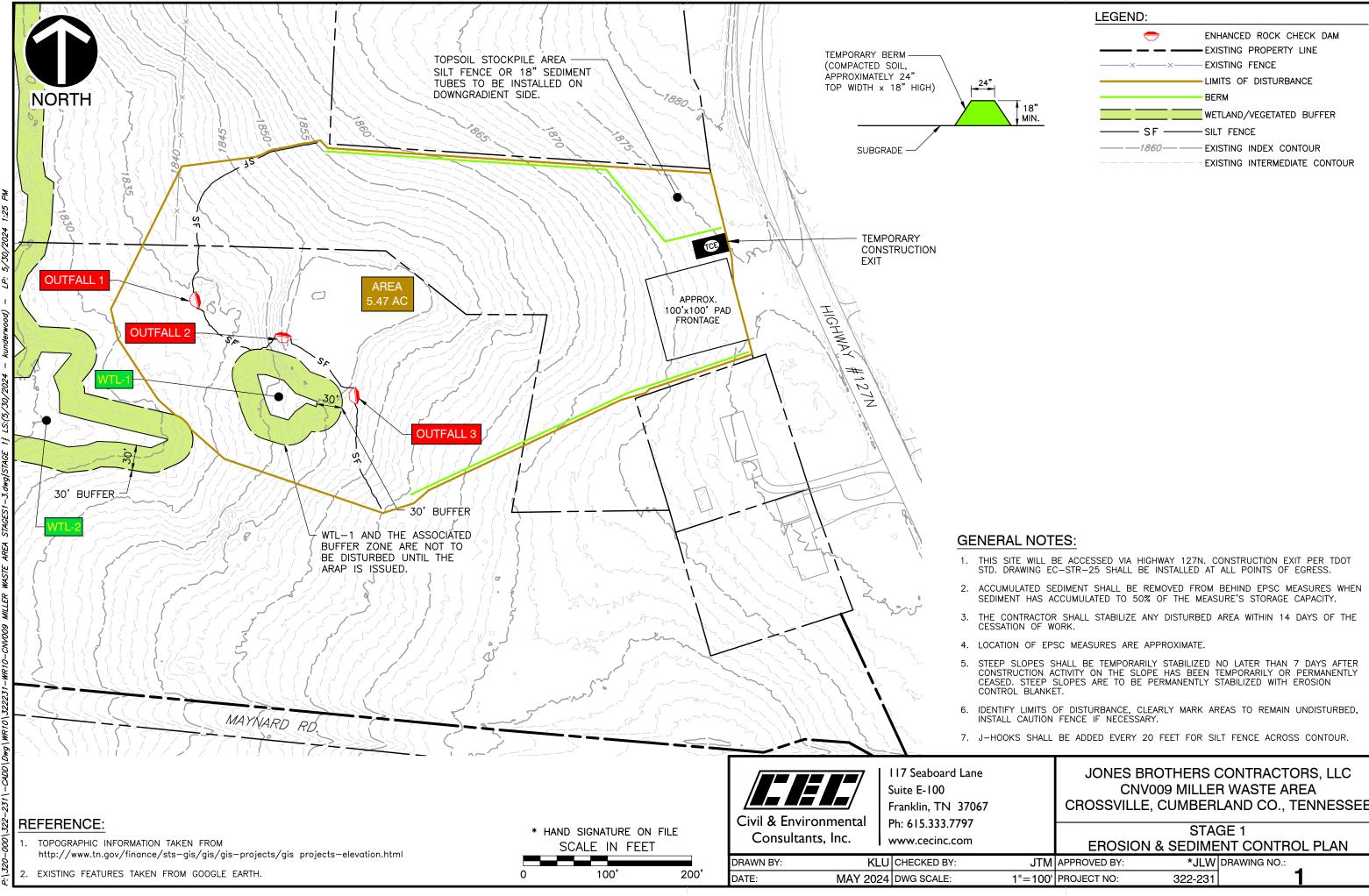


Page 3 of 3



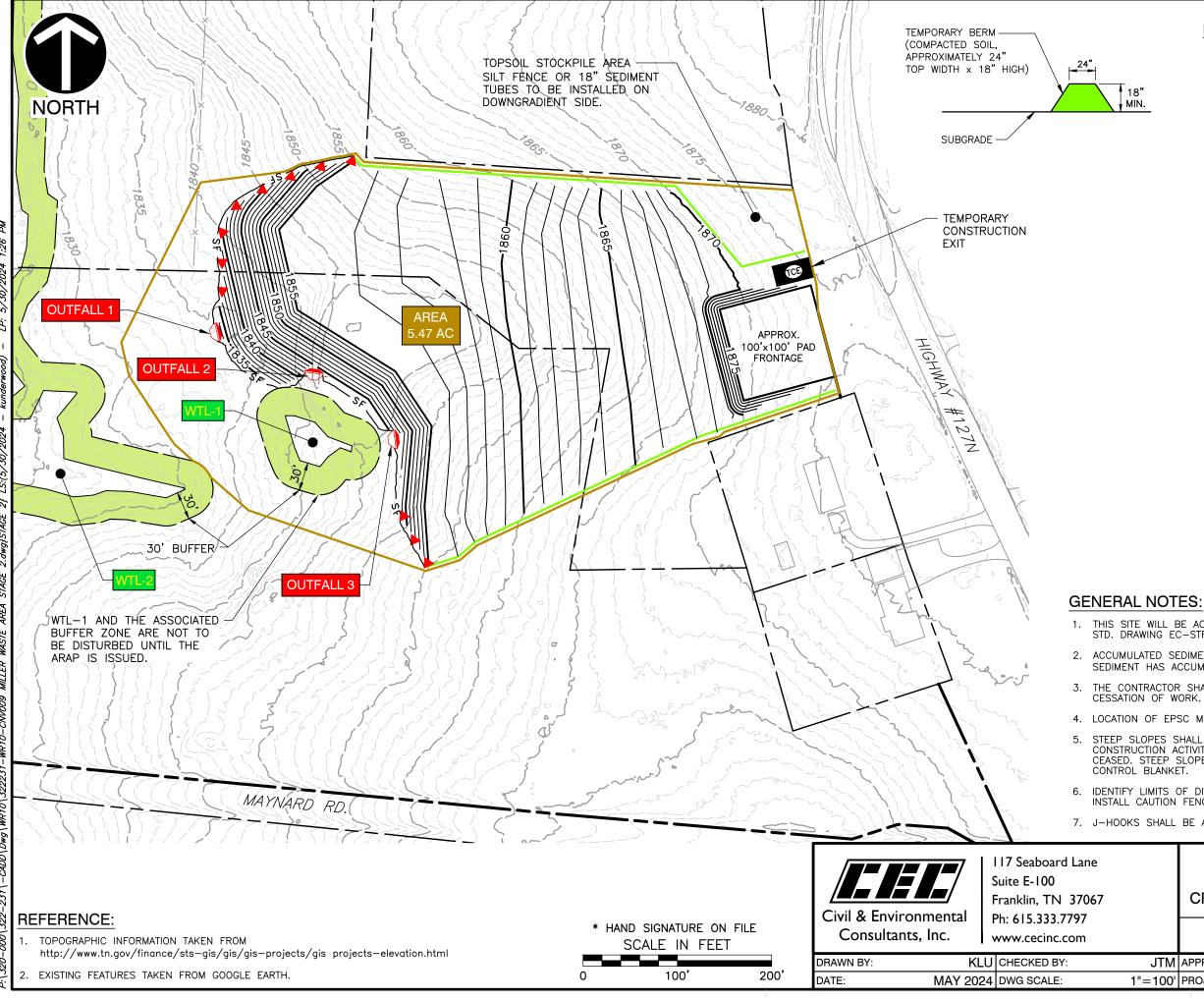
Photo 5 – General view looking west toward WTL-2 (not proposed for impact).

