



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)

Notice of Intent (NOI) for General NPDES Permit for Stormwater Discharges from Construction Activities (TNR100000)

Site or Project Name: Interstate 440 Widening from Interstate 40 to Interstate 24
NPDES Tracking Number: TNR
Street Address or Location: Interstate 440, Nashville, TN PIN 125325.00
Construction Start Date: 11/05/18
Estimated End Date: 7/31/20
Site Description: Interstate 440 Widening from Interstate 40 to Interstate 24
Latitude (dd.dddd): 36.1159
Longitude (-dd.dddd): -86.7751
County(ies): Davidson MS4 (if applicable): TDOT
Acres Disturbed: 80
Check box if a SWPPP is attached: [checked] Check box if a site location map is attached: [checked]
Total Acres: 476
Check the appropriate box(s) if there are streams and/or wetlands on or adjacent to the construction site: Streams [checked] Wetlands [ ]
Has a jurisdictional determination been made by the USACE or EPA identifying waters of the United States?: Yes [ ] No [checked]
Note: if yes, attach the jurisdictional determination
If an Aquatic Resource Alteration Permit (ARAP) has been obtained for this site, what is the permit number? NR(S)
Receiving waters: Richland Creek, Browns Creek, Mill Creek

Site Owner/Developer (Primary Permittee): (Provide person, company, or entity that has operational or design control over construction plans and specifications): Kiewit Infrastructure South Co.
For corporate entities only, provide correct Tennessee Secretary of State (SOS) Control Number: 000037764
(an incorrect SOS control number may delay NOI processing)
Site Owner or Developer Contact Name: (signs the certification below) Chris Frieberg
Title or Position: Area Manager
Mailing Address: 105 Continental Place, Suite 150
City: Brentwood State: TN Zip: 37027
Phone: ( 629 ) 208-5208 Fax: ( ) E-mail: christopher.frieberg@kiewit.com

Optional Contact: Jordan Gregg
Title or Position: Project Manager
Mailing Address: 105 Continental Place, Suite 150
City: Brentwood State: TN Zip: 37027
Phone: ( 615 ) 712-1146 Fax: ( ) E-mail: jordan.gregg@kiewit.com

Owner/Developer(s) 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/Developer Name (print/type): Chris Frieberg Signature: [Signature] Date: 10/22/18
Owner/Developer Name (print/type): Signature: Date:

Contractor 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): Kiewit Infrastructure South Co., 105 Continental Place, Suite 150 Signature: [Signature] Date: 10/22/18

OFFICIAL STATE USE ONLY
Received Date: Reviewer: Field Office: Permit Tracking Number: TNR Exceptional TN Water:
Fee(s): T & E Aquatic Flora/Fauna: SOS Corporate Status: Waters with Unavailable Parameters: Notice of Coverage Date:

**CONSTRUCTION GENERAL PERMIT - NOTICE OF INTENT (NOI) - INSTRUCTIONS**

A completed NOI must be submitted to obtain coverage under the CGP. **Requesting coverage under this permit means that an applicant has obtained and examined a copy of this permit, and thereby acknowledges applicant's claim of ability to be in compliance with permit terms and conditions.** CGP coverage is required for stormwater (SW) discharge(s) from construction activities including clearing, grading, filling and excavating (including borrow pits) of one or more acres of land. This form should be submitted at least 30 days prior to the commencement of land disturbing activities, or no later than 48 hours prior to when a new operator assumes operational control over site specifications or commences work at the site.

The application fee must accompany the NOI and is based on total acreage to be disturbed by an entire project, including any associated construction support activities (e.g., equipment staging yards, material storage areas, excavated material disposal areas, borrow or waste sites, etc.). A separate annual maintenance fee is also required for activities that exceed 1 year under CGP coverage. See TN Rules, Chapter 0400-40-11-.02(b)(12).

<b>Acres Disturbed</b>	<b>= or &gt; 150 acres</b>	<b>= or &gt; 50 &lt; 150 acres</b>	<b>= or &gt; 20 &lt; 50 acres</b>	<b>= or &gt; 5 &lt; 20 acres</b>	<b>= or &gt; 1 &lt; 5 acres</b>	<b>Subsequent coverage</b>
<b>Fee</b>	\$10,000	\$6,000	\$3,000	\$1,000	\$250	\$100

Who must submit the NOI form? All site operators must submit an NOI form. "Operator" for the purpose of this permit and in the context of SW associated with construction activity means any person associated with a construction project who meets either or both of the following two criteria: (1) The person has operational or design control over construction plans and specifications, including the ability to make modifications to those plans and specifications. This person is typically the owner or developer of the project or a portion of the project (e.g., subsequent builder), or the person that is the current land owner of the construction site, and is considered the primary permittee; or (2) The person has day-to-day operational control of those activities at a project which are necessary to ensure compliance with a SWPPP for the site or other permit conditions. This person is typically a contractor or a commercial builder who is hired by the primary permittee, and is considered a secondary permittee.

Owners, developers and all contractors that meet the definition of the operator in subsection 2.2 of the permit shall apply for permit coverage on the same NOI, insofar as possible. After permit coverage has been granted to the initial site-wide primary permittee, any subsequent NOI submittals must include the site's previously assigned permit tracking number and the project name. The comprehensive site-specific SWPPP shall be prepared in accordance with the requirements of part 3 of the permit and must be submitted with the NOI unless the NOI being submitted is to add a subsequent permittee to an existing coverage. **Artificial entities (e.g., corporations or partnerships) must submit the correct Tennessee Secretary of State, Division of Business Services, control number. General partnerships. For general partnerships, the NOI must be signed by each general partner in the general partnership.**

**The NOI will be considered incomplete without a correct control number, and the division reserves the right to deny coverage to artificial entities that are not properly registered and in good standing with the Tennessee Secretary of State (i.e., listed with an entity status of "active"). The division further reserves the right to issue permit coverage in the correct legal name of the individual or entity seeking coverage and to name each general partner of a general partnership in addition to the general partnership.**

Complete the form: Type or print clearly. Answer each item or enter "NA," for not applicable. If you need additional space, attach a separate piece of paper to the NOI form. **The NOI will be considered incomplete without a permit fee and comprehensive site-specific SWPPP (if applicable).**

Describe and locate the project: Use the legal or official name of the construction site. If a construction site lacks street name or route number, give the most accurate information available to describe the location (reference to adjacent highways, roads and structures; eg., intersection of state highways 70 and 100). Latitude and longitude (in decimal degrees) can be found at numerous other web sites. Attach a copy of a map, showing location of site, with boundaries at least one mile outside the site boundaries. Provide estimated starting date of clearing activities and completion date of the project, and an estimate of the number of acres of the site on which soil will be disturbed, including borrow areas, fill areas, stockpiles and the total acres. For linear projects, give location at each end of the construction area.

Name of the receiving waters: Trace the route of stormwater runoff from the site and determine the name of the water course(s) into which the runoff drains. Note that the water course may or may not be located on the construction site. If the first water body receiving construction site runoff is unnamed ("unnamed tributary"), determine the name of the waterbody that the unnamed tributary enters.

An ARAP may be required: **If your work will disturb or cause alterations of a stream or wetland, you must obtain an appropriate Aquatic Resource Alteration Permit (ARAP).** If wetlands are located on-site and may be impacted, attach the wetland delineation report. If you have a question about the ARAP program, contact your local Field Office (EFO).

Submitting the form and obtaining more information: Note that this form must be signed by the company President, Vice-President, or a ranking elected official in the case of a municipality, for details see subpart 2.5. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed NOI form (keep a copy for your records) to the appropriate EFO for the county(ies) where the construction activity is located, addressed to **Attention: Stormwater NOI Processing.**

Notice of Coverage: The division will review NOIs for completeness and accuracy and issue an NOC to site-wide primary operators, authorizing SW discharge from the construction site as of the effective date of the NOC. New subsequent operators will not receive an NOC, but are considered covered under the permit when their permit record is published on TDEC's dataviewer as "active" and with an effective date. TDEC Permit Dataviewer can be found at: [http://environment-online.tn.gov:8080/pls/enf\\_reports/f?p=9034:34001:0](http://environment-online.tn.gov:8080/pls/enf_reports/f?p=9034:34001:0)

<b>EFO</b>	<b>Street Address</b>	<b>Zip Code</b>	<b>EFO</b>	<b>Street Address</b>	<b>Zip Code</b>
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy, Suite 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

TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.P.	2018	NH-1-440-4(84)	S-1

# STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

## INDEX OF SHEETS

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NOTE: CITATIONS IN PARENTHESES INDICATE SECTIONS OF THE CURRENT CONSTRUCTION GENERAL PERMIT (CGP).

STORMWATER DISCHARGE OUTFALL POINTS  
CONSTRUCTION SITE MAPS

## 1 SWPPP REQUIREMENTS

1.1 HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS? (3.1.1)

- NO  
 YES (CHECK ALL THAT APPLY BELOW)
- CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
  - TENNESSEE LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
  - TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) FOR CONSTRUCTION SITES (LEVEL II)

1.2 DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, OR HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G., SEDIMENT BASINS)? (3.1.1)

- YES  
 NO

1.2.1 IF YES TO SECTION 1.2, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED, AND CERTIFIED BY A TENNESSEE LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT?

- YES  
 NO  
 N/A

1.3 DO THE PROJECT STORMWATER OUTFALLS DIRECTLY DISCHARGE INTO THE FOLLOWING? (5.4.1)

- NO  
 YES (CHECK ALL THAT APPLY BELOW)
- WATERS WITH UNAVAILABLE PARAMETERS [303(D) FOR SILTATION OR HABITAT ALTERATION]
  - EXCEPTIONAL TENNESSEE WATERS (ETW)

1.3.1 IF YES TO SECTION 1.3, HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS? (3.1.1)

- N/A  
 NO  
 YES (CHECK ALL THAT APPLY BELOW)
- CPESC
  - TENNESSEE LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
  - TDEC DESIGN PRINCIPLES FOR EPSC FOR CONSTRUCTION SITES (LEVEL II)

## 2 SITE DESCRIPTION

2.1 PROJECT LIMITS: REFER TO CONSTRUCTION SITE MAP (SHEET S-10).

2.2 PROJECT DESCRIPTION

TITLE: INTERSTATE 440 DESIGN/BUILD: RECONSTRUCTION FROM INTERSTATE 40 TO INTERSTATE 24  
COUNTY: DAVIDSON  
TDOT PIN: 125325.00

PROJECT PACKAGES	
PKG. NO.	PACKAGE NAME / CONSTRUCTION ACTIVITIES
E1	MURPHY ROAD RAMP QUEUE IMPROVEMENTS / GRADING, DRAINAGE, PAVING, SIGNALS
E2	HILLSBORO ROAD RAMP QUEUE IMPROVEMENTS / GRADING, DRAINAGE, PAVING, SIGNALS
E3	FIBER RELOCATION PACKAGE / CONDUIT, FIBER, AND DEVICE INSTALLATION/RELOCATION
E4	NOISE WALL PACKAGE / INSTALLATION OF SELECTED NOISE WALLS
E5	LIGHTING PACKAGE / CONDUIT, WIRE, AND LIGHTING FIXTURE AND POLE INSTALLATION
P1	ROADWAY PACKAGE 1 (WEST NON-WIDENING) / GRADING, DRAINAGE, PAVING, BRIDGE DECK REPAIR
P2	ROADWAY PACKAGE 2 (EAST NON-WIDENING) / GRADING, DRAINAGE, PAVING
P3	ROADWAY PACKAGE 3 (FIBER-INDEPENDENT WIDENING) / GRADING, DRAINAGE, PAVING
P4	ROADWAY PACKAGE 4 (FIBER-DEPENDENT WIDENING) / GRADING, DRAINAGE, PAVING, BRIDGE WIDENING
P5	ROADWAY PACKAGE 5 (BRIDGE WIDENING) / GRADING, DRAINAGE, PAVING, BRIDGE WIDENING

2.3 SITE MAP(S): REFER TO CONSTRUCTION SITE MAP (SHEET S-10).

2.4 DESCRIPTION OF EXISTING SITE TOPOGRAPHY: REFER TO EXISTING CONTOURS IN EPSC PLANS, DRAINAGE MAPS, AND STORMWATER DISCHARGE OUTFALL POINTS TABLE (SHEET S-9).

PACKAGE SHEET LOCATIONS		
PKG. NO.	EPSC PLANS (EX. CONTOURS)	DRAINAGE MAPS
E1	5-7	N/A
E2	6-8A	N/A
E3	E3-ES1 - E3-ES32	N/A
E4	E4-ES1 - E4-ES4	N/A
E5	E5-ES1 - E5-ES71	N/A
P1	1-ES1 - 1-ES12	1-DM1
P2	2-ES1 - 2-ES23	2-DM1 - 2-DM2
P3	3-ES1 - 3-ES45	3-DM1 - 3-DM3
P4	4-ES1 - 4-ES36	4-DM1 - 4-DM3
P5	5-ES1 - 5-ES9	N/A

2.5 MAJOR SOIL-DISTURBING ACTIVITIES (CHECK ALL THAT APPLY BELOW)

- CLEARING AND GRUBBING  
 EXCAVATION  
 CUTTING AND FILLING  
 FINAL GRADING AND SHAPING  
 UTILITIES  
 OTHER (DESCRIBE): \_\_\_\_\_

2.7 TOTAL PROJECT AREA: 476 ACRES (3.5.1.C)

2.8 TOTAL AREA TO BE DISTURBED: 80 ACRES (3.5.1.C)

2.8.1 NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.

2.9 ARE THERE ANY SEASONAL LIMITATIONS ON WORK?

- YES (LIST CORRESPONDING PLAN SHEETS): \_\_\_\_\_  
 NO

2.10 WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010? (4.1.2.2)

- YES (LIST DATE): \_\_\_\_\_ (THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE.)  
 NO

2.11 SOIL PROPERTIES (3.5.1.F) (4.1.1)

SOIL PROPERTIES			
PRIMARY SOIL NAME	HSG	% OF SITE	K-VALUE
MAURY-URBAN LAND COMPLEX, 2 TO 7 PERCENT SLOPES	B	47.2%	0.32
STIVERSVILLE-URBAN LAND COMPLEX, 3 TO 25 PERCENT SLOPES	A	18.2%	0.28
LINDELL-URBAN LAND COMPLEX	C	17.1%	0.37
MIMOSA-URBAN LAND COMPLEX, 2 TO 15 PERCENT SLOPES	C	17.0%	0.37
STIVERSVILLE LOAM, 5 TO 12 PERCENT SLOPES, ERODED	A	0.5%	0.28
LINDELL SILT LOAM, 0 TO 2 PERCENT SLOPES, OCCASIONALLY FLOODED	B/D	0.0%	0.32

2.12 IS ACID-PRODUCING ROCK (APR) (I.E., PYRITE) LOCATED WITHIN THE PROJECT LIMITS?

- YES  
 NO

2.12.1 IF YES TO SECTION 2.12, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT?

- YES  
 NO  
 N/A

2.12.2 IF YES TO SECTION 2.12, HAS A SPECIAL HANDLING PLANS AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT?

- YES (TDOT SP107L WILL BE APPLIED.)  
 NO  
 N/A

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

STORMWATER  
POLLUTION  
PREVENTION  
PLAN (S.W.P.P.P.)

**2.13 PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (3.5.1.G)**

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS				
AREA TYPE	AREA (AC)	% OF SITE	RUNOFF CN	C FACTOR
IMPERVIOUS (ROADS, SHOULDERS, ETC.)	267	56%	N/A	0.95
PERVIOUS (HSG A) (TURF MEADOWS)	35	7%	N/A	0.30
PERVIOUS (HSG A) (FORESTED AREAS)	4	1%	N/A	0.30
PERVIOUS (HSG B) (TURF MEADOWS)	90	19%	N/A	0.58
PERVIOUS (HSG B) (FORESTED AREAS)	9	2%	N/A	0.55
PERVIOUS (HSG C) (TURF MEADOWS)	64	13%	N/A	0.71
PERVIOUS (HSG C) (FORESTED AREAS)	7	2%	N/A	0.70
PERVIOUS (HSG B/D) (TURF MEADOWS)	<1	0%	N/A	0.78
PERVIOUS (HSG B/D) (FORESTED AREAS)	<1	0%	N/A	0.77
WEIGHTED CURVE NUMBER OR C-FACTOR =			N/A	0.78

RUNOFF COEFFICIENTS FOR PROPOSED CONDITIONS				
AREA TYPE	AREA (AC)	% OF SITE	RUNOFF CN	C FACTOR
IMPERVIOUS (ROADS, SHOULDERS, ETC.)	295	62%	N/A	0.95
PERVIOUS (HSG A) (TURF MEADOWS)	30	6%	N/A	0.30
PERVIOUS (HSG A) (FORESTED AREAS)	4	1%	N/A	0.30
PERVIOUS (HSG B) (TURF MEADOWS)	76	16%	N/A	0.58
PERVIOUS (HSG B) (FORESTED AREAS)	9	2%	N/A	0.55
PERVIOUS (HSG C) (TURF MEADOWS)	55	11%	N/A	0.71
PERVIOUS (HSG C) (FORESTED AREAS)	7	2%	N/A	0.70
PERVIOUS (HSG B/D) (TURF MEADOWS)	<1	0%	N/A	0.78
PERVIOUS (HSG B/D) (FORESTED AREAS)	<1	0%	N/A	0.77
WEIGHTED CURVE NUMBER OR C-FACTOR =			N/A	0.81

**3 ORDER OF CONSTRUCTION ACTIVITIES**

CONSTRUCTION SHALL BE SEQUENCED AND STAGED TO: MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS, PRESERVE TOPSOIL, AND MINIMIZE SOIL COMPACTION. NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EPSC MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE ORDER OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DEPICTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.

- 3.1 PACKAGES E1 AND E2.** PERFORM GRADING, DRAINAGE, PAVING, AND OTHER ACTIVITIES ASSOCIATED WITH MURPHY ROAD RAMP QUEUE IMPROVEMENTS AND STATE ROUTE 106 (US ROUTE 431, HILLSBORO ROAD) RAMP QUEUE IMPROVEMENTS AS INCLUDED IN RESPECTIVE PLANS PACKAGES. SEE SHEETS 5 (MURPHY ROAD) AND 6 (HILLSBORO ROAD) FOR SEQUENCING SPECIFIC TO THESE PHASES.
- 3.2 PACKAGE E4.** INSTALL PROPOSED NOISE WALLS AS INCLUDED IN NOISE WALL PLANS PACKAGE. SEE SHEET E4-ES01 FOR SEQUENCING SPECIFIC TO THIS PHASE.
- 3.3 PACKAGE E3.** INSTALL INTELLIGENT TRANSPORTATION SYSTEM (ITS) RELOCATED FIBER, CONDUIT BANKS, AND DEVICES AS INCLUDED IN FIBER RELOCATION PACKAGE. SEE SHEET E3-ES01 FOR SEQUENCING SPECIFIC TO THIS PHASE.

- 3.4 PACKAGE E5.** INSTALL NEW LIGHTING FIXTURES, STANDARDS, CONDUIT, AND WIRING AS INCLUDED IN LIGHTING PACKAGE. SEE SHEET E5-ES01 FOR SEQUENCING SPECIFIC TO THIS PHASE.
- 3.5 PACKAGES P1, P2, P3, AND P4.** PERFORM GRADING, DRAINAGE, PAVING, AND OTHER ACTIVITIES ASSOCIATED WITH GRADING PACKAGES 1 THROUGH 4 AS INCLUDED IN RESPECTIVE PLANS PACKAGES. SEE SHEETS 1-ES01 (GRADING PACKAGE 1), 2-ES01 (GRADING PACKAGE 2), 3-ES01 (GRADING PACKAGE 3), AND 4-ES01 (GRADING PACKAGE 4) FOR SEQUENCING SPECIFIC TO THESE PHASES.
- 3.6 PACKAGE P5.** PERFORM GRADING, DRAINAGE, PAVING, AND OTHER ACTIVITIES ASSOCIATED WITH GRADING PACKAGE 5 (INTERSTATE 440 INTERCHANGE BRIDGE WIDENING OVER INTERSTATE 65) AS INCLUDED IN PLANS PACKAGE. SEE SHEET E5-ES01 FOR SEQUENCING SPECIFIC TO THIS PACKAGE.

**4 STREAM, OUTFALL, WETLAND, TMDL, AND ECOLOGY INFORMATION**

**4.1 STREAM INFORMATION (3.5.1.J) (3.5.1.K)**

- 4.1.1 WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS (EPSC) IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS?
  - YES [THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.]
  - NO
- 4.1.2 HAVE ANY OF THE RECEIVING STATE WATERS LESS THAN OR EQUAL TO 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS? (CHECK ALL THAT APPLY)
  - WATERS WITH UNAVAILABLE PARAMETERS [303(D) FOR SILTATION]
  - WATERS WITH UNAVAILABLE PARAMETERS [303(D) FOR HABITAT ALTERATION]
  - EXCEPTIONAL TENNESSEE WATERS (ETW)

**4.1.3 RECEIVING WATERS OF THE STATE (3.5.1.K)**

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303D WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-1	UT TO BOSLEY SPRINGS BRANCH	NO	NO	YES	YES
STR-2	UT TO BROWNS CREEK	NO	NO	NO	YES
STR-3	UT TO BROWNS CREEK	NO	NO	YES	YES
STR-4	UT TO BROWNS CREEK	NO	NO	NO	YES
STR-5	WEST FORK BROWNS CREEK	NO	NO	YES	YES
STR-6	MIDDLE FORK BROWNS CREEK	NO	NO	NO	YES
STR-7	EAST FORK BROWNS CREEK	NO	NO	YES	YES
STR-8	UT TO MILL CREEK	NO	NO	YES	YES

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303D WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-9	MURPHY ROAD BRANCH	NO	NO	NO	YES
STR-10	BOSLEY SPRINGS BRANCH	NO	NO	NO	YES
STR-11	BROWNS CREEK	NO	NO	NO	YES
STR-12	UT TO MILL CREEK	NO	YES	NO	YES
STR-13	MILL CREEK	YES	YES	NO	YES

- 4.1.4 ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (4.1.2) (5.4.2)
  - YES (INCLUDED ON EPSC PLAN SHEETS)
  - NO

**4.1.4.1 IF YES TO SECTION 4.1.4, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.**

- 60 FEET FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30 FEET). A 60 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM WITH THIS DESIGNATION SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 60 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 30 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.
- 30-FEET FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15-FEET). A 30 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

- 4.1.5 ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (9.0)

- YES
- NO

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TRANSPORTATION

STORMWATER  
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4.1.6 ARE THERE WATER QUALITY RIPRARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1)  
 YES (EXISTING CONDITIONS DESCRIPTION: \_\_\_\_\_)  
 NO

4.1.7 EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (5.4.2.)

4.1.8 BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

4.1.9 WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPs) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MUST BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CGP. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

#### 4.2 RECEIVING WATERS OF THE UNITED STATES (WOTUS) (EPHEMERAL)

4.2.1 WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) IMPACT ANY WOTUS (EPHEMERAL)?  
 NO  
 YES (LISTED BELOW)

RECEIVING WOTUS (EPHEMERAL) INFORMATION		
TDOT WOTUS LABEL	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN 15-FT OF THE PROJECT LIMITS (YES OR NO)
WWC-1/EPH-1	YES	YES
WWC-2/EPH-2	NO	YES
WWC-3/EPH-3	NO	YES
WWC-4/EPH-4	NO	YES
WWC-5/EPH-5	YES	YES
WWC-6/EPH-6	YES	YES

4.2.2 ARE WATER QUALITY RIPRARIAN BUFFER ZONES REQUIRED FOR WOTUS? (4.1.2)  
 YES (INCLUDED ON EPSC PLAN SHEETS)  
 NO

4.2.2.1 IF YES TO SECTION 4.2.2, A 15 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING EPHEMERAL STREAM IDENTIFIED AS A WOTUS (EPHEMERAL) BY THE U.S. ARMY CORPS OF ENGINEERS (USACE) OR THE ENVIRONMENTAL PROTECTION AGENCY SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE.

