

**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION**

Division of Water Pollution Control

William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243
1-888-891-8332 (TDEC)**Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)**

Site or Project Name: 17th Ave Grading Plan		NPDES Tracking Number: TNR	
Street Address or Location: 17th Ave Springfield, TN (Map 091D, Group D, Parcel 001.00)		Construction Start Date: 12/1/2021	
Site Description: Mass Site Grading		Estimated End Date: 12/1/2022	
		Latitude (dd.dddd): 36.4947	
		Longitude (-dd.dddd): -86.8672	
County(ies): Robertson	MS4 Jurisdiction (if applicable): Springfield	Acres Disturbed: 3.17	
		Total Acres: 3.30	
Check the appropriate box(s) if there are streams and/or wetlands on or adjacent to the construction site: Streams <input type="checkbox"/> Wetlands <input type="checkbox"/>			
If wetlands are located on-site and may be impacted, attach wetlands delineation report.			
If an Aquatic Resource Alteration Permit (ARAP) has been obtained for this site, what is the permit number?			
Receiving waters: Down unnamed tributaries to regional sinkhole located along Industrial Drive			
Attach the SWPPP with the NOI: <input checked="" type="checkbox"/> SWPPP Attached Attach a site location map: <input checked="" type="checkbox"/> Map Attached			
Site Owner/Developer Entity (Primary Permittee): (person, company, or legal entity that has operational or design control over construction plans and specifications): 17th Avenue LLC			
For corporate entities only, provide the Tennessee Secretary of State (SOS) Control Number: 001194170			
Site Owner or Developer Contact Name: (individual responsible for site) James C. Moore		Title or Position: (the party who signs the certification below): President	
Mailing Address: 800 S. Main St. C		City: Springfield	State: TN Zip: 37172
Phone: () 615-389-1008	Fax: ()	E-mail: jmoore17thave11c@gmail.com	
Optional Contact:		Title or Position:	
Mailing Address:		City:	State: Zip:
Phone: ()	Fax: ()	E-mail:	
Owner or Developer Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Primary Permittee)			
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.			
Owner or Developer Name: (print or type) JAMES MOORE		Signature: [Signature]	Date: 11/11/2021
Contractor(s) Certification: (must be signed by president, vice-president or equivalent, or ranking elected official) (Secondary Permittee)			
I certify under penalty of law that I have reviewed this document, any attachments, and the SWPPP referenced above. Based on my inquiry of the construction site owner/developer identified above and/or my inquiry of the person directly responsible for assembling this NOI and SWPPP, I believe the information submitted is accurate. I am aware that this NOI, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.			
Contractor name, address, and SOS control number (if applicable):		Signature:	Date:
Contractor name, address, and SOS control number (if applicable):		Signature:	Date:
OFFICIAL STATE USE ONLY			
Received Date: 11.23.21	Reviewer:	Field Office:	Permit Number: 245598 TNR
Fee(s):	T & E Aquatic Flora/Fauna:	SOS Corporate Status:	Exceptional TN Water:
		Waters with Unavailable Parameters:	Notice of Coverage Date:

Storm Water Pollution Prevention Plan

PREPARED FOR:

**17th Ave Grading Plan
17th Ave
Pleasant View, TN**

Robertson County

Prepared By

KLOBER ENGINEERING SERVICES
3556 Tom Austin Hwy, Suite 1
Springfield, Tennessee 37172
(615) 382-2000

November 18, 2021

Table of Contents


Table of Contents	2
General Information	3
Quality Assurance Site Assessment	5
Existing Site Conditions	6
Project Description	7
303(D) Special Requirements	8
Safe Dams Act Information	8
Spills and Non-Storm Water Contingencies	9
Phasing of Construction	10
Sequencing of Construction	10
Notice of Intent	Appendix A
Notice of Termination	Appendix B
Inspection Report	Appendix C
Stabilization Plan	Appendix D
Maps	Appendix E
Site Location Map	MP-1
Soil Map	MP-2
Initial EPSC Plan	C1.00
Stabilization Plan	C1.01

GENERAL INFORMATION

This Storm Water Pollution Prevention Plan (SWPPP) is developed in accordance with the Tennessee General NPDES Permit (TNR 100000) for Storm Water Discharges Associated with Construction Activity (TNCGP), and is prepared using sound engineering practices. Klobber Engineering Services personnel involved with the development of this plan have completed the *Fundamentals of Erosion Prevention and Sediment Control Workshop* available from the State of Tennessee.

As instructed by Part III.F of the TNCGP, this plan and all attachments are hereby submitted to the local Environmental Assistance Center (FIELD OFFICE) along with the complete, correctly signed Notice of Intent (NOI). Construction will not be initiated prior to 30 days from the date of submittal of this document, or prior to receipt of a Notice of Coverage (NOC) from the Tennessee Department of Environment and Conservation (TDEC).

