

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2015	94007-1230-94	1
CONST.	2014	R.PHSIS-11(72)	S-1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**STORMWATER
PREVENTION
PLAN**

FILE NO.	DESIGN DIVISION	DESIGN DIVISION
		TEENESSEE D.O.T.

SWPPP INDEX OF SHEETS

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NOTE: CITATIONS IN PARENTHESIS INDICATE SECTIONS OF THE CURRENT CGP.

- SWPPP REQUIREMENTS (3.0)**
 - HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (3.1.1)?
 - YES (CHECK ALL THAT APPLY BELOW) OR NO
 - CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (EPSS)
 - A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
 - HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE
 - DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ANALYSES FOR USE OF EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (3.1.1)? YES NO
 - IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? YES NO
- DO THE PROJECT STORMWATER OUTFALLS DIRECTLY DISCHARGE INTO THE FOLLOWING (6.4.1)? YES (CHECK ALL THAT APPLY BELOW) NO
 - WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION OR HABITAT ALTERATION)
 - EXCEPTIONAL TENNESSEE WATERS

- IF YES TO SECTION 1.3, HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (5.4.1.b)?
 - YES (CHECK ALL THAT APPLY BELOW) NO
 - CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (EPSS)
 - A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
 - HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE
- DO THE PROJECT STORMWATER OUTFALLS DIRECTLY DISCHARGE INTO THE FOLLOWING (6.4.1)? YES (CHECK ALL THAT APPLY BELOW) NO
 - WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION OR HABITAT ALTERATION)
 - EXCEPTIONAL TENNESSEE WATERS

- SITE DESCRIPTION (3.5.1)**
 - PROJECT LIMITS (3.5.1.b): REFER TO TITLE SHEET
 - PROJECT DESCRIPTION (3.5.1.a):
 - TITLE: SR-11 INTERSECTION OF SR-11 AT SR-96 L.M. 7.40 TO L.M. 7.42
 - OWNER: WILLIAMSON
 - PN: 120278.00
 - SITE MAP(S) (2.6.2): REFER TO TITLE SHEET
 - DESCRIPTION OF EXISTING SITE TOPOGRAPHY (3.5.1.d): REFER TO EXISTING CONTOURS SHEET(S) 99A, DRAINAGE MAP SHEET(S) 7, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.3
 - MAJOR SOIL DISTURBING ACTIVITIES (3.5.1.b) (CHECK ALL THAT APPLY):
 - CLEARING AND GRUBBING
 - EXCAVATION

- CUTTING AND FILLING**
 - FINAL GRADING AND SHAPING
 - UTILITIES
 - OTHER (DESCRIBE): _____
- TOTAL PROJECT AREA (3.5.1.c): 3.63 ACRES
- TOTAL AREA TO BE DISTURBED (3.5.1.c): 3.62 ACRES
- NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.
- ARE THERE ANY SEASONAL LIMITATIONS ON WORK? YES NO
 - IF YES, LIST THE CORRESPONDING PLAN SHEET: _____
- WAS ROW FINALIZED PRIOR TO FEBRUARY 1, 2010 (4.1.2.2)?
 - YES _____ (DATE) NO
- IF **ROW WAS FINALIZED PRIOR TO FEBRUARY 1, 2010, THIS PROJECT IS CONSIDERED A PRE-APPROVED SITE (4.1.2)**
- SOIL PROPERTIES (3.5.11) (4.1.1).
 - SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

SOIL PROPERTIES			
PRIMARY SOIL NAME	HSG	% OF SITE	ERODIBILITY (k value)
A1B - ARMOUR SILT LOAM	B	15.4	0.43
A1C - ARMOUR SILT LOAM	B	7.4	0.43
D1 - DUNNING SILT LOAM	CD	0.6	0.37
M1 - MADE LAND	N/A	5.4	N/A
MB2 - MAURY SILT LOAM	A	2.7	0.32
SB2 - STIVERSVILLE SILT LOAM	A	20.4	0.32
SC2 - STIVERSVILLE SILT LOAM	A	48.1	0.32

- IS ACID PRODUCING ROCK (APR) (i.e. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? YES NO
- IF YES TO SECTION 2.12, HAVE APR LOCATIONS BEEN IDENTIFIED AND REPORTED? YES NO; AND
 - 2.12.2. IF YES TO SECTION 2.12.1, HAS A SPECIAL HANDLING PLAN AND/OR ADAPTIVE MANAGEMENT PLAN (AMP) BEEN PREPARED FOR THE PROJECT? YES NO N/A (TODT SHOULD WILL BE APPLIED)
- PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (3.5.1.g).

AREA TYPE	AREA (AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	2.16	38.4		0.9
PERVIOUS (GRASS, FORESTS, ETC.)	3.47	61.6		0.4
WEIGHTED C-FACTOR =				0.59

- RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS**

AREA TYPE	AREA (AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	2.16	38.4		0.9
PERVIOUS (GRASS, FORESTS, ETC.)	3.47	61.6		0.4
WEIGHTED C-FACTOR =				0.59
- RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS**

AREA TYPE	AREA (AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	2.84	50.4		0.9
PERVIOUS (GRASS, FORESTS, ETC.)	2.79	49.6		0.4
WEIGHTED C-FACTOR =				0.65

- ORDER OF CONSTRUCTION ACTIVITIES (3.5.1.b, 3.5.2.a)**

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 SUPERVISOR. THE CONTRACTOR'S EPSC PLAN SHALL BE CONFORMANT WITH THE CONSTRUCTION AND MAINTENANCE OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DEPICTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.
- SPECIAL SEQUENCING REQUIREMENTS (SEE SHEETS _____)
 - 3.2. INSTALL STABILIZED CONSTRUCTION EXITS.
 - 3.3. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE.
 - 3.4. INSTALL INITIAL EPSC MEASURES BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
 - 3.5. PERFORM CLEARING AND GRUBBING (NOT MORE THAN 14 DAYS PRIOR TO BELOW) OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.
 - 3.6. REMOVE AND STORE TOPSOIL.
 - 3.7. STABILIZE DISTURBED AREAS WITHIN 14 DAYS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY.
 - 3.8. INSTALL UTILITIES, STORM SEWERS, CULVERTS AND BRIDGE STRUCTURES.
 - 3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.
 - 3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.
 - 3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.
 - 3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.
 - 3.13. COMPLETE FINAL STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)
 - 3.14. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.
 - 3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

- STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION**
 - STREAM INFORMATION (3.5.1), 3.5.1.k).
 - 3.5.1.1. WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION OR HABITAT ALTERATION)
 - 4.1.1.1. WATERS WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION: PROJECT LIMITS? YES NO
 - IF YES, THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.
 - 4.1.2. HAVE ANY OF THE RECEIVING STATE WATERS LESS THAN OR EQUAL TO FLOW LIMITS THAT HAVE BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY):
 - 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION ALTERATION
 - 303d WITH UNAVAILABLE PARAMETERS FOR HABITAT ALTERATION
 - EXCEPTIONAL TENNESSEE WATERS (ETW)
 - 3.5.1.2. RECEIVING WATERS OF THE STATE (3.5.1.k).
 - 4.1.3. RECEIVING WATERS OF THE STATE (3.5.1.k).

RECEIVING WATERS OF THE STATE INFORMATION					
TODT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN 5.1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
N/A	WILSON BRANCH	NO	NO	NO	NO
N/A	NELSON CREEK	NO	NO	NO	NO

RECEIVING WATERS OF THE STATE INFORMATION					
TODT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN 5.1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
N/A	WILSON BRANCH	NO	NO	NO	NO
N/A	NELSON CREEK	NO	NO	NO	NO

RECEIVING WOTUS (EPHEMERAL) INFORMATION	
TDOT WOTUS LABEL	N/A
LOCATED WITHIN PROJECT LIMITS (YES OR NO)	N/A
LOCATED WITHIN 15-FT OF THE PROJECT LIMITS (YES OR NO)	N/A

4.1.4. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (4.1.2, 5.4.2)
 YES NO
BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1.2.2)
 IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.
 60-FOOT WATER QUALITY RIPARIAN BUFFER ZONES WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FOOT).
 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 BASIS 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-FOOT FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15-FOET).
 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 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 NOT REQUIRED FOR STATE WATERS DUE TO A DEC ARAP? (3.0)
 YES NO

WETLAND INFORMATION	
TDOT WETLAND LABEL	N/A
FROM STATION LT OR RT	N/A
TO STATION LT OR RT	N/A
TEMPORARY IMPACTS (AC)	N/A
PERMANENT IMPACTS (AC)	N/A

4.2. RECEIVING WATERS OF THE UNITED STATES (WOTUS) (EPHEMERAL)
 WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROL IMPACT ANY WOTUS (EPHEMERAL)? YES NO
 IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND IN THE WATER QUALITY PERMITS.

4.3. OUTFALL INFORMATION
 4.3.1. OUTFALL TABLE (3.5.1.e). SEE SWPPP SHEET S-8 FOR OUTFALL INFORMATION. YES NO
 4.3.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (3.5.1.h)? YES NO
 4.3.3. MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (2.6.2)? YES NO
 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 NA
 4.3.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S)? YES NO NA
 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 SHALL BE PROVIDED FOR EACH OUTFALL THAT RECEIVES RUNOFF FROM A 2-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)
 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 SHALL BE PROVIDED FOR EACH OUTFALL THAT RECEIVES RUNOFF FROM A 2-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
 WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROL IMPACT ANY WETLANDS? YES NO
 IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND IN THE WATER QUALITY PERMITS.

4.5. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (3.5.10)
 IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA-APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?
 YES NO
 IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?
 YES NO
 IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION OR HABITAT ALTERATION?
 YES NO
 IF YES, HAS A SUMMARY OF THE CONSULTATION LETTER BEEN SUBMITTED/RECEIVED?
 YES NO
 4.6. ECOLOGY INFORMATION (3.5.5.e)
 DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?
 YES NO
 IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.
 4.7. ENVIRONMENTAL COMMITMENTS
 ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?
 YES NO
 IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.

5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (3.5.3)
 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 2-YEAR, 24 HOUR STORM 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.
 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)?
 YES NO 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)

TYPE	YEAR	PROJECT NO.	DATE
P.E.	2015	94007-1230-94	NOV.
CONST.	2014	RPHSIP-11172	S-3

FILE NO.
DESIGN DIVISION
TENNESSEE D.O.T.