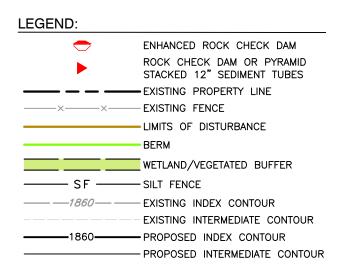




JONES BROTHERS CONTRACTORS, LLC
CNV009 MILLER WASTE AREA
CROSSVILLE, CUMBERLAND CO., TENNESSEE
STAGE 1

	STAGE 1 EROSION & SEDIMENT CONTROL PLAN			
JTM	APPROVED BY:	*JLW	DRAWING NO.:	
'=100'	PROJECT NO:	322-231		





1. THIS SITE WILL BE ACCESSED VIA HIGHWAY 127N. CONSTRUCTION EXIT PER TDOT STD. DRAWING EC-STR-25 SHALL BE INSTALLED AT ALL POINTS OF EGRESS.

2. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM BEHIND EPSC MEASURES WHEN SEDIMENT HAS ACCUMULATED TO 50% OF THE MEASURE'S STORAGE CAPACITY.

3. THE CONTRACTOR SHALL STABILIZE ANY DISTURBED AREA WITHIN 14 DAYS OF THE CESSATION OF WORK.

4. LOCATION OF EPSC MEASURES ARE APPROXIMATE.

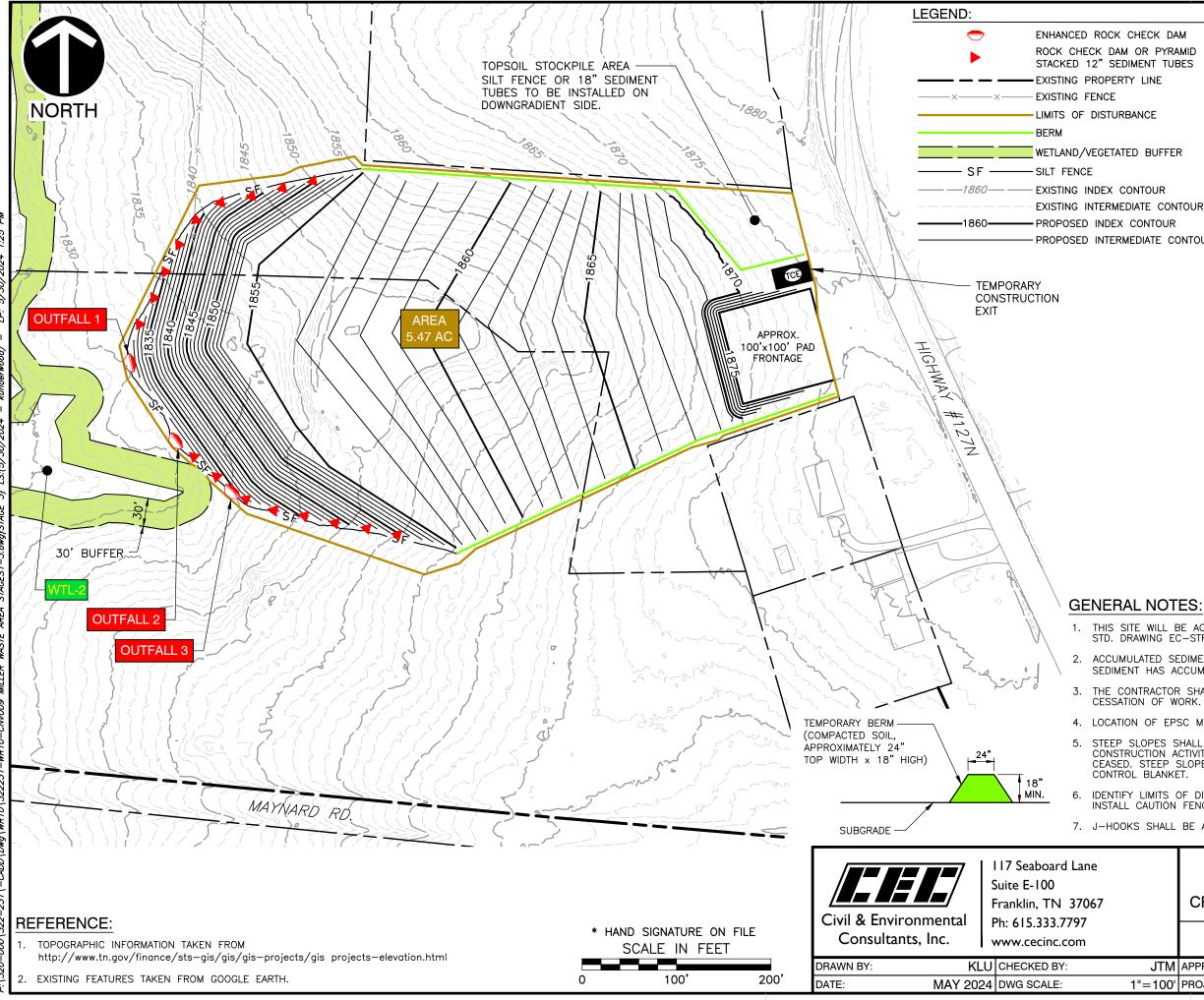
5. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED. STEEP SLOPES ARE TO BE PERMANENTLY STABILIZED WITH EROSION

6. IDENTIFY LIMITS OF DISTURBANCE, CLEARLY MARK AREAS TO REMAIN UNDISTURBED, INSTALL CAUTION FENCE IF NECESSARY.

7. J-HOOKS SHALL BE ADDED EVERY 20 FEET FOR SILT FENCE ACROSS CONTOUR.

JONES BROTHERS CONTRACTORS, LLC **CNV009 MILLER WASTE AREA** CROSSVILLE, CUMBERLAND CO., TENNESSEE

	EROSION	STA SEDIME & S	GE 2 INT CONTROL PLAN	
JTM	APPROVED BY:	*JLW	DRAWING NO.:	
'=100'	PROJECT NO:	322-231	2	



	918	.01-1: GRASS SEE	D
IECK DAM DR PYRAMID	SEED	GROUP "A" QUANTITY PER CENT BY WEIGHT	SEEDING DATES
ENT TUBES LINE	KENTUCKY 31 FESCUE KOREAN LESPEDEZA ANNUAL RYE GRASS	80% 15% 5%	FEBRUARY 1 – JULY 1
NCE	KENTUCKY 31 FESCUE KOREAN LESPEDEZA GERMAN MILLET	GROUP "B" 75% 15% 10%	JUNE 1 – AUGUST 15
BUFFER	BERMUDAGRASS (HULLED) ANNUAL LESPEDEZA	GROUP "B1" 70% 30%	APRIL 15 – AUGUST 15
ITOUR ITE CONTOUR	KENTUCKY 31 FESCUE ANNUAL RYE GRASS WHITE CLOVER	GROUP "C" 70% 20% 10%	AUGUST 1 – DECEMBER 1
ONTOUR DIATE CONTOUR	CROWN VETCH KENTUCKY 31 FESCUE ANNUAL RYE GRASS	GROUP "C1" 25% 70% 5%	FEBRUARY 1 – DECEMBER
	SHALL BE OVER SEEDED V 15 POUNDS PER ACRE. W	VITH SERICEA LESPI HEN OVER-SEEDING USE SCARIFIED SE R ACRE OF WEEPIN JSE UNHULLED SER	IS PERFORMED BETWEEN RICEA LESPEDEZA WITH AN G LOVEGRASS. BETWEEN ICEA LESPEDEZA. ONLY
	918.01	-6: TEMPORARY S	EEDING
	ANNUAL RYE GRASS KOREAN LESPEDEZA SPRING OATS	GROUP "D" 33-1/3% 33-1/3% 33-1/3%	JANUARY 1 – MAY 1
S	SORGHUM-SUDAN CROSSES ⁽ OR GERMAN MILLET ⁽²⁾	GROUP "E" ¹⁾ 100% 100%	MAY 1 - JULY 15
	CEREAL RYE ANNUAL RYE GRASS	GROUP "F" 66-2/3% 33-1/3%	JULY 15 – JANUARY 1
	⁽¹⁾ DEKALB SUDAN SX11, LI GHS-2A.	NDSEY 77F, TN FAF	RMER'S CO-OP GHS-1 OR

⁽²⁾GERMAN MILLET, GaHi-1

1. THIS SITE WILL BE ACCESSED VIA HIGHWAY 127N. CONSTRUCTION EXIT PER TDOT STD. DRAWING EC-STR-25 SHALL BE INSTALLED AT ALL POINTS OF EGRESS.

2. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM BEHIND EPSC MEASURES WHEN SEDIMENT HAS ACCUMULATED TO 50% OF THE MEASURE'S STORAGE CAPACITY.

THE CONTRACTOR SHALL STABILIZE ANY DISTURBED AREA WITHIN 14 DAYS OF THE

4. LOCATION OF EPSC MEASURES ARE APPROXIMATE.

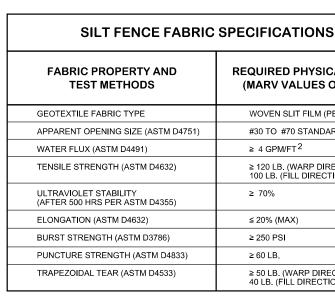
5. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NO LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS BEEN TEMPORARILY OR PERMANENTLY CEASED. STEEP SLOPES ARE TO BE PERMANENTLY STABILIZED WITH EROSION

6. IDENTIFY LIMITS OF DISTURBANCE, CLEARLY MARK AREAS TO REMAIN UNDISTURBED, INSTALL CAUTION FENCE IF NECESSARY.

7. J-HOOKS SHALL BE ADDED EVERY 20 FEET FOR SILT FENCE ACROSS CONTOUR.

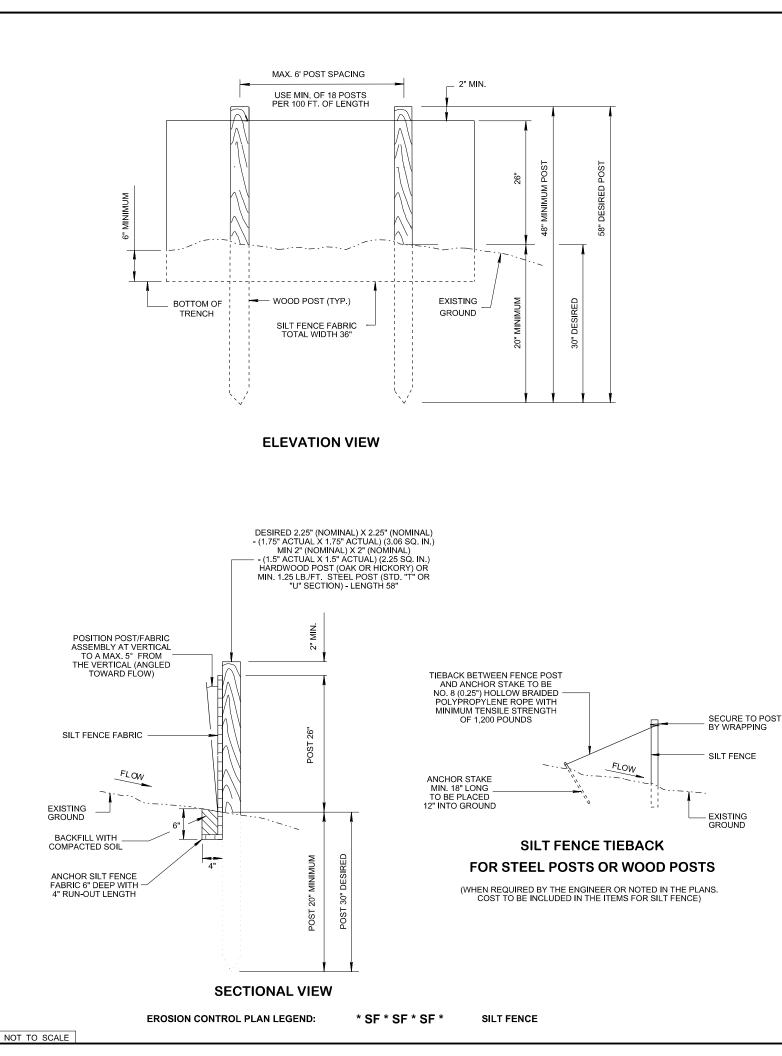
JONES BROTHERS CONTRACTORS, LLC
CNV009 MILLER WASTE AREA
CROSSVILLE, CUMBERLAND CO., TENNESSEE

	STAGE 3			
	EROSION	V & SEDIME	NT CONTROL PLAN	
JTM	APPROVED BY:	*JLW	DRAWING NO.:	
'=100'	PROJECT NO:	322-231	3	



SILT FENCE GENERAL NOTES SILT FENCE IS USED TO INTERCEPT SMALL AMOUNTS OF SEDIMENT AND REDUC NOT USE IT ADJACENT TO NATURAL WATER RESOURCES (WETLANDS OR STREA A THE MAXIMUM DRAINAGE AREA SIZE FOR A CONTINUOUS BARRIER SHALL BE 1// FENCE LENGTH UP TO A MAXIMUM DRAINAGE AREA OF 2 ACRES. MAXIMUM SLO SIDE SHALL BE 110 FEET (AS MEASURED ALONG THE GROUND SURFACE). В WHEN INSTALLED AT THE TOE OF A SLOPE, SILT FENCE SHOULD BE PLACED 5 F TO ALLOW SPACE FOR PONDING OF WATER, COLLECTION OF SEDIMENT, AND E (C) WHEN TWO SECTIONS OF SILT FENCE FABRIC ADJOIN EACH OTHER THEY SHAL D DETAILS ON STANDARD DRAWING EC-STR-3E. MAINTENANCE SHALL BE PERFORMED AS NEEDED; CAPTURED SOIL MATERIAL E DEVELOP IN THE SILT FENCE AND/OR OTHER EVIDENCE OF FILTER CLOGGING I (F)STEEL POSTS SHALL BE ROLLED FROM HIGH CARBON STEEL AND SHALL HAVE POSTS SHALL BE HOT-DIPPED GALVANIZED OR PAINTED WITH HIGH GRADE WE. STEEL POSTS SHALL BE EQUIPPED WITH AN ANCHOR PLATE HAVING A MINIMUL SHALL BE STUDDED, EMBOSSED, OR PUNCHED TO AID IN THE ATTACHMENT OF ANCHOR PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A702. G WHEN STEEL POSTS ARE USED THEY SHALL HAVE A PROJECTION FOR FASTENI FASTENERS SHOULD BE EVENLY SPACED WITH AT LEAST FIVE PER POST. IF THE FILTER MATERIAL IS STAPLED TO THE WOODEN STAKES, HEAVY DUTY W LENGTH AND 1 INCH WIDTH SHALL BE USED AND EVENLY SPACED WITH AT LEA: (H) SHALL NOT BE STAPLED TO TREES. SILT FENCES SHOULD BE PLACED ALONG OR NEAR THE GROUND CONTOUR. TH (\mathbf{I}) BE ON A ZERO PERCENT (0%) GRADE, PLUS OR MINUS FIVE TENTHS OF ONE PE SILT FENCE SHOULD BE TURNED UPSLOPE FORMING A J-HOOK TO FILTER ANY (\mathbf{j}) A PREASSEMBLED SILT FENCE MEETING THE REQUIREMENTS OF THIS DRAWING CONSTRUCTED SILT FENCE. STATIC SLICING IS THE PREFERRED METHOD OF FENCE INSTALLATION. STATIC (K) OF A NARROW CUTTING BLADE, PLACED AT THE SPECIFIED ANCHOR DEPTH FO THE APPLICABLE DETAIL, AND SIMULTANEOUSLY PULLING THE FENCE FABRIC I BEING EXCAVATED. ALTERNATE TRENCH-BASED METHODS ARE ALSO ACCEPTA WILL DISTURB WIDER THAN 4" IN-SITU SOIL SUCH AS BACKHOE. FOR TRENCH-B SILT FENCING SHALL BE INSTALLED PER THE FOLLOWING STEPS AND IN THE FO 1. EXCAVATE TRENCH A MAXIMUM OF 4 INCHES WIDE AND 6 INCHES DEEP FOLLOWING EXCAVATION TO REMOVE BULKY DEBRIS SUCH AS ROCKS, 2. INSTALL FABRIC IN TRENCH. 3. BACKFILL TRENCH (OVER-FILL) WITH SOIL PLACED AROUND FABRIC. COMPACT SOIL BACKFILL WITH MECHANICAL EQUIPMENT. DO NOT DAMA (DAMAGED FABRIC SHALL BE REPLACED). DRIVE AND SET SUPPORT POSTS PER SPACING REQUIREMENTS GIVEN O FOR PRE-ASSEMBLED SILT FENCE, DRIVE SUPPORT IN TO GROUND FIRS IN TRENCH 6. ATTACH FABRIC TO THE POSTS USING WIRE TIES OR STAPLES. SPACING SHALL BE INSTALLED AS DESCRIBED IN NOTES G AND H.