Owner/Developer: 17th Ave LLC
Name: 800 South Main Street
Address: Springfield, TN 37172

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		
Representative of owner/developer and title: print or type James C. Moore	Signature (must be signed by president, V.P. or equivalent, or ranking elected official) 	Date: 11/11/2014

Primary Contractor:

I certify under penalty of law that I have reviewed this document and any attachments. Based on my inquiry of the construction site, owner/developer identified above, and/or my inquiry of the person directly responsible for assembling this Storm Water Pollution Plan, I believe the information submitted is accurate. I am aware that this Plan, if approved, makes the above-described construction activity subject to NPDES permit number TNR100000, and that certain of my activities on-site are thereby regulated. I am aware that there are significant penalties, including the possibility of fine and imprisonment for knowing violations, and for failure to comply with these permit requirements.		
Company name of private contractor: print or type	Signature (must be signed by president, V.P. or equivalent.)	Date:

The individual responsible for installation, maintenance, and inspection of erosion and sediment control measures is a certified EPSC and representative of the primary contractor. The contractor is aware of the stipulations for maintenance and inspection detailed in this manuscript and the TDEC regulations that must be upheld.

Current versions of this SWPPP, the NOI, and the NOC will be kept on the site for the duration of the project. These items will be available for the use of all operators and site personnel involved with the erosion and sediment controls, and will be available to TDEC personnel visiting the site. A notice will be posted near the construction entrance. The notice will contain a copy of the NOC with the tracking number assigned by the FIELD OFFICE, the name and telephone number of a contact person for the development, and a brief description of the project. See attached EPSC plan for mailbox location.

Any new contractor on the project that has any responsibility to install, inspect, or maintain erosion or sediment control measures will sign the contractor's certification on a copy of the NOI (Appendix A) and will submit it to the local FIELD OFFICE. Any correspondence with TDEC or any FIELD OFFICE will reference the tracking number assigned by TDEC to the project. Klobber Engineering Services will submit a Notice of Termination (NOT; Appendix B) after the complete installation and successful establishment of the final stabilization activities at the site.

It is the intention and goal of the TNCGP and this SWPPP that any discharge from the property described in this document have no objectionable color contrasts to the water body that receives it. The construction activity will be carried out in a manner as will prevent any discharge that would cause a condition in which visible solids, bottom deposits, or turbidity impairs the usefulness of the waters on the property or downstream of the property for fish and aquatic life, livestock watering and wildlife, recreation, irrigation, navigation, or industrial or domestic water supply.

This plan may be amended for reasons described below, or for other reasons. When the plans are revised, the contractor will implement the changes to erosion protection and sediment controls within 48 hours after the need for modification is identified.

QUALITY ASSURANCE SITE ASSESSMENT

Quality assurance of erosion prevention and sediment controls shall be done by performing site assessment at the construction site. The site assessment shall be conducted at each outfall involving drainage totaling 10 or more acres or 5 or more acres if draining to an impaired or exceptional quality waters, within a month of construction commencing at each portion of the site that drains the qualifying acreage of such portion of the site. The site assessment shall be performed by individuals with following qualifications:

- a licensed professional engineer or landscape architect;
- a Certified Professional in Erosion and Sediment Control (CPESC) or
- a person that successfully completed the “Level II Design Principles for Erosion Prevention and Sediment Control for Construction Sites” course.

As a minimum, site assessment should be performed to verify the installation, functionality and performance of the EPSC measures described in this SWPPP. The site assessment should be performed with the inspector, and should include a review and update (if applicable) of this SWPPP. Modifications of plans and specifications for any building or structure, including the design of sediment basins or other sediment controls involving structural, hydraulic, hydrologic or other engineering calculations shall be prepared by a licensed professional engineer or landscape architect and stamped and certified in accordance with the Tennessee Code Annotated, Title 62, Chapter 2 and the rules of the Tennessee Board of Architectural and Engineering Examiners.

The site assessment findings shall be documented and the documentation kept with this SWPPP at the site. At a minimum, the documentation shall include information included in the inspection form provided in Appendix C of this permit. The documentation must contain the printed name and signature of the individual performing the site assessment and the following certification:

“I certify under penalty of law that this report and all attachments are, 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 for knowing violations.”

The site assessment can take the place of one of the twice weekly inspections.

The division may require additional site assessment(s) to be performed if site inspection by division’s personnel reveals site conditions that have potential of causing pollution to the waters of the state.

EXISTING SITE CONDITIONS

The existing site is currently unoccupied. The site is located along 17th Ave in Springfield, TN (Map 091D, Group D, Parcel 001.00). Runoff is conveyed by sheet flow to existing outfalls that feed a regional sinkhole located north of the site. A description of each soil that was taken for the Soil Survey of Robertson Co, TN and the online resource Web Soil Survey at <http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx> is listed below and is located on the soil map MP-2. Outfall points are identified on sheet C1.00.

Robertson County, Tennessee

Map Unit: DsB—Dickson silt loam, 2 to 5 percent slopes

Component: Dickson (85%)

The Dickson component makes up 85 percent of the map unit. Slopes are 2 to 5 percent. This component is on undulating flats on plateaus. The parent material consists of silty loess over clayey residuum weathered from cherty limestone over clayey residuum weathered from limestone and/or clayey residuum weathered from siltstone. Depth to a root restrictive layer, fragipan, is 20 to 26 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is low. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 20 inches during January, February, March, April, May, November, December. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Mountview (5%)

Generated brief soil descriptions are created for major soil components. The Mountview soil is a minor component.

Component: Taft (5%)

Generated brief soil descriptions are created for major soil components. The Taft soil is a minor component.

Component: Sango (5%)

Generated brief soil descriptions are created for major soil components. The Sango soil is a minor component.