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. THE TOXICITY TESTING DOES NOT MEET THIS REQUIREMENT. THE PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED.

6.5. STREAMS, WETLANDS OR OTHER NATURAL WATER RESOURCES SHALL BE PROTECTED FROM CONTAMINATION BY FLOCCULANTS. 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 EFFECTS CAN VARY GREATLY FROM SITE TO SITE, SOIL SAMPLES WILL BE COLLECTED AT HIGH SPOTS AND IN EACH OF THE SOIL TYPES TO 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 DRAINAGE TO SENSITIVE WETLANDS, OR OTHER WATER RESOURCES DUE TO SUBSTANTIAL TOXICITY.

6.7. FLOCCULANT POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER IF APPROVED BY THE MANUFACTURER. OTHER APPLICATION METHODS SHALL BE APPROVED BY THE MANUFACTURER. OTHER SOIL AMENDMENTS TO AVOID SPREADING FLOCCULANTS SHALL 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 EFFECTS CAN VARY GREATLY FROM SITE TO SITE, SOIL SAMPLES WILL BE COLLECTED AT HIGH SPOTS AND IN EACH OF THE SOIL TYPES TO 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 DRAINAGE TO SENSITIVE WETLANDS, OR OTHER WATER RESOURCES DUE TO SUBSTANTIAL TOXICITY.

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) TO ANY OTHER CONSTRUCTION ACTIVITY. UNDESIRABLE PARTICLES SHALL BE TRAPPED IN A BUFFER FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS AND 15 FEET (30 FEET DESIRABLE) TO ANY OTHER CONSTRUCTION ACTIVITY. THE BUFFER SHALL BE LOCATED UPSTREAM OF THE RECEIVING WATERS. THE BUFFER SHALL BE DESIGNED TO TRAP ANY OTHER CONSTRUCTION ACTIVITY. THE BUFFER SHALL BE DESIGNED TO TRAP ANY OTHER CONSTRUCTION ACTIVITY.

5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE GROUNDED, REMOVED OR DISTURBED MORE THAN 14 DAYS PRIOR TO STABILIZATION OR EARTH MOVING UNLESS THE AREA WILL BE REVEGETATED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (3.5.3.1h).

5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY STABILIZATION MEASURES WILL BE COMPLETED WITHIN 14 DAYS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION MEASURES 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 (3.5.3.2).

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 ON ANY PORTION OF THE SITE. SOILS SHOULD BE ANALYZED FOR NITROGEN, PHOSPHORUS, POTASSIUM, CALCIUM, MAGNESIUM, SODIUM, SULFUR, AND ZINC. 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. STABILIZATION SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (3.5.3.2).

5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BE MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (3.5.3.2) (10. "STEEP SLOPE") YES NO N/A

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 (3.5.1j). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS FOR THE DEWATERING STRUCTURES AND WATERS THAT WILL BE MAINTAINED ON SITE WITHIN THE DOCUMENTATION AND PERMITS' BINDER.

5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET B HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (3.3.3.1b).

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 WATERS (EPHEMERAL STREAMS) MUST BE INSTALLED IMMEDIATELY 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 FERTILIZERS TO WATERS OF THE STATE, OR TO 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., FLUXTIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS 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 SHALL NOT BE REMOVED WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.

5.18. OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT ENHANCED EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO PREVENT 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 Z.5 (3.5.3.1n).

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 MUST BE 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 OR LINED CHANNEL. 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 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 OBSCURABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL

6. FLOCCULANTS (3.5.3.1b) IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.4.1.g) 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 1.25% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MGD/POUNDS.

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, DESCRIBED ON THE EPSC PLANS (3.5.3.1b).

6.3. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEETS (MSDS) SHALL BE OBTAINED AND REVIEWED 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

7. UTILITY RELOCATION ARE UTILITIES INCLUDED IN THE CONTRACT? YES NO IF YES, THE FOLLOWING 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. SLIT FENCE SHALL BE INSTALLED ON THE DOWNGRADE SIDE OF EXCAVATION. ALL EXCAVATION SHALL BE CONDUCTED DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.

7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE MAINTAINED THROUGHOUT THE PROJECT. ENVIRONMENTAL PERMITS SHALL BE OBTAINED FOR ALL UTILITY CROSSINGS. 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 CONTAMINATION 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/US.

7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE CONSTRUCTED TO A MINIMUM OF 18 INCHES. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED

	<p>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") (3.5.1.6)</p> <p>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 CONDUCTED AT THE TRENCHES, TRENCHES, TRENCHES, AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.</p> <p>8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER THE TRENCHES ARE PROPERLY INSTALLED AND MAINTAINED, CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS (EPHEMERAL, PERMANENT, OTHER, NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS, WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE SPECIFIED, LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE IDENTIFIED, AND EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.</p> <p>8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND DURING 24 HOURS A PART (3.5.3.2.a). A 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.</p> <p>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 REASON FOR THE REVIEW TO CHANGE FREQUENCY AND JUSTIFICATION (3.5.8.2.a).</p> <p>8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FULLY STABILIZED AREAS USED FOR MATERIAL STORAGE THAT ARE NOT FULLY STABILIZED SHALL BE INSPECTED (3.5.8.2.b). THE SITE, AND EACH OUTFALL WILL BE INSPECTED (3.5.8.2.b).</p> <p>8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER PERMITS INCLUDING 404 AND TWA SECTION 269a PERMITS FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 "INSPECTOR").</p> <p>8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISIONS WILL BE RECORDED WITHIN 7 DAYS OF THE INSPECTION. REVISIONS WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.e AND 3.5.8.2.f).</p> <p>8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS PER THE CONTRACT.</p> <p>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.</p> <p>8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION REPORTS TO BEST OF THEIR KNOWLEDGE AND SKILL. 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).</p> <p>8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)</p> <p>THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING THE REQUIREMENTS OF THIS PERMIT, THE INDIVIDUAL OR CONSULTANT PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.</p> <p>8.3. MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)</p>	
	<p>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)</p> <p>8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.</p> <p>8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES SHALL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER. IF NECESSARY, MEASURES SHALL BE MODIFIED BEFORE THE NEXT TRAINING, IF POSSIBLE. IN ANY 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 MEASURES SHALL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER. WRITTEN DOCUMENTATION SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION (3.5.8.2.e).</p> <p>8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (DITCHES, TRENCHES, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%) (3.5.3.1.e)</p> <p>8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT EROSION AND DAMAGE TO THE STRUCTURES. MEASURES ARE NOT DAMAGED AND THIS MADE INEFFECTIVE. DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.</p> <p>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.</p> <p>8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT IT DOES NOT MIGRATE INTO FEATURES REMOVED FROM AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/US.</p> <p>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).</p> <p>8.3.9. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.</p>	
	<p>9. SITE ASSESSMENTS (3.1.2)</p> <p>QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE GUIDELINES.</p>	
	<p>10. STORMWATER MANAGEMENT (3.5.4)</p> <p>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 DEPICED ON THE PLANS AND NOTED AS PERMANENT.</p> <p>10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (3.5.4); <u>SOIL FOR SIDESLOPE AND DITCH STABILIZATION.</u></p> <p>10.3. OTHER ITEMS NEEDING CONTROL (3.5.5)</p> <p>CONSTRUCTION MATERIALS: THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> LUMBER, GUARDRAIL, TRAFFIC CONTROL DEVICES <input checked="" type="checkbox"/> CONCRETE WASHOUT <input checked="" type="checkbox"/> PIPE CULVERTS (I.E. CONCRETE CORRUGATED METAL, HDPE, ETC.) <input checked="" type="checkbox"/> MINERAL AGGREGATES, ASPHALT <input checked="" type="checkbox"/> EARTH <input checked="" type="checkbox"/> LIQUID TRAFFIC STRIPING MATERIALS, PAINT 	

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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.

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 PROTECTIVE GEAR TO PREVENT ANY ENVIRONMENTAL 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 SUPERINTENDENT SHALL HAVE APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.

12.4.5. IF SPILLS PRESENT 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 SUPERINTENDENT. THE SPILL REPORTING FORM AND ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY. ALL MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE(S), INCLUDING GROUNDWATER, 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 (5.1)

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.

11.5. ARE ANY DISCHARGES ASSOCIATED WITH INDUSTRIAL (NON-CONSTRUCTION/STORMWATER) ACTIVITY EXPECTED (3.5.1.1)?

YES NO

IF YES, SPECIFY THE LOCATION OF THE ACTIVITY AND ITS PERMIT NUMBER: _____

12. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (3.5.5.c.5.1)

12.1. SPILL PREVENTION (3.5.5.c)

12.1.1. CONTRACTORS, BULK FUEL AND PETROLEUM PRODUCTS STORAGE AREAS, AND STORAGE TANKS SHALL BE CONSTRUCTED ON 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 SPECIAL PROVISION (SPCP) PLAN AS REQUIRED BY TDOT AND FEDERAL PERMITS AND (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 OR IN ORIGINAL CONTAINERS AND LABELLED. 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 STORAGE AND DISPOSAL SHALL 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 RESEALABLE. ORIGINAL CONTAINERS 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 SHALL BE CONDUCTED IN A DESIGNATED AREA. OIL, GREASE, AND OTHER OPERATIONS FUEL TANK DRAINAGE 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 DISCHARGED TO A DESIGNATED AREA. WHEEL WASH WATER WILL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM OR STORMWATER TREATMENT SYSTEM. POTENTIAL PH-MODIFYING MATERIALS SUCH AS: BULK CEMENT, GEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS AND CURING WATERS, CONCRETE CURING AND 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

10.4. WASTE MATERIALS (3.5.5.b)

WASTE MATERIAL (EARTH, ROCK, ASPHALT, CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED AT AN APPROVED LOCATION. FEDERAL AND STATE REGULATIONS GOVERNING CONTRACT AND FEDERAL AND STATE REGULATIONS IMPACTS TO WATERS OF THE STATE(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 206 PERMITS TO DISPOSE OF WASTE MATERIALS.