- ONLY SILT FENCE FABRIC LISTED ON THE QUALIFIED PRODUCTS LIST MAY BE U QUALIFIED PRODUCTS LIST AS AN APPROVED ALTERNATE MAY ALSO BE USED.
- SILT FENCE SHALL BE PAID FOR UNDER ITEM NUMBER 209-08.03 TEMPORARY S PAYMENT SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR CONST M THE SILT FENCE.
- SEDIMENT SHALL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE STRUCTURE AND PAID FOR UNDER ITEM NUMBER 209-05, SEDIMENT REMOVAL PER CUBIC YARD. (N)



REQUIRED PHYSICAL PROPERTIES (MARV VALUES OF TEST DATA)

WOVEN SLIT FILM (PER AASHTO M288)

#30 TO #70 STANDARD SIEVE

 \geq 4 GPM/FT²

≥ 120 LB. (WARP DIRECTION) X 100 LB. (FILL DIRECTION)

≤ 20% (MAX)

≥ 50 LB. (WARP DIRECTION) X 40 LB. (FILL DIRECTION)

ICE VELOCITY FROM SHEET FLOW ONLY. DO AMS) OR ACROSS CONCENTRATED FLOW PATHS.	
/4 ACRE PER 100 LINEAR FEET OF DPE LENGTH BEHIND FENCE ON UPSLOPE	
FEET TO 7 FEET AWAY FROM THE TOE EASE OF MAINTENANCE AND REMOVAL.	
LL BE JOINED ACCORDING TO THE	
SHALL BE REMOVED WHEN "BULGES" IS OBSERVED.	
A MINIMUM WEIGHT OF 1.25 LB/FT. EATHER RESISTANT STEEL PAINT. M AREA OF 14 SQUARE INCHES. POSTS F THE WIRE BACKING. POSTS AND	
ING WIRE TO THEM. THE WIRE	
VIRE STAPLES WITH ONE-HALF INCH IST FOUR PER POST. SILT FENCE FABRIC	
HE BOTTOM OF FENCE AT GROUNDLINE SHOULD ERCENT ((0.5%), THE ENDS OF A ROW OF CONCENTRATED FLOW BEHIND FENCE.	
IG IS ACCEPTABLE IN LIEU OF A FIELD	
C SLICING INVOLVES THE INSERTION OR THE GIVEN FABRIC AS SHOWN ON INTO THE TRENCH AS THE TRENCH IS ABLE. DO NOT USE EQUIPMENT THAT BASED INSTALLATIONS, OLLOWING ORDER:	
P. THE TRENCH SHALL BE HAND-CLEANED STICKS, AND SOIL CLODS FROM THE TRENCH.	
AGE THE FABRIC DURING COMPACTION	
ON THE APPLICABLE FENCE DETAIL. ST, FOLLOWED BY FABRIC PLACEMENT	
G AND DENSITY OF TIES OR STAPLES	
JSED. ANY PRODUCTS LISTED ON THE	
SILT FENCE (WITHOUT BACKING) PER LINEAR FOOT. TRUCTION, MAINTENANCE, AND REMOVAL OF	

REV. 12-18-03: MODIFIED TABLE (1) AND GENERAL NOTE (E)

REV. 7-29-04: CHANGED VALUES IN TABLE TFROM MEAN TO MARV VALUES.

REV. 4-15-06: REMOVED POA SPECS. FROM TABLE (1) ADDED NOTE (L) REVISED TABLE TITLE. REORDERED GENERAL NOTES. REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING

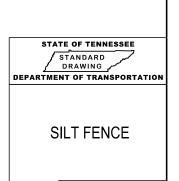
REV. 4-1-08: REMOVED TEMPORARY REFERENCE, REVISED NOTES, AND MISC. EDITS TO DRAWING.

REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.

REV. 3-16-17: CHANGED SECOND NOTE M TO NOTE N.

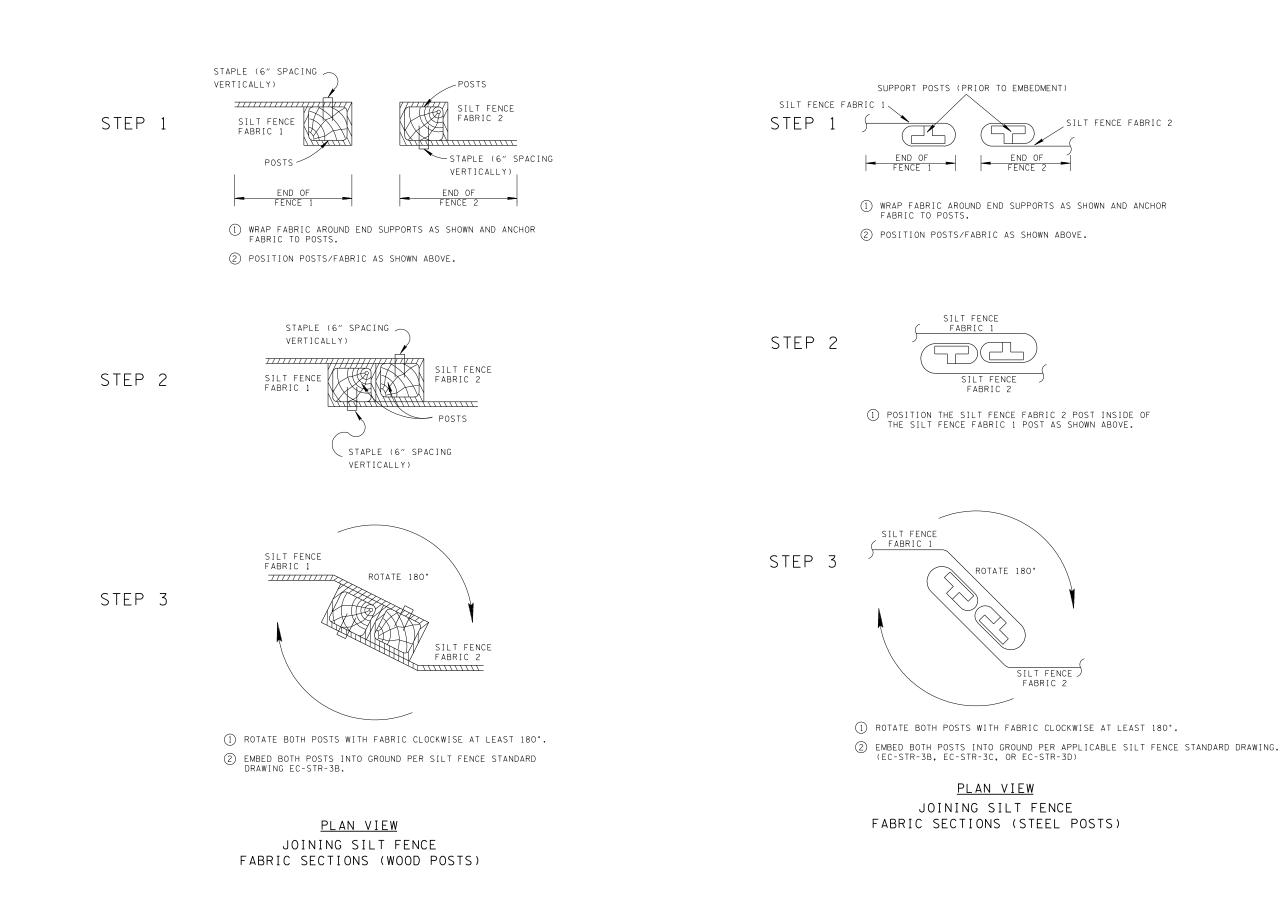
REV. 05-01-20: ADDED AASHTO REFERENCE IN TABLE, UPDATED GENERAL NOTES (K) AND REDREW SHEET.