Map Unit: Hb—Hamblen silt loam

Component: Hamblen (100%)

The Hamblen component makes up 100 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on plateaus. The parent material consists of loamy alluvium derived from limestone, sandstone, and shale. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a

depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 30 inches during January, February, March, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Map Unit: Ma—Made land

Component: Made land (100%)

Generated brief soil descriptions are created for major soil components. The Made land is a miscellaneous area.

Map Unit: MoB—Mountview silt loam, 2 to 5 percent slopes

Component: Mountview (85%)

The Mountview component makes up 85 percent of the map unit. Slopes are 2 to 5 percent. This component is on ridges on plateaus. The parent material consists of loess over clayey residuum weathered from cherty limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. A seasonal zone of water saturation is at 25 inches during January, February, March, April, November, December. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 2e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Dickson (8%)

Generated brief soil descriptions are created for major soil components. The Dickson soil is a minor component.

Component: Sengtown (7%)

Generated brief soil descriptions are created for major soil components. The Sengtown soil is a minor component.

Map Unit: SeC—Sengtown gravelly silt loam, 5 to 12 percent slopes

Component: Sengtown (85%)

The Sengtown component makes up 85 percent of the map unit. Slopes are 5 to 12 percent. This component is on plateaus on hills. The parent material consists of clayey residuum weathered from cherty limestone. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability

classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Mountview (7%)

Generated brief soil descriptions are created for major soil components. The Mountview soil is a minor component.

Component: Minvale (4%)

Generated brief soil descriptions are created for major soil components. The Minvale soil is a minor component.

Component: Waynesboro (4%)

Generated brief soil descriptions are created for major soil components. The Waynesboro soil is a minor component.

Map Unit: Ss—Staser silt loam

Component: Staser (100%)

The Staser component makes up 100 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains on plateaus. The parent material consists of loamy alluvium derived from interbedded sedimentary rock. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very high. Shrink-swell potential is low. This soil is occasionally flooded. It is not ponded. A seasonal zone of water saturation is at 60 inches during January, February, March. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2w. This soil does not meet hydric criteria.

Project Description

The intent of this project is to use the site as a fill site for offsite soils. The maximum disturbed area as shown on C1.00 is 3.17 acres with a total site area of 3.30 acres. The stormwater BMP's are listed below and are to be installed as per TDEC regulations and standards. The BMP's are shown on drawings C1.00 & C1.01.

BMP's to be Utilized on Site:

All BMP's to be installed and maintained as per the most current edition of the TDEC Erosion and Sediment Control Handbook. EPSCs have been designed to control the rainfall and runoff from a 5-year, 24-hour return interval storm.

- Construction Entrance
- Silt Fence (Wire Backed)
- Rolled Erosion Control Matting
- Seed and Straw

Maintenance & Inspection:

The intent of a SWPPP is to produce a site that mitigates the quantity of erosion and "polluted" runoff. The BMP's shown on sheets C1.00 & C1.01 shall be installed as per TDEC Erosion and Sediment Control Handbook. The BMP's shall be inspected prior to every storm event, when possible, and after all storm events. Upon these inspections if the repair, removal, or modification is necessary the BMP's must be replaced immediately. In the event that the replacement of the BMP's cannot take place immediately the issue must be resolved within 7 days.

The inspections completed on site must be conducted by an inspector that has successfully completed the "Fundamentals of Erosion Prevention and Sediment Control" or equivalent course. A copy of the inspector's certification or training record must be kept on site at all times. Inspections shall occur at a minimum of twice a week with the inspection occurring more than 72 hours apart. A written record shall be kept on the form attached in Appendix C. Construction inspections shall occur at least once a month on areas that have been permanently stabilized. Additionally, all inspection and maintenance regulations are as written in the Tennessee General Stormwater Permit Sections 3.5.7 & 3.5.8.

303(d) SPECIAL REQUIREMENTS

In order to maintain the appropriate levels of runoff control every month qualified personnel will conducted a visual inspection of the property to insure that all erosion control measures a being properly maintained and are effective. Also, upon the occurrence of a storm event of 0.5 inches or greater an inspection is to be conducted within 24 hours. If during these inspections repair and /or maintenance are needed then these actions must be documented.

In the case that the specified erosion control measures are deemed ineffective then Klover Engineering Services is responsible for making the necessary revisions to the plans and the contractor is responsible for implementing these revisions.

The monthly inspection report is located in appendix C.

SAFE DAMS ACT INFORMATION

No elements of this project meet the definition of ‘dams’ as found in Chapter 1200-5-7 of the Rules of the Department of Environment and Conservation, Division of Water Supply, concerning the Safe Dams Act of 1973. Therefore, no certification is required for construction.

SPILLS AND NON-STORM WATER CONTINGENCIES

All fueling of equipment and vehicles on-site will be conducted at a future designated location. Any spillage will be removed immediately. Contaminated soils will be placed in heavy plastic and covered or placed into approved containers to prevent contact with storm water. All fuel tanks will be in the designated area. Oils, other vehicle fluids, paints and solvents will be stored in the construction trailer. Any spill in excess of two gallons will be reported to a senior representative of the primary contractor as notified previously in this document. A spill response contractor will be designated prior to any construction activity.