10.5. 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 REGULATIONS ARE FOLLOWED. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

10.6. 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 DISPOSAL CONTRACTOR. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

10.7. OTHER MATERIALS

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

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

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (3.5.9)

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.a)
- POTABLE WATER SOURCES INCLUDING WATERLINE 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: _____

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 EPCSC 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 AT THE CONSTRUCTION SITE. WASH DOWN AREAS SHALL BE PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

12.5.2. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G.

12.5.3. SPILL NOTIFICATION (5.1)

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.

12.5.2. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G.

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12.5.1. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER PREVENTION PLAN

TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.

12.5.2. THE TDEC 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, DATE OF RELEASE, AND ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANGE 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 REEVALUATED PERIODICALLY NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

13. RECORD-KEEPING

13.1. REQUIRED RECORDS
 13.1.1. TDEC OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (3.5.3.1.m) (4.1.5.1)(6.2.1).

13.1.2. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

13.1.3. THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE.

13.1.4. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4.1. 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 (3.5.3.1.9):

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 THE GAUGE. THE GAUGE WILL BE 10 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 OR THE NPDES PERMIT. IN AN OPEN AREA SUCH THAT THE MEASUREMENT WILL NOT BE INFLUENCED BY OUTSIDE FACTORS (IE. OVERHANGS, GUTTER, TREES, ETC.). AT LEAST ONE RAIN GAUGE PER LINEAR MILE IS REQUIRED ALONG (AS MEASURED ALONG THE CENTERLINE OF THE PRIMARY ROADWAY) TO BE LOCATED ALONG THE ROADWAY. THE GAUGE IS TO BE PERMANENTLY STABILIZED OR FILLING IS TO BE PERMANENTLY STABILIZED.

13.2.3. METHODS
 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 CONSTRUCTION, READINGS WILL NOT BE NECESSARY TO RECORD RAINFALL. RAIN RECORDS WILL NOT BE NECESSARY TO 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 TO THE LOCAL WEATHER SERVICE.

13.2.5. DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDE DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE LOCATION OF EACH EVENT. RECORDS SHALL BE RECORDED ON THE TDEC 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 GAUGE, SHALL BE RECORDED IN THE TDEC 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 TO THE CONSTRUCTION PROCESS DEVELOPS. IT SHALL BE KEPT CURRENT BY THE CONTRACTOR. THE TDEC 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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PLAN 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. PLUS, THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

13.3.3. THE TDEC 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 POLLUTANT 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 IDENTIFIED AS BEING ASSIGNED 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. THE TDEC 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. TDEC WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING 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 BEFORE THE START OF CONSTRUCTION, THE CONTRACTOR, TDEC 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 LOCAL ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.

13.5. NOTICE OF TERMINATION (8.0)

13.5.1. WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE STOPPED, THE CONTRACTOR SHALL 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 PERMIT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE CESSATION OF ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE STOPPED AND ALL DISTURBED AREAS ARE STABILIZED OR CONTROL HAVE BEEN FINALLY STABILIZED AND

13.5.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES AND ALL CONSTRUCTION TOOLS AND VEHICLES THAT WERE USED AND ALL CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED AND

13.5.2.3. ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT FOR THOSE CONTROLS THAT WERE INSTALLED FOR PERMIT COVERAGE, HAVE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND

13.5.2.4. ALL POTENTIAL POLLUTANTS AND POLLUTANT CONCENTRATIONS 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 THAT WERE INSTALLED FOR PERMIT COVERAGE, AND FOLLOWING TERMINATION OF PERMIT COVERAGE; AND

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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 HAS 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 (7.7.5)**

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 TCR SECTION 38-16-702a(4)(f). THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

John Hewitt
 AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

JOHN HEWITT
 PRINTED NAME

CE MANAGER 2
 TITLE

09/07/2017
 DATE

15. **SECONDARY PERMITTEE OPERATOR CERTIFICATION (7.7.6)**

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 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 TCR SECTION 38-16-702a(4)(f). THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

PRINTED NAME

TITLE

DATE

16. **ENVIRONMENTAL PERMITS (9.0)**

LIST ALL ENVIRONMENTAL PERMITS AND EXPIRATION DATES FOR PROJECT (TO INCLUDE PERMITS REVIEWED AND APPROVED BY THE OPERATOR AND PERMITS BEING BY TDOT CONSTRUCTION OR THEIR DULY AUTHORIZED REPRESENTATIVE).

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

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

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OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB-OUT-FALL	STATION OR RT	SLOPE WITHIN ROW (%)	STAGE 1 (S1) DRAINAGE AREA (AC)	STAGE 2 (S2) DRAINAGE AREA (AC)	STAGE 3 (S3) DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURES (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
1	OUT-1		306+10 LT SR-11	8.30	1.81			N/A	WILSON BRANCH	
2	OUT-1		306+46 LT SR-11	8.30		2.18		N/A	WILSON BRANCH	
3	OUT-1		305+00 LT SR-11	8.30			2.18	N/A	WILSON BRANCH	
1	OUT-2		34+50 RT SR-96	6.08	0.08			N/A	WILSON BRANCH	
2-3	OUT-2		34+50 RT SR-96	2.63		0.81		N/A	WILSON BRANCH	
1-3	OUT-3		34+90 LT SR-96	2.83	2.08	2.39		N/A	NELSON CREEK	
1	OUT-4		319+85 LT SR-11	2.25	0.78			N/A	WILSON BRANCH	
1-3	OUT-5		22+75 RT SR-96	3.52	1.36	1.85		N/A	WILSON BRANCH	
1-3	OUT-6		22+15 LT SR-96	3.80	2.06	3.05		N/A	WILSON BRANCH	
2-3	OUT-7		317+70 RT SR-11	0.76		0.11		N/A	NELSON CREEK	

ALL UNUSED FIELDS WITHIN THE OUTFALL TABLE ARE TO BE SHADED, HATCHED, OR REMOVED TO INDICATE THEIR NONUSAGE.

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Index Of Sheets
SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
FED. AID PROJ. NO.	2017	1
STATE PROJ. NO.	R-PHSIP/HSIP-11(72)	
	94007-3230-94	

PROJECT LOCATION



WILLIAMSON COUNTY

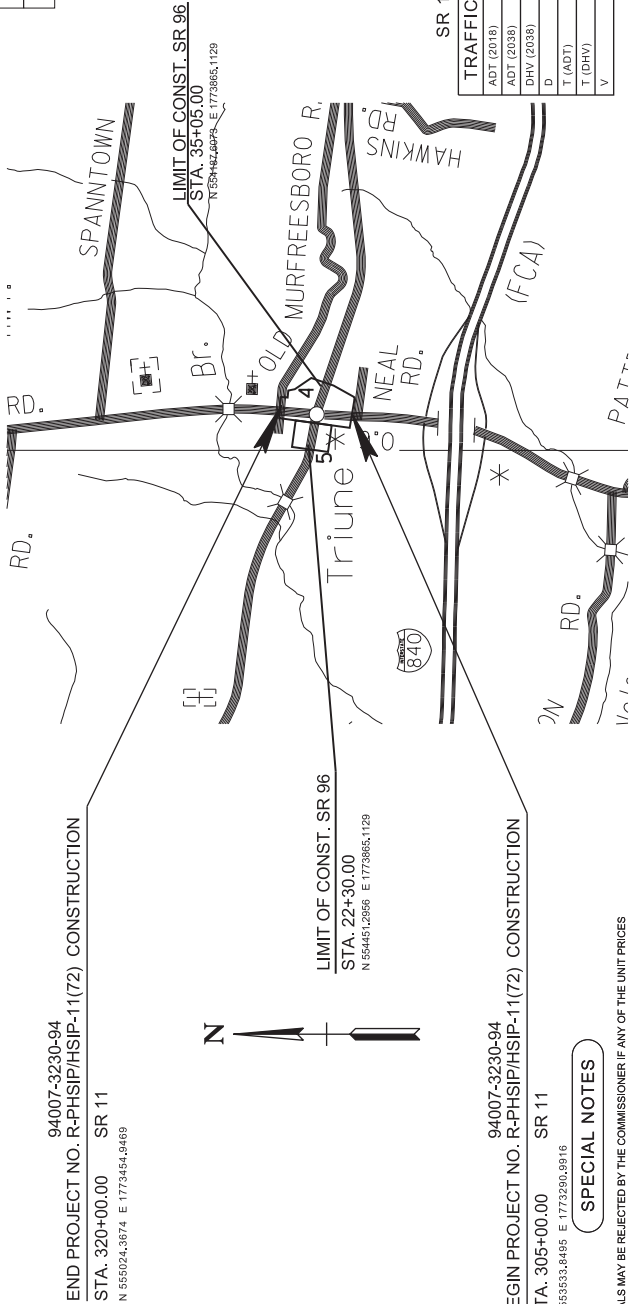
STATE ROUTE 11
INTERSECTION OF SR 11 AT SR 96
L.M. 7.40 TO L.M. 7.42

CONSTRUCTION

GRADE, DRAIN, PAVE & SIGNALIZE

STATE HIGHWAY NO. 11 F.A.H.S. NO. 41A

NO EXCLUSIONS
NO EQUATIONS



94007-3230-94
END PROJECT NO. R-PHSIP/HSIP-11(72) CONSTRUCTION
STA. 320+00.00 SR 11
N 555024.3674 E 1773454.9469

LIMIT OF CONST. SR 96
STA. 22+30.00
N 554451.2856 E 1773865.1129

LIMIT OF CONST. SR 96
STA. 35+05.00
N 554484.4493 E 1773865.1129

94007-3230-94
BEGIN PROJECT NO. R-PHSIP/HSIP-11(72) CONSTRUCTION
STA. 305+00.00 SR 11
N 553533.8495 E 1773250.9916

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE CRIBOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.
THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2015 AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

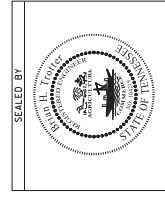
TOT C.E. MANAGER 1: PETE FAULKENBERG, PE
DESIGNED BY: HDR
CHECKED BY: BRIAN TROTTER, PE
P.E. NO. 94007-1235-94 (DESIGN)
PIN NO. 120278.00