4.2.3 ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR WOTUS (EPHEMERAL) DUE TO A USACE PERMIT?  
 YES  
 NO

#### 4.3 OUTFALL INFORMATION

4.3.1 SEE SWPPP SHEET(S) S-10 – S-19 FOR OUTFALL INFORMATION. (3.5.1.E)

4.3.2 HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS? (3.5.1.H)  
 YES

NO (KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS ARE SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.)

4.3.3 HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER? (2.6.2)

YES

NO (KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS ARE SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.)

4.3.4 WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?

YES

NO

N/A

4.3.5 ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S)?

YES

NO

N/A

4.3.6 A SEDIMENT BASIN OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS. A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (3.5.3.3) OR OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS. A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (5.4.1.G). IN BOTH INSTANCES, THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

#### 4.4 WETLAND INFORMATION

4.4.1 WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS (EPSC) IMPACT ANY WETLANDS?

YES (THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND IN THE WATER QUALITY PERMITS)

NO

#### 4.5 TOTAL MAXIMUM DAILY LOAD (TMDL) INFORMATION (3.5.10)

4.5.1 IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?

YES

NO

4.5.2 IF YES TO SECTION 4.5.1, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?

YES

NO

N/A

4.5.3 IF YES TO SECTION 4.5.2, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(D) LISTED STREAM FOR SILTATION OR HABITAT ALTERATION?

YES

NO

N/A

4.5.4 IF YES TO SECTION 4.5.3, HAS A SUMMARY OF THE CONSULTATION LETTER BEEN SUBMITTED/RECEIVED?

YES

NO

N/A

#### 4.6 ECOLOGY INFORMATION (3.5.5.E)

4.6.1 DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?

YES (INCLUDED ON PLAN SHEETS \_\_\_\_\_)

NO

#### 4.7 ENVIRONMENTAL COMMITMENTS

4.7.1 ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

YES (INCLUDED ON PLAN SHEETS 1B IN ALL PACKAGES.)

NO

#### 5 EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES

5.1 EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE EROSION. (4.1.1)

5.2 EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS, STREAM CHANNELS, AND STREAM BANKS. (4.1.1)

5.3 HAVE THE CONTROL MEASURES BEEN DESIGNED PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA? (3.5.3.3)

YES

NO

5.4 THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 5-YEAR, 24-HOUR STORM EVENT (CORRESPONDING TO AN INTENSITY OF APPROXIMATELY 0.18 INCHES PER HOUR OR 4.32 INCHES OF PRECIPITATION ACROSS THE EVENT). (3.5.3.3) (5.4.1.A)

5.5 ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS? (3.5.1.H)

YES

NO

5.6 AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.

5.7 UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.

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- 5.8 CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
- 5.9 HAVE STAGED EPSC PLANS BEEN PREPARED FOR THE PROJECT? (3.5.2)
  - NO
  - YES (IF YES, CHECK ONE BELOW)
- 5.9.1  PROJECT DISTURBED AREA IS LESS THAN 5 ACRES (MINIMUM OF TWO STAGES OF EPSC PLANS)
- 5.9.2  PROJECT DISTURBED AREA IS GREATER THAN 5 ACRES (MINIMUM OF THREE STAGES OF EPSC PLANS)
- 5.10 HAVE STEEP SLOPES (DEFINED AS NATURAL OR CREATED SLOPES OF GRADES 35% OR GREATER, REGARDLESS OF HEIGHT) BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE? (3.5.3.2)
  - YES
  - NO
- 5.11 THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (3.5.1.J). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET S-8. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.
- 5.12 THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET ES-02 HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (3.5.3.1.B).
- 5.13 EPSC MEASURES SHALL BE INSTALLED PER TDOT STANDARDS (I.E. STANDARD DRAWINGS) AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.
- 5.14 EPSC MEASURES WILL NOT BE INSTALLED WITHIN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.
- 5.15 TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE A PRECIPITATION EVENT.
- 5.16 EPSC MEASURES LOCATED IN WOTUS (EPHEMERAL STREAMS) MUST BE CONSIDERED TEMPORARY AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.
- 5.17 THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT. SEDIMENT THAT MIGRATES INTO WATERS OF THE STATE/US SHALL NOT BE REMOVED WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.
- 5.18 OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- 5.19 THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET ES-02. (3.5.3.1.N)
- 5.20 DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.4).

- 5.21 SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.
- 5.22 DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (4.1.7).
- 5.23 THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.
- 5.24 WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.
- 5.25 DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.
- 5.26 STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 14 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (3.5.3.1.H).
- 5.27 STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 14 DAYS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (3.5.3.2).
- 5.28 PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE
- 5.29 DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.
- 5.30 A SOIL ANALYSIS SHALL BE PERFORMED PRIOR TO THE APPLICATION OF FERTILIZERS TO ANY PORTION OF THE STE. SOILS SHOULD BE ANALYZED FOR PH, BUFFER VALUE, PHOSPHOROUS, POTASSIUM, CALCIUM AND MAGNESIUM. SOIL SAMPLES SHOULD BE REPRESENTATIVE OF THE AREA FOR WHICH FERTILIZER WILL BE APPLIED. SAMPLE TYPE SHOULD BE COLLECTED AND ANALYZED IN ACCORDANCE WITH THE UT EXTENSION "SOIL TESTING" BROCHURE PB1061. (4.1.5.)
- 5.31 FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED FROM THE ANALYSES. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- 5.32 STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (3.5.3.2).

**6 FLOCCULANTS**

IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUN-OFF NECESSARY? (5.4.1 A)

YES

NO

IF YES, THE FOLLOWING NOTES APPLY:

- 6.1 POLYACRYLAMIDES (PAM) SHALL BE OF THE ANIONIC OR NEUTRALLY CHARGED TYPE ONLY. PAM REQUIREMENTS ARE AS FOLLOWS:
  - 6.1.1 CATIONIC PAM IS NOT ALLOWED BECAUSE OF ITS TOXICITY TO FISH AND AQUATIC LIFE.
  - 6.1.2 ANIONIC AND NEUTRALLY CHARGED PAM SHALL MEET THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR LESS THAN 0.05% BY WEIGHT ACRYLAMIDE MONOMER.
  - 6.1.3 ANIONIC AND NEUTRALLY CHARGED PAM SHALL HAVE A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLES.
  - 6.1.4 PAM MIXTURES SHALL BE NON-COMBUSTIBLE.
  - 6.1.5 PAM SHALL CONTAIN ONLY MANUFACTURER-RECOMMENDED ADDITIVES.
- 6.2 ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE RESEARCHED, APPLIED IN ACCORDANCE WITH MANUFACTURE'S GUIDELINES AND FULLY DESCRIBED ON THE EPSC PLANS (3.5.3.1.B).
- 6.3 FLOCCULANTS SHALL BE HANDLED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET (MSDS) REQUIREMENTS AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USE CONFORMING TO ALL FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS.
- 6.4 ALL VENDORS AND SUPPLIERS OF FLOCCULANTS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT FOR BOTH ACUTE AND CHRONIC TOXICITY TESTS WHICH VERIFIES THAT THE FLOCCULANT EXHIBITS ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPA REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED.
- 6.5 DO NOT APPLY FLOCCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF ANY STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCE LOCATED ON OR ADJACENT TO THE CONSTRUCTION SITE. DO NOT APPLY FLOCCULANTS DIRECTLY INTO WATERS CONTAINED WITHIN SEDIMENT PONDS OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY INTO A STREAM, WETLAND, OR OTHER NATURAL WATER RESOURCE. DO NOT APPLY FLOCCULANTS IMMEDIATELY AT A STORMWATER OUTFALL WHERE RUNOFF LEAVES THE PROJECT LIMITS.
- 6.6 BEFORE FLOCCULANTS CAN BE USED ON A CONSTRUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES MUST BE OBTAINED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE, TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND APPLICATION RATE. SINCE FLOCCULANT EFFICACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION OR DOSAGE RATE. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. DO NOT APPLY EMULSION FORMS OF FLOCCULANTS DIRECTLY TO STORMWATER RUNOFF OR TO STREAMS, WETLANDS, OR OTHER WATER RESOURCES DUE TO SURFACTANT TOXICITY.
- 6.7 FLOCCULANT POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER. IF APPROVED BY THE MANUFACTURER, FLOCCULANT MAY BE MIXED WITH DRY SILICA SAND, FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS TO AID IN SPREADING. FLOCCULANTS MAY ALSO BE APPLIED WITH A WATER TRUCK OR AS PART OF HYDRO-SEEDING. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.
- 6.8 MANUFACTURER'S GUIDANCE SHOULD BE FOLLOWED FOR BLOCK, LOG AND SOCK SPACING CONFIGURATIONS. BEFORE FLOCCULANTS CAN BE USED ON A CONSTRUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES MUST BE OBTAINED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE, TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND APPLICATION RATE. SINCE FLOCCULANT EFFICACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION OR DOSAGE RATE.

**7 UTILITY RELOCATION**

ARE UTILITIES INCLUDED IN THE CONTRACT?

YES

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NO

IF YES, THE FOLLOWING NOTES APPLY:

- 7.1 STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.
- 7.2 SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADE SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.
- 7.3 UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.
- 7.4 IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.
- 7.5 FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.
- 7.6 IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.
- 7.7 TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.
- 7.8 FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
- 7.9 THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.
- 7.10 THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.
- 7.11 FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:
  - 7.11.1 THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.
  - 7.11.2 THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.
  - 7.11.3 A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

## 8 MAINTENANCE AND INSPECTION

### 8.1 INSPECTION PRACTICES (3.5.8)

- 8.1.1 PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (3.5.8.1.):
  - 8.1.1.1 SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.
  - 8.1.1.2 SUCCESSFULLY COMPLETED THE TDEC "LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.
  - 8.1.1.3 BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.
  - 8.1.1.4 BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).
  - 8.1.1.5 SUCCESSFULLY COMPLETED TDEC "LEVEL II - DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.
- 8.1.2 THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
- 8.1.3 THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 "INSPECTOR") (3.5.1.O).
- 8.1.4 EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.
- 8.1.5 OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
- 8.1.6 INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (3.5.8.2.A). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.
- 8.1.7 THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (3.5.8.2.A).
- 8.1.8 ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (3.5.8.2.B).
- 8.1.9 THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26A PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 "INSPECTOR").

- 8.1.10 THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 7 DAYS OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.E AND 3.5.8.2.F).
- 8.1.11 DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.
- 8.1.12 THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET FINAL STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.
- 8.1.13 TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (3.5.8.2.H).

### 8.2 DULY AUTHORIZED REPRESENTATIVE (7.7.3)

- 8.2.1 THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.

### 8.3 MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)

- 8.3.1 ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (3.5.3.1.B)
- 8.3.2 MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 8.3.3 UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (3.5.8.2.E).
- 8.3.4 SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (3.5.3.1.E).
- 8.3.5 DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.
- 8.3.6 CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (1/2) THE HEIGHT OF THE DAM.
- 8.3.7 SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.
- 8.3.8 LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (3.5.3.1.F).
- 8.3.9 ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

STORMWATER  
POLLUTION  
PREVENTION  
PLAN (S.W.P.P.P.)

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**9 SITE ASSESSMENTS**

QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE GUIDELINES.

**10 STORMWATER MANAGEMENT**

10.1 STORMWATER MANAGEMENT WILL BE HANDLED BY TEMPORARY CONTROLS OUTLINED IN THIS SWPPP AND ANY PERMANENT CONTROLS NEEDED TO MEET PERMANENT STORMWATER MANAGEMENT NEEDS IN THE POST-CONSTRUCTION PERIOD. PERMANENT CONTROLS WILL BE DEPICTED ON THE PLANS AND NOTED AS PERMANENT.

10.2 DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION: N/A (3.5.4).

**10.3 OTHER ITEMS NEEDING CONTROL (3.5.5)**

**10.3.1 CONSTRUCTION MATERIALS:** THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD: (CHECK ALL THAT APPLY)

- LUMBER, GUARDRAIL, AND/OR TRAFFIC CONTROL DEVICES
- CONCRETE WASHOUT
- PIPE CULVERTS (I.E., CONCRETE, CORRUGATED METAL, HDPE, ETC.)
- MINERAL AGGREGATES AND/OR ASPHALT
- EARTH
- LIQUID TRAFFIC STRIPING MATERIALS AND/OR PAINT
- ROCK
- CURING COMPOUND
- EXPLOSIVES
- OTHER (DESCRIBE): HDPE CONDUIT, ELECTRICAL WIRING, FIBER OPTICS, ITS DEVICES, AND LIGHT FIXTURES AND STANDARDS.

**10.3.2 WASTE MATERIALS: (3.5.5.B)** WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH THE TDOT CONSTRUCTION CONTRACT AND FEDERAL AND STATE REGULATIONS. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S) CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

**10.3.3 HAZARDOUS WASTE: (3.5.5.C) (7.9)** ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S ON-SITE REPRESENTATIVE WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

**10.3.4 SANITARY WASTE: (3.5.5.B)** PORTABLE SANITARY FACILITIES WILL BE PROVIDED ON ALL CONSTRUCTION SITES. SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL REGULATIONS. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

**10.3.5 OTHER MATERIALS:** THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD AND WILL BE HANDLED AS NOTED IN THIS SWPPP: (CHECK ALL THAT APPLY)

- FERTILIZERS AND LIME
- PESTICIDES AND/OR HERBICIDES
- DIESEL AND GASOLINE
- MACHINERY LUBRICANTS (OIL AND GREASE)

**11 NON-STORMWATER DISCHARGES**

11.1 THE FOLLOWING NON-STORMWATER DISCHARGES ARE ANTICIPATED DURING THE CONSTRUCTION OF THIS PROJECT: (CHECK ALL THAT APPLY)

- DEWATERING OF WORK AREAS OF COLLECTED STORMWATER AND GROUND WATER
- WATERS USED TO WASH VEHICLES (OF DUST AND SOIL) WHERE DETERGENTS ARE NOT USED AND DETENTION AND/OR FILTERING IS PROVIDED BEFORE THE WATER LEAVES THE SITE
- WATER USED TO CONTROL DUST (3.5.3.1.N)
- POTABLE WATER SOURCES, INCLUDING WATER LINE FLUSHING, FROM WHICH CHLORINE HAS BEEN REMOVED TO THE MAXIMUM EXTENT PRACTICABLE
- UNCONTAMINATED GROUNDWATER OR SPRING WATER
- FOUNDATION OR FOOTING DRAINS WHERE FLOWS ARE NOT CONTAMINATED WITH POLLUTANTS
- OTHER (DESCRIBE): \_\_\_\_\_

11.2 ALL ALLOWABLE NON-STORMWATER DISCHARGES WILL BE DIRECTED TO STABLE DISCHARGE STRUCTURES PRIOR TO LEAVING THE SITE. FILTERING OR CHEMICAL TREATMENT MAY BE NECESSARY PRIOR TO DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

11.3 THE DESIGN OF ALL IMPACTED EPSC MEASURES RECEIVING FLOW FROM ALLOWABLE NON-STORMWATER DISCHARGES MUST BE DESIGNED TO HANDLE THE VOLUME OF THE NON-STORMWATER COMPONENT.

11.4 WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS WILL NOT BE PERMITTED ON-SITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

11.5 ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION STORMWATER) ACTIVITY EXPECTED? (3.5.1.I)

- NO
- YES (SPECIFY THE LOCATION OF THE ACTIVITY AND ITS PERMIT NUMBER): \_\_\_\_\_

**12 SPILL PREVENTION, MANAGEMENT, AND NOTIFICATION**

**12.1 SPILL PREVENTION (3.5.5.C)**

12.1.1 CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ON-SITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE TANKS WITH AGGREGATE STORAGE CAPACITY IN EXCESS OF 1,320 GALLONS SHALL HAVE SECONDARY CONTAINMENT.

12.1.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN AS REQUIRED BY TDOT SPECIAL PROVISION 107FP (REGARDING WATER QUALITY AND STORM WATER PERMITS) AND THE LAW.

12.1.3 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ON-SITE AND A COPY PROVIDED TO THE TDOT CONSTRUCTION ENGINEER.

**12.2 MATERIAL MANAGEMENT**

**12.2.1 HOUSEKEEPING ONLY NEEDED PRODUCTS** WILL BE STORED ON-SITE BY THE CONTRACTOR. EXCEPT FOR BULK MATERIALS THE CONTRACTOR WILL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING WILL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. WHEN POSSIBLE, ALL PRODUCTS WILL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS WILL BE FOLLOWED. THE CONTRACTOR'S SITE SUPERINTENDENT WILL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL. DUST GENERATED WILL BE CONTROLLED IN AN ENVIRONMENTALLY SAFE MANNER. VEGETATION AREAS NOT ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

**12.2.2 HAZARDOUS MATERIALS:** PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THE CONTAINER IS NOT RE-SEALABLE. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS WILL BE RETAINED IN A SAFE PLACE TO RELAY IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURER'S LABEL DIRECTIONS FOR DISPOSAL WILL BE FOLLOWED. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND. WHEEL WASH WATER WILL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL PH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORMWATER RUNOFF.

**12.3 PRODUCT-SPECIFIC PRACTICES**

**12.3.1 PETROLEUM PRODUCTS:** ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.

**12.3.2 FERTILIZERS:** FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED BY THE SOIL ANALYSIS OR TDOT. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER. FERTILIZERS WILL BE STORED IN AN ENCLOSED AREA UNDER COVER. THE CONTENTS OF PARTIALLY USED FERTILIZER BAGS WILL BE TRANSFERRED TO SEALABLE CONTAINERS TO AVOID SPILLS.

**12.3.3 PAINTS:** ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. THE EXCESS WILL BE DISPOSED OF PER THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

**12.3.4 CONCRETE TRUCKS:** CONTRACTORS WILL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED AND NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE. UPON COMPLETION OF CONSTRUCTION WASHOUT AREAS WILL BE PROPERLY STABILIZED.

**12.4 SPILL MANAGEMENT:** IN ADDITION TO THE PREVIOUS HOUSEKEEPING AND MANAGEMENT PRACTICES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP IF NECESSARY.

12.4.1 FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.

12.4.2 APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. AS APPROPRIATE, EQUIPMENT AND MATERIALS MAY INCLUDE ITEMS SUCH AS BOOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR CLEAN UP PURPOSES.



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- 12.4.3 ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
  - 12.4.4 THE CONTRACTOR'S RESPONSIBLE PARTY WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.
  - 12.4.5 IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS, PERSONNEL WILL RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.
  - 12.4.6 IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.
  - 12.4.7 IF A SPILL OCCURS THE CONTRACTOR'S SITE SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT CONSTRUCTION ENGINEER AND/OR PROJECT ENGINEER. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUND-WATER, SHOULD A SPILL OCCUR.
  - 12.4.8 APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.
- 12.5 SPILL NOTIFICATION:** WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO, OR MORE THAN A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD:
- 12.5.1 THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.
  - 12.5.2 THE TDOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.
  - 12.5.3 IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE.
  - 12.5.4 THE SWPPP MUST BE MODIFIED WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE, CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

**13 RECORD-KEEPING**

- 13.1 REQUIRED RECORDS:** TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (3.5.3.1.M) (4.1.5.) (6.2.1):
- 13.1.1 THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.
  - 13.1.2 THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE.
  - 13.1.3 THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
  - 13.1.4 RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.
  - 13.1.5 RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

- 13.1.6 COPY OF SITE EPSC INSPECTOR'S CERTIFICATION AND/OR LICENSING
- 13.1.7 COPY OF REQUIRED SOIL ANALYSIS
- 13.1.8 A COPY OF ANY REGULATORY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS.

**13.2 RAINFALL MONITORING PLAN**

- 13.2.1 EQUIPMENT:** AT A MINIMUM, THE CONTRACTOR WILL INSTALL A FENCE POST TYPE RAIN GAUGE TO MEASURE RAINFALL. THE STANDARD FENCE POST RAIN GAUGE WILL BE A WEDGE-SHAPED GAUGE THAT MEASURES UP TO 6 INCHES OF RAINFALL. AN ENGLISH SCALE WILL BE PROVIDED ON ONE FACE, WITH A METRIC SCALE ON THE OTHER FACE. GRADUATION WILL BE PERMANENTLY MOLDED IN DURABLE WEATHER-RESISTANT PLASTIC. THE MINIMUM GRADUATION WILL BE 0.01 INCH (OR 0.1MM). AN ALUMINUM BRACKET WITH SCREWS MAY BE USED TO MOUNT THE GAUGE ON A WOODEN SUPPORT.
- 13.2.2 LOCATION:** THE RAIN GAUGE WILL BE LOCATED AT OR ALONG THE PROJECT SITE, AS DEFINED IN THE NOI OF THE NPDES PERMIT, IN AN OPEN AREA SUCH THAT THE MEASUREMENT WILL NOT BE INFLUENCED BY OUTSIDE FACTORS (I.E. OVERHANGS, GUTTER, TREES, ETC.). AT LEAST ONE RAIN GAUGE PER LINEAR MILE IS REQUIRED ALONG (AS MEASURED ALONG THE CENTERLINE OF THE PRIMARY ALIGNMENT) THE PROJECT WHERE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING IS ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED.
- 13.2.3 METHODS:** RAINFALL MONITORING WILL BE INITIATED PRIOR TO CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING, EXCEPT AS SUCH MINIMAL CLEARING MAY BE NECESSARY TO INSTALL A RAIN GAUGE IN AN OPEN AREA. THE RAIN GAUGE WILL BE CHECKED FOR OPERATIONAL SOUNDNESS DAILY (DURING NORMAL BUSINESS HOURS) IN WET TIMES AND WEEKLY IN DRY TIMES. GAUGES WILL BE REPAIRED OR REPLACED ON THE SAME DAY IF FOUND TO BE NON-OPERATIONAL OR MISSING.
- 13.2.4 EACH RAIN GAUGE WILL BE READ (FOR DETAILED RECORDS OF RAINFALL) AND EMPTIED AFTER EVERY RAINFALL EVENT OCCURRING ON THE PROJECT SITE AT APPROXIMATELY THE SAME TIME OF THE DAY (DURING NORMAL BUSINESS HOURS). DURING PERIODS OF DRY CONDITIONS, IT WILL NOT BE NECESSARY TO READ THE RAIN GAUGE EVERY DAY. IN LIEU OF THIS REQUIREMENT ON WEEKENDS AND ON STATE HOLIDAYS, THE RAIN GAUGES CAN BE EMPTIED THE NEXT BUSINESS DAY AND A REFERENCE SITE USED FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION FOR THOSE DAYS. A REFERENCE SITE IS THE DOCUMENTATION FROM THE CLOSEST GAUGE WITHIN PROXIMITY OF THE PROJECT FROM A RECOGNIZED SOURCE SUCH AS THE NOAA NATIONAL WEATHER SERVICE.
- 13.2.5 DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDE DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES). THE RAINFALL RECORDS SHALL BE RECORDED ON THE TDOT RAINFALL RECORD SHEET AND SHALL BE MAINTAINED IN THE "DOCUMENTATION AND PERMITS" BINDER.
- 13.2.6 IF THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY RECORDING TIME, THE GAUGE WILL BE EMPTIED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS.
- 13.2.7 RAIN GAUGE INFORMATION (DETAILED RECORDS), INCLUDING THE LOCATION OF THE NEAREST OUTFALL, WILL BE RECORDED ON THE EPSC INSPECTION REPORT FORMS AT THE TIME OF MEASUREMENT.