If a release containing a hazardous substance in an amount equal to or in excess of a reporting quantity established under either 40 CFR 117 or 40 CFR 302 occurs during a 24-hour period, the contractor shall immediately notify the permittee who shall then do the following: notify the National Response Center (NRC) (800-424-8802) and the Tennessee Emergency Management Agency (TEMA) (emergencies: 800-262-3300; non-emergencies: 800-262-3400); as well as the local FIELD OFFICE. Also, Klobner Engineering Services will prepare a revision of this document to identify measures to prevent the reoccurrence of such releases.

Concrete trucks shall wash out at the designated area near the construction entrance. Each contractor is responsible to provide litter control for trash generated by his crew. Each contractor shall collect trash and properly dispose of it in an approved solid waste landfill per federal, state, and local requirements. Paint cans, oil cans, used oil, and filters will be contained and disposed of by the contractor by taking them to an approved Hazardous Waste Disposal Center per federal, state, and local requirements.

PHASING OF CONSTRUCTION

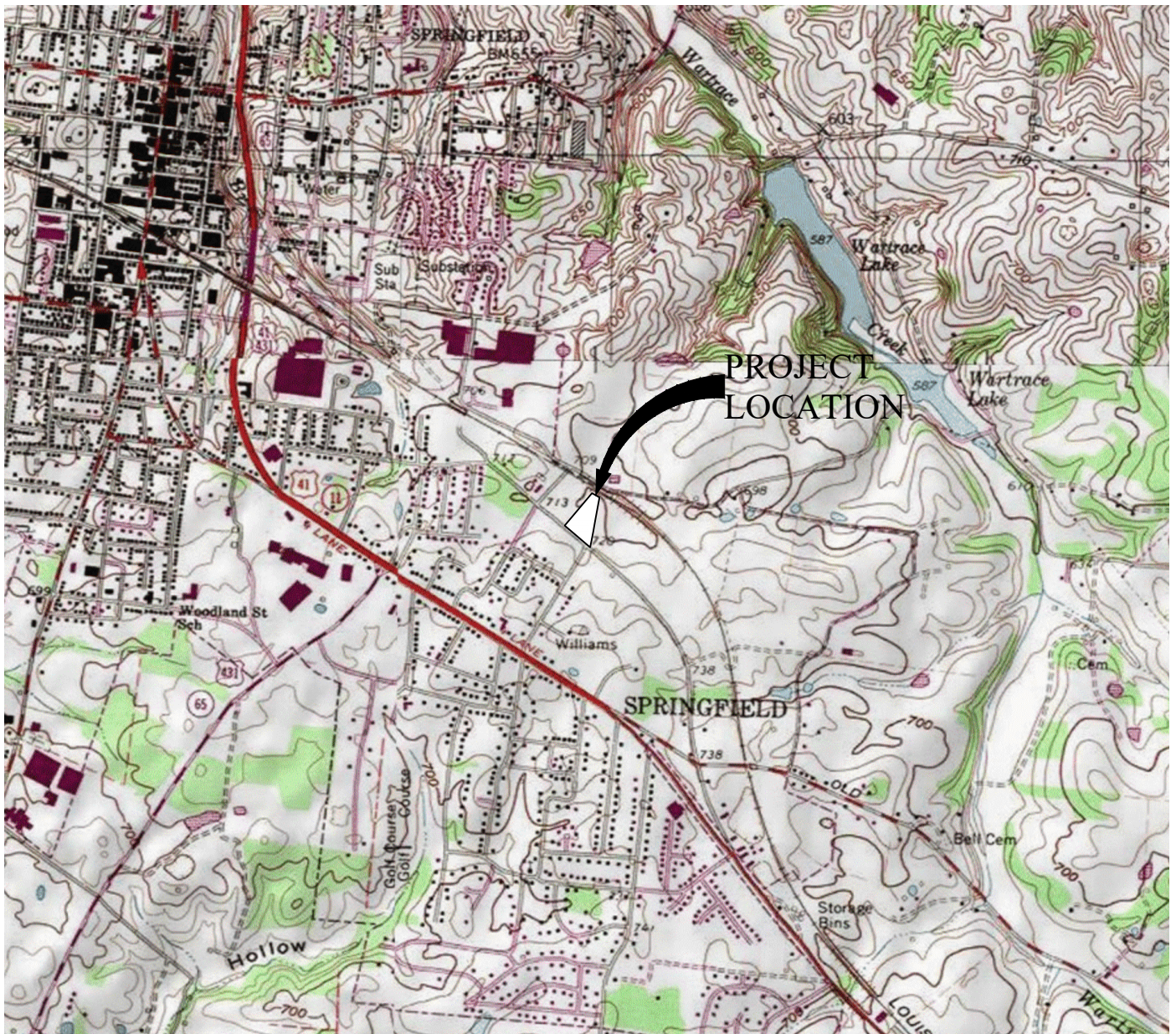
All erosion prevention and sediment control best management practices identified in this SWPPP will be installed as recommended in the most current edition of the Tennessee Erosion and Sediment Control Handbook.