SR 11		SR 96	
TRAFFIC DATA	TRAFFIC DATA		
ADT (2015)	10610	ADT (2015)	10440
ADT (2038)	18040	ADT (2038)	17750
D	2212	D	2227
T (ADT)	55 - 45	T (ADT)	55 - 45
T (DHW)	7 %	T (DHW)	4 %
V	45 MPH	V	45 MPH

SURVEY 8-20-14
REV 10-28-14

SR 11	SR 96	SR 96	
ROADWAY LENGTH	0.284 MILES	ROADWAY LENGTH	0.241 MILES
BRIDGE LENGTH	0.000 MILES	BRIDGE LENGTH	0.000 MILES
BOX BRIDGE LENGTH	0.000 MILES	BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	0.284 MILES	PROJECT LENGTH	0.241 MILES

STATE PLANE COORDINATES ARE BASED ON GFS MEASUREMENTS OBTAINED 07/29/84 USING GCOB 62003007 MODEL AND DATUM ADJUSTMENT FACTOR OF 1.00689



APPROVED: PAUL D. DEGGER, CHIEF ENGINEER
DATE:
APPROVED: JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED:
DIVISION ADMINISTRATOR _____ DATE _____

ROADWAY INDEX

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STANDARD TRAFFIC OPERATIONS DRAWINGS	1A2
PROJECT COMMITMENTS	1B (NOT USED)
ESTIMATED ROADWAY QUANTITIES	2 - 2A
ESTIMATED SIGNAL QUANTITIES	2A1
ESTIMATED UTILITIES QUANTITIES	2A2
TYPICAL SECTIONS	2B - 2B3
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B4
GENERAL NOTES	2C - 2C1
SPECIAL NOTES	2D
TABULATED QUANTITIES	2E - 2E2
RIGHT-OF-WAY NOTES, UTILITY NOTES and UTILITY OWNERS	3
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PRESENT LAYOUT SR 11	4
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STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS					
RCA-1	12-18-99	STANDARD ABBREVIATIONS	D-CB-12LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12 L.P. CATCH BASIN (FOR USE WITH 6" NON-MOUNTABLE CURB)
RCL-1	10-26-94	STANDARD LEGEND	D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 12 CATCH BASIN
REL-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS	D-CB-12RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NON-MOUNTABLE CURB)
RDL-3	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING	D-CB-12RB	03-11-14	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NON-MOUNTABLE CURB)
RDL-4	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING	D-CB-12RC	03-11-14	STANDARD PRECAST 8" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NON-MOUNTABLE CURB)
RDL-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	D-CB-12S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
RDL-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	D-CB-12SB	03-11-14	STANDARD 4'X4' SQUARE CONCRETE NO. 12 CATCH BASIN
RDL-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL	D-CB-12SC	03-11-14	STANDARD 5'2'X9'2" SQUARE CONCRETE NO. 12 CATCH BASIN
REL-8	10-15-02	STANDARD LEGEND FOR NATURAL STREAM DESIGN	D-CB-12SD	03-11-14	STANDARD 7'X7' SQUARE CONCRETE NO. 12 CATCH BASIN
RD1-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS SHOULDER	D-CB-12SE	03-11-14	STANDARD 9'X9' SQUARE CONCRETE NO. 12 CATCH BASIN
RD1-TS-6	10-10-16	TYPICAL C&RB AND GUTTER SECTIONS WITH SHOULDER	D-CB-14P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
RD1-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS	D-CB-14RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 14RB CATCH BASIN
RD1-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT	D-CB-14S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 14 CATCH BASIN
RD1-S-11A	10-15-02	ROADSIDE SLOPE DETAILS FOR DESIGN AND CONSTRUCTION	D-CB-14SE	03-11-14	STANDARD 9'X9' SQUARE CONCRETE NO. 14 CATCH BASIN
RD1-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES	D-CB-42RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
RD1-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION	D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
RD1-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS	D-CB-42SB	03-11-14	STANDARD 4'X4' SQUARE CONCRETE NO. 42 CATCH BASIN
RDUD-3	09-05-96	UNDERDRAIN DETAILS	D-CB-42SC	03-11-14	STANDARD 7'X7' SQUARE CONCRETE NO. 42 CATCH BASIN
RDUD-4	01-25-16	UNDERDRAIN LATERAL DETAILS	D-CB-42SD	03-11-14	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
RDUD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES	D-CB-99	05-20-14	1 TYPE 'B' CAST IRON FRAME, 15KAL15 & NON-MOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS
PIPE CULVERTS AND ENDWALLS					
D-IB-1	03-16-17	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION	D-CBB-12A	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-IB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION	D-CBB-42	05-27-01	DETAILS OF STANDARD CONCRETE DRIVEWAYS
D-IE-18A	01-06-15	18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)	RP-D-15	04-08-16	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
D-IE-18B		18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)	RP-D-16	04-08-16	EXAMPLES OF STREET & ALLEY INTERSECTIONS
D-IE-24A	01-21-16	24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)	RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROAD
D-IE-24B		24" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRADE (FOR 3:1, 4:1 & 6:1 SLOPES)	RP-NMC-10	07-29-03	STANDARD VERTICAL (NON-MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
D-IE-30A	10-10-16	30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRADE (FOR 3:1, 4:1 & 6:1 SLOPES)	RP-S-7	02-05-16	DETAILS FOR CONCRETE SIDEWALKS
D-IE-30B		18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)	ROADWAY AND PAVEMENT APPURTENANCES		
D-IE-99	11-01-13	PIPE GRADE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLS (FOR 3:1, 4:1 & 6:1 SLOPES)	DETAILS OF STANDARD CONCRETE DRIVEWAYS		
D-SEW-1A	03-16-17	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE GRADE FOR 15' THRU 48" PIPES - 6:1 SLOPES	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS		

YEAR	PROJECT NO.	SHEET NO.
2017	RHSRHSR-1172	1A

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**ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS**

STANDARD ROADWAY DRAWINGS (CONT.)

DWG. REV. DESCRIPTION

SAFETY DESIGN AND FENCES

- S-CZ-1 CLEAR ZONE CRITERIA
- S-F-1 05-24-12 HIGH VISIBILITY FENCE
- G-RP-2 02-08-16 STANDARD CONCRETE RIGHT-OF-WAY MARKERS

DESIGN - TRAFFIC CONTROL

- T-M-1 07-24-14 DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
- T-M-2 10-10-16 DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
- T-M-3 07-24-14 MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
- T-M-4 10-10-16 STANDARD INTERSECTION PAVEMENT MARKINGS
- T-FAB-1 05-27-97 FLASHING YELLOW ARROW BOARD
- T-WZ-10 04-02-12 ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS

EROSION PREVENTION AND SEDIMENT CONTROL

- EC-STR2 08-01-12 SEDIMENT FILTER BAG
- EC-STR3B 03-16-17 SILT FENCE
- EC-STR3E 04-01-08 SILT FENCE FABRIC JOINING DETAILS
- EC-STR8 06-10-14 FILTER SOCK
- EC-STR37 06-10-14 SEDIMENT TUBE
- EC-STR6 05-06-16 ROCK CHECK DAM
- EC-STR6A 05-06-16 ENHANCED ROCK CHECK DAM
- EC-STR11 03-16-17 CULVERT PROJECTION TYPE 1
- EC-STR19 04-01-08 CATCH BASIN PROTECTION
- EC-STR39 08-01-12 CURB INLET PROTECTION TYPE 1 & 2
- EC-STR25 08-01-12 TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	R-4151P(H)P-1(U)2	1A1

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STATE OF TENNESSEE
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TRANSPORTATION

STANDARD
ROADWAY
DRAWINGS

STANDARD TRAFFIC OPERATIONS DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	R-SP18(P)BP-1(172)	1A2

REV. DESCRIPTION

DWG. SIGNS	REV.	DESCRIPTION
T-S-6	02-12-91	STANDARD MOUNTING DETAILS -BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-12	07-02-15	STANDARD STEEL GROUND MOUNTED SIGNS. BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-20-12	STANDARD STEEL GROUND MOUNTED SIGNS. BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	08-17-12	STANDARD STEEL GROUND MOUNTED SIGNS. BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-02-15	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-19	07-19-15	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-S-23C	07-02-15	BREAKAWAY POST SIGN SUPPORTS

SIGNALS

T-SG-2	06-27-16	LOOP LEAD-INS CONDUIT AND PULL BOXES
T-SG-3	06-27-16	STANDARD NOTES AND DETAILS FOR INDUCTIVE LOOPS
T-SG-4	06-27-16	SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	06-27-16	CONTROLLER CABINET DETAILS
T-SG-7	06-27-16	SIGNAL HEAD ASSEMBLIES
T-SG-7D		TYPICAL SIGNAL HEAD PLACEMENT TWO-LANE APPROACHES
T-SG-7E		TYPICAL SIGNAL HEAD PLACEMENT THREE-LANE APPROACHES
T-SG-8	06-27-16	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9A	06-27-16	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	06-27-16	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-12	06-27-16	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS

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STANDARD
 TRAFFIC
 OPERATIONS
 DRAWINGS