**13.3 KEEPING PLANS CURRENT (3.4)**

- 13.3.1 THE EPSC PLAN IS TO SERVE AS AN INITIAL GUIDE FOR SITE PERSONNEL AS THE CONSTRUCTION PROCESS DEVELOPS. IT MUST BE AMENDED, MODIFIED, AND UPDATED WHENEVER EPSC INSPECTIONS INDICATE, OR WHERE STATE OR FEDERAL REGULATORY OFFICIALS DETERMINE EPSC MEASURES ARE PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR ARE OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY.

- 13.3.2 THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.
- 13.3.3 THE TDOT EPSC INSPECTOR OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:
- 13.3.3.1 WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;
  - 13.3.3.2 WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM CONSTRUCTION ACTIVITY SOURCES, OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY; WHERE LOCAL, STATE, OR FEDERAL OFFICIALS DETERMINE THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, A COPY OF ANY CORRESPONDENCE TO THAT EFFECT MUST BE RETAINED IN THE SWPPP;
  - 13.3.3.3 WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP;
  - 13.3.3.4 TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA;
  - 13.3.3.5 WHEN THERE IS A CHANGE IN CHEMICAL TREATMENT METHODS INCLUDING: USE OF DIFFERENT TREATMENT CHEMICALS, DIFFERENT DOSAGE OR APPLICATION RATES OR A DIFFERENT AREA OF APPLICATION NOT SPECIFIED ON THE EPSC PLANS.
  - 13.3.3.6 ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN 7 DAYS BY THE PROJECT EPSC INSPECTOR.
  - 13.3.3.7 WHEN A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION), CONSTRUCTION SHALL NOTIFY THE PERMITS SECTION FOR PROPER COORDINATION.

**13.4 MAKING PLANS ACCESSIBLE**

- 13.4.1 TDOT WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF FINAL STABILIZATION. TDOT WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE (6.2).
- 13.4.2 PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE FINAL STABILIZATION CRITERIA, TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (3.3.3) (6.2.1):
- 13.4.2.1 A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE NPDES PERMIT NUMBER FOR THE PROJECT;
  - 13.4.2.2 THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT;
  - 13.4.2.3 A BRIEF DESCRIPTION OF THE PROJECT; AND
  - 13.4.2.4 THE LOCATION OF THE SWPPP.
- 13.4.3 ALL INFORMATION DESCRIBED IN SECTION 13.4.2 MUST BE MAINTAINED IN LEGIBLE CONDITION. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE DUE TO SAFETY CONCERNS, THE NOTICE SHALL BE POSTED IN A LOCAL BUILDING. THE NOTICE MUST BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

STORMWATER  
POLLUTION  
PREVENTION  
PLAN (S.W.P.P.P.)



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S.W.P.P.P.	2018	NH-1-440-4(84)	S-8


**13.5 NOTICE OF TERMINATION (8.0)**

- 13.5.1 WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED BY FINAL STABILIZATION, THE TDOT REGIONAL ENGINEER WILL SUBMIT A NOTICE OF TERMINATION (NOT) THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT TO THE TDEC CENTRAL OFFICE IN NASHVILLE, TN.
- 13.5.2 FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE NOT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE FOLLOWING:
  - 13.5.2.1 ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN FINALLY STABILIZED; AND
  - 13.5.2.2 ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND
  - 13.5.2.3 ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND
  - 13.5.2.4 ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND
  - 13.5.2.5 THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE; AND
  - 13.5.2.6 TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE FINAL STABILIZATION IS MAINTAINED; AND
  - 13.5.2.7 ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.

**13.6 RETENTION OF RECORDS (6.2):** TDOT WILL RETAIN COPIES OF THE SWPPP, ALL REPORTS REQUIRED BY THE PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR THE PROJECT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THE NOT WAS FILED.

**14 SITE-WIDE / PRIMARY PERMITTEE CERTIFICATION**

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.

  
 AUTHORIZED PERSONNEL SIGNATURE (3.3.1)

CHRIS FROBERG  
 PRINTED NAME

AREA MANAGER  
 TITLE

10 / 23 / 2018  
 DATE

**15 SECONDARY PERMITTEE (OPERATOR) CERTIFICATION**

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 ONSITE 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.

  
 AUTHORIZED PERSONNEL SIGNATURE (3.3.1)

JORDAN GREGG  
 PRINTED NAME

PROJECT MANAGER  
 TITLE

10 / 23 / 2018  
 DATE

**16 ENVIRONMENTAL PERMITS**

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT (TO BE COMPLETED AT THE ENVIRONMENTAL PRECONSTRUCTION MEETING BY TDOT CONSTRUCTION OR THEIR DULY AUTHORIZED REPRESENTATIVE):

ENVIRONMENTAL PERMITS			
PERMIT	YES OR NO	PERMIT OR TRACKING NO.	EXPIRATION DATE*
TDEC ARAP	NO	N/A	N/A
CORPS OF ENGINEERS (USACE)	NO	N/A	N/A
TVA 26A	NO	N/A	N/A
TDEC CGP	YES		
OTHER:			

\* THE TDOT ENVIRONMENTAL DIVISION MUST BE NOTIFIED SIX MONTHS PRIOR TO PERMIT EXPIRATION DATE.

STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION

STORMWATER  
 POLLUTION  
 PREVENTION  
 PLAN (S.W.P.P.P.)



TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.P.	2018	NH-440-4(84)	S-9



BEGIN PROJ. NO. 19014-1169-04 CONST.  
 STA. 13003+89.38 I-40 E.B. RAMP TO I-440

END PROJ. NO. 19014-1169-04 CONST.  
 STA. 1376+41.58 I-440

PACKAGE P1 (WEST NON-WIDENING)  
 ESTIMATED DISTURBED AREA: 4 AC.  
 BEGIN CONSTRUCTION SPRING 2019

PACKAGE E1 (MURPHY RD. RAMP QUEUE)  
 ESTIMATED DISTURBED AREA: <1 AC.  
 BEGIN CONSTRUCTION FALL 2018

PACKAGE P3 (FIBER-INDEPENDENT WIDENING)  
 ESTIMATED DISTURBED AREA: 25 AC.  
 BEGIN CONSTRUCTION SPRING 2019

PACKAGE E2 (HILLSBORO RD. RAMP QUEUE)  
 ESTIMATED DISTURBED AREA: <1 AC.  
 BEGIN CONSTRUCTION FALL 2018

PACKAGE P5 (I-440 BRIDGE OVER I-65)  
 ESTIMATED DISTURBED AREA: 10 AC.  
 BEGIN CONSTRUCTION SPRING 2019

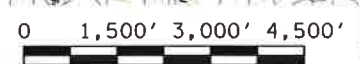
PACKAGE P2 (EAST NON-WIDENING)  
 ESTIMATED DISTURBED AREA: 8 AC.  
 BEGIN CONSTRUCTION SPRING 2019

PACKAGE E4 (NOISE BARRIERS)  
 ESTIMATED DISTURBED AREA: <1 AC.  
 BEGIN CONSTRUCTION FALL 2018

PACKAGE E5 (LIGHTING)  
 ESTIMATED DISTURBED AREA: 9 AC.  
 BEGIN CONSTRUCTION FALL 2018

PACKAGE E3 (I.T.S. FIBER RELOCATION)  
 ESTIMATED DISTURBED AREA: 3 AC.  
 BEGIN CONSTRUCTION FALL 2018

PACKAGE P4 (FIBER-DEPENDENT WIDENING)  
 ESTIMATED DISTURBED AREA: 25 AC.  
 BEGIN CONSTRUCTION SPRING 2019



STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION

CONSTRUCTION  
 PACKAGE MAP

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TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.P.	2018	NH-1-440-4(84)	S-10

NOTE: INFORMATION FOR KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. INFORMATION FOR ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.

STORMWATER DISCHARGE OUTFALL POINTS																						
NO.	ROADWAY	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA (AC.)	STAGE 1 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA (AC.)	STAGE 2 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA (AC.)	STAGE 3 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 3 TOTAL DRAINAGE AREA (AC.)	STAGE 4 DISTURBED DRAINAGE AREA (AC.)	STAGE 4 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 4 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN R.O.W.	COMMENTS
1										0.000			0.000			0.000			0.000			
2										0.000			0.000			0.000			0.000			
3										0.000			0.000			0.000			0.000			
4										0.000			0.000			0.000			0.000			
5										0.000			0.000			0.000			0.000			
6										0.000			0.000			0.000			0.000			
7										0.000			0.000			0.000			0.000			
8										0.000			0.000			0.000			0.000			
9										0.000			0.000			0.000			0.000			
10										0.000			0.000			0.000			0.000			
11										0.000			0.000			0.000			0.000			
12										0.000			0.000			0.000			0.000			
13										0.000			0.000			0.000			0.000			
14										0.000			0.000			0.000			0.000			
15										0.000			0.000			0.000			0.000			
16										0.000			0.000			0.000			0.000			
17										0.000			0.000			0.000			0.000			
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46										0.000			0.000			0.000			0.000			
47										0.000			0.000			0.000			0.000			
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59										0.000			0.000			0.000			0.000			
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61										0.000			0.000			0.000			0.000			
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STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION  
 STORMWATER  
 DISCHARGE  
 OUTFALL  
 POINTS



TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.P.	2018	NH-1-440-4(84)	S-12

NOTE: INFORMATION FOR KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. INFORMATION FOR ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.

STORMWATER DISCHARGE OUTFALL POINTS																							
NO.	ROADWAY	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA (AC.)	STAGE 1 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA (AC.)	STAGE 2 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA (AC.)	STAGE 3 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 3 TOTAL DRAINAGE AREA (AC.)	STAGE 4 DISTURBED DRAINAGE AREA (AC.)	STAGE 4 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 4 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN R.O.W.	COMMENTS	
127										0.000			0.000			0.000			0.000				
128										0.000			0.000			0.000			0.000				
129										0.000			0.000			0.000			0.000				
130										0.000			0.000			0.000			0.000				
131										0.000			0.000			0.000			0.000				
132										0.000			0.000			0.000			0.000				
133										0.000			0.000			0.000			0.000				
134										0.000			0.000			0.000			0.000				
135										0.000			0.000			0.000			0.000				
136										0.000			0.000			0.000			0.000				
137										0.000			0.000			0.000			0.000				
138										0.000			0.000			0.000			0.000				
139										0.000			0.000			0.000			0.000				
140										0.000			0.000			0.000			0.000				
141										0.000			0.000			0.000			0.000				
142										0.000			0.000			0.000			0.000				
143										0.000			0.000			0.000			0.000				
144										0.000			0.000			0.000			0.000				
145										0.000			0.000			0.000			0.000				
146										0.000			0.000			0.000			0.000				
147										0.000			0.000			0.000			0.000				
148										0.000			0.000			0.000			0.000				
149										0.000			0.000			0.000			0.000				
150										0.000			0.000			0.000			0.000				
151										0.000			0.000			0.000			0.000				
152										0.000			0.000			0.000			0.000				
153										0.000			0.000			0.000			0.000				
154										0.000			0.000			0.000			0.000				
155										0.000			0.000			0.000			0.000				
156										0.000			0.000			0.000			0.000				
157										0.000			0.000			0.000			0.000				
158										0.000			0.000			0.000			0.000				
159										0.000			0.000			0.000			0.000				
160										0.000			0.000			0.000			0.000				
161										0.000			0.000			0.000			0.000				
162										0.000			0.000			0.000			0.000				
163										0.000			0.000			0.000			0.000				
164										0.000			0.000			0.000			0.000				
165										0.000			0.000			0.000			0.000				
166										0.000			0.000			0.000			0.000				
167										0.000			0.000			0.000			0.000				
168										0.000			0.000			0.000			0.000				
169										0.000			0.000			0.000			0.000				
170										0.000			0.000			0.000			0.000				
171										0.000			0.000			0.000			0.000				
172										0.000			0.000			0.000			0.000				
173										0.000			0.000			0.000			0.000				
174										0.000			0.000			0.000			0.000				
175										0.000			0.000			0.000			0.000				
176										0.000			0.000			0.000			0.000				
177										0.000			0.000			0.000			0.000				
178										0.000			0.000			0.000			0.000				
179										0.000			0.000			0.000			0.000				
180										0.000			0.000			0.000			0.000				
181										0.000			0.000			0.000			0.000				
182										0.000			0.000			0.000			0.000				
183										0.000			0.000			0.000			0.000				
184										0.000			0.000			0.000			0.000				
185										0.000			0.000			0.000			0.000				
186										0.000			0.000			0.000			0.000				
187										0.000			0.000			0.000			0.000				
188										0.000			0.000			0.000			0.000				
189										0.000			0.000			0.000			0.000				

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

STORMWATER  
DISCHARGE  
OUTFALL  
POINTS



NOTE: INFORMATION FOR KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. INFORMATION FOR ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.	2018	NH-1-440-4(84)	S-13

**STORMWATER DISCHARGE OUTFALL POINTS**

NO.	ROADWAY	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA (AC.)	STAGE 1 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA (AC.)	STAGE 2 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA (AC.)	STAGE 3 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 3 TOTAL DRAINAGE AREA (AC.)	STAGE 4 DISTURBED DRAINAGE AREA (AC.)	STAGE 4 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 4 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN R.O.W.	COMMENTS
190										0.000			0.000			0.000			0.000			
191										0.000			0.000			0.000			0.000			
192										0.000			0.000			0.000			0.000			
193										0.000			0.000			0.000			0.000			
194										0.000			0.000			0.000			0.000			
195										0.000			0.000			0.000			0.000			
196										0.000			0.000			0.000			0.000			
197										0.000			0.000			0.000			0.000			
198										0.000			0.000			0.000			0.000			
199										0.000			0.000			0.000			0.000			
200										0.000			0.000			0.000			0.000			
201										0.000			0.000			0.000			0.000			
202										0.000			0.000			0.000			0.000			
203										0.000			0.000			0.000			0.000			
204										0.000			0.000			0.000			0.000			
205										0.000			0.000			0.000			0.000			
206										0.000			0.000			0.000			0.000			
207										0.000			0.000			0.000			0.000			
208										0.000			0.000			0.000			0.000			
209										0.000			0.000			0.000			0.000			
210										0.000			0.000			0.000			0.000			
211										0.000			0.000			0.000			0.000			
212										0.000			0.000			0.000			0.000			
213										0.000			0.000			0.000			0.000			
214										0.000			0.000			0.000			0.000			
215										0.000			0.000			0.000			0.000			
216										0.000			0.000			0.000			0.000			
217										0.000			0.000			0.000			0.000			
218										0.000			0.000			0.000			0.000			
219										0.000			0.000			0.000			0.000			
220										0.000			0.000			0.000			0.000			
221										0.000			0.000			0.000			0.000			
222										0.000			0.000			0.000			0.000			
223										0.000			0.000			0.000			0.000			
224										0.000			0.000			0.000			0.000			
225										0.000			0.000			0.000			0.000			
226										0.000			0.000			0.000			0.000			
227										0.000			0.000			0.000			0.000			
228										0.000			0.000			0.000			0.000			
229										0.000			0.000			0.000			0.000			
230										0.000			0.000			0.000			0.000			
231										0.000			0.000			0.000			0.000			
232										0.000			0.000			0.000			0.000			
233										0.000			0.000			0.000			0.000			
234										0.000			0.000			0.000			0.000			
235										0.000			0.000			0.000			0.000			
236										0.000			0.000			0.000			0.000			
237										0.000			0.000			0.000			0.000			
238										0.000			0.000			0.000			0.000			
239										0.000			0.000			0.000			0.000			
240										0.000			0.000			0.000			0.000			
241										0.000			0.000			0.000			0.000			
242										0.000			0.000			0.000			0.000			
243										0.000			0.000			0.000			0.000			
244										0.000			0.000			0.000			0.000			
245										0.000			0.000			0.000			0.000			
246										0.000			0.000			0.000			0.000			
247										0.000			0.000			0.000			0.000			
248										0.000			0.000			0.000			0.000			
249										0.000			0.000			0.000			0.000			
250										0.000			0.000			0.000			0.000			
251										0.000			0.000			0.000			0.000			
252										0.000			0.000			0.000			0.000			

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STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION  
 STORMWATER  
 DISCHARGE  
 OUTFALL  
 POINTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.P.	2018	NH-1-440-4(84)	S-14

NOTE: INFORMATION FOR KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. INFORMATION FOR ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.

STORMWATER DISCHARGE OUTFALL POINTS																						
NO.	ROADWAY	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA (AC.)	STAGE 1 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA (AC.)	STAGE 2 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA (AC.)	STAGE 3 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 3 TOTAL DRAINAGE AREA (AC.)	STAGE 4 DISTURBED DRAINAGE AREA (AC.)	STAGE 4 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 4 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN R.O.W.	COMMENTS
253										0.000			0.000			0.000			0.000			
254										0.000			0.000			0.000			0.000			
255										0.000			0.000			0.000			0.000			
256										0.000			0.000			0.000			0.000			
257										0.000			0.000			0.000			0.000			
258										0.000			0.000			0.000			0.000			
259										0.000			0.000			0.000			0.000			
260	10440	14+78.49	25.32	LT.	#N/A	EX. CATCH BASIN	SYSTEM	0.000	0.642	0.642	0.000	0.642	0.642	0.000	0.642	0.642	#N/A	#N/A	#N/A	NO	8.00%	Package E2, Sheet 7
261	10440	101+73.12	48.03	RT.	#N/A	EX. CATCH BASIN	SYSTEM	0.000	0.294	0.294	0.000	0.294	0.294	0.000	0.294	0.294	#N/A	#N/A	#N/A	NO	5.00%	Package E2, Sheet 7
262										0.000			0.000			0.000			0.000			
263	10440	16+17.15	38.65	L	#N/A	EX. CATCH BASIN	SYSTEM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	#N/A	#N/A	#N/A	NO	9.50%	Package E2, Sheet 7
264										0.000			0.000			0.000			0.000			
265										0.000			0.000			0.000			0.000			
266										0.000			0.000			0.000			0.000			
267										0.000			0.000			0.000			0.000			
268										0.000			0.000			0.000			0.000			
269										0.000			0.000			0.000			0.000			
270										0.000			0.000			0.000			0.000			
271										0.000			0.000			0.000			0.000			
272										0.000			0.000			0.000			0.000			
273										0.000			0.000			0.000			0.000			
274										0.000			0.000			0.000			0.000			
275										0.000			0.000			0.000			0.000			
276										0.000			0.000			0.000			0.000			
277										0.000			0.000			0.000			0.000			
278										0.000			0.000			0.000			0.000			
279										0.000			0.000			0.000			0.000			
280										0.000			0.000			0.000			0.000			
281										0.000			0.000			0.000			0.000			
282										0.000			0.000			0.000			0.000			
283										0.000			0.000			0.000			0.000			
284										0.000			0.000			0.000			0.000			
285										0.000			0.000			0.000			0.000			
286										0.000			0.000			0.000			0.000			
287										0.000			0.000			0.000			0.000			
288										0.000			0.000			0.000			0.000			
289										0.000			0.000			0.000			0.000			
290										0.000			0.000			0.000			0.000			
291										0.000			0.000			0.000			0.000			
292										0.000			0.000			0.000			0.000			
293										0.000			0.000			0.000			0.000			
294										0.000			0.000			0.000			0.000			
295										0.000			0.000			0.000			0.000			
296	10440	19.20.24	22.73	L	#N/A	EX. CATCH BASIN	SYSTEM	0.000	0.412	0.412	0.000	0.412	0.412	0.000	0.412	0.412	#N/A	#N/A	#N/A	NO	3.75%	Package E2, Sheet 7
297	10440	19+51.20	36.59	R	#N/A	EX. CATCH BASIN	SYSTEM	0.481	0.000	0.481	0.481	0.000	0.481	0.481	0.000	0.481	#N/A	#N/A	#N/A	NO	5.43%	Package E2, Sheet 7
298										0.000			0.000			0.000			0.000			
299										0.000			0.000			0.000			0.000			
300										0.000			0.000			0.000			0.000			
301										0.000			0.000			0.000			0.000			
302										0.000			0.000			0.000			0.000			
303										0.000			0.000			0.000			0.000			
304										0.000			0.000			0.000			0.000			
305										0.000			0.000			0.000			0.000			
306										0.000			0.000			0.000			0.000			
307										0.000			0.000			0.000			0.000			
308										0.000			0.000			0.000			0.000			
309										0.000			0.000			0.000			0.000			
310										0.000			0.000			0.000			0.000			
311										0.000			0.000			0.000			0.000			
312										0.000			0.000			0.000			0.000			
313										0.000			0.000			0.000			0.000			
314										0.000			0.000			0.000			0.000			
315										0.000			0.000			0.000			0.000			

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STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION  
 STORMWATER  
 DISCHARGE  
 OUTFALL  
 POINTS



TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.	2018	NH-1-440-4(84)	S-15

NOTE: INFORMATION FOR KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. INFORMATION FOR ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.