SEQUENCING OF CONSTRUCTION

1. Sediment and Erosion Control Structures will be placed at this time. These BMPs are to prevent any sediment from leaving the site. Temporary silt fencing will be installed in the designated areas of the construction boundary as indicated on the Erosion Control Plans (C1.00 & C1.01). Also, any detention areas shown will be installed at this time which will be sediment basins until construction is completed.
2. Removed topsoil will be stockpiled and immediately seeded per the Stabilization Plan (Appendix D). The topsoil stockpile shall be in a designated location and encompassed by a silt fence.
3. The next construction activity to be completed is grading work. This grading will be completed in order to bring the site to a grade that is suitable proper drainage. All cross drains, headwalls, and all outlet protection will be installed in order to provide adequate cross drainage.
4. All slopes and ditches will be seeded and stabilized with turf reinforcement matting (North American Green C125 or S150). Overall seeding, sodding and matting for all grassed sloped areas will be in general compliance with The Tennessee Erosion and Sediment Control Handbook and as presented within the Stabilization Plan (Appendix D) to prevent disturbance.
5. Sediment will be removed from rock silt screens, silt fences, straw bale checks and other sediment controls before design capacity of the structure has been reduced by 50%. Litter, construction debris, and construction chemicals exposed to storm water will be picked up prior to anticipated storm events (e.g. forecasted by local weather reports), or otherwise prevented from becoming a pollutant source for storm water discharges (e.g. screening outfalls, daily pick-up, etc.). After use, silt fences, rock silt screens, and straw bale checks will be removed or otherwise prevented from becoming pollutant source for storm water discharges. Temporary measures may be removed at the beginning of the workday, but will be replaced at the end of the workday.
6. Stabilization will be accomplished as soon as practicable after attainment of final grade and no later than seven days after attaining final grade. Where earth-disturbing activity has temporarily ceased, temporary stabilization will be applied within 7 days if the activity will not resume within 15 days. The dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and dates when stabilization measures are initiated will be recorded and maintained on site. Stabilization methods are outlined in the Stabilization Plan (Appendix D and sheet C1.01) and may include seed and mulch, or seed and erosion control blankets as identified.

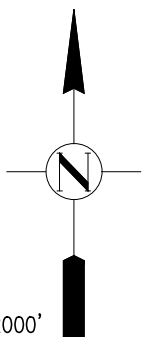
APPENDIX E

Maps



ROBERTSON CO., TN
LATITUDE: 36.4947 N, LONGITUDE: -86.8672 W

SCALE: 1"=2000'



17TH AVE GRADING PLAN
17TH AVE
SPRINGFIELD, TN

DRAWING DATE:	11/18/2021
PROJECT NO.:	C10821
SHEET NO.:	MP-1

Soil Map—Robertson County, Tennessee
(MP-2)



Soil Map—Robertson County, Tennessee (MP-2)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Robertson County, Tennessee

Survey Area Data: Version 19, Sep 10, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

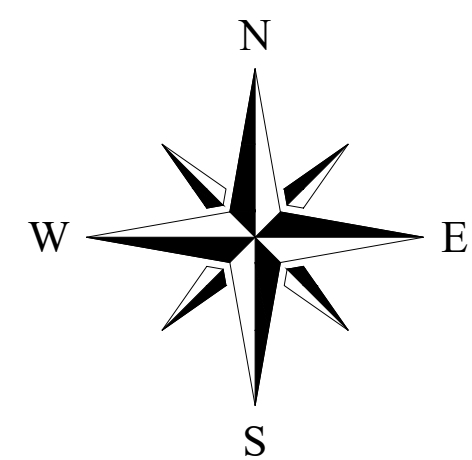
Date(s) aerial images were photographed: Apr 3, 2019—Aug 29, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