YEAR	PROJECT NO.	SHEET NO.
CONST.	R-1151P(HSP-1172)	2

ESTIMATED ROADWAY QUANTITIES		
ITEM NO.	DESCRIPTION	TOTAL QUANTITY
105-01	CONSTRUCTION STAKES LINES AND GRADES	LS 1
201-01	CLEARING AND GRUBBING	LS 1
202-01	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS 1
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y. 8554
204-08-01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y. 19
209-05	SEDIMENT REMOVAL	C.Y. 13
209-08-03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F. 5230
209-08-07	ROCK CHECK DAM PER	EACH 10
209-08-08	ENHANCED ROCK CHECK DAM	EACH 13
209-09-02	TEMPORARY SEDIMENT FILTER BAG (14" X 20' X 133')	BAG 1
209-09-41	CURB INLET PROTECTION (TYPE 2)	EACH 21
209-40-30	CATCH-BASIN PROTECTION (TYPE A)	EACH 4
303-01	MINERAL AGGREGATE, TYPE A, BASE, GRADING D	TON 8019
303-10-01	MINERAL AGGREGATE (SIZE 57)	TON 14
307-01-21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON 1159
307-02-01	ASPHALT CONCRETE MIN(PG70-22) (BPMB-HM) GRADING A	TON 1605
307-02-08	ASPHALT CONCRETE MIN(PG70-22) (BPMB-HM) GRADING B-M	TON 1472
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON 14
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON 50
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON 8
411-02-10	ACS MIX(PG70-22) GRADING D	TON 861
415-01-02	COLD PLANING BITUMINOUS PAVEMENT	S.Y. 3768
607-03-02	18" CONCRETE PIPE CULVERT (GLASS III)	L.F. 1448
607-30-02	18" PIPE CULVERT (SIDE DRAIN)	L.F. 153
611-07-01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y. 1
611-07-02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB. 45
611-07-03	STRUCTURAL STEEL (PIPE ENDWALLS)	LB. 2545
611-07-31	18IN ENDWALL (SIDE DRAIN)	EACH 1
611-07-32	24IN ENDWALL (SIDE DRAIN)	EACH 3
611-07-02	30IN ENDWALL (CROSS DRAIN) 6:1	EACH 2
611-12-01	CATCH-BASINS, TYPE 12.0' - 4' DEPTH	EACH 5
611-12-02	CATCH-BASINS, TYPE 12.0' - 4' - 8" DEPTH	EACH 12
611-14-02	CATCH-BASINS, TYPE 14.0' - 4' - 8" DEPTH	EACH 4
611-14-01	CATCH-BASINS, TYPE 14.0' - 4' DEPTH	EACH 1
701-02	CONCRETE DRIVEWAY	S.F. 4960
702-01	CONCRETE CURB	C.Y. 3
702-03	CONCRETE COMBINED CURB & GUTTER	C.Y. 160
708-02-01	MARKERS (CONCRETE RO W. POSTS)	EACH 19

ESTIMATED ROADWAY QUANTITIES		
ITEM NO.	DESCRIPTION	TOTAL QUANTITY
709-05-05	MACHINED RIP-RAP (CLASS A-3)	TON 200
709-05-06	MACHINED RIP-RAP (CLASS A-1)	TON 228
709-06	NON-REINFORCED CONCRETE SLOPE PAVEMENT	C.Y. 7
710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F. 4728
710-05	LATERAL UNDERDRAIN	L.F. 120
710-06-13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH 12
712-01	TRAFFIC CONTROL	LS 1
712-04-01	FLEXIBLE DRUMS (CHANNELIZING)	EACH 313
712-06	SIGNS(CONSTRUCTION)	S.F. 372
713-01-01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y. 1
713-01-02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	LB. 101
713-11-01	"U" SECTION STEEL POSTS	LB. 292
713-11-02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB. 1106
713-13-02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F. 221
713-13-03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F. 76
713-06	STEEL BEAMS & WF BEAMS(BREAKAWAY) SIGN SUPPORT	LB. 260
713-14	EXTRUDED ALUMINUM PANEL SIGNS	S.F. 55
713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS 1
716-03-04	PLASTIC PAVEMENT MARKING(CHANNELIZATION & TRIPING)	S.Y. 61
716-02-03	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F. 99
716-02-06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH 14
716-02-08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F. 435
716-04-05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH 3
716-05-02	PAINTED PAVEMENT MARKING 18" BARRIER LINE	L.F. 30385
716-05-05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F. 159
716-05-06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH 7
716-05-11	PAINTED PAVEMENT MARKING(STRAIGHT ARROW)	EACH 4
716-08-01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F. 3966
716-08-06	REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW)	EACH 2
716-08-11	REMOVAL OF WORD PAVEMENT MARKING(STOP AHEAD)	EACH 4
716-12-02	ENHANCED FLATLINE THERMO PAVMT MRKNG (6IN LINE)	L.M. 1.8
716-13-02	SPRAY THERMO PAVMT MRKNG (60 mil) (6IN LINE)	L.M. 0.9
716-01-21	Stowable Paint Mkrks (Bi-Dry)(1 Color)	EACH 219
716-01-22	Stowable Paint Mkrks (Mono-Dry)(1 Color)	EACH 57
717-01	MOBILIZATION	LS 1
740-10-03	GEOTEXTILE (TYPE III) EROSION CONTROL	S.Y. 882
740-11-02	TEMPORARY SEDIMENT TUBE 12IN	L.F. 2026
801-01-07	TEMPORARY SEEDING (WITH MULCH)	UNIT 30
801-03	WATER SEEDING & SODDING	M.G. 59
803-01	SODDING (NEW SOD)	S.Y. 5551
806-02-03	PROJECT MOVING	CYCL 2

SEE SHEET 2A FOR FOOTNOTES

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STATE OF TENNESSEE
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ESTIMATED
ROADWAY
QUANTITIES

GENERAL NOTES (CONT.)

EROSION PREVENTION AND SEDIMENT CONTROL

NATURAL RESOURCES

(3) INSTREAM EPSC DEVICES REQUIRE THE TDOE ENVIRONMENTAL DIVISION, WETLANDS SECTION, AND PERENNIAL INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.

(4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE(S), INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.

(5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.

(6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CURVED TO PREVENT THE IMPINGEMENT OF WATER FLOW ON CLEAN ROCK OR ROCK OF VARIOUS SIZES. OTHER WASTES OR CONTAMINANTS, OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PRE-EXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLAN. ALTERNATIVELY, FLAGGING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR THE APPROPRIATE USE OF CHAINS AT THE CROSSING) TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

(7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION. MATS AND OTHER MEASURES USED FOR HEAVY EQUIPMENT SHALL BE REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED. ALL AFFECTED AREAS SHOULD BE RETURNED TO PRE-EXISTING CONDITIONS.

(8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.

(9) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR IS NOT SURE OF THE LOCATION OR THE EXISTENCE OF AN ENVIRONMENTAL FEATURE, THE CONTRACTOR SHALL CONTACT THE TDOE REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

SPECIES

(10) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA.

(11) SHOULD CLIFF SWALLOW OR BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) BE PRESENT THE CONTRACTOR SHALL CONTACT THE TDOE REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY. RESTRICTIONS WILL BE NECESSARY. GENERALLY, BIRDS, NESTS, AND EGGS MAY NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED SO LONG AS BIRDS OR EGGS ARE NOT PRESENT, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (I.E., CLOSING OFF AREA USING NETTING).

(12) IF THE REMOVAL OF ANY TREES WITH A DIAMETER AT BREAST HEIGHT (DBH) GREATER THAN 3 INCHES IS DEEMED NECESSARY, THE TDOE SUPERVISOR SHALL CONTACT THE TDOE ENVIRONMENTAL DIVISION, ECOLOGY SECTION IMMEDIATELY.

INSPECTION, MAINTENANCE & REPAIR

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

PERMITS, PLANS & RECORDS

(14) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, HIS ORIGINAL, HAZARDOUS WASTE, AND TDEC PERMITS. FROM FEDERAL, STATE, AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOE PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREAS.

(15) ANY DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMITS (ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOE PROJECT RESPONSIBLE PARTY, THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLAN REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(16) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE TDOE PERMIT SECTION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE ROADWAY DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(17) THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATE. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOE PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

(18) ALL WATER QUALITY PERMITS SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. THE NAME, COMPANY NAME, EMAIL ADDRESS, TELEPHONE NUMBER AND ADDRESS OF THE PROJECT SITE OWNER, OPERATOR, OR A LOCAL AGENCY OR POSTING OFFICE SHALL BE POSTED ON A PUBLICLY ACCESSIBLE LOCATION NEAR THE PROJECT SITE. THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE LOCATION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY. THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE. ALL POSTINGS SHALL BE MAINTAINED IN LEGIBLE CONDITION.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

(19) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE(S). THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF-SITE BY WIND, OR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.

(20) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE(S). ALL EQUIPMENT SHALL BE MAINTAINED AND OPERATED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAMINATION MEASURES FOR THESE AREAS SHALL BE USED.

(21) CONTRACTORS SHALL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SEPARATELY NOT CONNECTED TO ANY STORMWATER OUTLET OF THE SITE AND PROPERLY SIGNED WASH DOWN OR WASTE DISCHARGE OF CONCRETE TRUCKS SHALL NOT BE PERMITTED UNLESS PROPER SETTLEMENT AREAS HAVE BEEN PROVIDED IN ACCORDANCE WITH BOTH STATE AND FEDERAL REGULATIONS.

(22) 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.

(23) 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.

(24) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ON-SITE 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.

(25) WHEN POSSIBLE, ALL PRODUCTS SHALL BE USED COMPLETELY BEFORE PROPERLY DISPOSING OF THE CONTAINER OFF-SITE. THE MANUFACTURER'S DIRECTIONS FOR DISPOSAL OF MATERIALS AND CONTAINERS SHALL BE FOLLOWED.

(26) 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.

(27) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH COMPLES WITH ALL STATE AND FEDERAL REGULATIONS. 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.

(28) 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.

(29) DISPOSAL OF ON-SITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERRED TO OPEN BURNING. THIS MULCH MAY BE USED AS AN ON-SITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.

(30) WASTE MATERIAL (EARTH ROCK, ASPHALT CONCRETE, ETC.) NOT REQUIRED FOR THE CONSTRUCTION OF THE PROJECT WILL BE DISPOSED BY A LICENSED CONTRACTOR AT THE TDOE STAGING AREA. THIS SHALL BE DONE AS SOON AS POSSIBLE IF UNDESIRABLE TO THE CONTRACTOR. OBTAIN ANY AND ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMITS(S), CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 206 PERMITS TO DISPOSE OF WASTE MATERIALS.