STORMWATER DISCHARGE OUTFALL POINTS																							
NO.	ROADWAY	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA (AC.)	STAGE 1 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA (AC.)	STAGE 2 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA (AC.)	STAGE 3 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 3 TOTAL DRAINAGE AREA (AC.)	STAGE 4 DISTURBED DRAINAGE AREA (AC.)	STAGE 4 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 4 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN R.O.W.	COMMENTS	
316										0.000			0.000			0.000			0.000				
317										0.000			0.000			0.000			0.000				
318										0.000			0.000			0.000			0.000				
319										0.000			0.000			0.000			0.000				
320										0.000			0.000			0.000			0.000				
321										0.000			0.000			0.000			0.000				
322										0.000			0.000			0.000			0.000				
323										0.000			0.000			0.000			0.000				
324										0.000			0.000			0.000			0.000				
325										0.000			0.000			0.000			0.000				
326										0.000			0.000			0.000			0.000				
327										0.000			0.000			0.000			0.000				
328										0.000			0.000			0.000			0.000				
329										0.000			0.000			0.000			0.000				
330										0.000			0.000			0.000			0.000				
331										0.000			0.000			0.000			0.000				
332										0.000			0.000			0.000			0.000				
333										0.000			0.000			0.000			0.000				
334										0.000			0.000			0.000			0.000				
335										0.000			0.000			0.000			0.000				
336										0.000			0.000			0.000			0.000				
337										0.000			0.000			0.000			0.000				
338										0.000			0.000			0.000			0.000				
339										0.000			0.000			0.000			0.000				
340										0.000			0.000			0.000			0.000				
341										0.000			0.000			0.000			0.000				
342										0.000			0.000			0.000			0.000				
343										0.000			0.000			0.000			0.000				
344										0.000			0.000			0.000			0.000				
345										0.000			0.000			0.000			0.000				
346										0.000			0.000			0.000			0.000				
347										0.000			0.000			0.000			0.000				
348										0.000			0.000			0.000			0.000				
349										0.000			0.000			0.000			0.000				
350										0.000			0.000			0.000			0.000				
351										0.000			0.000			0.000			0.000				
352										0.000			0.000			0.000			0.000				
353										0.000			0.000			0.000			0.000				
354										0.000			0.000			0.000			0.000				
355										0.000			0.000			0.000			0.000				
356										0.000			0.000			0.000			0.000				
357										0.000			0.000			0.000			0.000				
358										0.000			0.000			0.000			0.000				
359										0.000			0.000			0.000			0.000				
360										0.000			0.000			0.000			0.000				
361										0.000			0.000			0.000			0.000				
362										0.000			0.000			0.000			0.000				
363										0.000			0.000			0.000			0.000				
364										0.000			0.000			0.000			0.000				
365										0.000			0.000			0.000			0.000				
366										0.000			0.000			0.000			0.000				
367										0.000			0.000			0.000			0.000				
368										0.000			0.000			0.000			0.000				
369										0.000			0.000			0.000			0.000				
370										0.000			0.000			0.000			0.000				
371										0.000			0.000			0.000			0.000				
372										0.000			0.000			0.000			0.000				
373										0.000			0.000			0.000			0.000				
374										0.000			0.000			0.000			0.000				
375										0.000			0.000			0.000			0.000				
376										0.000			0.000			0.000			0.000				
377										0.000			0.000			0.000			0.000				
378										0.000			0.000			0.000			0.000				

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NOTE: INFORMATION FOR KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. INFORMATION FOR ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.P.	2018	NH-1-440-4(84)	S-16

STORMWATER DISCHARGE OUTFALL POINTS																							
NO.	ROADWAY	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA (AC.)	STAGE 1 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA (AC.)	STAGE 2 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA (AC.)	STAGE 3 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 3 TOTAL DRAINAGE AREA (AC.)	STAGE 4 DISTURBED DRAINAGE AREA (AC.)	STAGE 4 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 4 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN R.O.W.	COMMENTS	
379										0.000			0.000			0.000			0.000				
380										0.000			0.000			0.000			0.000				
381										0.000			0.000			0.000			0.000				
382										0.000			0.000			0.000			0.000				
383										0.000			0.000			0.000			0.000				
384										0.000			0.000			0.000			0.000				
385										0.000			0.000			0.000			0.000				
386										0.000			0.000			0.000			0.000				
387										0.000			0.000			0.000			0.000				
388										0.000			0.000			0.000			0.000				
389										0.000			0.000			0.000			0.000				
390										0.000			0.000			0.000			0.000				
391										0.000			0.000			0.000			0.000				
392										0.000			0.000			0.000			0.000				
393										0.000			0.000			0.000			0.000				
394										0.000			0.000			0.000			0.000				
395										0.000			0.000			0.000			0.000				
396										0.000			0.000			0.000			0.000				
397										0.000			0.000			0.000			0.000				
398										0.000			0.000			0.000			0.000				
399										0.000			0.000			0.000			0.000				
400										0.000			0.000			0.000			0.000				
401										0.000			0.000			0.000			0.000				
402										0.000			0.000			0.000			0.000				
403										0.000			0.000			0.000			0.000				
404										0.000			0.000			0.000			0.000				
405										0.000			0.000			0.000			0.000				
406										0.000			0.000			0.000			0.000				
407										0.000			0.000			0.000			0.000				
408										0.000			0.000			0.000			0.000				
409										0.000			0.000			0.000			0.000				
410										0.000			0.000			0.000			0.000				
411										0.000			0.000			0.000			0.000				
412										0.000			0.000			0.000			0.000				
413										0.000			0.000			0.000			0.000				
414										0.000			0.000			0.000			0.000				
415										0.000			0.000			0.000			0.000				
416										0.000			0.000			0.000			0.000				
417										0.000			0.000			0.000			0.000				
418										0.000			0.000			0.000			0.000				
419										0.000			0.000			0.000			0.000				
420										0.000			0.000			0.000			0.000				
421										0.000			0.000			0.000			0.000				
422										0.000			0.000			0.000			0.000				
423										0.000			0.000			0.000			0.000				
424										0.000			0.000			0.000			0.000				
425										0.000			0.000			0.000			0.000				
426										0.000			0.000			0.000			0.000				
427										0.000			0.000			0.000			0.000				
428										0.000			0.000			0.000			0.000				
429										0.000			0.000			0.000			0.000				
430										0.000			0.000			0.000			0.000				
431										0.000			0.000			0.000			0.000				
432										0.000			0.000			0.000			0.000				
433										0.000			0.000			0.000			0.000				
434										0.000			0.000			0.000			0.000				
435										0.000			0.000			0.000			0.000				
436										0.000			0.000			0.000			0.000				
437										0.000			0.000			0.000			0.000				
438										0.000			0.000			0.000			0.000				
439										0.000			0.000			0.000			0.000				
440										0.000			0.000			0.000			0.000				
441										0.000			0.000			0.000			0.000				

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STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION  
 STORMWATER  
 DISCHARGE  
 OUTFALL  
 POINTS



NOTE: INFORMATION FOR KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. INFORMATION FOR ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.	2018	NH-1-440-4(84)	S-17

**STORMWATER DISCHARGE OUTFALL POINTS**

NO.	ROADWAY	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA (AC.)	STAGE 1 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA (AC.)	STAGE 2 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA (AC.)	STAGE 3 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 3 TOTAL DRAINAGE AREA (AC.)	STAGE 4 DISTURBED DRAINAGE AREA (AC.)	STAGE 4 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 4 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN R.O.W.	COMMENTS	
442										0.000			0.000			0.000			0.000				
443										0.000			0.000			0.000			0.000				
444										0.000			0.000			0.000			0.000				
445										0.000			0.000			0.000			0.000				
446										0.000			0.000			0.000			0.000				
447										0.000			0.000			0.000			0.000				
448										0.000			0.000			0.000			0.000				
449										0.000			0.000			0.000			0.000				
450										0.000			0.000			0.000			0.000				
451										0.000			0.000			0.000			0.000				
452										0.000			0.000			0.000			0.000				
453										0.000			0.000			0.000			0.000				
454										0.000			0.000			0.000			0.000				
455										0.000			0.000			0.000			0.000				
456										0.000			0.000			0.000			0.000				
457										0.000			0.000			0.000			0.000				
458										0.000			0.000			0.000			0.000				
459										0.000			0.000			0.000			0.000				
460										0.000			0.000			0.000			0.000				
461										0.000			0.000			0.000			0.000				
462										0.000			0.000			0.000			0.000				
463										0.000			0.000			0.000			0.000				
464										0.000			0.000			0.000			0.000				
465										0.000			0.000			0.000			0.000				
466										0.000			0.000			0.000			0.000				
467										0.000			0.000			0.000			0.000				
468										0.000			0.000			0.000			0.000				
469										0.000			0.000			0.000			0.000				
470										0.000			0.000			0.000			0.000				
471										0.000			0.000			0.000			0.000				
472										0.000			0.000			0.000			0.000				
473										0.000			0.000			0.000			0.000				
474										0.000			0.000			0.000			0.000				
475										0.000			0.000			0.000			0.000				
476										0.000			0.000			0.000			0.000				
477										0.000			0.000			0.000			0.000				
478										0.000			0.000			0.000			0.000				
479										0.000			0.000			0.000			0.000				
480										0.000			0.000			0.000			0.000				
481										0.000			0.000			0.000			0.000				
482										0.000			0.000			0.000			0.000				
483										0.000			0.000			0.000			0.000				
484										0.000			0.000			0.000			0.000				
485										0.000			0.000			0.000			0.000				
486										0.000			0.000			0.000			0.000				
487										0.000			0.000			0.000			0.000				
488										0.000			0.000			0.000			0.000				
489										0.000			0.000			0.000			0.000				
490										0.000			0.000			0.000			0.000				
491										0.000			0.000			0.000			0.000				
492										0.000			0.000			0.000			0.000				
493										0.000			0.000			0.000			0.000				
494										0.000			0.000			0.000			0.000				
495										0.000			0.000			0.000			0.000				
496										0.000			0.000			0.000			0.000				
497										0.000			0.000			0.000			0.000				
498										0.000			0.000			0.000			0.000				
499										0.000			0.000			0.000			0.000				
500										0.000			0.000			0.000			0.000				
501										0.000			0.000			0.000			0.000				
502										0.000			0.000			0.000			0.000				
503										0.000			0.000			0.000			0.000				
504										0.000			0.000			0.000			0.000				

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NOTE: INFORMATION FOR KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. INFORMATION FOR ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.	2018	NH-1-440-4(84)	S-18

STORMWATER DISCHARGE OUTFALL POINTS																							
NO.	ROADWAY	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA (AC.)	STAGE 1 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA (AC.)	STAGE 2 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA (AC.)	STAGE 3 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 3 TOTAL DRAINAGE AREA (AC.)	STAGE 4 DISTURBED DRAINAGE AREA (AC.)	STAGE 4 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 4 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN R.O.W.	COMMENTS	
505										0.000			0.000			0.000			0.000				
506										0.000			0.000			0.000			0.000				
507										0.000			0.000			0.000			0.000				
508										0.000			0.000			0.000			0.000				
509										0.000			0.000			0.000			0.000				
510										0.000			0.000			0.000			0.000				
511										0.000			0.000			0.000			0.000				
512										0.000			0.000			0.000			0.000				
513										0.000			0.000			0.000			0.000				
514										0.000			0.000			0.000			0.000				
515										0.000			0.000			0.000			0.000				
516										0.000			0.000			0.000			0.000				
517										0.000			0.000			0.000			0.000				
518										0.000			0.000			0.000			0.000				
519										0.000			0.000			0.000			0.000				
520										0.000			0.000			0.000			0.000				
521										0.000			0.000			0.000			0.000				
522										0.000			0.000			0.000			0.000				
523										0.000			0.000			0.000			0.000				
524										0.000			0.000			0.000			0.000				
525										0.000			0.000			0.000			0.000				
526										0.000			0.000			0.000			0.000				
527										0.000			0.000			0.000			0.000				
528										0.000			0.000			0.000			0.000				
529										0.000			0.000			0.000			0.000				
530										0.000			0.000			0.000			0.000				
531										0.000			0.000			0.000			0.000				
532										0.000			0.000			0.000			0.000				
533										0.000			0.000			0.000			0.000				
534										0.000			0.000			0.000			0.000				
535										0.000			0.000			0.000			0.000				
536										0.000			0.000			0.000			0.000				
537										0.000			0.000			0.000			0.000				
538										0.000			0.000			0.000			0.000				
539										0.000			0.000			0.000			0.000				
540										0.000			0.000			0.000			0.000				
541										0.000			0.000			0.000			0.000				
542										0.000			0.000			0.000			0.000				
543										0.000			0.000			0.000			0.000				
544										0.000			0.000			0.000			0.000				
545										0.000			0.000			0.000			0.000				
546										0.000			0.000			0.000			0.000				
547										0.000			0.000			0.000			0.000				
548										0.000			0.000			0.000			0.000				
549										0.000			0.000			0.000			0.000				
550										0.000			0.000			0.000			0.000				
551										0.000			0.000			0.000			0.000				
552										0.000			0.000			0.000			0.000				
553										0.000			0.000			0.000			0.000				
554										0.000			0.000			0.000			0.000				
555										0.000			0.000			0.000			0.000				
556										0.000			0.000			0.000			0.000				
557										0.000			0.000			0.000			0.000				
558										0.000			0.000			0.000			0.000				
559										0.000			0.000			0.000			0.000				
560										0.000			0.000			0.000			0.000				
561										0.000			0.000			0.000			0.000				
562										0.000			0.000			0.000			0.000				
563										0.000			0.000			0.000			0.000				
564										0.000			0.000			0.000			0.000				
565										0.000			0.000			0.000			0.000				
566										0.000			0.000			0.000			0.000				
567										0.000			0.000			0.000			0.000				

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TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.P.	2018	NH-1-440-4(84)	S-19

NOTE: INFORMATION FOR KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. INFORMATION FOR ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.

STORMWATER DISCHARGE OUTFALL POINTS																						
NO.	ROADWAY	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA (AC.)	STAGE 1 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA (AC.)	STAGE 2 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA (AC.)	STAGE 3 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 3 TOTAL DRAINAGE AREA (AC.)	STAGE 4 DISTURBED DRAINAGE AREA (AC.)	STAGE 4 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 4 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN R.O.W.	COMMENTS
568										0.000			0.000			0.000			0.000			
569										0.000			0.000			0.000			0.000			
570										0.000			0.000			0.000			0.000			
571										0.000			0.000			0.000			0.000			
572										0.000			0.000			0.000			0.000			
573										0.000			0.000			0.000			0.000			
574										0.000			0.000			0.000			0.000			
575										0.000			0.000			0.000			0.000			
576										0.000			0.000			0.000			0.000			
577										0.000			0.000			0.000			0.000			
578										0.000			0.000			0.000			0.000			
579										0.000			0.000			0.000			0.000			
580										0.000			0.000			0.000			0.000			
581										0.000			0.000			0.000			0.000			
582										0.000			0.000			0.000			0.000			
583										0.000			0.000			0.000			0.000			
584										0.000			0.000			0.000			0.000			
585										0.000			0.000			0.000			0.000			
586										0.000			0.000			0.000			0.000			
587										0.000			0.000			0.000			0.000			
588										0.000			0.000			0.000			0.000			
589										0.000			0.000			0.000			0.000			
590										0.000			0.000			0.000			0.000			
591										0.000			0.000			0.000			0.000			
592										0.000			0.000			0.000			0.000			
593										0.000			0.000			0.000			0.000			
594										0.000			0.000			0.000			0.000			
595										0.000			0.000			0.000			0.000			
596										0.000			0.000			0.000			0.000			
597										0.000			0.000			0.000			0.000			
598										0.000			0.000			0.000			0.000			
599										0.000			0.000			0.000			0.000			
600										0.000			0.000			0.000			0.000			
601										0.000			0.000			0.000			0.000			
602										0.000			0.000			0.000			0.000			
603										0.000			0.000			0.000			0.000			
604										0.000			0.000			0.000			0.000			
605										0.000			0.000			0.000			0.000			
606										0.000			0.000			0.000			0.000			
607										0.000			0.000			0.000			0.000			
608										0.000			0.000			0.000			0.000			
609										0.000			0.000			0.000			0.000			
610										0.000			0.000			0.000			0.000			
611										0.000			0.000			0.000			0.000			
612										0.000			0.000			0.000			0.000			
613										0.000			0.000			0.000			0.000			
614										0.000			0.000			0.000			0.000			
615										0.000			0.000			0.000			0.000			
616										0.000			0.000			0.000			0.000			
617										0.000			0.000			0.000			0.000			
618										0.000			0.000			0.000			0.000			
619										0.000			0.000			0.000			0.000			
620										0.000			0.000			0.000			0.000			
621										0.000			0.000			0.000			0.000			
622										0.000			0.000			0.000			0.000			
623										0.000			0.000			0.000			0.000			
624										0.000			0.000			0.000			0.000			
625										0.000			0.000			0.000			0.000			
626										0.000			0.000			0.000			0.000			
627										0.000			0.000			0.000			0.000			
<b>TOTAL</b>								1.107	3.467	4.574							#N/A	#N/A	#N/A		7.95%	

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STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION

STORMWATER  
 DISCHARGE  
 OUTFALL  
 POINTS



TYPE	YEAR	PROJECT NO.	SHEET NO.
SWPPP	2018	NH-1440-4(84)	S-20

NOTE: KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.



BEGIN PROJ. NO. 19014-1169-04 CONST.  
STA. 13003+89.38 I-40 E.B. RAMP TO I-440

END PROJ. NO. 19014-1169-04 CONST.  
STA. 1376+41.58 I-440

S-21

S-22

S-23

S-24

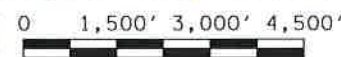
S-25

S-26

S-27

S-28

S-29



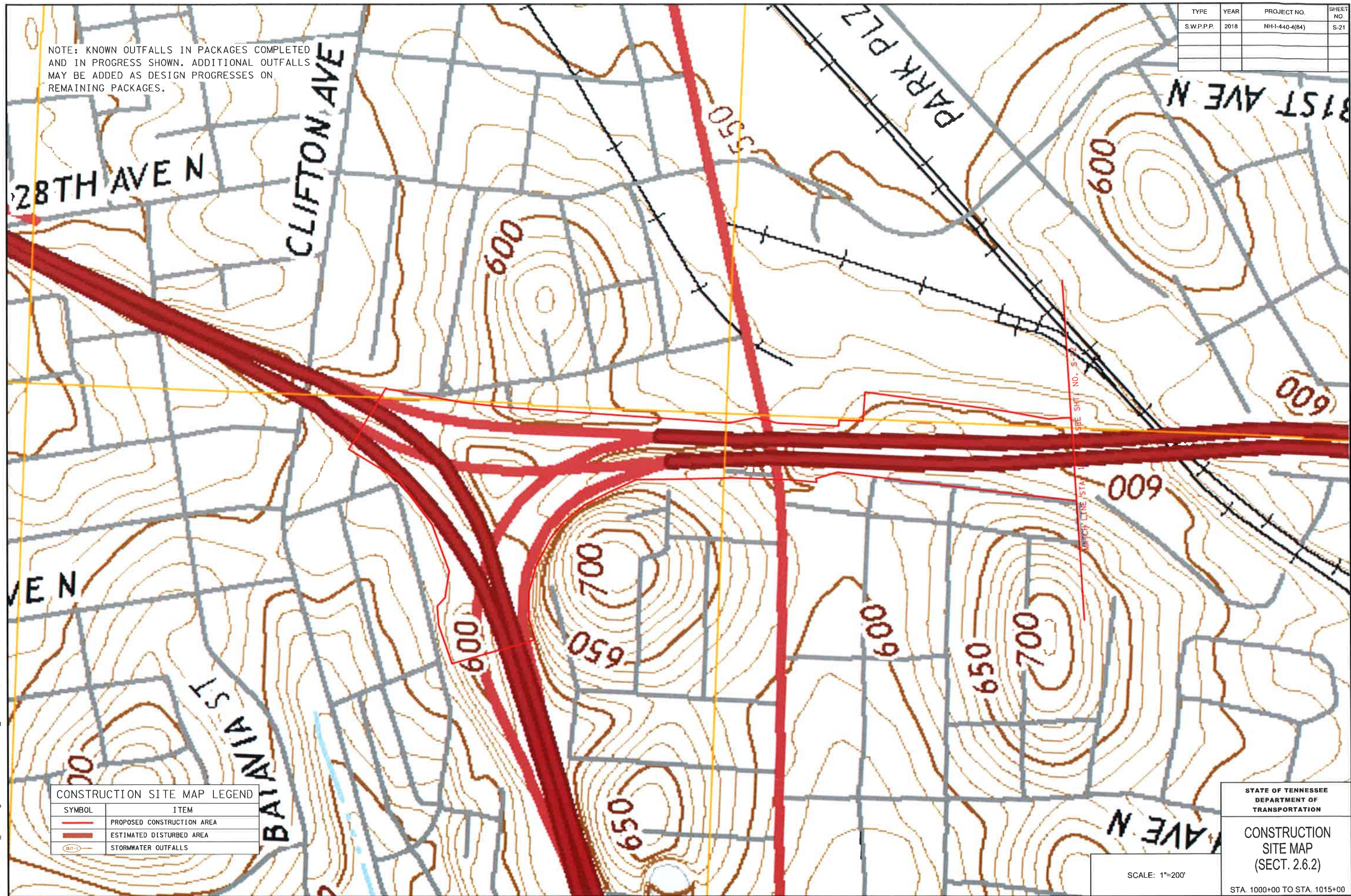
CONSTRUCTION SITE MAP LEGEND	
SYMBOL	ITEM
	PROPOSED CONSTRUCTION AREA
	ESTIMATED DISTURBED AREA (80 AC.)
	STORMWATER OUTFALLS

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION  
  
CONSTRUCTION  
SITE MAP  
(SECT. 2.6.2)



TYPE	YEAR	PROJECT NO.	SHEET NO.
SW.P.P.	2018	NH-440-4(84)	S-21

NOTE: KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.



CONSTRUCTION SITE MAP LEGEND	
SYMBOL	ITEM
	PROPOSED CONSTRUCTION AREA
	ESTIMATED DISTURBED AREA
	STORMWATER OUTFALLS

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

CONSTRUCTION  
SITE MAP  
(SECT. 2.6.2)

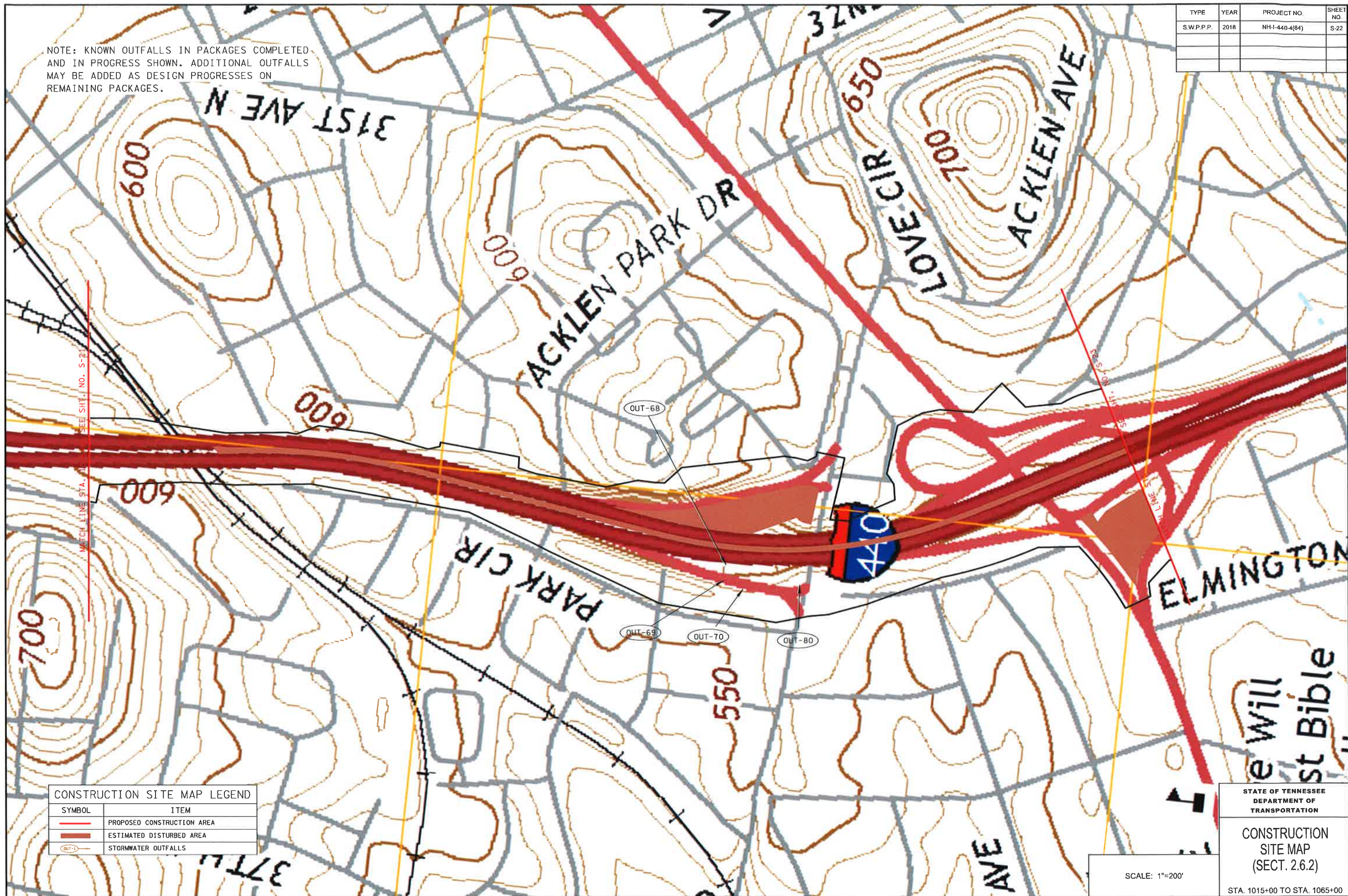
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SCALE: 1"=200'



TYPE	YEAR	PROJECT NO.	SHEET NO.
SWPPP	2018	NH-1-440-4(84)	S-22

NOTE: KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.