REV: 06-15-21: ADDED ALTERNATE POST SIZE AND REVISED POST EMBEDMENT LENGTH.



12-18-2002

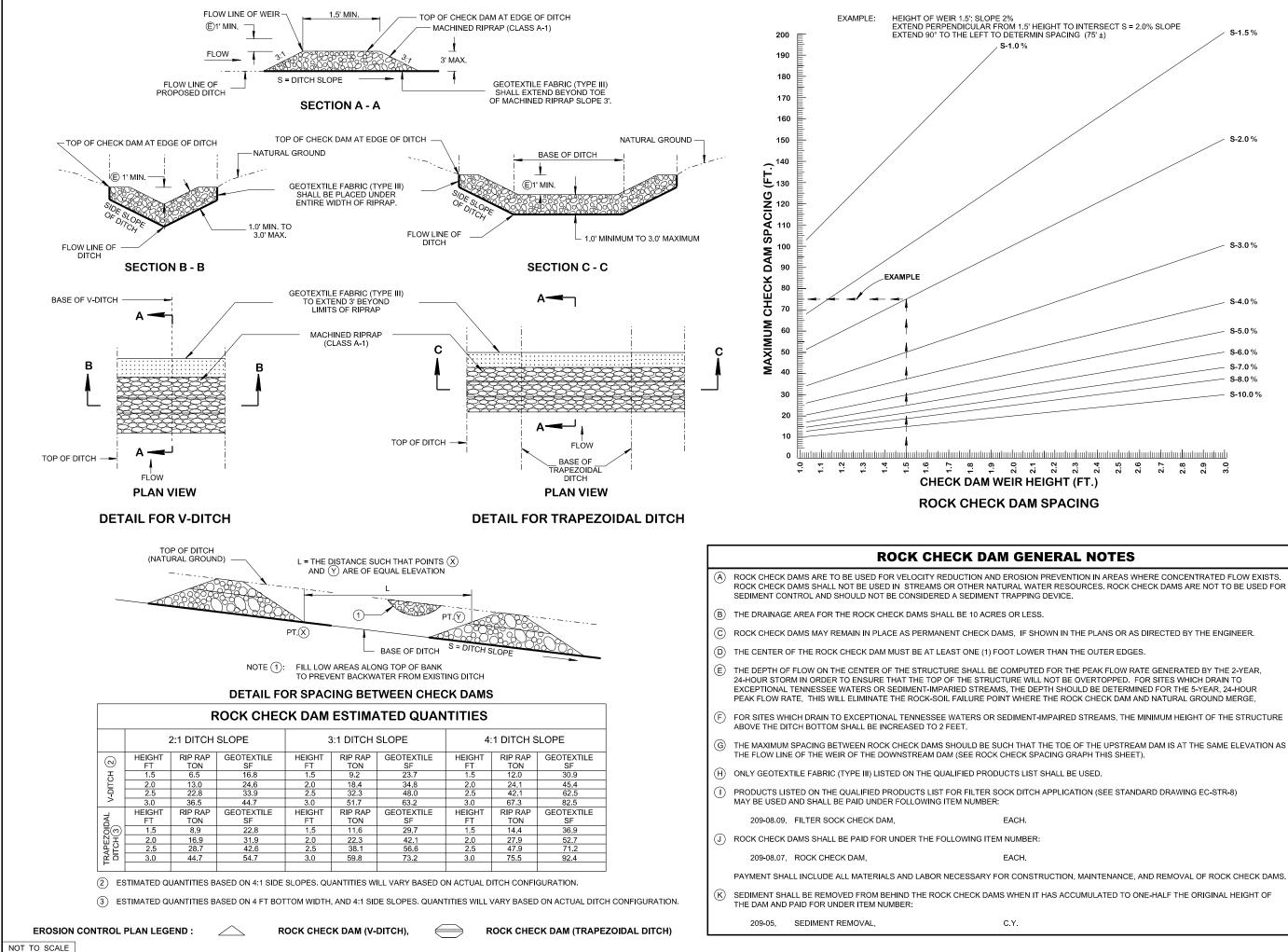
EC-STR-3B

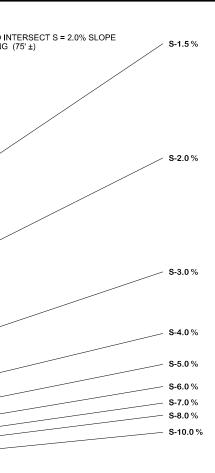


	MINOR REVISION FHWA APPROVAL NOT REQUIRED.
DE	STATE OF TENNESSEE Partment of transportation
F	SILT FENCE ABRIC JOINING DETAILS
1	2-18-02 EC-STR-3E

SILT FENCE FABRIC 2

■ REV. 4-15-06: REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING. REV. 4-1-08: MISC. EDITS TO DRAWING, CHANGED DRAWING NAME, REFORMATTED SHEET.







REV. 12-18-95: CHANGED DRAWING NO. FROM ESC-STR-6 TO EC-STR-6.

REV. 7-29-96: MADE MINOR CORRECTIONS TO GENERAL NOTES.

REV. 4-15-98: CHANGED PAY ITEMS FOR CHECK DAMS.

REV. 5-27-01: CHANGED DESCRIPTION FOR GEOTEXTILE FABRIC (TYPE III, CLASS A) TO GEOTEXTILE FABRIC (TYPE III

REV. 12-18-02: CHANGED GENERAL NOTE

REV. 1-22-03: CORRECTED NOTE IN SECTION A-A.

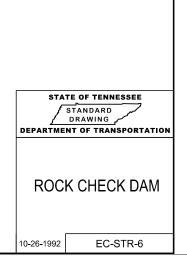
REV 4-15-06 REFORMATTED SHEET REVISED NOTES, MISC. EDITS TO DRAWING.