SUPPORT ACTIVITIES

(31) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE(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 TDOE PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

GENERAL
NOTES

SPECIAL NOTES

PAVEMENT

RESURFACING

- (1) TRAFFIC WILL BE ALLOWED TO TEMPORARILY DRIVE ON THE MILLED SURFACE OF THE ROADWAY UNDER THE FOLLOWING CONDITIONS ONLY:
 - a. THE MILLED SURFACE IS FINE TEXTURED. THE FINE TEXTURE SHALL BE OBTAINED BY A MILLING MACHINE UTILIZING A MILLING HEAD WITH TEETH SPACING 3/8" OR LESS OPERATING AT LESS THAN 80 FEET PER MINUTE.
 - b. THE SURFACE SHALL BE SWEEPED AND CLEANED OF ALL LOOSE MATERIALS.
 - c. THE DIFFERENCE IN ELEVATION BETWEEN THE MILLED SURFACE AND THE ADJACENT LANE SHALL NOT EXCEED 1 1/2 INCHES.
 - d. THE MILLED SURFACE SHALL BE PAVED WITHIN 72 HOURS IF THE CURRENT ADIT IS $\geq 70,000$ OR WITHIN 96 HOURS IF THE CURRENT ADIT IS $< 70,000$.
 - e. RAIN OR INCLEMENT WEATHER IS NOT EXPECTED OR FORECASTED WITHIN 48 HOURS AFTER MILLING.
 - f. ALL APPLICABLE SIGNING IS INSTALLED IN ACCORDANCE WITH THE MUTCD SIGNING MANUAL AND ADVANCE WARNING SIGNS (1N-6A) PLACED IN ADVANCE OF ANY MILLED AREAS.
 - g. IF MILLED SURFACE BEGINS TO DETERIORATE, PAVING TO COVER UP DETERIORATING MILLED SURFACES SHOULD OCCUR AS DIRECTED BY THE ENGINEER DURING THE NEXT WORKING DAY. IF SEVERE DISTRESS OCCURS, IMMEDIATE RESPONSE WILL BE REQUIRED.
 - h. ONLY ONE LANE IN EACH DIRECTION SHALL HAVE A MILLED SURFACE AT ONE TIME.

SIGNALIZATION

- (1) THE DESIGN OF TRAFFIC SIGNAL SUPPORT POLES, MAST ARMS, STRAIN POLES, ETC. SHALL BE IN CONFORMANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS CURRENT EDITION. OVERHEAD CANTILEVERED TRAFFIC SIGNAL STRUCTURES SHALL BE DESIGNED FOR FATIGUE CATEGORY 1.

ENVIRONMENTAL

- (1) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE FIELD SERVICES OFFICE SHALL BE INVITED TO ALL PRE-CONSTRUCTION MEETINGS.

ECOLOGY

- (2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ON SITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE U.S. OR SPECIES.
- (3) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROMIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY FOR ENVIRONMENTAL PERSONNEL TO ADVISE THE CONTRACTOR OF PRESENCE AND SENSITIVITY OF WATERS OF THE STATE AND OTHER NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	R-SP18PBP-1172	2D

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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

SPECIAL
NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	R-PHSIP/HSIP-11(72)	7
CONST.	2017	R-PHSIP/HSIP-11(72)	7

END PROJ. NO. R-PHSIP/HSIP-11(72) CONST.

STA. 319+75.00
N=554999.4793
E=1773452.5841

END PROJ. NO. R-PHSIP/HSIP-11(72) R.O.W.

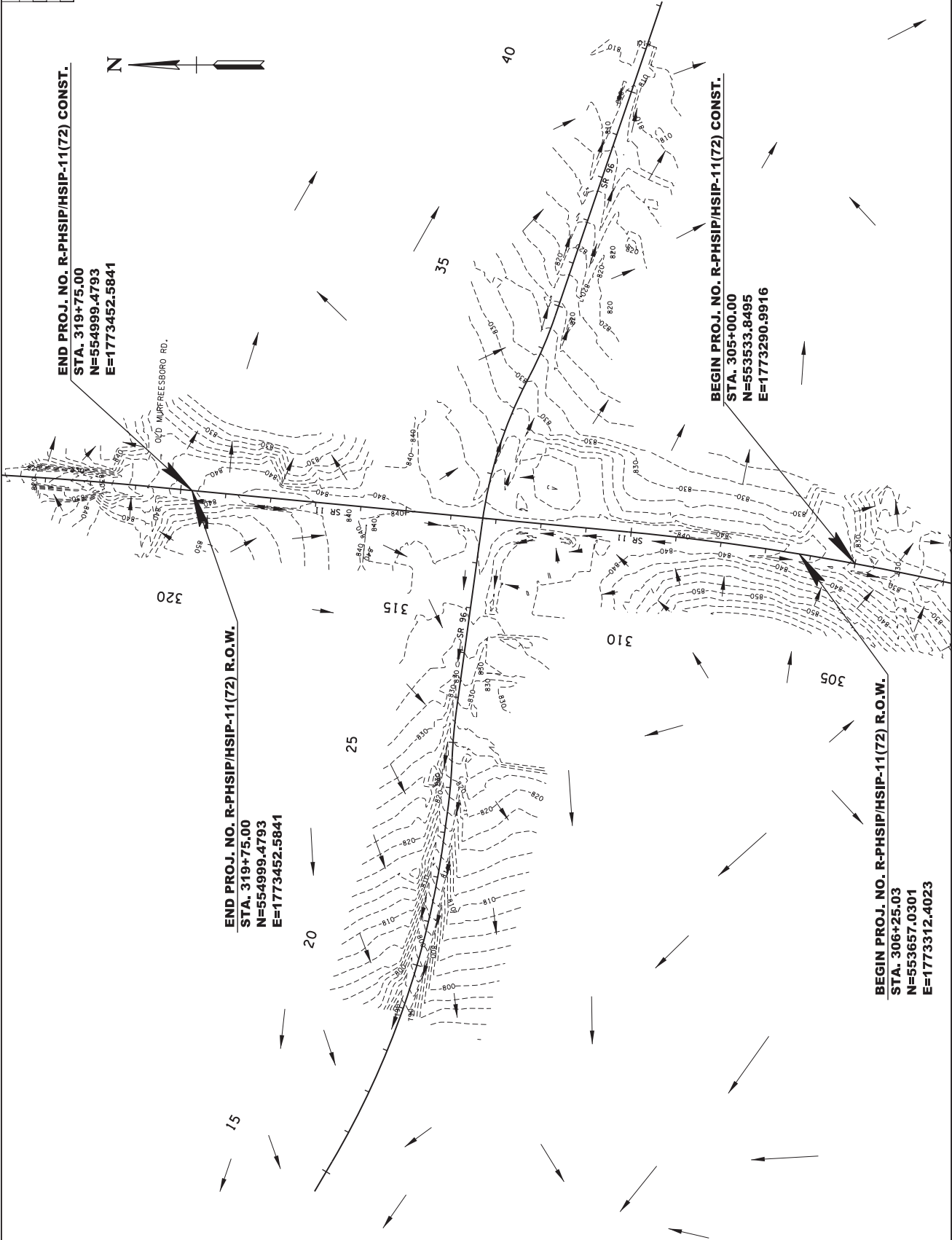
STA. 319+75.00
N=554999.4793
E=1773452.5841

BEGIN PROJ. NO. R-PHSIP/HSIP-11(72) CONST.

STA. 305+00.00
N=553533.8495
E=1773290.9916

BEGIN PROJ. NO. R-PHSIP/HSIP-11(72) R.O.W.

STA. 306+25.03
N=553657.0301
E=1773312.4023



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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

DRAINAGE
MAPS

SCALE: 1"=50'

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.

STAGE 1 - CLEARING & GRUBBING			STAGE 2 - CONSTRUCTION STAGING			STAGE 3 - FINAL STABILIZATION		
OUTFALL	AREA	SLOPE	OUTFALL	AREA	SLOPE	OUTFALL	AREA	SLOPE
OUT-1	1.81 AC	8.30%	OUT-1	2.18 AC	8.30%	OUT-1	2.18 AC	8.30%
OUT-2	0.08 AC	6.08%	OUT-2	0.81 AC	2.63%	OUT-2	0.81 AC	2.63%
OUT-3	2.08 AC	2.83%	OUT-3	2.39 AC	2.83%	OUT-3	2.39 AC	2.83%
OUT-4	0.78 AC	2.25%						
OUT-5	1.36 AC	3.52%	OUT-5	1.85 AC	3.52%	OUT-5	1.85 AC	3.52%
OUT-6	2.06 AC	3.80%	OUT-6	3.05 AC	3.80%	OUT-6	3.05 AC	3.80%
			OUT-7	0.11 AC	0.76%	OUT-7	0.11 AC	0.76%

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES						
ITEM NO.	DESCRIPTION	CLEARING & GRUBBING	CONSTRUCTION	FINAL STABILIZATION	TOTAL	UNIT
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	7	7		14	C.Y.
209-05	SEDIMENT REMOVAL	5	6	2	13	C.Y.
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	2725	2505		5230	L.F.
209-08.07	ROCK CHECK DAM PER		10		10	EACH
209-08.08	ENHANCED ROCK CHECK DAM	7	6		13	EACH
209-09.02	TEMPORARY SEDIMENT FILTER BAG (146"X20"X133")				1	BAG
209-09.41	CURB INLET PROTECTION (TYPE 2)		21		21	EACH
209-40.30	CATCH BASIN PROTECTION (TYPE A)	3	1		4	EACH
303-10.01	MINERAL AGGREGATE (SIZE 57)	9	5		14	TON
709-05.05	MACHINED RIP-RAP (CLASS A-3)	100	100		200	TON
709-05.06	MACHINED RIP-RAP (CLASS A-1)	182	46		228	TON
740-10.03	GEOTEXTILE (TYPE III EROSION CONTROL)	602	280		882	S.Y.
740-11.02	TEMPORARY SEDIMENT TUBE 12IN	1040	900		2020	L.F.
801-01.07	TEMPORARY SEEDING (WITH MULCH)	15	15		30	UNIT
801-03	WATER (SEEDING AND SODDING)	1.5	1.5	54	57	M.G.
803-01	SODDING (NEW SOD)			532	532	S.Y.