CONSTRUCTION SITE MAP LEGEND	
SYMBOL	ITEM
	PROPOSED CONSTRUCTION AREA
	ESTIMATED DISTURBED AREA
	STORMWATER OUTFALLS

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

CONSTRUCTION  
SITE MAP  
(SECT. 2.6.2)

STA. 1015+00 TO STA. 1065+00

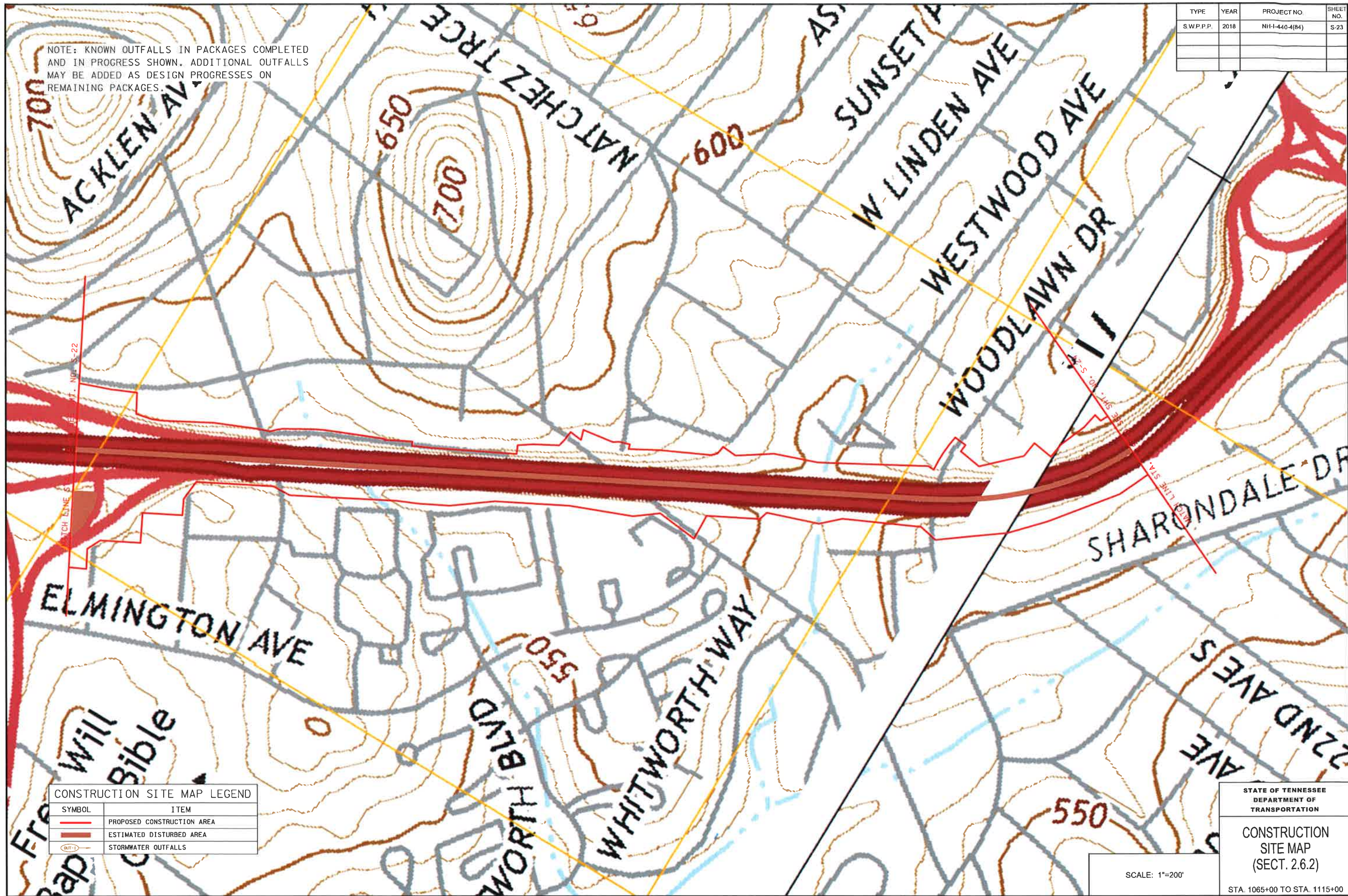
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TYPE	YEAR	PROJECT NO.	SHEET NO.
SWPPP	2018	NH-440-4(84)	S-23

NOTE: KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.



CONSTRUCTION SITE MAP LEGEND	
SYMBOL	ITEM
	PROPOSED CONSTRUCTION AREA
	ESTIMATED DISTURBED AREA
	STORMWATER OUTFALLS

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

CONSTRUCTION  
SITE MAP  
(SECT. 2.6.2)

STA. 1065+00 TO STA. 1115+00

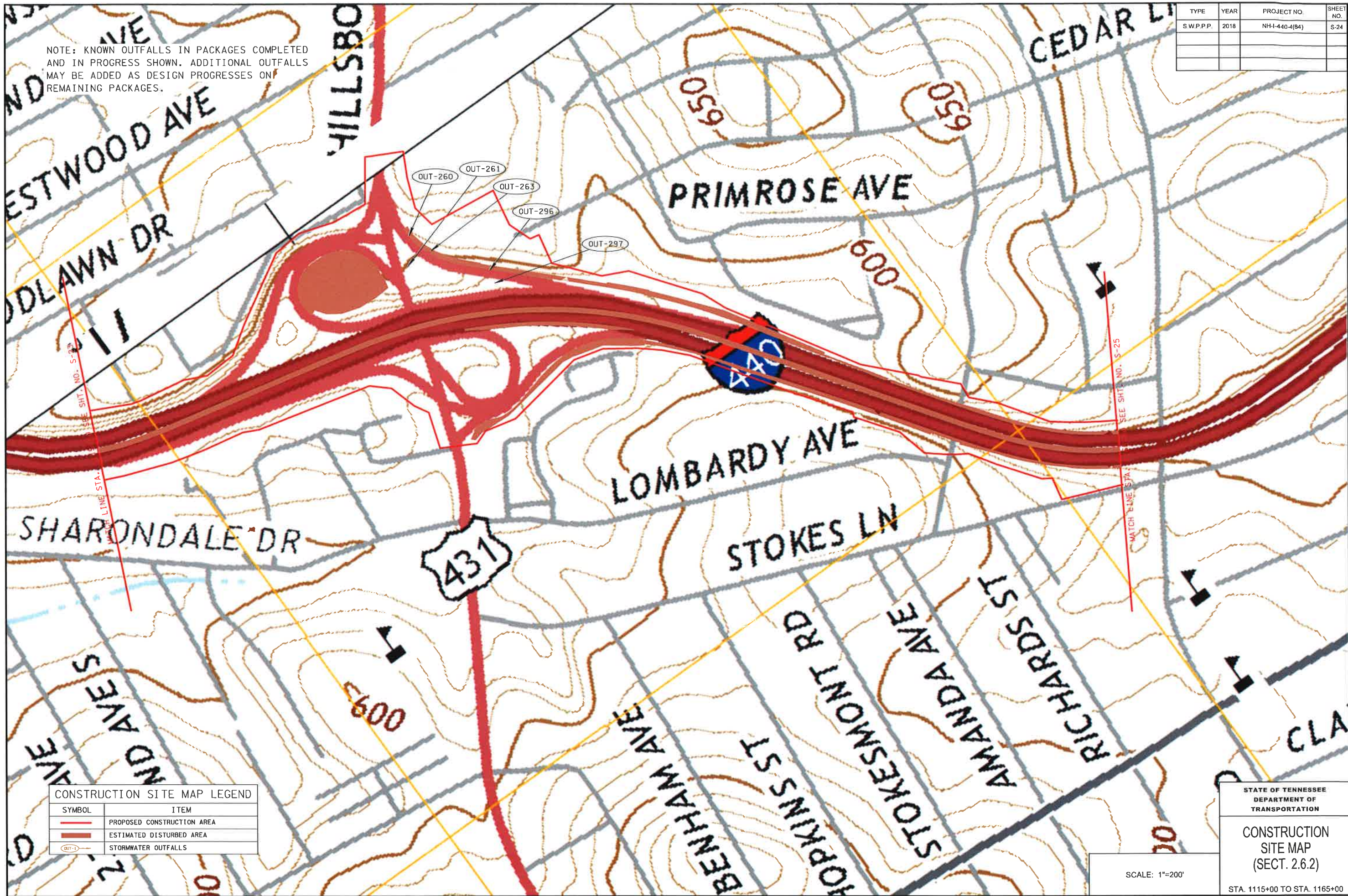
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TYPE	YEAR	PROJECT NO.	SHEET NO.
SWPPP	2018	NH-440-4(84)	S-24

NOTE: KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.



CONSTRUCTION SITE MAP LEGEND

SYMBOL	ITEM
	PROPOSED CONSTRUCTION AREA
	ESTIMATED DISTURBED AREA
	STORMWATER OUTFALLS

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

CONSTRUCTION  
SITE MAP  
(SECT. 2.6.2)

STA. 1115+00 TO STA. 1165+00

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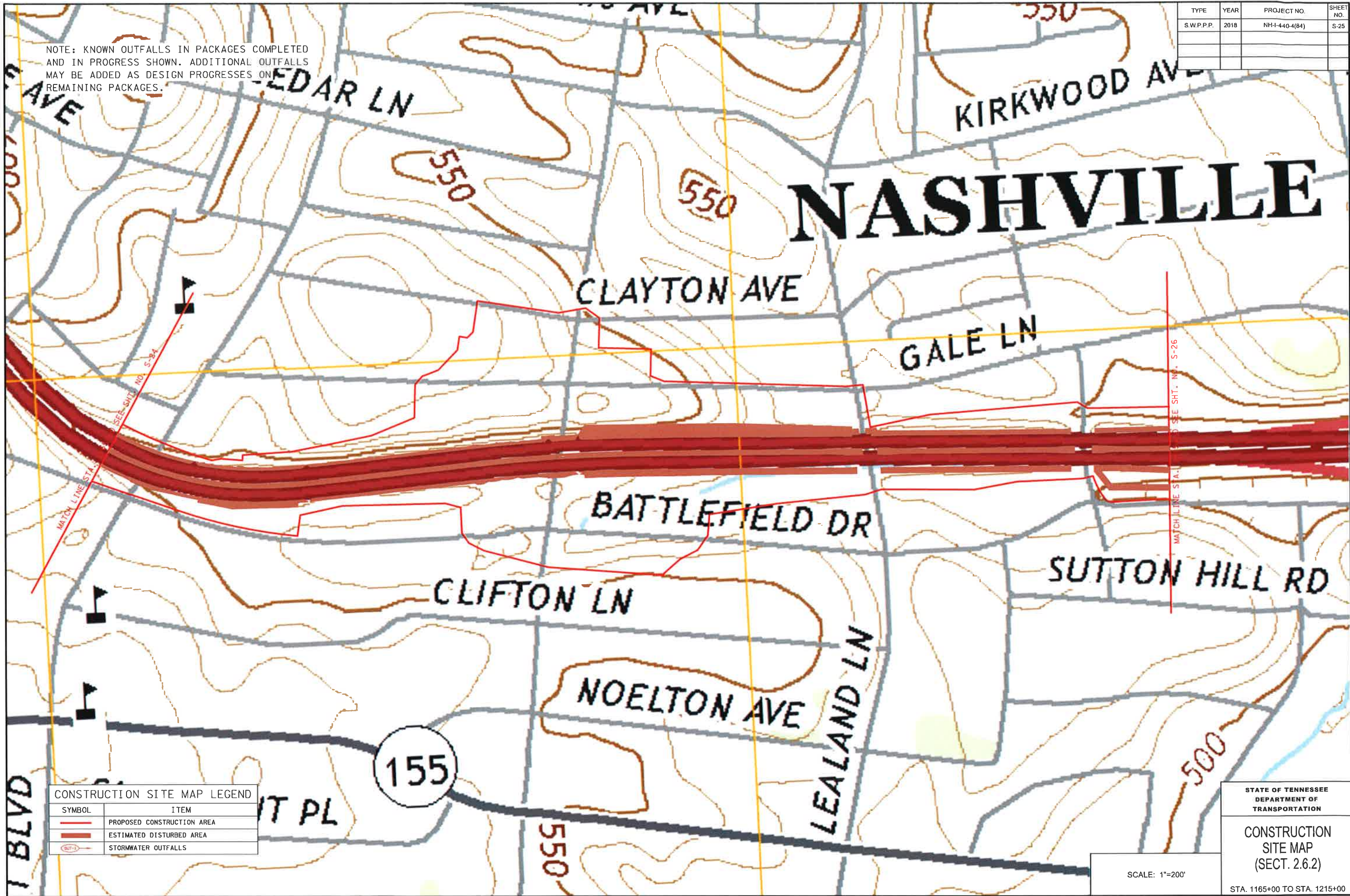
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TYPE	YEAR	PROJECT NO.	SHEET NO.
SWPPP	2018	NH-440-4(84)	S-25

NOTE: KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.

# NASHVILLE



CONSTRUCTION SITE MAP LEGEND	
SYMBOL	ITEM
	PROPOSED CONSTRUCTION AREA
	ESTIMATED DISTURBED AREA
	STORMWATER OUTFALLS

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

CONSTRUCTION  
SITE MAP  
(SECT. 2.6.2)

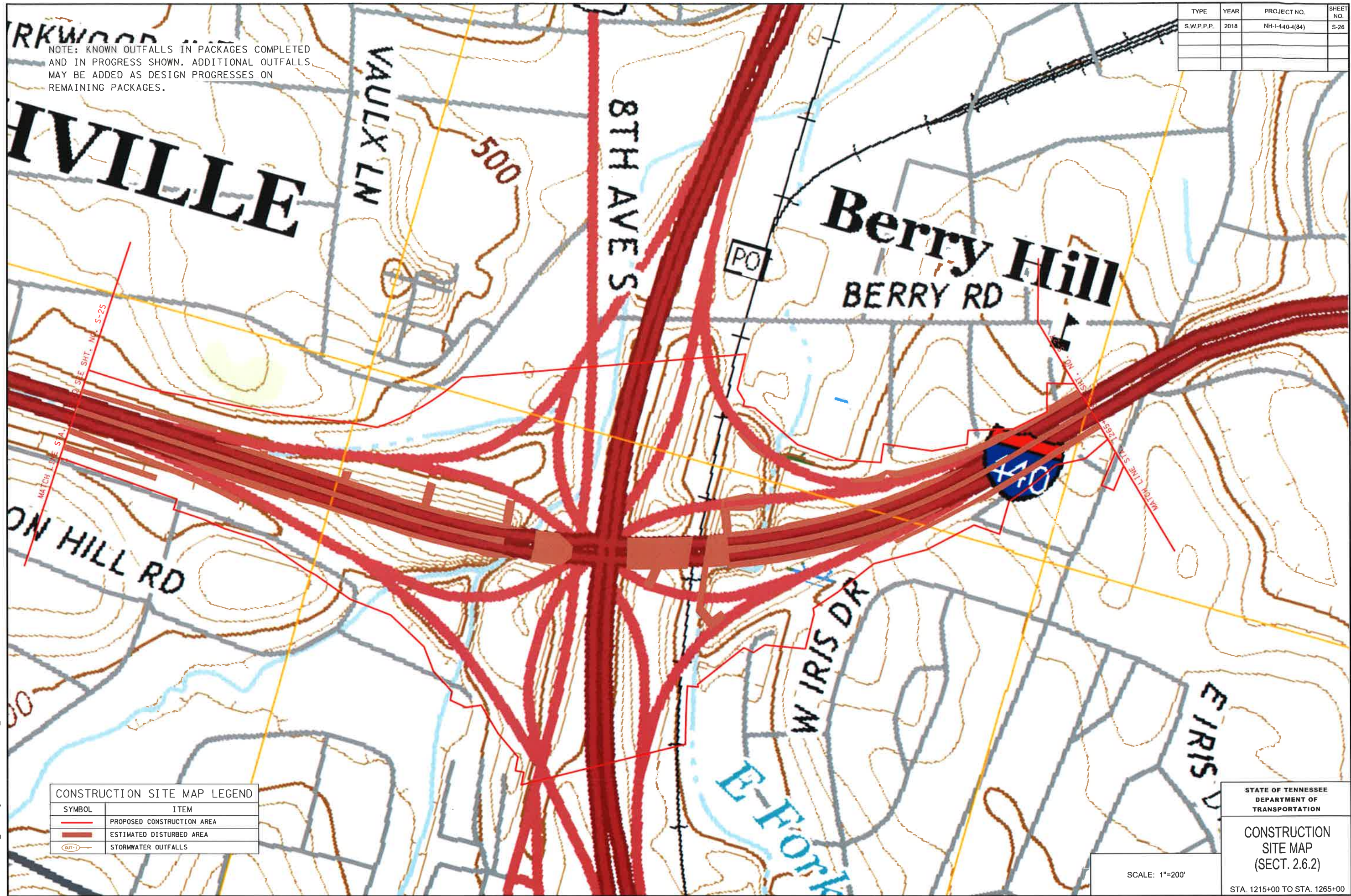
STA. 1165+00 TO STA. 1215+00

SCALE: 1"=200'



TYPE	YEAR	PROJECT NO.	SHEET NO.
SW.P.P.	2018	NH-1-440-4(84)	S-26

NOTE: KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.



CONSTRUCTION SITE MAP LEGEND	
SYMBOL	ITEM
	PROPOSED CONSTRUCTION AREA
	ESTIMATED DISTURBED AREA
	STORMWATER OUTFALLS

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

CONSTRUCTION  
SITE MAP  
(SECT. 2.6.2)

STA. 1215+00 TO STA. 1265+00

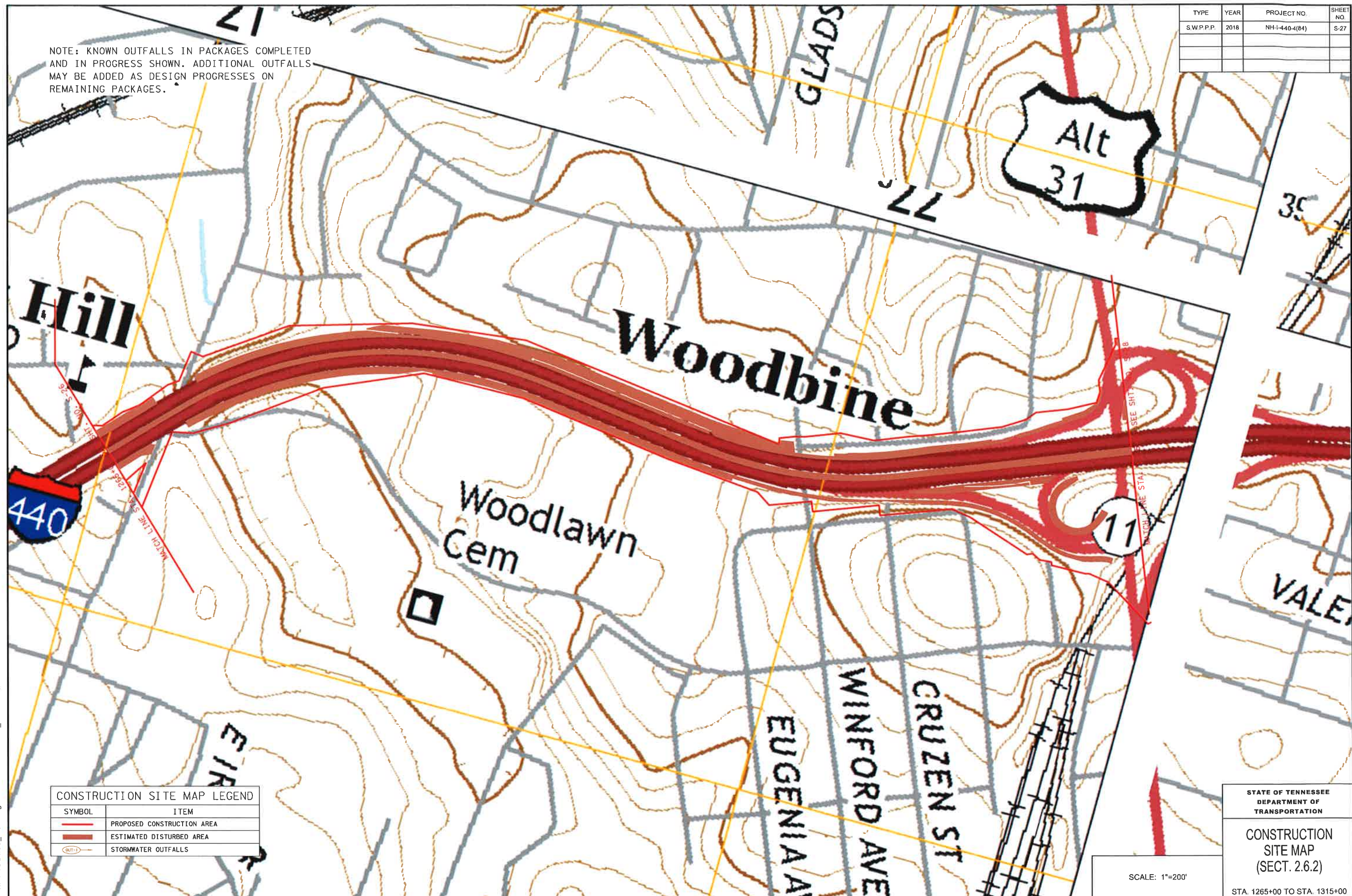
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TYPE	YEAR	PROJECT NO.	SHEET NO.
SWPPP	2018	NH-440-4(84)	S-27

NOTE: KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.



CONSTRUCTION SITE MAP LEGEND	
SYMBOL	ITEM
	PROPOSED CONSTRUCTION AREA
	ESTIMATED DISTURBED AREA
	STORMWATER OUTFALLS

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

CONSTRUCTION  
SITE MAP  
(SECT. 2.6.2)

STA 1265+00 TO STA. 1315+00

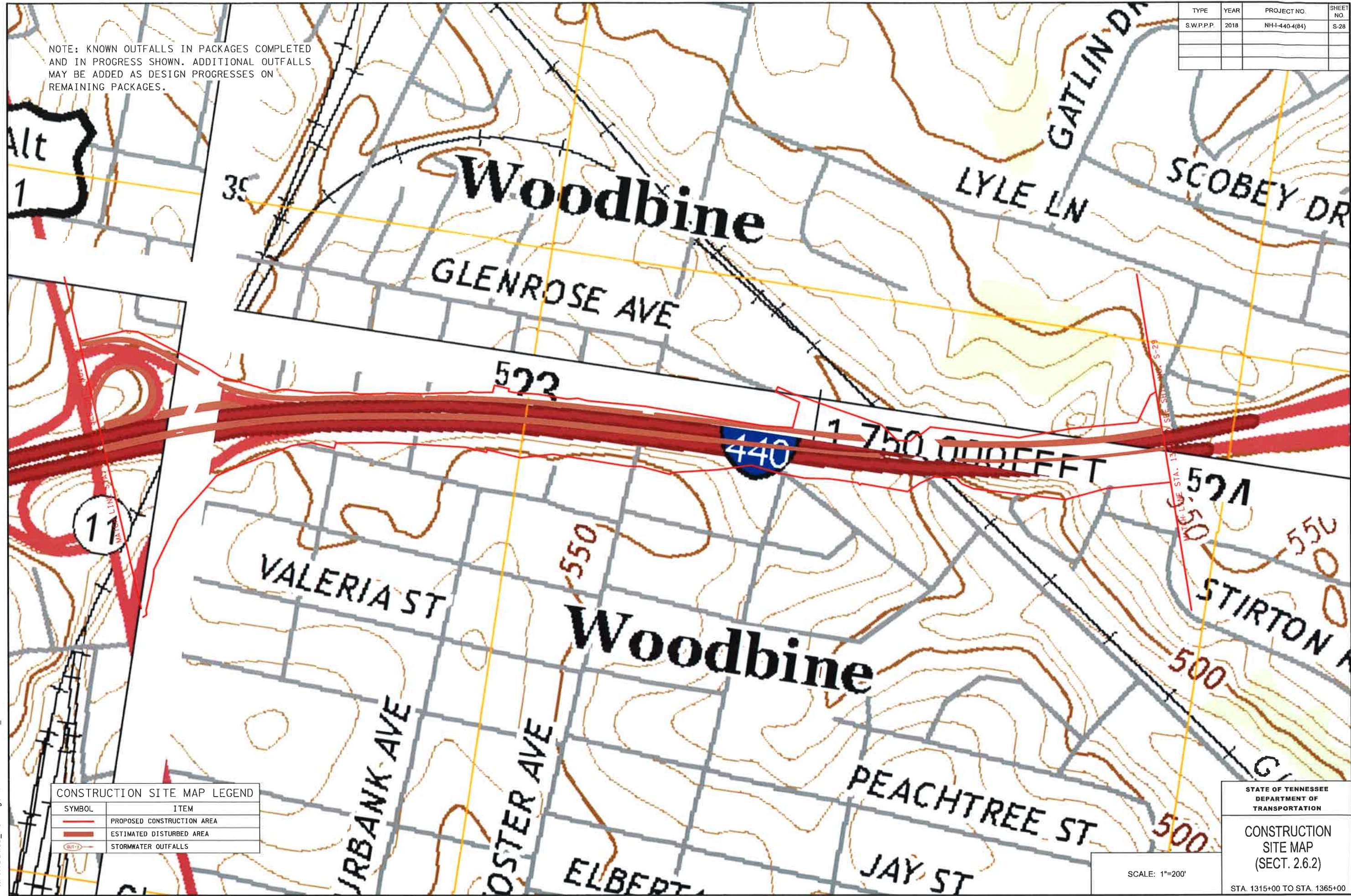
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TYPE	YEAR	PROJECT NO.	SHEET NO.
S.W.P.P.	2018	NH-440-4(84)	S-28

NOTE: KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.