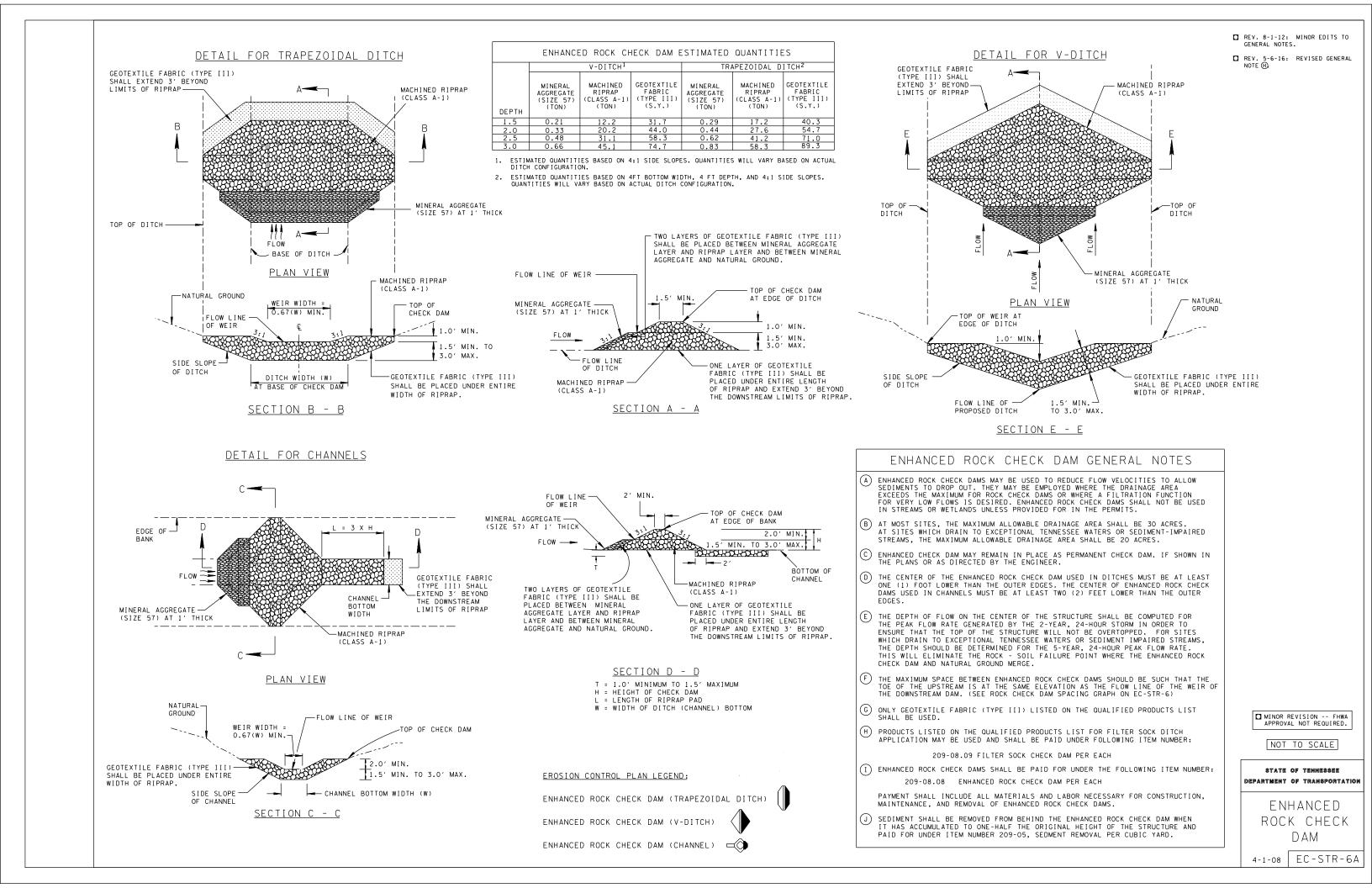
REV. 4-1-08: REMOVED TEMPORARY REFERENCE, REVISED NOTES, MISC. EDITS TO DRAWING, MODIFIED SPACING CHART.

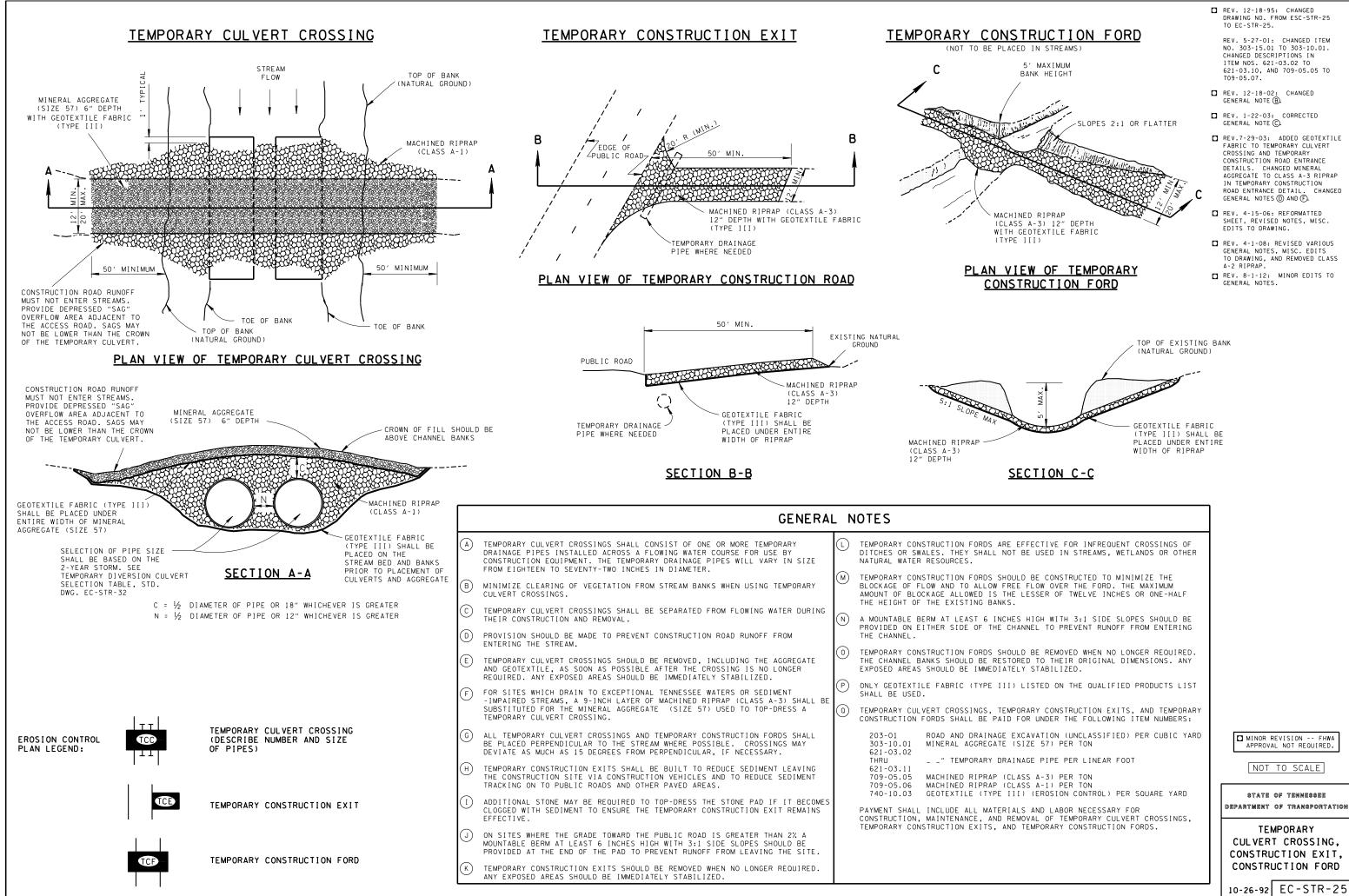
REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.

REV. 5-6-16: REVISED QUANTITIES TABLE, REVISED GENERAL NOTE(). REVISED DITCH DETAIL.

REV. 11-30-20: REDREW SHEET REVISED GENERAL NOTE () ITEM DESCRIPTION







□ REV. 12-18-95: CHANGED DRAWING NO. FROM ESC-STR-25 TO EC-STR-25.

REV. 5-27-01: CHANGED ITEM NO. 303-15.01 TO 303-10.01. CHANGED DESCRIPTIONS IN ITEM NOS. 621-03.02 TO 621-03.10, AND 709-05.05 TO 709-05.07

- □ REV. 12-18-02: CHANGED GENERAL NOTE B.
- REV. 1-22-03: CORRECTED GENERAL NOTE (C).
- □ REV.7-29-03: ADDED GEOTEXTILE FABRIC TO TEMPORARY CULVERT CROSSING AND TEMPORARY CONSTRUCTION ROAD ENTRANCE DETAILS. CHANGED MINERAL AGGREGATE TO CLASS A-3 RIPRAP IN TEMPORARY CONSTRUCTION ROAD ENTRANCE DETAIL. CHANGED GENERAL NOTES () AND ().
- □ REV. 4-15-06: REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.
- □ REV. 4-1-08: REVISED VARIOUS GENERAL NOTES, MISC. EDITS TO DRAWING, AND REMOVED CLASS A-2 RIPRAP
- REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.