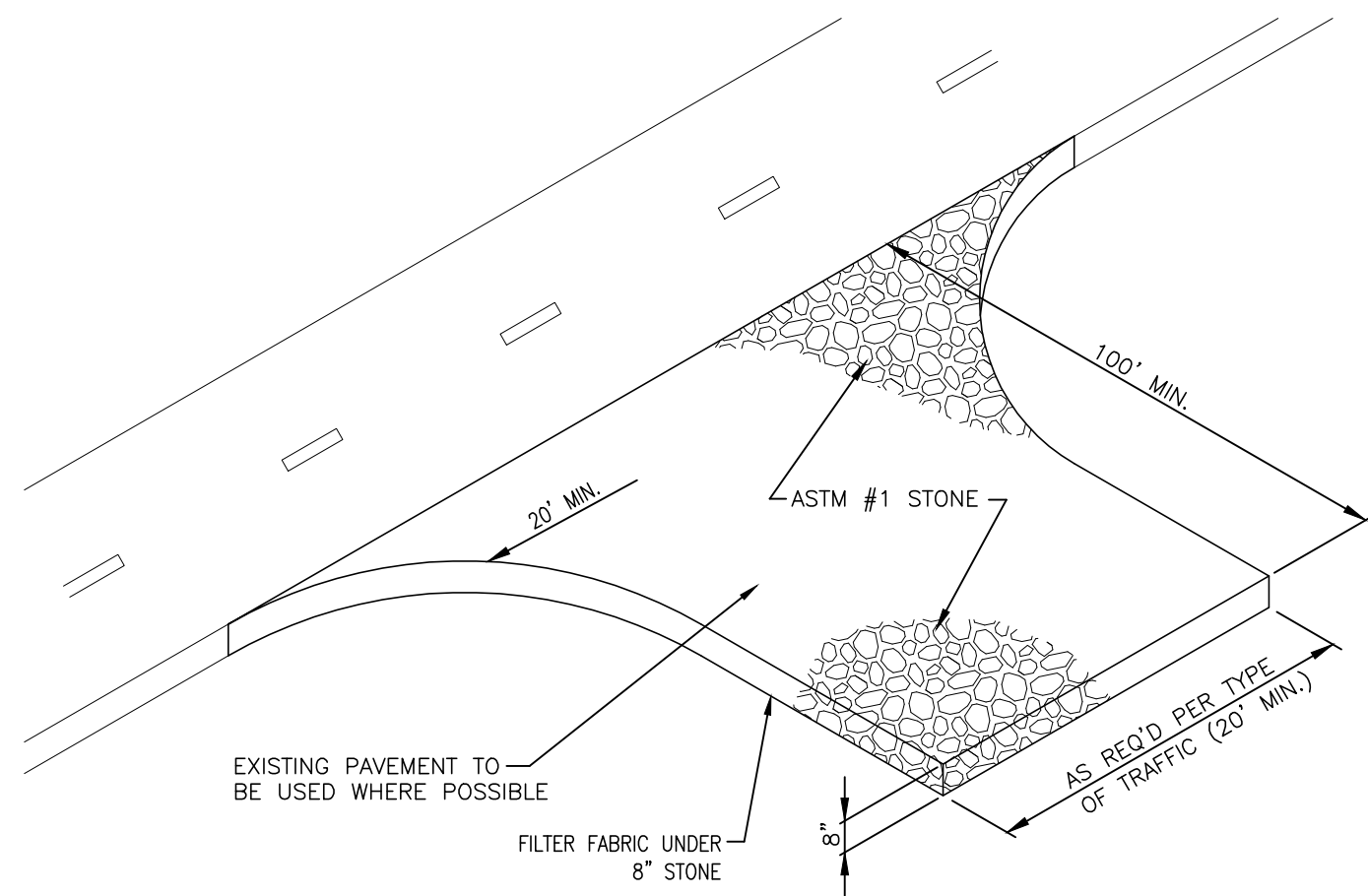
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
DsB	Dickson silt loam, 2 to 5 percent slopes	0.4	8.9%
Hb	Hamblen silt loam	0.2	4.7%
Ma	Made land	3.6	75.9%
MoB	Mountview silt loam, 2 to 5 percent slopes	0.3	7.2%
SeC	Sengtown gravelly silt loam, 5 to 12 percent slopes	0.1	2.3%
Ss	Staser silt loam	0.0	1.0%
Totals for Area of Interest		4.7	100.0%

IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION. THE LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND POSSIBLY INCOMPLETE. THEREFORE CERTIFICATION TO THE LOCATION OF ALL UNDERGROUND UTILITIES IS WITHHELD.