CONSTRUCTION SITE MAP LEGEND	
SYMBOL	ITEM
	PROPOSED CONSTRUCTION AREA
	ESTIMATED DISTURBED AREA
	STORMWATER OUTFALLS

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

CONSTRUCTION  
SITE MAP  
(SECT. 2.6.2)

STA. 1315+00 TO STA. 1365+00

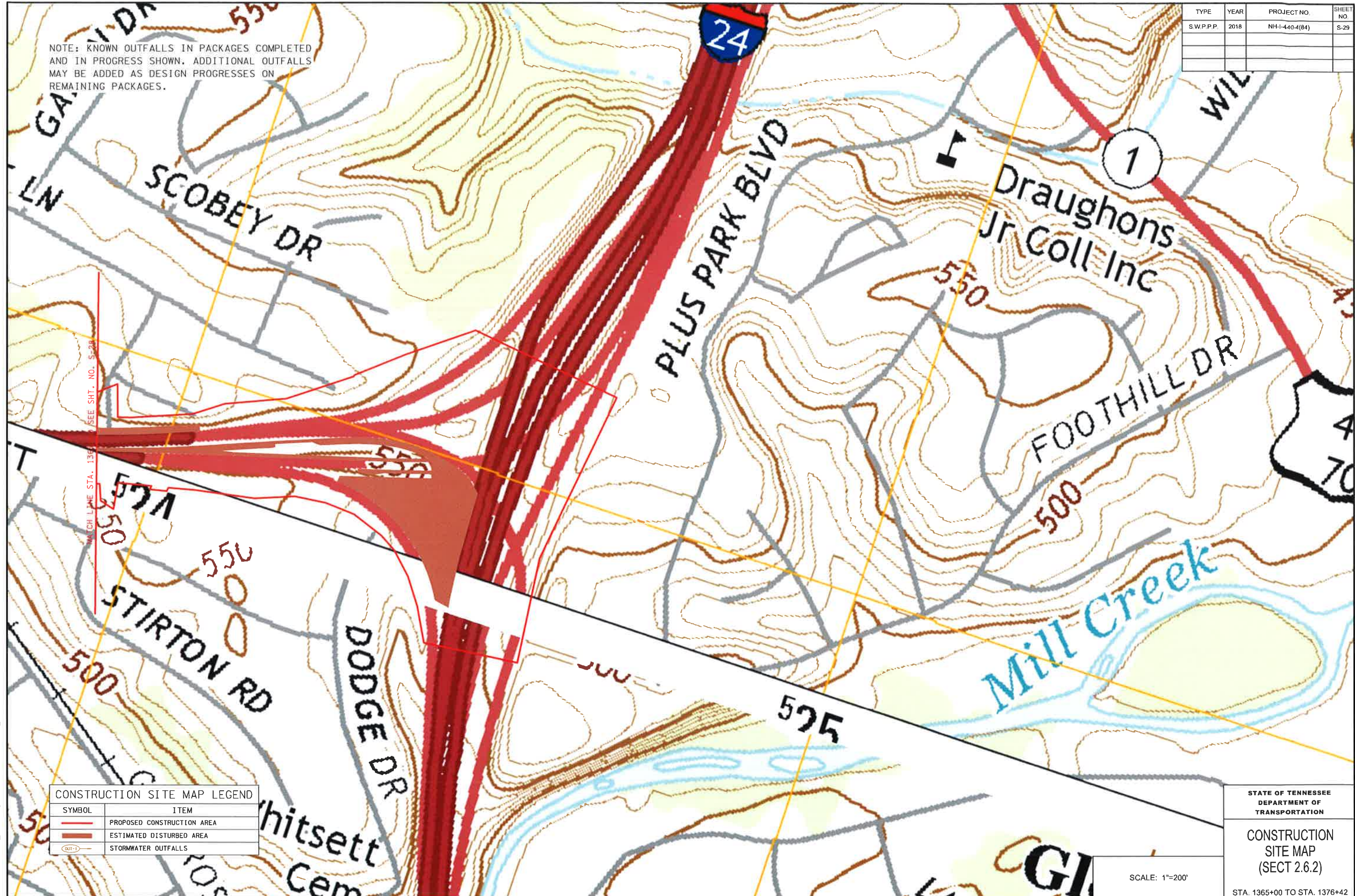
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TYPE	YEAR	PROJECT NO.	SHEET NO.
SW.P.P.P.	2018	NH-440-4(84)	S-29

NOTE: KNOWN OUTFALLS IN PACKAGES COMPLETED AND IN PROGRESS SHOWN. ADDITIONAL OUTFALLS MAY BE ADDED AS DESIGN PROGRESSES ON REMAINING PACKAGES.



CONSTRUCTION SITE MAP LEGEND

SYMBOL	ITEM
	PROPOSED CONSTRUCTION AREA
	ESTIMATED DISTURBED AREA
	STORMWATER OUTFALLS

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

CONSTRUCTION  
SITE MAP  
(SECT 2.6.2)

SCALE: 1"=200'

STA. 1365+00 TO STA. 1376+42

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TYPE	YEAR	PROJECT NO.	SHEET NO.
S W P.P.P.	2018	NH-1-440-4(84)	S-30



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STA. 13003+89.38 I-40 E.B. RAMP TO I-440

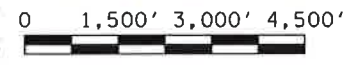
END PROJ. NO. 19014-1169-04 CONST.  
STA. 1376+41.58 I-440

SOIL CLASSIFICATION MAP LEGEND	
SYMBOL	ITEM
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	HYDROLOGIC SOIL GROUP "A/D"
	HYDROLOGIC SOIL GROUP "B"
	HYDROLOGIC SOIL GROUP "B/D"
	HYDROLOGIC SOIL GROUP "C"
	HYDROLOGIC SOIL GROUP "C/D"
	HYDROLOGIC SOIL GROUP "D"

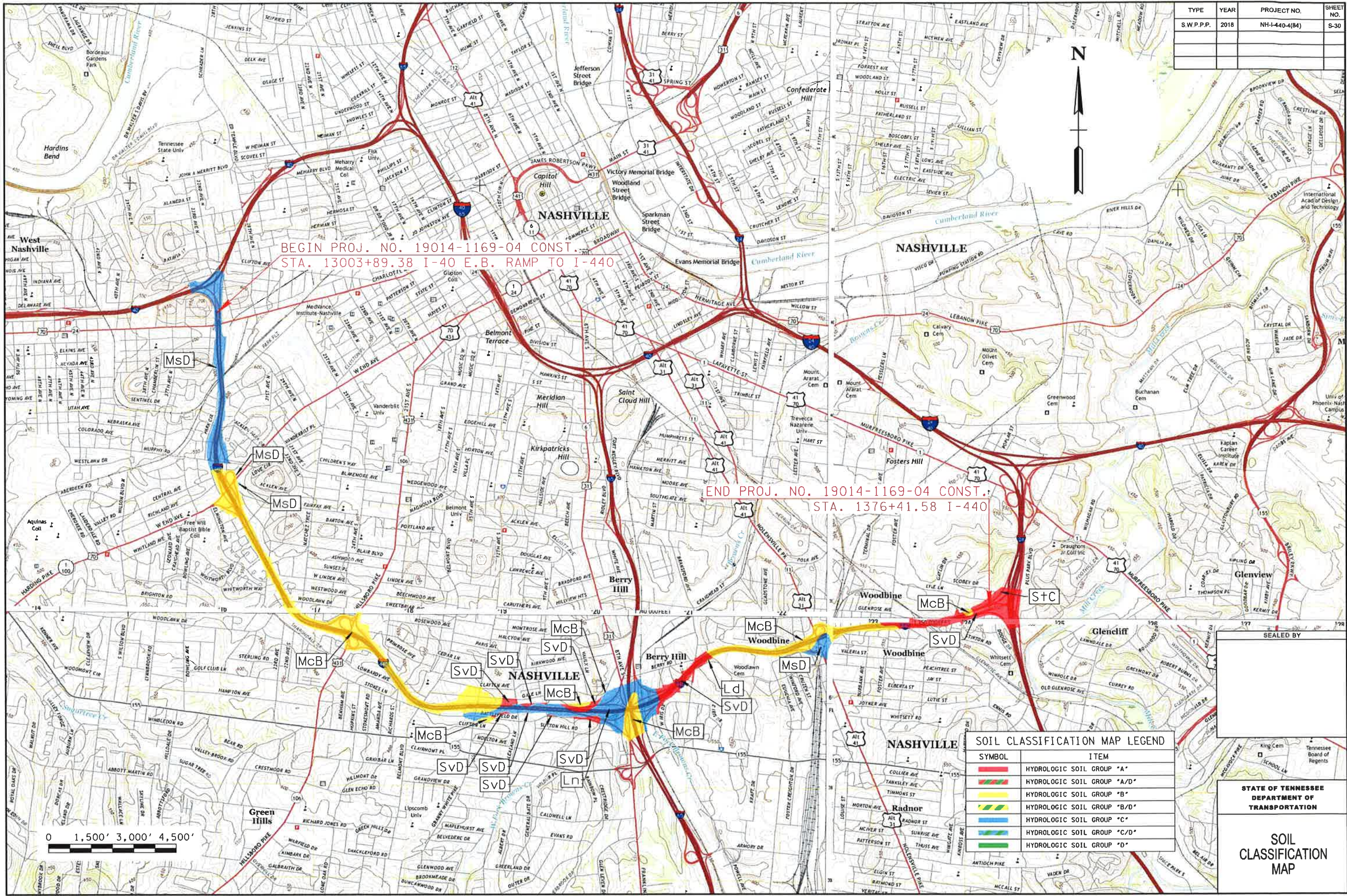
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STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

SOIL  
CLASSIFICATION  
MAP



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Index Of Sheets  
SEE SHEET NO. 1A

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2018	1
FED. AID PROJ. NO.	NH-1-440-4(84)	
STATE PROJ. NO.	19014-3171-44	

DESIGN-BUILD PROJECT

DAVIDSON COUNTY

I-440 WIDENING FROM I-40 TO I-24  
HILLSBORO ROAD (21ST AVENUE)  
EXIT 3 WESTBOUND RAMP

CONSTRUCTION  
GRADE, DRAIN, PAVE, SIGNAL

STATE HIGHWAY NO. 1 - 440 F.A.H.S. NO. 1 - 440

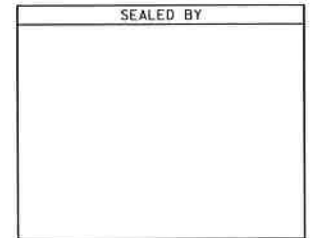


PROJ. NO. NH-1-440-4(84) (CONST.)  
DAVIDSON COUNTY

NO EXCLUSIONS  
NO EQUATIONS



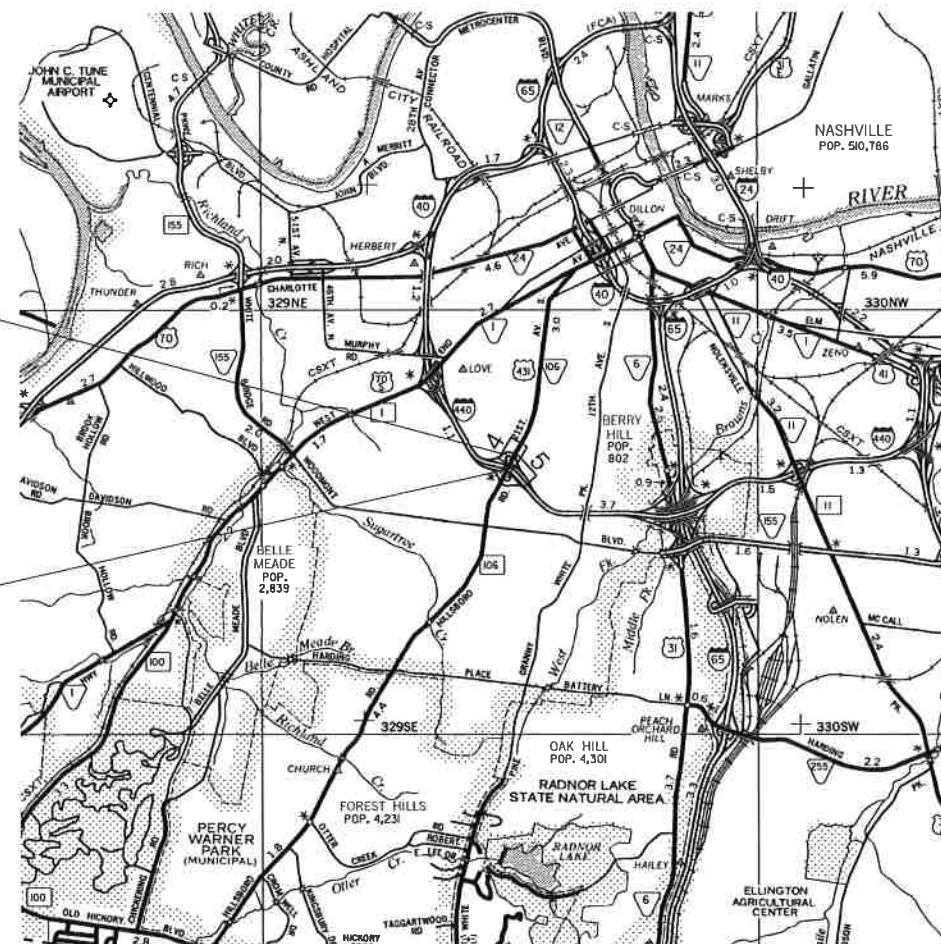
NO R.O.W. ACQUISITION  
REQUIRED ON THIS PROJECT



APPROVED: *Paul D. Degges*  
PAUL D. DEGGES, CHIEF ENGINEER

DATE: \_\_\_\_\_

APPROVED: *John Schroer*  
JOHN SCHROER, COMMISSIONER



SCALE: 1" = 1 MILE

ROADWAY LENGTH 6.892 MILES  
BRIDGE LENGTH 0.237 MILES  
BOX BRIDGE LENGTH 0.000 MILES  
PROJECT LENGTH 7.129 MILES

SURVEY 5-4-2016	TRAFFIC DATA	
	ADT (2018)	11,000
	ADT (2038)	12,540
	DHV (2038)	1,223
	D	60 - 40
	T (ADT)	8 %
	T (DHV)	12 %
	V	35 MPH

COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: \_\_\_\_\_  
DIVISION ADMINISTRATOR DATE

19014-3171-44  
BEGIN PROJECT NO. NH-1-440-4(84) (CONST.)  
STA. 13+43.35  
N 653022.4399 E 1730517.6439

19014-3171-44  
END PROJECT NO. NH-1-440-4(84) (CONST.)  
STA. 22+00.00  
N 652321.3216 E 1730947.4993

SPECIAL NOTES

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT DESIGN MANAGER: SHANE HESTER, P.E., PROJECT DEVELOPMENT DIRECTOR  
DESIGNED BY: WSP USA  
DESIGNER: BRIAN REYNOLDS, P.E. CHECKED BY LARRY RIDLEN, P.E.  
P.E. NO. 19014-1174-44  
PIN NO. 125325.00

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# GENERAL NOTES

## GRADING

- (1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- (2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

## SEEDING AND SODDING

- (1) SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

## GUARDRAIL

- (1) THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.
- (2) GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

## MISCELLANEOUS

- (1) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

## PAVEMENT MARKINGS

### FINAL PAVEMENT MARKING

- (1) PERMANENT PAVEMENT LINE MARKINGS ON HILLSBORO ROAD SHALL BE 4" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED.
- (2) PERMANENT PAVEMENT LINE MARKINGS ON RAMPS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED.

### DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

- (1) BEFORE OPENING THE LANE SHIFT TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 712-09.02 PER L.F. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS.

## PAVEMENT

### PAVING

- (1) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.
- (2) THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

## RESURFACING

- (1) ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.
- (2) ON URBAN TYPICAL SECTIONS, (CURB AND GUTTER), RESIDENTIAL DRIVEWAYS AND BUSINESS ENTRANCES SHALL HAVE A MINIMUM WIDTH OF MATERIAL NOT LESS THAN ONE FOOT USED IN THE TRANSITION TO FEATHER THE PAVEMENT EDGE.
- (3) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

## SIGNING

- (1) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- (2) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.
- (3) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.
- (4) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.
- (5) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.
- (6) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

## SIGNALIZATION

- (1) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.
- (2) EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE TDOT "SPECIAL PROVISIONS REGARDING SECTION 730N-TRAFFIC SIGNALS."
- (3) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF METRO PUBLIC WORKS AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY METRO PUBLIC WORKS.
- (4) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.
- (5) THE CONTRACTOR SHALL CONTACT MIKE HIRTZER WITH METRO PUBLIC WORKS AT (615)-880-3261 A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE SIGNAL TO OBTAIN THE INITIAL SIGNAL TIMINGS.
- (6) THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.
- (7) THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR SUPPLYING THE CONTRACTOR WITH AS BUILT SIGNAL PLANS AT THE PRE-CONSTRUCTION CONFERENCE. THESE PLANS WILL PROVIDE THE CONTRACTOR WITH THE DESIRED LOCATION FOR DETECTOR LOOP REPLACEMENT.

## CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

- (2) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- (3) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (4) USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- (5) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- (6) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-1440-4(84)	2C

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GENERAL  
NOTES



# GENERAL NOTES (CONT.)

## EROSION PREVENTION AND SEDIMENT CONTROL

### INSPECTION, MAINTENANCE & REPAIR

- (1) REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN SHEETS (S-1) FOR SWPPP, PERMITS, AND RECORDS NOTES.

### GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- (1) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.
- (2) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL
- (3) LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.
- (4) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED, NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE, AND PROPERLY SIGNED. WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED ONSITE UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.
- (5) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM.
- (6) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.
- (7) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.
- (8) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFFSITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.
- (9) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.
- (10) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.
- (11) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.
- (12) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.

- (13) WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED OF BY THE CONTRACTOR. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

### SUPPORT ACTIVITIES

- (1) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-1440-4(84)	2C1

SEALED BY

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

GENERAL  
NOTES



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-1440-4(84)	6

## EPSC NOTES

### ENVIRONMENTAL

- (1) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	300
209-08.07	ROCK CHECK DAM	EACH	1
209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	2
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	3
209-40.43	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EACH	1

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EC-STR-43
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

### STORMWATER DISCHARGE OUTFALL POINTS

NO.	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA	STAGE 1 UNDISTURBED DRAINAGE	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA	STAGE 2 UNDISTURBED DRAINAGE	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA	STAGE 3 UNDISTURBED DRAINAGE	STAGE 3 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN	COMMENTS
260	14+78.49	###	L	#N/A	EX. CATCH BASIN	SYSTEM	0.000	0.642	0.642	0.000	0.642	0.642	0.000	0.642	0.642	NO	8.00%	#N/A
261	101+73.12	###	R	#N/A	EX. CATCH BASIN	SYSTEM	0.000	0.294	0.294	0.000	0.294	0.294	0.000	0.294	0.294	NO	5.00%	#N/A
263	16+17.15	###	L	#N/A	EX. CATCH BASIN	SYSTEM	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	NO	9.50%	#N/A
296	19.20.24	###	L	#N/A	EX. CATCH BASIN	SYSTEM	0.000	0.412	0.412	0.000	0.412	0.412	0.000	0.412	0.412	NO	3.75%	#N/A
297	19+51.20	###	R	#N/A	EX. CATCH BASIN	SYSTEM	0.481	0.000	0.481	0.481	0.000	0.481	0.481	0.000	0.481	NO	5.43%	#N/A
<b>TOTAL</b>							<b>0.481</b>	<b>1.348</b>	<b>1.829</b>	<b>0.481</b>	<b>1.348</b>	<b>1.829</b>	<b>0.481</b>	<b>1.348</b>	<b>1.829</b>			