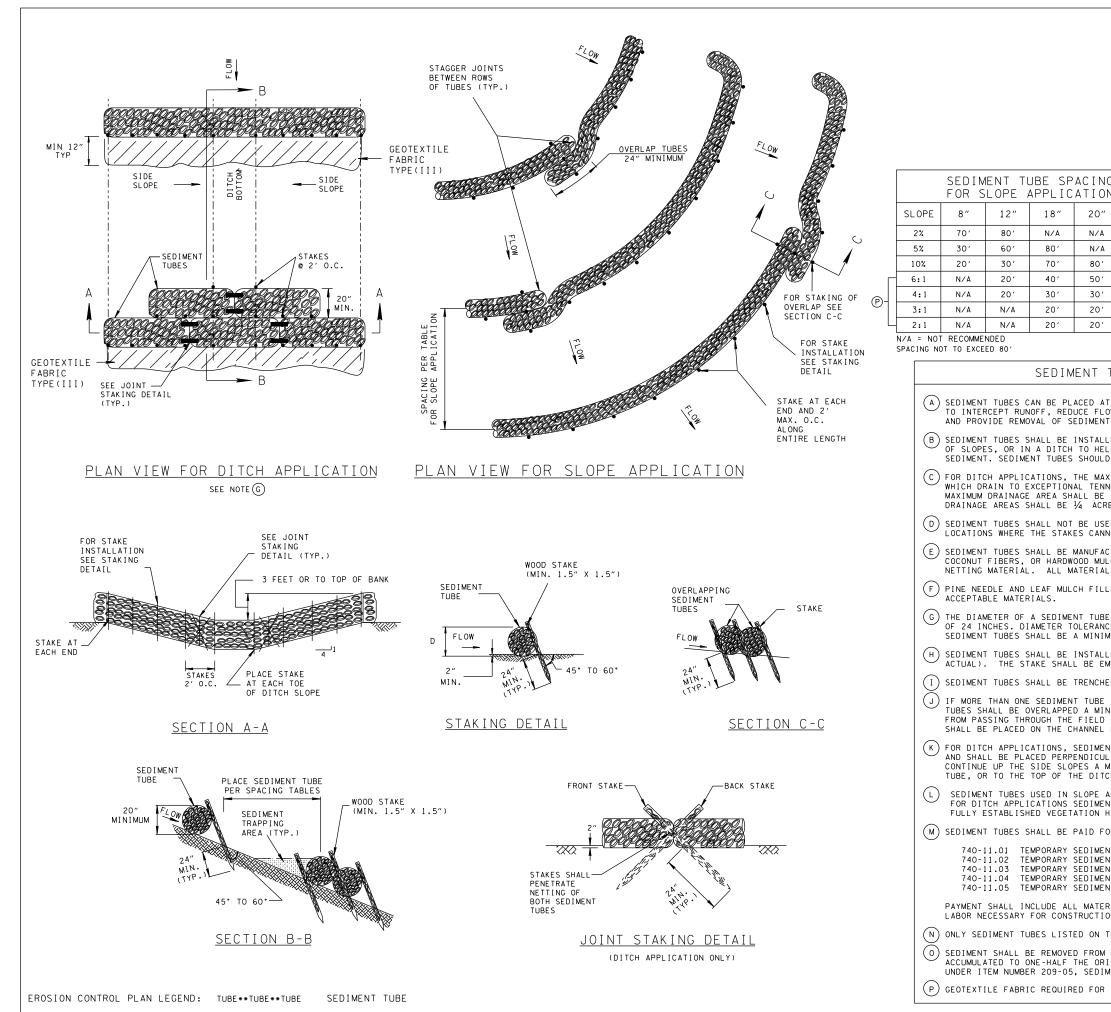
ORDS ARE EFFECTIVE FOR INFREQUENT CROSSINGS OF SHALL NOT BE USED IN STREAMS, WETLANDS OR OTHER	
ORDS SHOULD BE CONSTRUCTED TO MINIMIZE THE ALLOW FREE FLOW OVER THE FORD. THE MAXIMUM ED IS THE LESSER OF TWELVE INCHES OR ONE-HALF NG BANKS.	
T 6 INCHES HIGH WITH 3:1 SIDE SLOPES SHOULD BE OF THE CHANNEL TO PREVENT RUNOFF FROM ENTERING	
ORDS SHOULD BE REMOVED WHEN NO LONGER REQUIRED. BE RESTORED TO THEIR ORIGINAL DIMENSIONS. ANY IMMEDIATELY STABILIZED.	
TYPE III) LISTED ON THE QUALIFIED PRODUCTS LIST	
NGS, TEMPORARY CONSTRUCTION EXITS, AND TEMPORARY BE PAID FOR UNDER THE FOLLOWING ITEM NUMBERS:	
RAINAGE EXCAVATION (UNCLASSIFIED) PER CUBIC YARD GREGATE (SIZE 57) PER TON	
RARY DRAINAGE PIPE PER LINEAR FOOT	
IPRAP (CLASS A-3) PER TON IPRAP (CLASS A-1) PER TON (TYPE III) (EROSION CONTROL) PER SOUARE YARD	
L MATERIALS AND LABOR NECESSARY FOR E, AND REMOVAL OF TEMPORARY CULVERT CROSSINGS, XITS, AND TEMPORARY CONSTRUCTION FORDS.	

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

NOT TO SCALE

STATE OF TENNESSEE

TEMPORARY



- REV. 4-15-06: REFORMATTED SHEET, REVISED NOTES, MISC. EDITS TO DRAWING.
- REV. 4-1-08: REMOVED TEMPORARY REFERENCE, ADDED OVERLAP DETAIL, OTHER MINOR MISC. EDITS, REVISED GENERAL NOTES.
- REV. 8-1-12: MINOR EDITS TO GENERAL NOTES.
- REV. 6-10-14: MODIFIED SPACING TABLES. ADDED GEOTEXTILES ADDED NOTE (P).

				ENT TUBE NG TABLE		
IG N				APPLICATION		
,	24″		SLOPE	MAXIMUM SEDIMENT TUBE SPACING		
	N/A		LESS THAN 2%	80′		
	N/A		2%	80'		
	80 <i>'</i>		3%	50 <i>'</i>		
	55 <i>'</i>		4%	40 '		
	30 <i>'</i>		5%	30′		
	25 <i>'</i>		6%	20'		
	20 <i>'</i>		GREATER THAN 6%	20′		
			BASED ON A 20" S			
			SEE TABLE UN EC-S	TR-6 FOR OTHER HEIGHTS.		
ΤL	JBE GE	NE	RAL NOTES			
OW	THE TOP, VELOCITY ROM THE	, F	THE FACE, OR AT RELEASE THE RUNOFF NOFF.	THE TOE OF SLOPES AS SHEET FLOW		
LΡ	REDUCE T	НE	ON THE GROUND CON EFFECTS OF SOIL E IN DITCHES OR STE	EROSION AND RETAIN		
NE S 1 C	SSEE WATE	RS F Of	OR SEDIMENT-IMPA: R SLOPE APPLICATIO			
			T, ROCKY SOILS, OF TO THE REQUIRED (
LCF	H THAT IS	E١	NCLOSED BY A TUBUL	CE OR WHEAT STRAW, LAR FLEXIBLE BE BIODEGRADABLE.		
LEC) SEDIMEN	T	TUBES AND STRAW B	ALES ARE NOT		
ICE		HE:	MINIMUM OF 8 INCHE S. FOR DITCH APPL HES.			
			EN STAKES (MIN. 1 IMUM OF 2 FEET.	.5″ × 1.5″		
ED	IN A MIN	ΙM	JM OF 2 INCHES.			
NIN JC	UUM OF 24 DINT, WHE	II N l	A ROW IN SLOPE AF NCHES TO PREVENT F JSED IN DITCHES, STAGGERED JOINTS A	FLOW AND SEDIMENT TWO ROWS OF TUBE		
L A F M I N	R TO THE	FL(3 F	_ BE A MINIMUM OF DW OF WATER. SEDIN FEET PLUS THE DIAN IS LESS.	MENT TUBES SHALL		
ΝT	TUBES SH	ALI	MAY REMAIN IN PLAC _ BE COMPLETELY RE Y DEVELOPED.			
OR	UNDER TH	Εf	FOLLOWING ITEMS NU	JMBERS:	MINOR REVISION FHWA	
NT NT NT	TUBE (12 TUBE (18 TUBE (20		CH) PER LINEAR FO NCH) PER LINEAR F(NCH) PER LINEAR F(NCH) PER LINEAR F(NCH) PER LINEAR F(ООТ ООТ ООТ	NOT TO SCALE	
RIA	ALS (INCL	UD	ING GEOTEXTILE FAE CE, AND REMOVAL OF	BRIC IF USED) AND	STATE OF TENNESSEE Department of transportatio	N
тне	E QUALIFI	ED	PRODUCTS LIST MA	r BE USED.		-
			EDIMENT TUBE WHEN		SEDIMENT	
IGI	INAL HEIG	ΗT	OF THE STRUCTURE			
			PER CUBIC YARD.		TUBE	
SL	OPE APPL	IC	ATION STEEPER THAN	N 6:1.		
					1-20-06 EC-STR-37	7