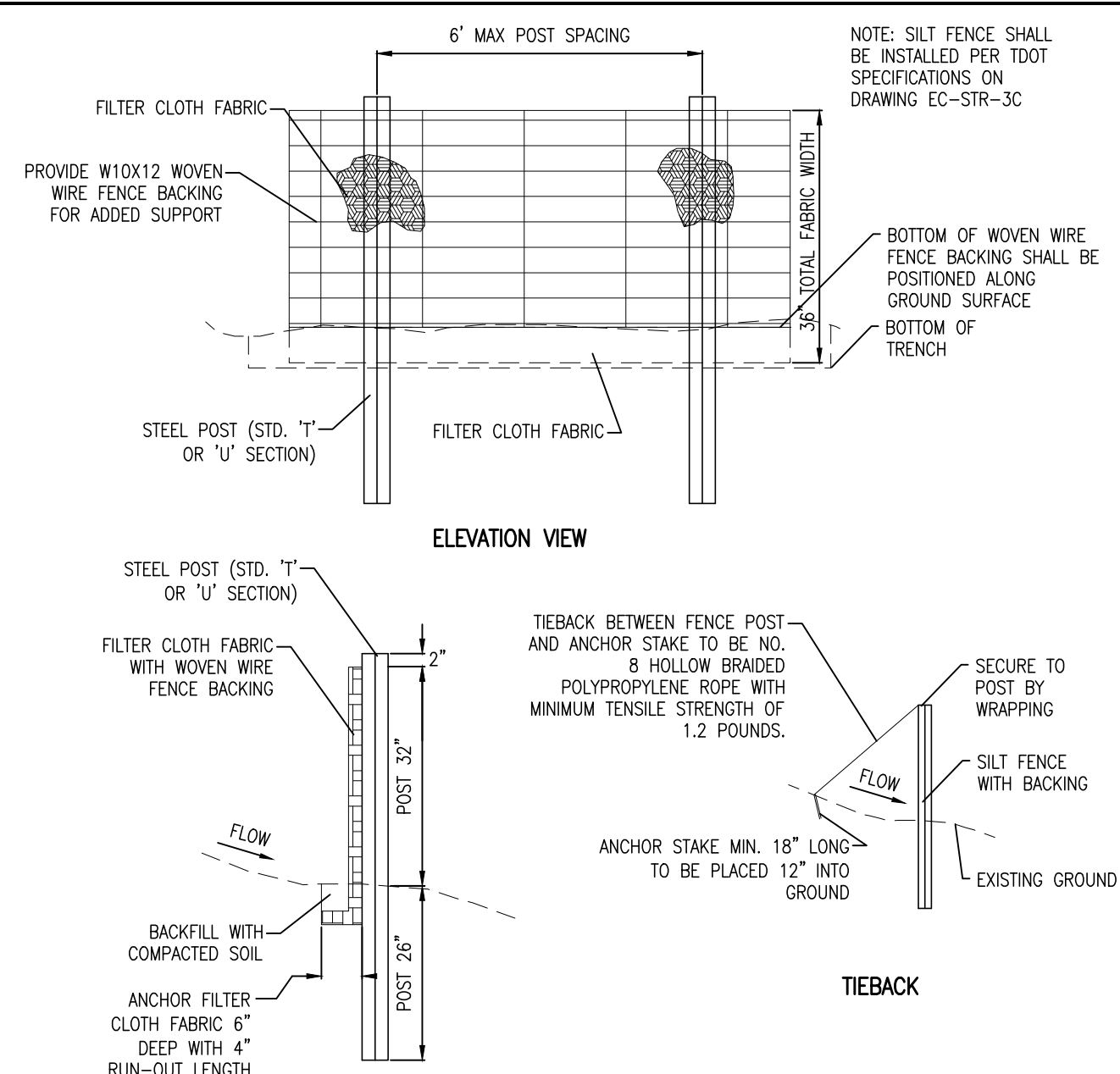


A horizontal scale bar with a black and white alternating pattern. It has markings at 30, 0, 30, and 60. Below the bar is the text "SCALE IN FEET".

	PROPERTY LINE		MANHOLE		INV. -25.42	PIPE INVERT
	EXISTING WATER LINE		CLEAN OUT		28.14	SPOT ELEVATION
	EXISTING SOWER LINE		POWER POLE			
	OVERHEAD ELECTRIC LINE		WATER METER			
	NEW CURB					
	SILT FENCE					
	EXISTING 5' CONTOUR					
	EXISTING 1' CONTOUR					
	NEW 1' CONTOUR					
	DEMO LINE		IRON ROD OLD			
			IRON ROD NEW			
						SLOPE DIRECTION



TEMPORARY CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE METRO STORMWATER MANAGEMENT MANUAL TCP-03



SECTIONAL VIEW

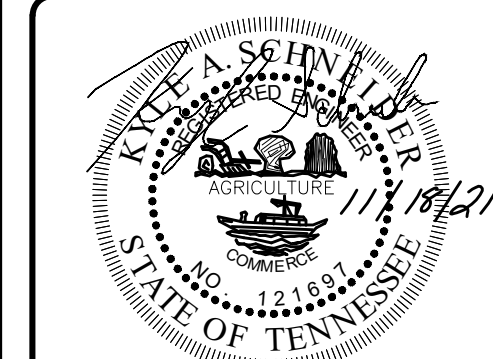
TEMPORARY SILT FENCE WITH BACKING
NOT TO SCALE

PRE-DEVELOPED
NORTH BASIN: 3.07 AC

OUTFALL POINT:
LAT: 36.4954°
LON: -86.8666°

PRE-DEVELOPED
EAST BASIN: 4.042 AC

OUTFALL POINT:
LAT: 36.4940°
LON: -86.8668°

[illegible]

KYLE A. SCHNEIDER, P.E. TN#12169

NOT FOR
CONSTRUCTION

17TH AVE.
TOWNHOMES

17TH AVENUE
SPRINGFIELD, TENNESSEE
ROBERTSON COUNTY

DRAWN BY:	CJM
CHECKED BY:	JML
PROJECT NO.:	C1082

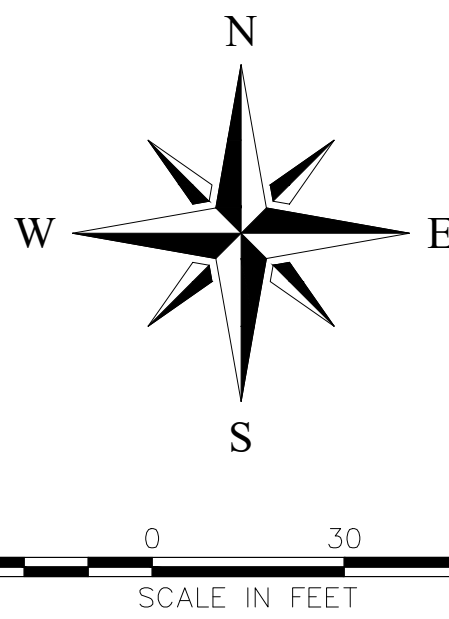
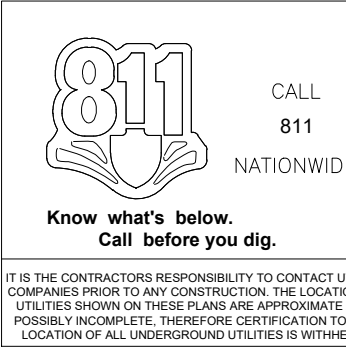
INITIAL EPSC