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

EROSION  
PREVENTION &  
SEDIMENT CONTROL  
(EPSC) NOTES, LEGEND  
& TABULATION

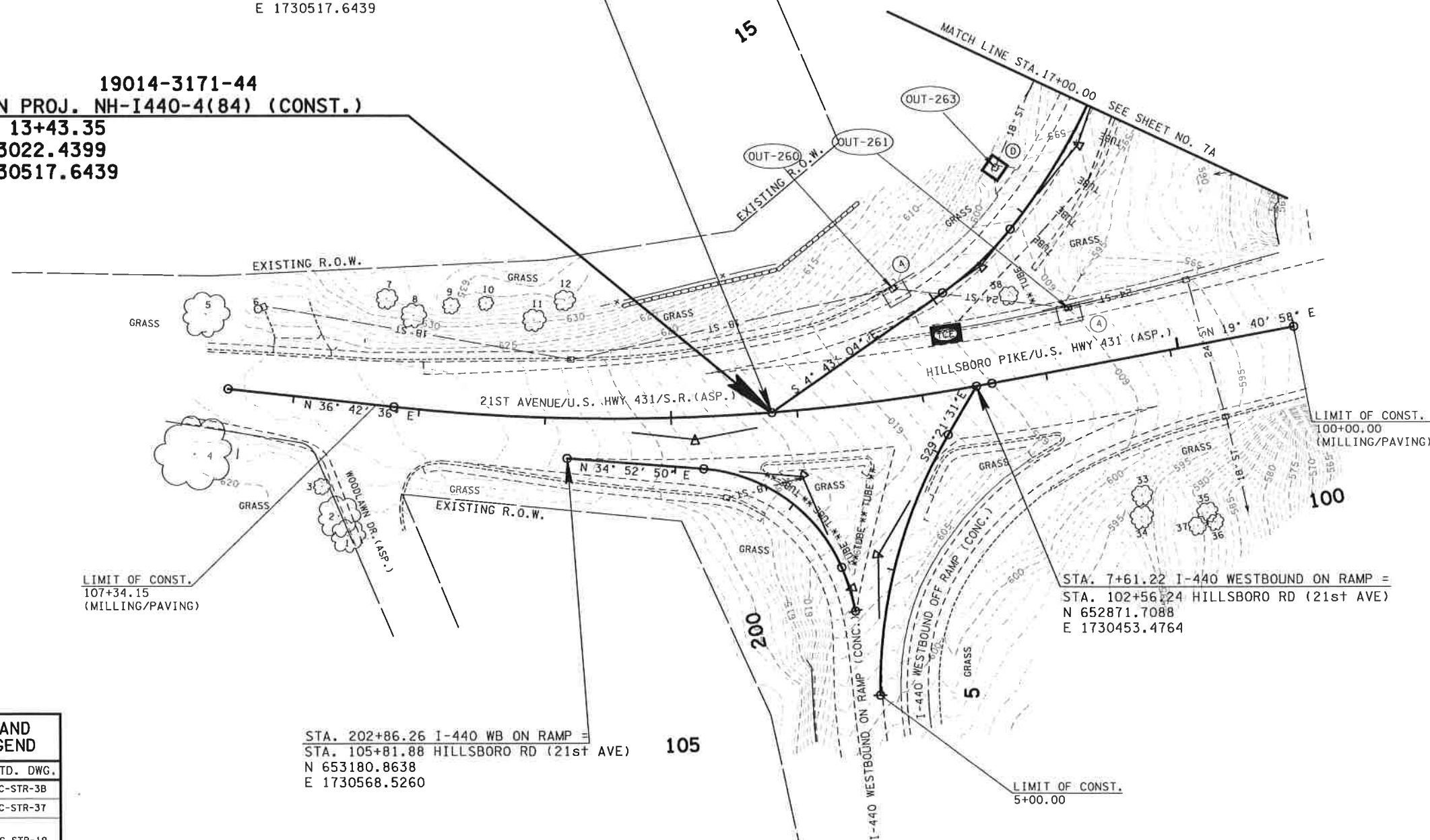


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-1440-4(84)	7



19014-3171-44  
 BEGIN PROJ. NH-I440-4(84) (CONST.)  
 STA. 13+43.35  
 N 653022.4399  
 E 1730517.6439

STA. 13+43.35 I-440 WESTBOUND OFFRAMP =  
 STA. 104+20.13 HILLSBORO RD (21st AVE)  
 N 653022.4399  
 E 1730517.6439



STA. 202+86.26 I-440 WB ON RAMP =  
 STA. 105+81.88 HILLSBORO RD (21st AVE)  
 N 653180.8638  
 E 1730568.5260

STA. 7+61.22 I-440 WESTBOUND ON RAMP =  
 STA. 102+56.24 HILLSBORO RD (21st AVE)  
 N 652871.7088  
 E 1730453.4764

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-3T
①	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
④	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

EXISTING CONTOURS SHOWN

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION

STAGE I

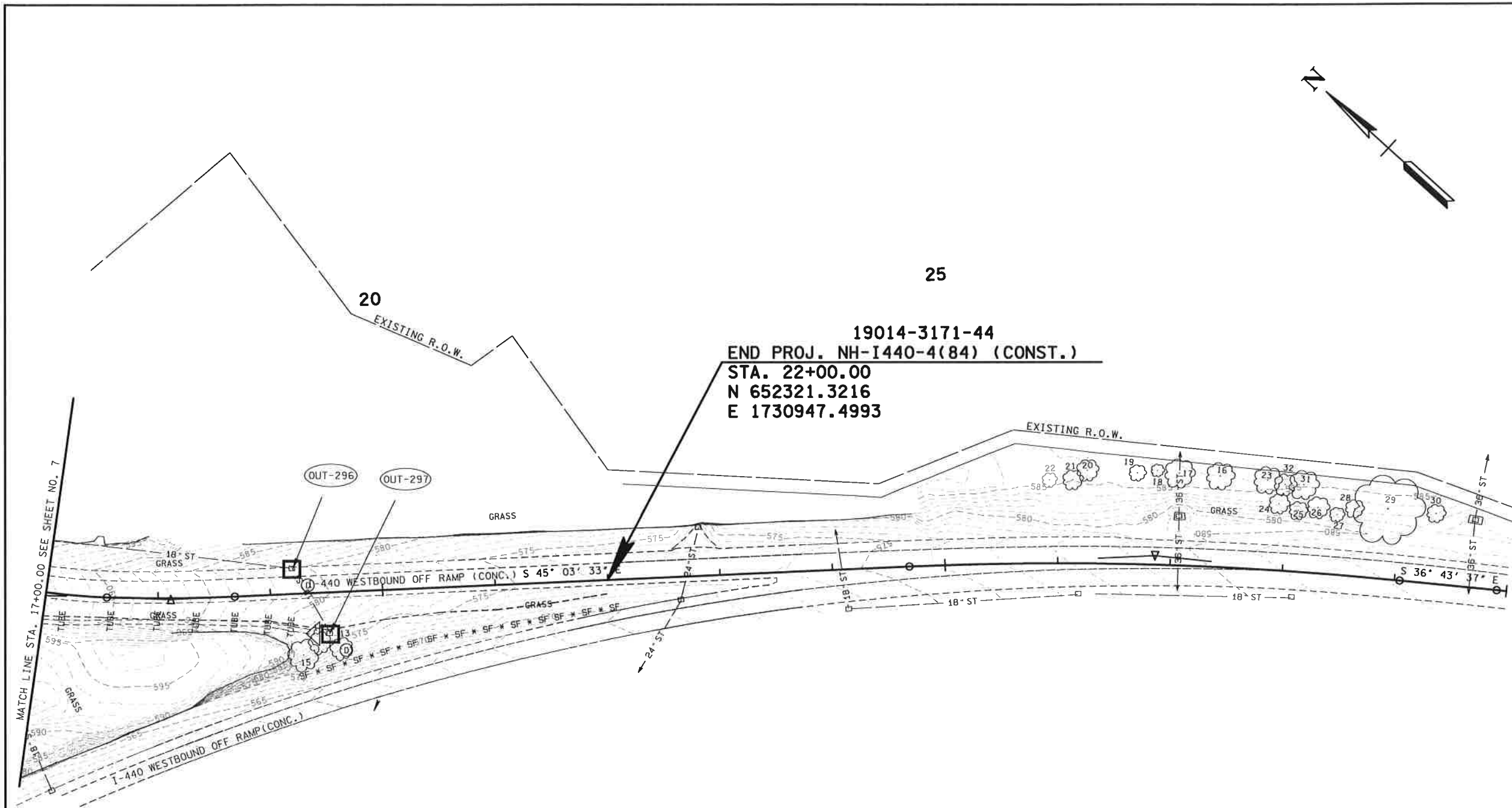
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EROSION  
 PREVENTION &  
 SEDIMENT CONTROL  
 (EPSC) PLANS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-I440-4(84)	7A



19014-3171-44  
 END PROJ. NH-I440-4(84) (CONST.)  
 STA. 22+00.00  
 N 652321.3216  
 E 1730947.4993

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	ROCK CHECK DAM (V-DITCH)	EC-STR-6

EXISTING CONTOURS SHOWN

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION

STAGE I

SCALE: 1"= 50'

EROSION  
 PREVENTION &  
 SEDIMENT CONTROL  
 (EPSC) PLANS

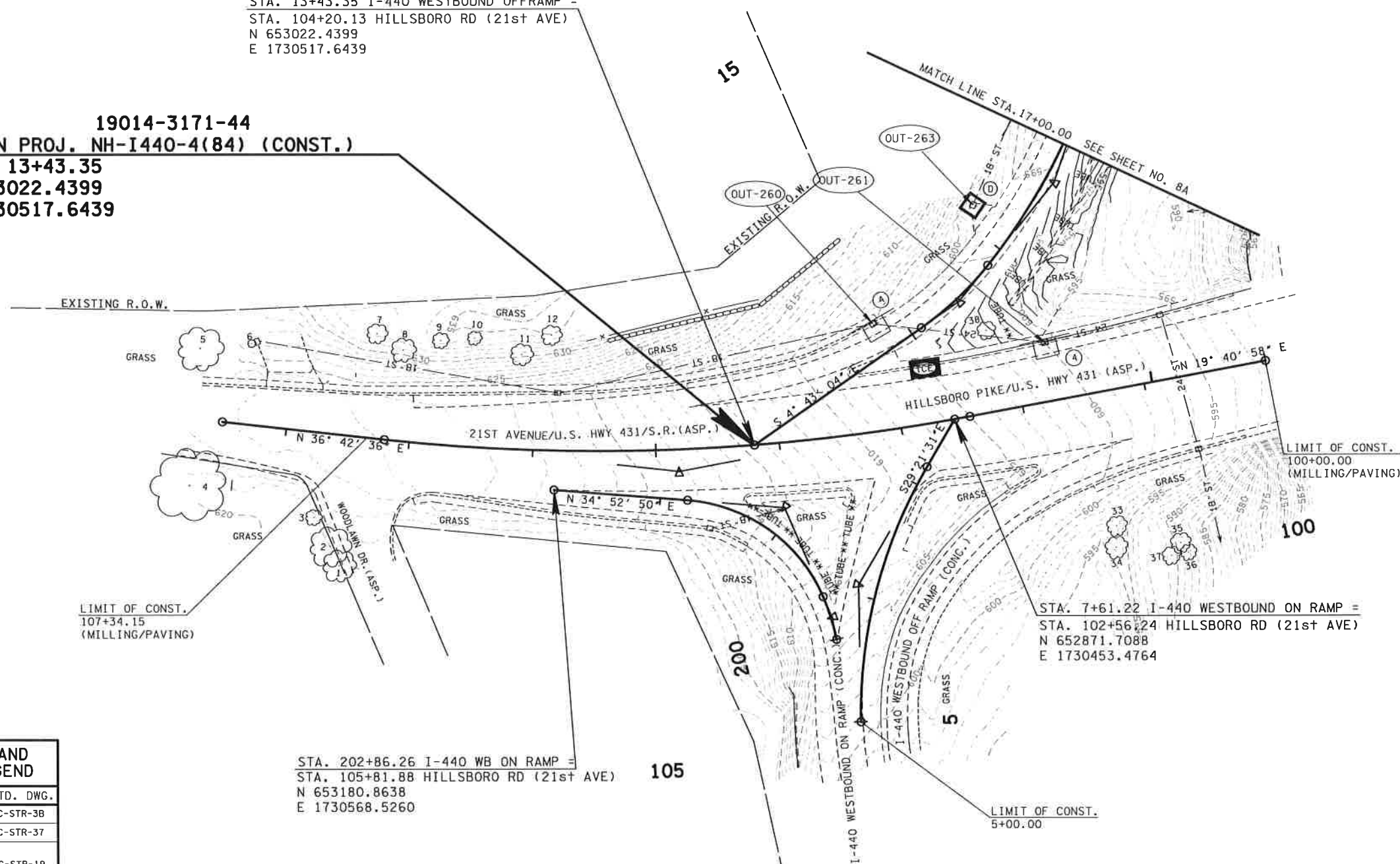


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-1440-4(84)	8



19014-3171-44  
**BEGIN PROJ. NH-I440-4(84) (CONST.)**  
**STA. 13+43.35**  
**N 653022.4399**  
**E 1730517.6439**

STA. 13+43.35 I-440 WESTBOUND OFFRAMP =  
 STA. 104+20.13 HILLSBORO RD (21st AVE)  
 N 653022.4399  
 E 1730517.6439



LIMIT OF CONST.  
 107+34.15  
 (MILLING/PAVING)

STA. 7+61.22 I-440 WESTBOUND ON RAMP =  
 STA. 102+56.24 HILLSBORO RD (21st AVE)  
 N 652871.7088  
 E 1730453.4764

STA. 202+86.26 I-440 WB ON RAMP =  
 STA. 105+81.88 HILLSBORO RD (21st AVE)  
 N 653180.8638  
 E 1730568.5260

LIMIT OF CONST.  
 100+00.00  
 (MILLING/PAVING)

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
*SF *SF *SF *	SILT FENCE	EC-STR-3B
**TUBE **TUBE **	SEDIMENT TUBE	EC-STR-37
①	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
④	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

PROPOSED CONTOURS SHOWN

SEALED BY

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STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION

STAGE II

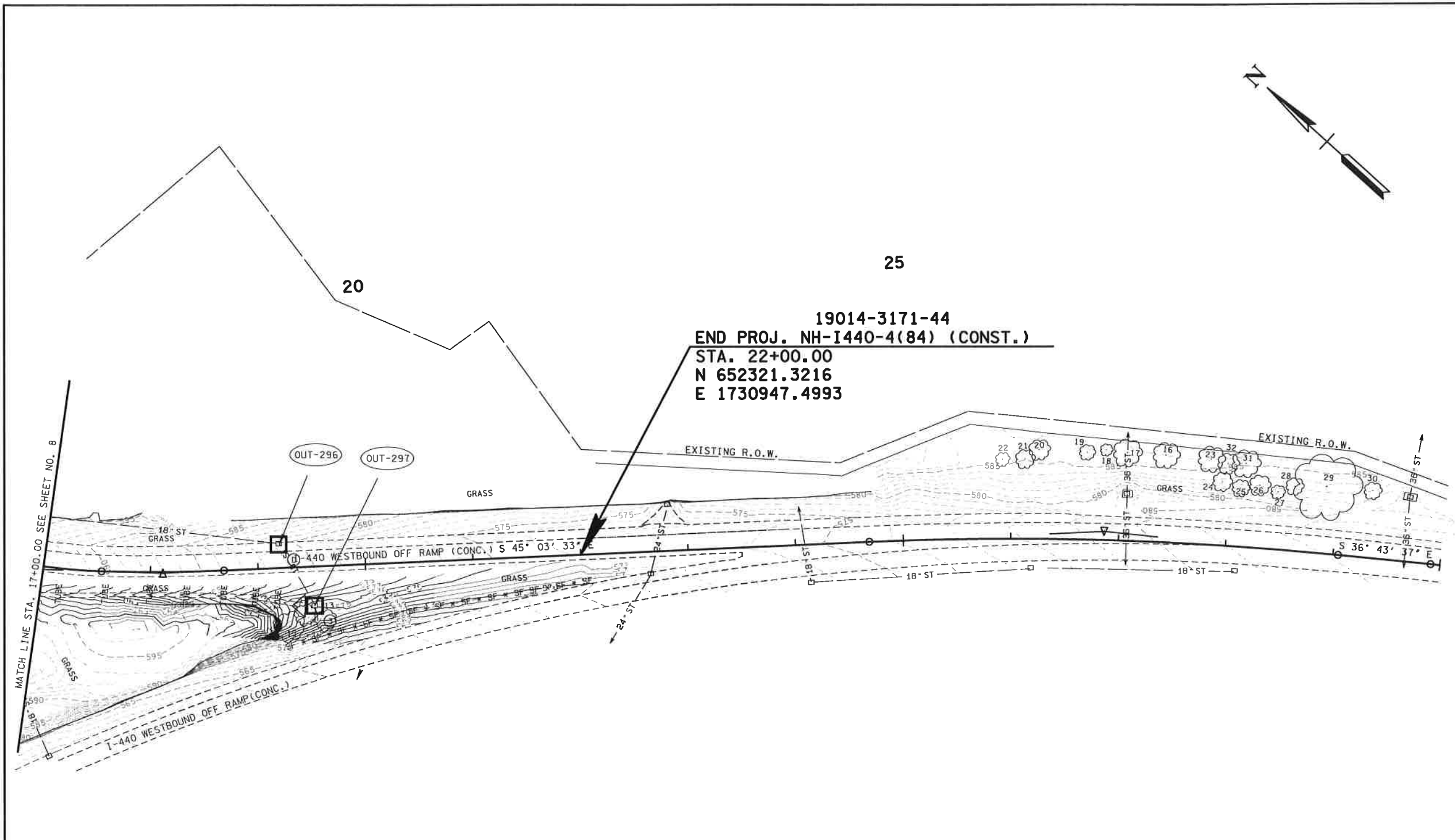
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EROSION  
 PREVENTION &  
 SEDIMENT CONTROL  
 (EPSC) PLANS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-I440-4(84)	8A



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* TUBE * TUBE *	SEDIMENT TUBE	EC-STR-37
□ ①	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
□ ③	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EC-STR-43
□ ④	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
◁	ROCK CHECK DAM (V-DITCH)	EC-STR-6

PROPOSED CONTOURS SHOWN

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

STAGE II

SCALE: 1"= 50'

EROSION  
PREVENTION &  
SEDIMENT CONTROL  
(EPSC) PLANS

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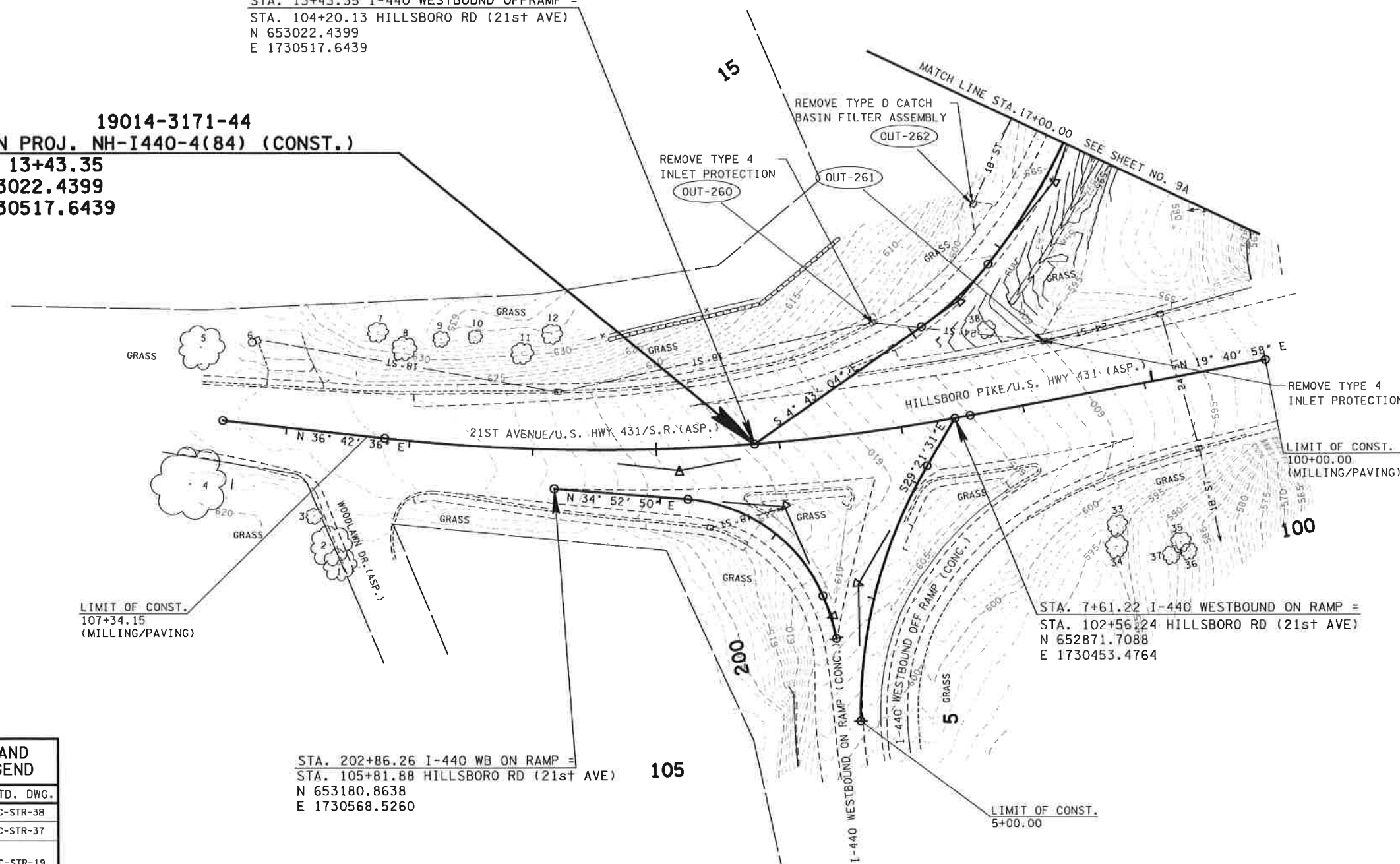


TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-1440-4(84)	9



19014-3171-44  
 BEGIN PROJ. NH-1440-4(84) (CONST.)  
 STA. 13+43.35  
 N 653022.4399  
 E 1730517.6439

STA. 13+43.35 I-440 WESTBOUND OFFRAMP =  
 STA. 104+20.13 HILLSBORO RD (21st AVE)  
 N 653022.4399  
 E 1730517.6439



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-38
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
①	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
④	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

STA. 202+86.26 I-440 WB ON RAMP =  
 STA. 105+81.88 HILLSBORO RD (21st AVE)  
 N 653180.8638  
 E 1730568.5260

STA. 7+61.22 I-440 WESTBOUND ON RAMP =  
 STA. 102+56.24 HILLSBORO RD (21st AVE)  
 N 652871.7088  
 E 1730453.4764

PROPOSED CONTOURS SHOWN

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE  
 DEPARTMENT OF  
 TRANSPORTATION

STAGE III

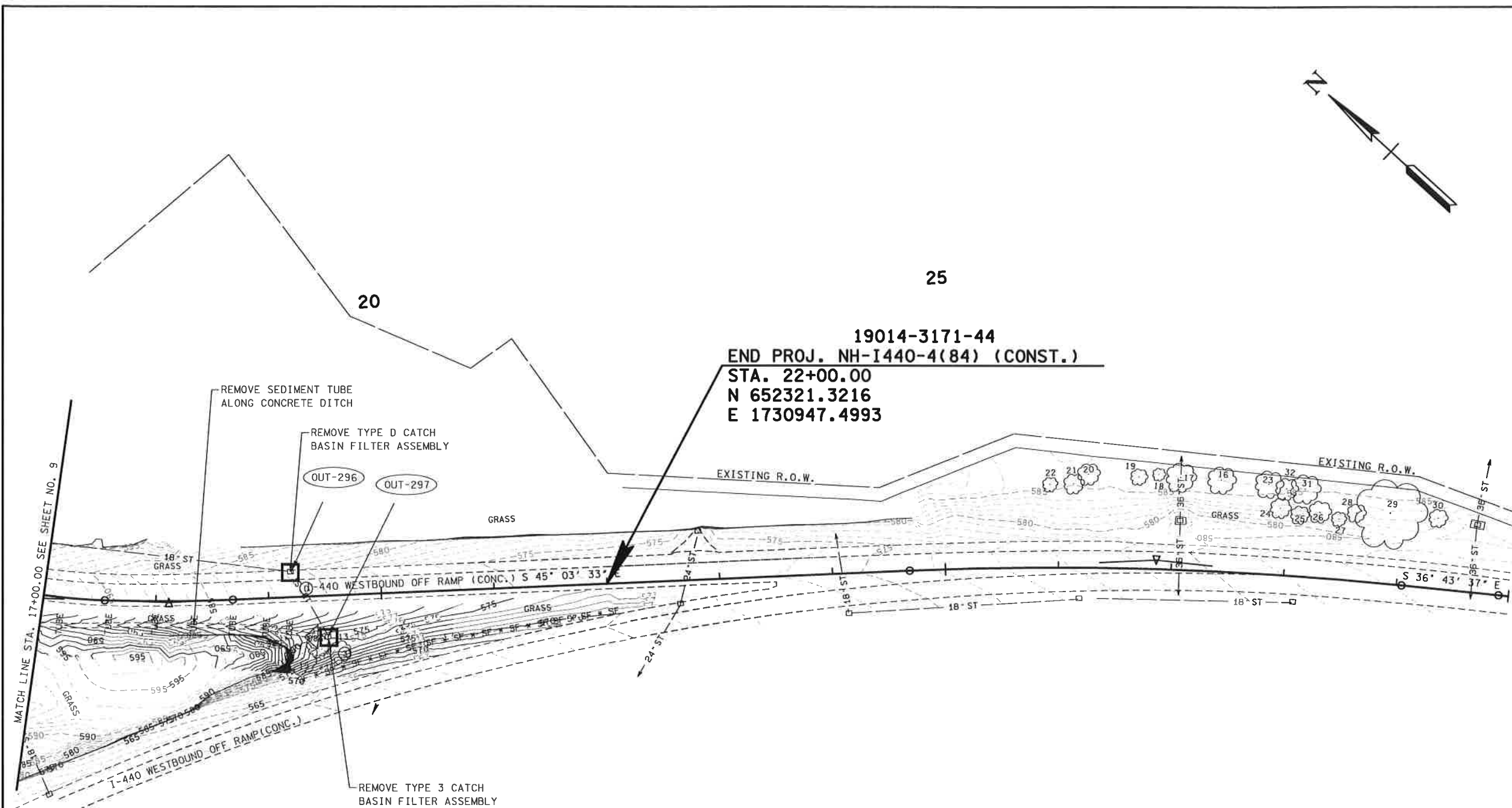
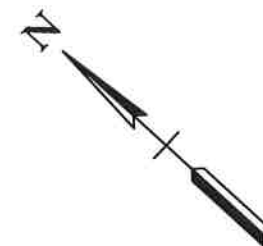
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EROSION  
 PREVENTION &  
 SEDIMENT CONTROL  
 (EPSC) PLANS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-I-440-4(84)	9A



EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
● SF ● SF ● SF ●	SILT FENCE	EC-STR-3B
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
□ (D)	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
□ (3)	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EC-STR-43
□ (4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
◁	ROCK CHECK DAM (V-DITCH)	EC-STR-6

PROPOSED CONTOURS SHOWN

SEALED BY

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE  
DEPARTMENT OF  
TRANSPORTATION

STAGE III

SCALE: 1"= 50'

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

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Index Of Sheets  
SEE SHEET NO. 1A

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2018	1
FED. AID PROJ. NO.	NH - I - 440 - 4(84)	
STATE PROJ. NO.	19014-3171-44	

DESIGN-BUILD PROJECT

**DAVIDSON COUNTY**

I - 440 WIDENING FROM I - 40 TO I - 24  
I - 440 INTERCHANGE AT MURPHY ROAD  
EXIT 1, EASTBOUND RAMP (RAMP QUEUE PROJECT)

CONSTRUCTION  
GRADE, DRAIN, PAVE, SIGNAL  
STATE HIGHWAY NO. 1 - 440 F.A.H.S. NO. 1 - 440



PROJECT NO. NH - I - 440 - 4(84) (CONST.)  
DAVIDSON COUNTY

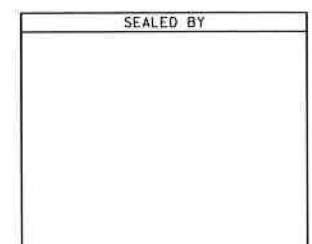
19014-3171-44  
BEGIN PROJECT NO. NH - I - 440 - 4(84) (CONST.)  
STA. 17+33.84  
N 659052.2025 E 1725485.6113

19014-3171-44  
END PROJECT NO. NH - I - 440 - 4(84) (CONST.)  
STA. 21+66.27  
N 658622.8594 E 1725435.0298



NO EXCLUSIONS  
NO EQUATIONS

NO R.O.W. ACQUISITION  
REQUIRED ON THIS PROJECT



APPROVED: Paul D. Degges  
PAUL D. DEGGES, CHIEF ENGINEER

DATE: \_\_\_\_\_

APPROVED: John Schroer  
JOHN SCHROER, COMMISSIONER

**SPECIAL NOTES**

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT DESIGN MANAGER : SHANE HESTER, P.E., PROJECT DEVELOPMENT DIRECTOR  
DESIGNED BY : WSP USA  
DESIGNER : BRIAN REYNOLDS, P.E. CHECKED BY LARRY RIDLEN, P.E.  
P.E. NO. 19014-1174-44  
PIN NO. 125325.00

SCALE: 1"= 1 MILE  
ROADWAY LENGTH 6.892 MILES  
BRIDGE LENGTH 0.237 MILES  
BOX BRIDGE LENGTH 0.000 MILES  
PROJECT LENGTH 7.129 MILES

SURVEY 4-29-2016	TRAFFIC DATA	
	ADT (2018)	15,760
	ADT (2038)	19,540
	DHV (2038)	2,124
	D	65 - 35
	T (ADT)	1 %
	T (DHV)	1 %
	V	35 MPH

COORDINATE VALUES ARE NAD/83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006, AND ARE TIED TO THE TENNESSEE GEODETIC REFERENCE NETWORK. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: \_\_\_\_\_  
DIVISION ADMINISTRATOR DATE

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# GENERAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-I-440-4(84)	2C

## GRADING

- ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) WITHOUT APPROVAL BY FEMA. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

## SEEDING AND SODDING

- SOD SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS TO PREVENT DAMAGE TO ADJACENT FACILITIES AND PROPERTY DUE TO EROSION ON ALL NEWLY GRADED CUT AND FILL SLOPES AS WORK PROGRESSES.

## GUARDRAIL

- THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD.
- GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

## DRAINAGE

- THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN.

## MISCELLANEOUS

- NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

## PAVEMENT MARKINGS

### TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

- TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED.

### FINAL PAVEMENT MARKING

- PERMANENT PAVEMENT LINE MARKINGS ON MURPHY ROAD SHALL BE 4" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED.
- PERMANENT PAVEMENT LINE MARKINGS SHALL ON RAMPS BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED.

## PAVEMENT

### PAVING

- THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.
- THE CONTRACTOR SHALL BE REQUIRED TO COLD PLANE AND PAVE IN THE DIRECTION OF TRAFFIC.

## RESURFACING

- IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

## SIGNING

- THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.
- THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC OPERATIONS DIVISION, SIGNING SECTION (TDOT.TrafficOps@TN.GOV) FOR REVIEW. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE REGIONAL SIGN DESIGNER FOR REVIEW.
- ALL SIGNS MARKED "TO BE REMOVED" ARE TO BE REMOVED BY THE CONTRACTOR AND BECOME THE PROPERTY OF THE CONTRACTOR.
- THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.
- THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.
- THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.
- THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

## SIGNALIZATION

- EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.
- EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE TDOT "SPECIAL PROVISIONS REGARDING SECTION 730N-TRAFFIC SIGNALS."
- SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE METRO PUBLIC WORKS AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE METRO PUBLIC WORKS.
- IF RESURFACING IS INCLUDED IN THE PROJECT, SIGNAL DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.
- ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.
- THE CONTRACTOR SHALL CONTACT MIKE HIRTZER WITH METRO PUBLIC WORKS AT (615)-880-3261 A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE SIGNAL TO OBTAIN THE INITIAL SIGNAL TIMINGS.
- THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.

## CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.

- TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

## EROSION PREVENTION AND SEDIMENT CONTROL

### INSPECTION, MAINTENANCE & REPAIR

- REFER TO THE STORM WATER POLLUTION AND PREVENTION PLAN SHEETS (S-1) FOR SWPPP, PERMITS, AND RECORDS NOTES.

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GENERAL  
NOTES



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2016	NH-1-440-4(84)	5

## EPSC NOTES

### ENVIRONMENTAL

- (1) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

STORMWATER DISCHARGE OUTFALL POINTS																			
NO.	STATION	OFFSET (FT.)	SIDE	SUB-OUTFALLS	DESCRIPTION	IMPACTED DRAINAGE FEATURE	STAGE 1 DISTURBED DRAINAGE AREA (AC.)	STAGE 1 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 1 TOTAL DRAINAGE AREA (AC.)	STAGE 2 DISTURBED DRAINAGE AREA (AC.)	STAGE 2 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 2 TOTAL DRAINAGE AREA (AC.)	STAGE 3 DISTURBED DRAINAGE AREA (AC.)	STAGE 3 UNDISTURBED DRAINAGE AREA (AC.)	STAGE 3 TOTAL DRAINAGE AREA (AC.)	SEDIMENT BASIN OR EQUIVALENT MEASURE	ESTIMATED PERCENT SLOPE WITHIN R.O.W.	COMMENTS	
68	17+76.45	46.32	LT.	#N/A	EX. CATCH BASIN	SYSTEM	0.370	1.374	1.744	0.370	1.374	1.744	0.370	1.374	1.744	NO	33.33%	#N/A	
69	17+84.02	27.86	RT.	#N/A	EX. CATCH BASIN	SYSTEM	0.068	0.014	0.082	0.068	0.014	0.082	0.068	0.014	0.082	NO	2.00%	#N/A	
70	18+78.59	46.77	RT.	#N/A	EX. CATCH BASIN	SYSTEM	0.188	0.108	0.296	0.188	0.108	0.296	0.188	0.108	0.296	NO	1.75%	#N/A	
80	21+35.15	28.37	LT.	#N/A	EX. CATCH BASIN	SYSTEM	0.000	0.623	0.623	0.000	0.623	0.623	0.000	0.623	0.623	NO	2.75%	#N/A	
<b>TOTAL</b>							<b>0.626</b>	<b>2.119</b>	<b>2.745</b>	<b>0.626</b>	<b>2.119</b>	<b>2.745</b>	<b>0.626</b>	<b>2.119</b>	<b>2.745</b>		<b>9.96%</b>		

### EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	750
209-05	SEDIMENT REMOVAL	C.Y.	12
209-09.44	CURB INLET PROTECTION (TYPE 4)	EACH	2
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	2
740-11.04	TEMPORARY SEDIMENT TUBE (20 INCH)	L.F.	50
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	29
801-03	WATER (SEEDING AND SODDING)	M.G.	35
803-01	SODDING (NEW SOD)	S.Y.	3146
805-12.03	EROSION CONTROL BLANKET (TYPE II)	S.Y.	216

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	EROSION CONTROL BLANKET	EC-STR-34
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

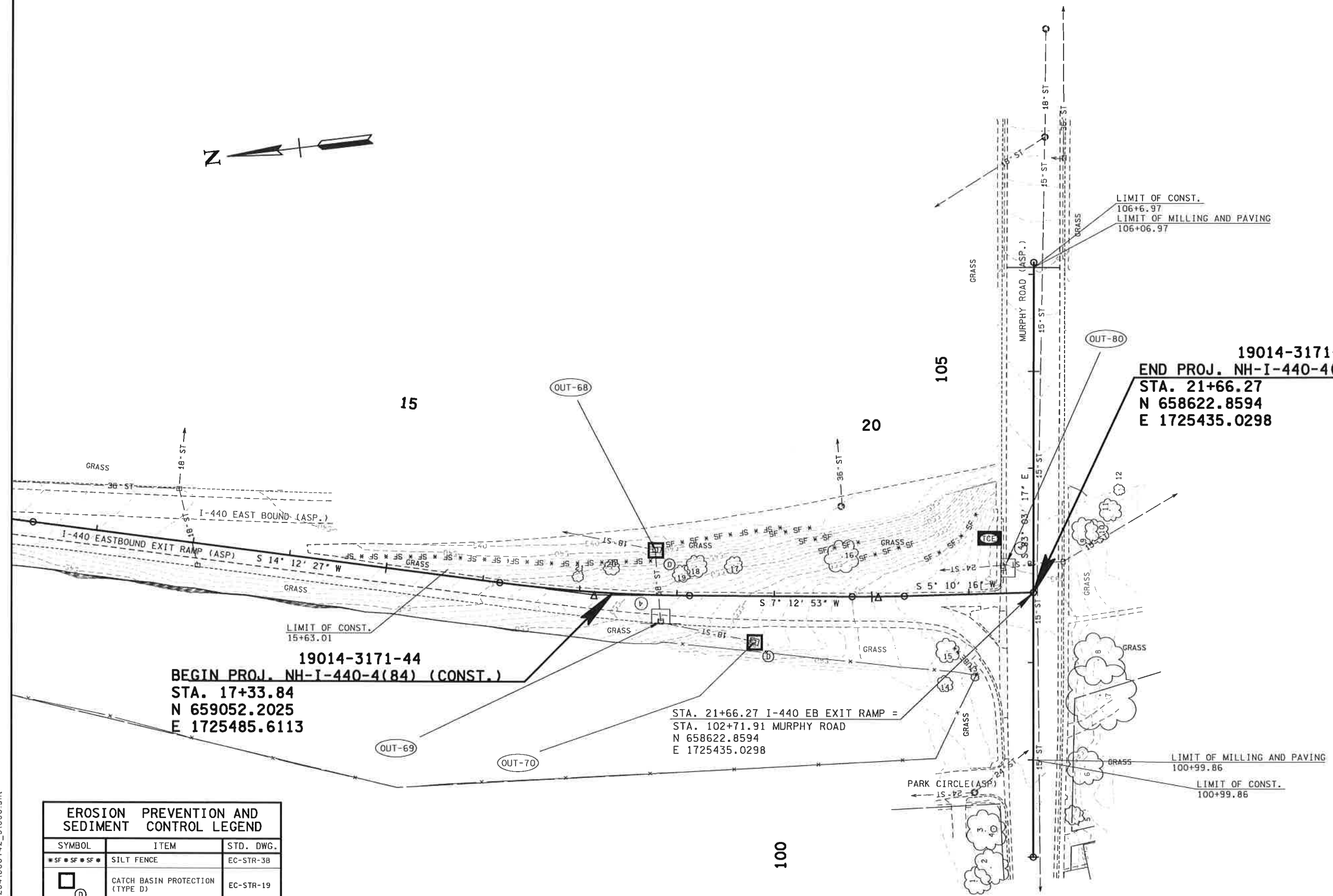
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TRANSPORTATION

EROSION  
PREVENTION &  
SEDIMENT CONTROL  
(EPSC) LEGEND &  
TABULATION



TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-I-440-4(84)	6



**19014-3171-44**  
**BEGIN PROJ. NH-I-440-4(84) (CONST.)**  
**STA. 17+33.84**  
**N 659052.2025**  
**E 1725485.6113**

**19014-3171-44**  
**END PROJ. NH-I-440-4(84) (CONST.)**  
**STA. 21+66.27**  
**N 658622.8594**  
**E 1725435.0298**

STA. 21+66.27 I-440 EB EXIT RAMP =  
 STA. 102+71.91 MURPHY ROAD  
 N 658622.8594  
 E 1725435.0298

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
*SF *SF *SF*	SILT FENCE	EC-STR-38
□ (D)	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
□ (4)	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
**TUBE**TUBE**	SEDIMENT TUBE	EC-STR-37
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

EXISTING CONTOURS SHOWN

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COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00006 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

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STAGE I

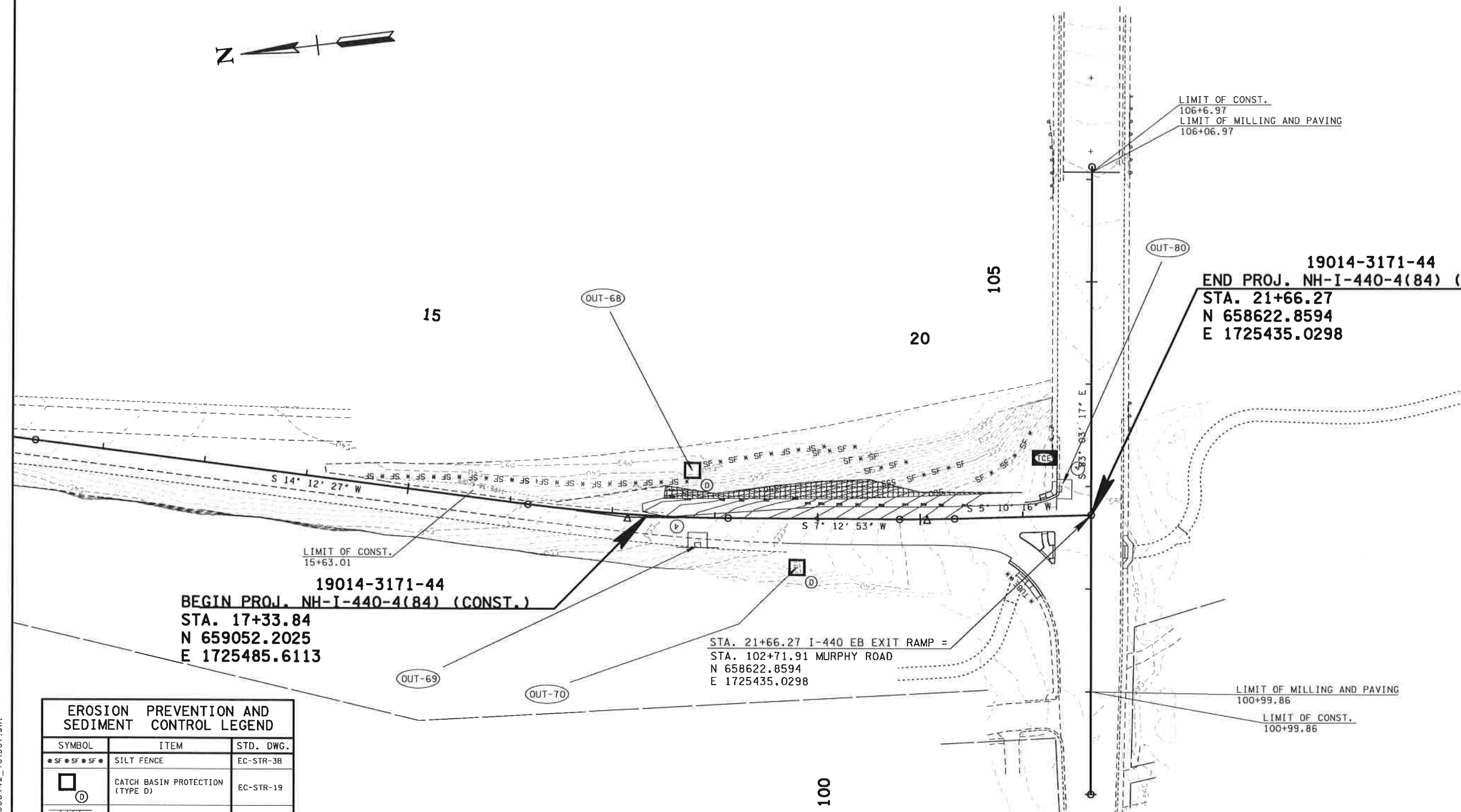
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EROSION  
 PREVENTION &  
 SEDIMENT CONTROL  
 (EPSC) PLANS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-I-440-4(84)	7



19014-3171-44  
 BEGIN PROJ. NH-I-440-4(84) (CONST.)  
 STA. 17+33.84  
 N 659052.2025  
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19014-3171-44  
 END PROJ. NH-I-440-4(84) (CONST.)  
 STA. 21+66.27  
 N 658622.8594  
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 STA. 102+71.91 MURPHY ROAD  
 N 658622.8594  
 E 1725435.0298

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
MM TUBE MM TUBE MM	SEDIMENT TUBE	EC-STR-37
	EROSION CONTROL BLANKET	EC-STR-34
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

PROPOSED CONTOURS SHOWN

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STAGE II

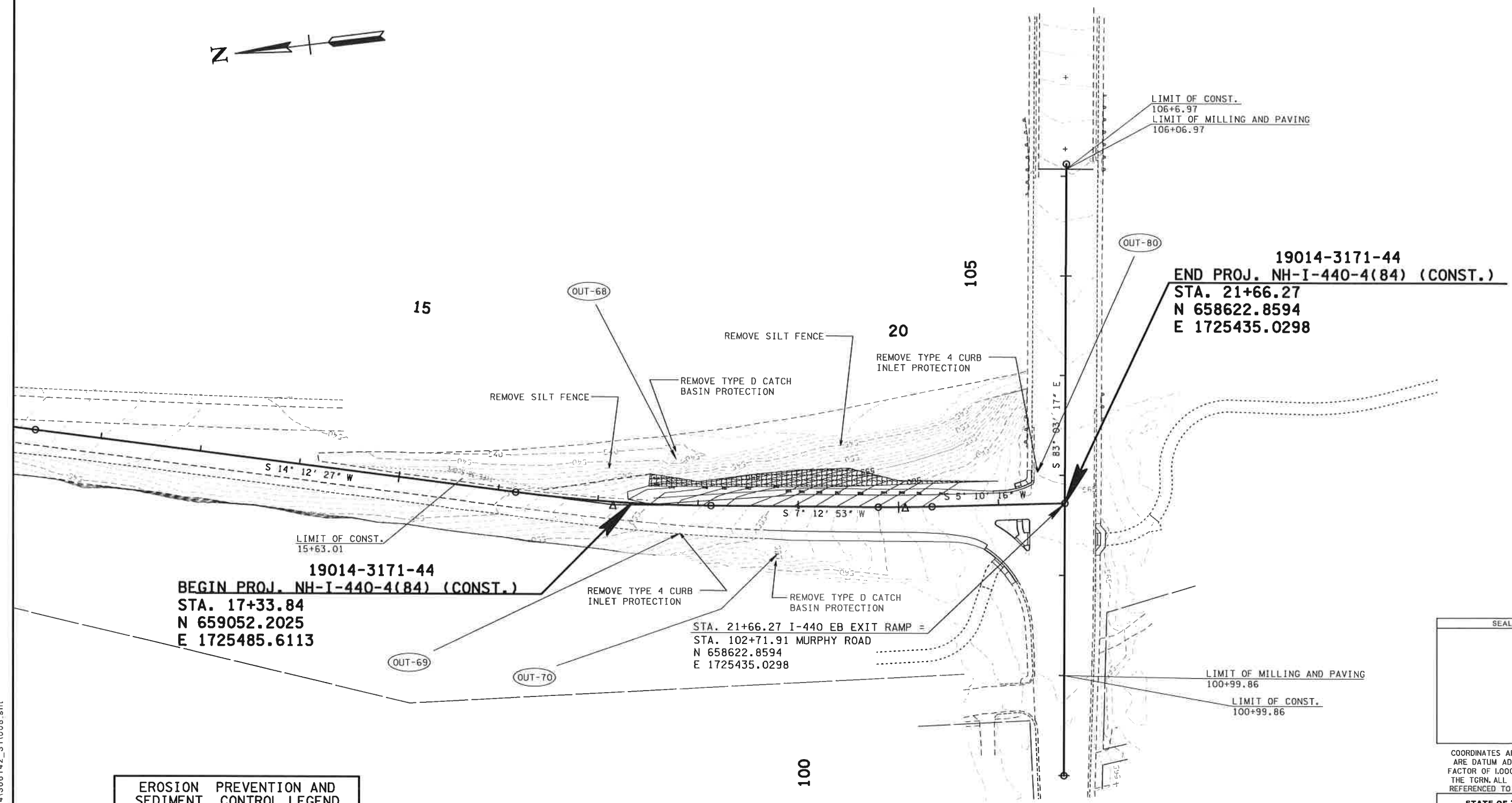
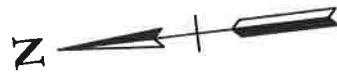
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EROSION  
 PREVENTION &  
 SEDIMENT CONTROL  
 (EPSC) PLANS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	NH-I-440-4(84)	8



19014-3171-44  
**END PROJ. NH-I-440-4(84) (CONST.)**  
**STA. 21+66.27**  
**N 658622.8594**  
**E 1725435.0298**

19014-3171-44  
**BEGIN PROJ. NH-I-440-4(84) (CONST.)**  
**STA. 17+33.84**  
**N 659052.2025**  
**E 1725485.6113**

STA. 21+66.27 I-440 EB EXIT RAMP =  
 STA. 102+71.91 MURPHY ROAD  
 N 658622.8594  
 E 1725435.0298

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STAGE III

SCALE: 1"= 50'

EROSION  
 PREVENTION &  
 SEDIMENT CONTROL  
 (EPSC) PLANS

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
	EROSION CONTROL BLANKET	EC-STR-34
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

PROPOSED CONTOURS SHOWN

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