STATE OF TENNESSEE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION COOKEVILLE ENVIRONMENTAL FIELD OFFICE

PHONE (931) 520-6688

1221 SOUTH WILLOW AVENUE COOKEVILLE, TENNESSEE 38506 STATEWIDE 1-888-891-8332

FAX (931) 432-6952

May 28, 2024

Mr. Randall Miller 132 Maynard Rd. Crossville, TN 38571

Re: Approval of Inventoried Water Resources (DWR ID No. 33014) Jones Bros. Cumberland Site CNV009 132 Maynard Rd. Cumberland County

Mr. Miller,

The Tennessee Department of Environment and Conservation, Division of Water Resources (TDEC-DWR) has reviewed the following reports: "Jurisdictional Determination – Cumberland County Site CNV009" and "Amendment No. 1 – Jurisdictional Determination Cumberland County Site CNV009". The final report was prepared by and submitted by CEC, Inc. on May 21, 2024, in support of hydrologic determinations of waters of the state made at the above referenced site.

The Division agrees with the findings of the waters of the state in these reports. These findings as determined by SEC, Inc. are summarized and displayed in the table below and the attached map from the report (Figure 1).

Location ^{1, 2}	Determination and Comments
STR-1 Starting Coordinates 36.045837, -85.056671	Stream – This feature was determined to meet the criteria to be classified as a stream. Stream indicators including <i>geomorphology</i> , <i>hydrology</i> , and <i>biology</i> were noted. The length of this feature is 1,044ft.
End Coordinates 36.043247, -85.056691	Coverage under an Aquatic Resources Alteration Permit is needed for any alterations to this stream.
WTL-1 <u>Location</u> 336.044120, -85.055496	Wetland – This feature was determined to meet the criteria to be classified as a wetland. The delineation of boundaries as presented and marked in the report is approved. The total size of the wetland 1 is estimated to be 0.04 acres.
	Coverage under an Aquatic Resources Alteration Permit is needed for any alterations to this wetland.

WTL-2 <u>Location</u> 36.044216, -85.05687	Wetland – This feature was determined to meet the criteria to be classified as a wetland. The delineation of boundaries as presented and marked in the report is approved. The total size of wetland 1 is estimated to be 1.64 acres.
	Coverage under an Aquatic Resources Alteration Permit is needed for any alterations to this wetland.
PND-1	Non-jurisdictional Pond – This feature fails to meet the criteria to be classified as waters of the state. The delineation of boundaries as presented and marked in the
Location 36.044382, -85.055245	report is approved. The size of the pond is estimated to be 0.34 acres.

Streams, lakes, reservoirs, groundwater, and wetlands of any size are considered waters of the State pursuant to the Tennessee Water Quality Control Act of 1977. Alterations to waters of the State require permit coverage under an *Aquatic Resources Alteration Permit* (ARAP). Information regarding the ARAP program can be found at <u>http://www.tn.gov/environment/article/permit-water-aquatic-resource-alteration-permit</u>.

Please note that a *Tennessee General Construction Permit* will be needed if future land disturbance activity for this project is one acre or more in size. Information regarding the construction storm water program can be found at <u>http://www.tn.gov/environment/article/permit-water-npdes-stormwater-construction-permit</u>. A completed Notice of Intent form, an application fee, and a storm water pollution prevention plan should be submitted to the above address for review and coverage under this permit.

The subsurface injection of fluids is governed by the Safe Drinking Water Act of 1974. Information regarding the Underground Injection Control program may be seen online at https://www.tn.gov/environment/program-areas/wr-water-resources/water-quality/underground-injection-control-uic-.html. A completed Authorization Application for Class V Underground Injection Well and appropriate attachments may be required for coverage under the *Class V Injection Control Permit*.

Hydrologic determinations are advised and governed by Tennessee Department of Environment and Conservation (TDEC) rules and regulations, and therefore only apply to the State's permitting process. Because these and other various water features on-site may potentially also be considered jurisdictional Waters of the United States, any alterations to them should only be performed after consultation with the U.S. Army Corps of Engineers.

Mr. Miller 132 Maynard Rd. (33014) Page 3 of 4

We appreciate the opportunity to assess the site prior to site plan finalization and initiation of construction activities. Because natural variation and human activities can alter hydrologic conditions, the division reserves the right to reassess the status of the water features in the future.

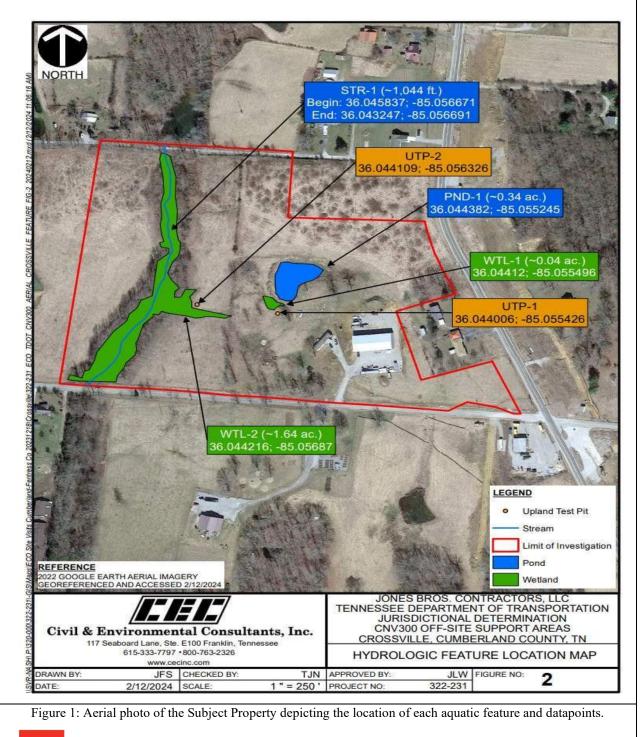
Thank you for your interest in water quality in Tennessee. Please contact Lindsay Acuff at 931-213-9435 or by email at Lindsay.Acuff@tn.gov if you have any questions.

Respectfully, Brad Ulmer

Environmental Field Office Manager Division of Water Resources Cookeville Environmental Field Office

Enclosures: Jones Bros. Cumberland Site Hydrologic Features Map (Figure 1)

Cc: Janette Wolf, CEC, Inc.- jwolf@cecinc.com



N Department of Environment & Conservation