SHEET NUMBER
C1.00

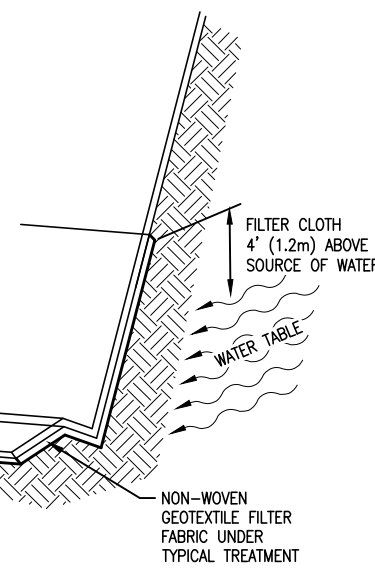
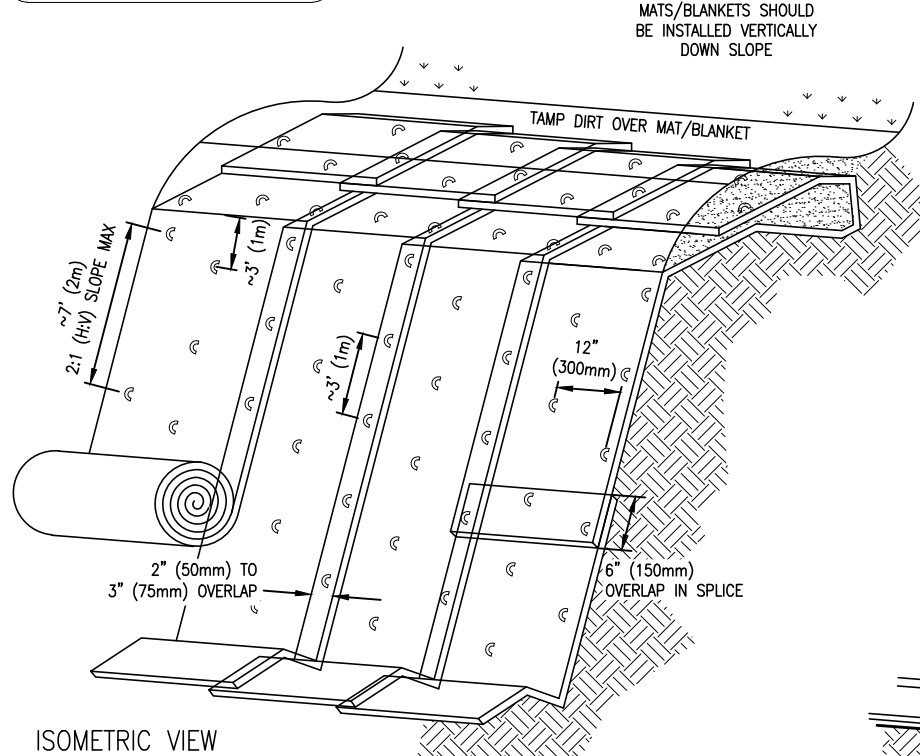
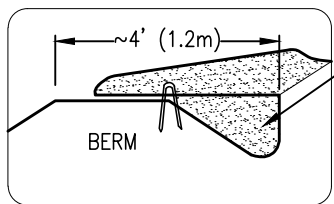
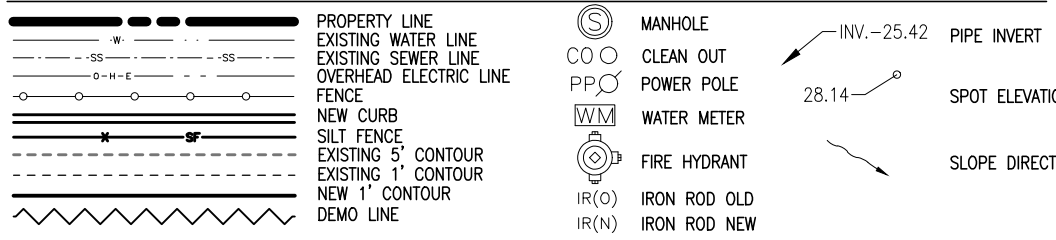
SERVING CLIENTS WITH CIVIL ENGINEERING & LAND DEVELOPMENT SERVICES
3556 TOM AUSTIN HWY, SUITE 1, SPRINGFIELD, TN 37172
PHONE: (615) 382-2000 FAX: (888) 373-4485
www.kieboernig.com

REPRODUCTION OF THESE DRAWINGS OR ANY PART THEREOF IS PROHIBITED WITHOUT WRITTEN APPROVAL OF KLOBER ENGINEERING SERVICES. THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAWS AND VIOLATORS ARE SUBJECT TO LEGAL RECOURSE.

CALL BEFORE YOU DIG



LEGEND:



TYPICAL SLOPE
SOIL STABILIZATION
N.T.S.

WET SLOPE LINING
N.T.S.

- NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, SOIL CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT
 2. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

GRASS MATTING PLACEMENT
METRO STORMWATER MANAGEMENT MANUAL PESC-02

REVISIONS

NO.	BY	DATE	DESCRIPTION



KYLE A. SCHNEIDER, P.E. TN#121697

NOT FOR
CONSTRUCTION

17TH AVE.
TOWNHOMES

17TH AVENUE
SPRINGFIELD, TENNESSEE
ROBERTSON COUNTY

DRAWN BY: CIN
CHECKED BY: JML
PROJECT NO.: C10821

FINAL
STABILIZATION

SHEET NUMBER
C1.01

REPRODUCTION OF THESE DRAWINGS OR ANY PART THEREOF IS PROHIBITED WITHOUT WRITTEN APPROVAL OF KLOBER ENGINEERING SERVICES. THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAWS AND VIOLATORS ARE SUBJECT TO LEGAL RECOURSE.