NOTE: ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
ALL TEMPORARY CONSTRUCTION EXT LOCATIONS TO BE DETERMINED BY THE ENGINEER

SYMBOL	ITEM	STD. DWG.
	SEDIMENT FILTER BAG TO BE USED WHERE AS DIRECTED BY THE ENGINEER	EC-SFR-2
	SILT FENCE	EC-SFR-3B
	ROCK CHECK DAM (V-DITCH)	EC-SFR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-SFR-6A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-SFR-6A
	CULVERT PROTECTION (TYPE 1)	EC-SFR-11
	CATCH BASIN PROTECTION (TYPE A)	EC-SFR-19
	TEMPORARY CONSTRUCTION EXIT	EC-SFR-25
	SEDIMENT TUBE	EC-SFR-37
	CURB INLET PROTECTION (TYPE 2)	EC-SFR-39

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DEPARTMENT OF
TRANSPORTATION

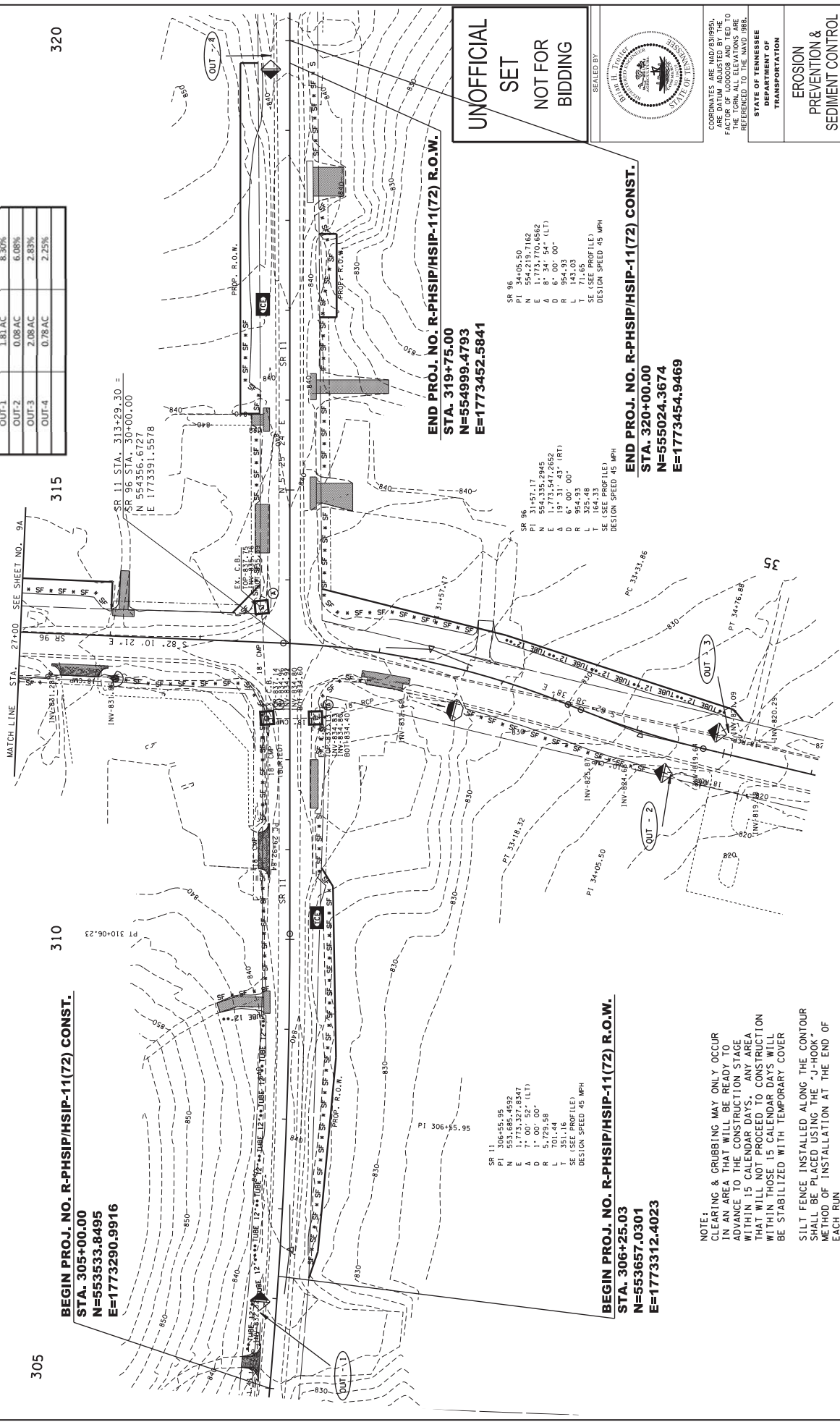
EROSION
PREVENTION &
SEDIMENT CONTROL
(EPSC) NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	R-PS(SPHSR)-11(72)	8
CONST.	2017	R-PS(SPHSR)-11(72)	8

YEAR	PROJECT NO.	SHEET NO.
2016	R-PHSIP/HSIP-11(72)	9
2017	R-PHSIP/HSIP-11(72)	9

STAGE 1 - CLEARING & GRUBBING		
OUTFALL	AREA	SLOPE
OUT-1	1.81 AC	8.30%
OUT-2	0.08 AC	6.08%
OUT-3	2.08 AC	2.83%
OUT-4	0.78 AC	2.25%

320



BEGIN PROJ. NO. R-PHSIP/HSIP-11(72) CONST.
STA. 305+00.00
N=553533.8495
E=1773290.9916

310

315

SR 11
 PI 306+55.95
 N 553,685.4592
 E 1,773,327.8347
 Δ 7° 00' 52" (LT)
 P 5,729.48
 L 701.44
 T 351.16
 SE (SEE PROFILE)
 DESIGN SPEED 45 MPH

BEGIN PROJ. NO. R-PHSIP/HSIP-11(72) R.O.W.
STA. 306+25.03
N=553657.0301
E=1773312.4023

SR 96
 PI 31+57.17
 N 554,335.2945
 E 1,773,547.2652
 Δ 6° 00' 00" (RT)
 P 954.93
 L 143.03
 SE (SEE PROFILE)
 DESIGN SPEED 45 MPH

END PROJ. NO. R-PHSIP/HSIP-11(72) R.O.W.
STA. 319+75.00
N=554999.4793
E=1773452.5841

END PROJ. NO. R-PHSIP/HSIP-11(72) CONST.
STA. 320+00.00
N=555024.3674
E=1773454.9469

UNOFFICIAL SET
NOT FOR BIDDING



COORDINATES ARE IN UTM 18Q UTM ZONE. COORDINATE SYSTEM IS UTM. FACTOR OF 0.000008 AND TIED TO THE TORN. ALL ELEVATIONS ARE REFERENCED TO THE MGD 1988.

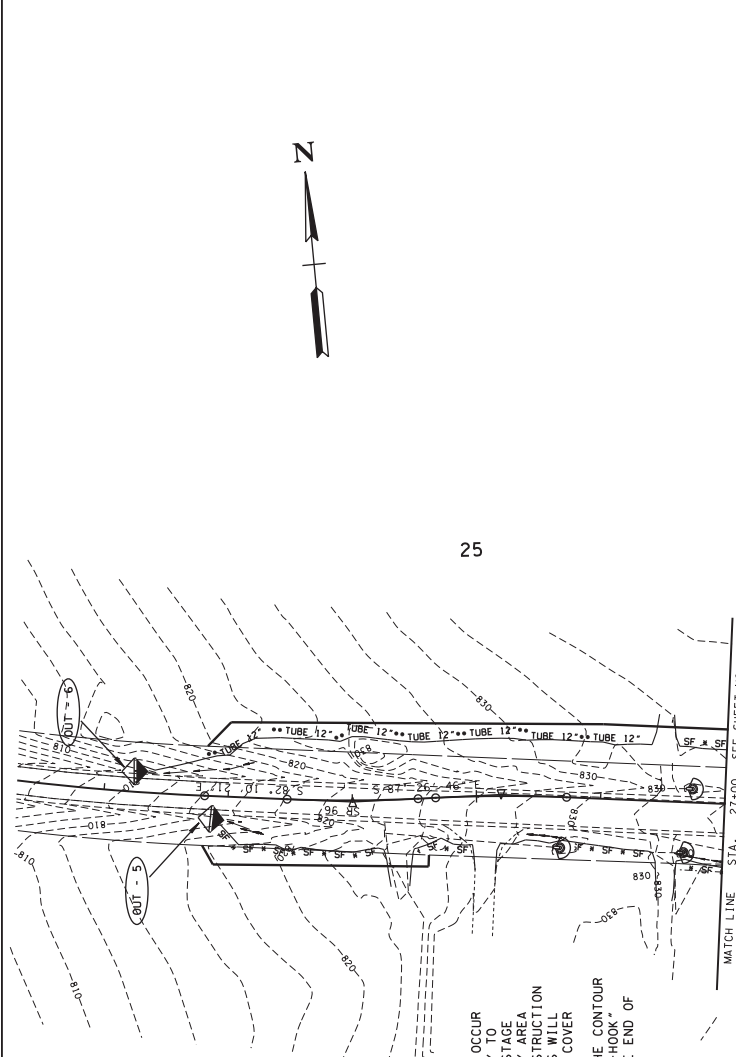
STATE OF TENNESSEE
 TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS
 SCALE: 1"=50'

NOTE:
 CLEARING & GRUBBING MAY ONLY OCCUR IN AN AREA THAT WILL BE READY TO ADVANCE TO THE CONSTRUCTION STAGE WITHIN 15 CALENDAR DAYS. ANY AREA THAT WILL NOT PROCEED TO CONSTRUCTION WITHIN THOSE 15 CALENDAR DAYS WILL BE STABILIZED WITH TEMPORARY COVER
 SILT FENCE INSTALLED ALONG THE CONTOUR SHALL BE PLACED USING THE "J-HOOK" METHOD OF INSTALLATION AT THE END OF EACH RUN

STAGE 1 - CLEARING & GRUBBING

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W. CONST.	2017	R-PHS(PHSR)-11(72)	9A
		R-PHS(PHSR)-11(72)	9A



STAGE I - CLEARING & GRUBBING		
OUTFALL	AREA	SLOPE
OUT-5	1.36 AC	3.52%
OUT-6	2.06 AC	3.80%

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BIDDING**



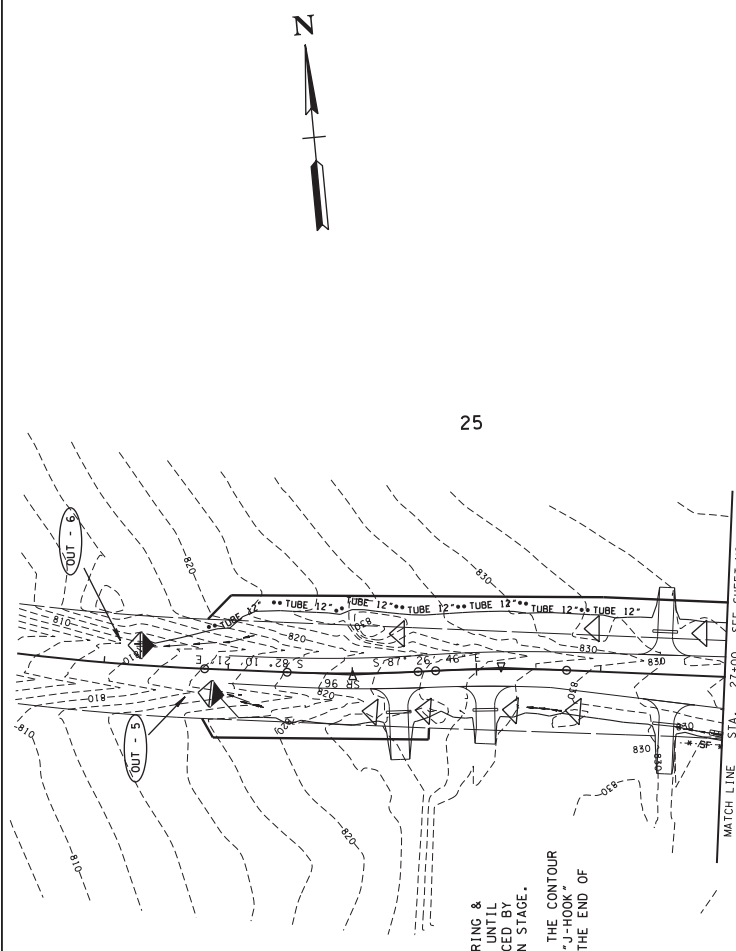
COORDINATES ARE NAD 83 UTM ZONE 18Q UTM GRID SYSTEM. ALL ELEVATIONS ARE REFERENCED TO THE MGD 5886.

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

EROSION
PREVENTION &
SEDIMENT CONTROL
(EPSC) PLANS
SCALE: 1"=50'

STAGE 1 - CLEARING & GRUBBING

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	R-PHS(PHSIP-1172)	10A
		R-PHS(PHSIP-1172)	10A



25

STAGE 2 - CONSTRUCTION STAGING		
OUTFALL	AREA	SLOPE
OUT-5	1.85 AC	3.52%
OUT-6	3.05 AC	3.80%

NOTE:
 MEASURES SHOWN IN THE CLEARING &
 GRUBBING STAGE WILL REMAIN UNTIL
 NEED FOR MEASURES IS REPLACED BY
 THE APPLICABLE CONSTRUCTION STAGE.
 SILT FENCE INSTALLED ALONG THE CONTOUR
 SHALL BE PLACED USING THE "J-HOOK"
 METHOD OF INSTALLATION AT THE END OF
 EACH RUN

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COORDINATES ARE NAD 83/992L
 COORDINATE SYSTEM
 FACTOR OF 0.000008 AND TIED TO
 THE TORN. ALL ELEVATIONS ARE
 REFERENCED TO THE MGD 5886.

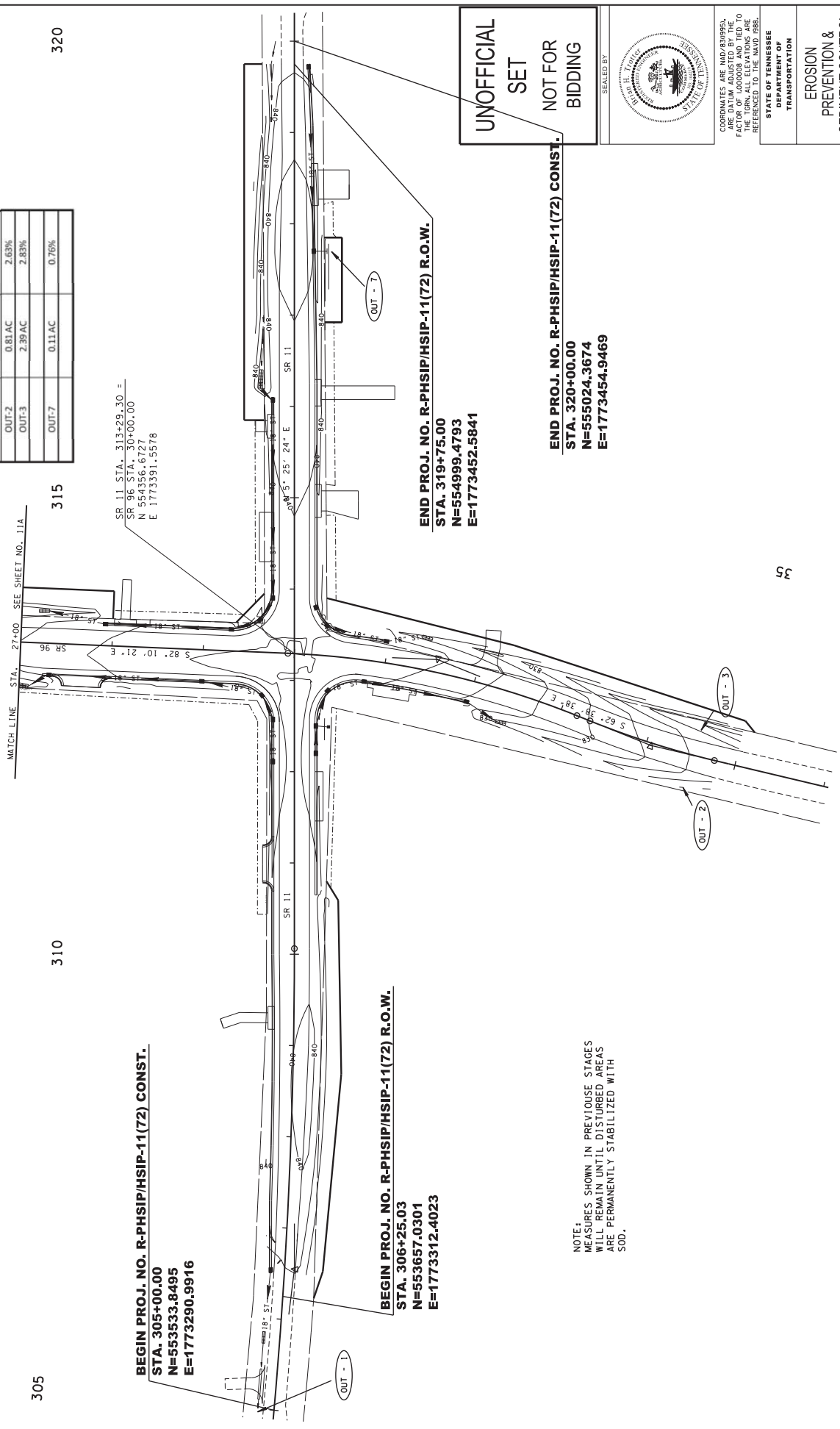
STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION

EROSION
 PREVENTION &
 SEDIMENT CONTROL
 (EPSC) PLANS
 SCALE: 1"=50'

STAGE 2 - CONSTRUCTION

YEAR	PROJECT NO.	SHEET NO.
2016	R-PHSIP/HSIP-11(72)	11
2017	R-PHSIP/HSIP-11(72)	11

STAGE 3 - FINAL STABILIZATION		
OUTFALL	AREA	SLOPE
OUT-1	2.18 AC	8.30%
OUT-2	0.81 AC	2.63%
OUT-3	2.39 AC	2.83%
OUT-7	0.11 AC	0.76%



BEGIN PROJ. NO. R-PHSIP/HSIP-11(72) CONST.
STA. 305+00.00
N=553533.8495
E=1773290.9916

BEGIN PROJ. NO. R-PHSIP/HSIP-11(72) R.O.W.
STA. 306+25.03
N=553657.0301
E=1773312.4023

END PROJ. NO. R-PHSIP/HSIP-11(72) R.O.W.
STA. 319+75.00
N=554999.4793
E=1773452.5841

END PROJ. NO. R-PHSIP/HSIP-11(72) CONST.
STA. 320+00.00
N=555024.3674
E=1773454.9469

NOTE:
 MEASURES SHOWN IN PREVIOUS STAGES
 WILL REMAIN UNTIL DISTURBED AREAS
 ARE PERMANENTLY STABILIZED WITH
 SOD.

**UNOFFICIAL
 SET
 NOT FOR
 BIDDING**



COORDINATES ARE NAD 83/9952.
 COORDINATES ARE LISTED
 WITH A SCALE FACTOR OF 1.000008 AND TIED TO
 THE TORN. ALL ELEVATIONS ARE
 REFERENCED TO THE MGD 5886.

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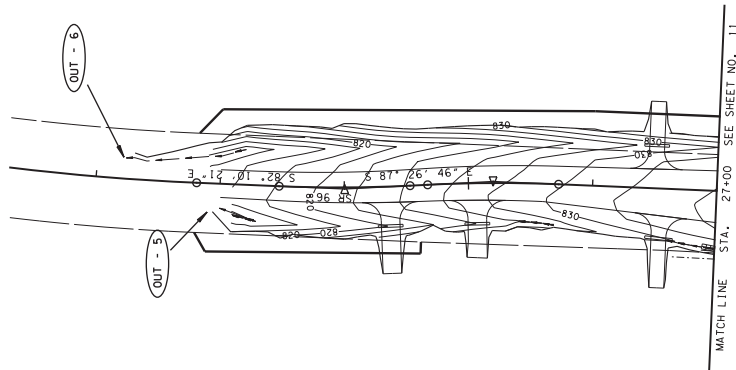
EROSION
 PREVENTION &
 SEDIMENT CONTROL
 (EPSC) PLANS
 SCALE: 1"=50'

STAGE 3 - FINAL STABILIZATION

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	R-FHSPHSIP-11(72)	11A
		R-FHSPHSIP-11(72)	11A

STAGE 3 - FINAL STABILIZATION		
OUTFALL	AREA	SLOPE
OUT-5	1.85 AC	3.52%
OUT-6	3.05 AC	3.80%

NOTE:
MEASURES SHOWN IN PREVIOUS STAGES
WILL REMAIN UNTIL DISTURBED AREAS
ARE PERMANENTLY STABILIZED WITH
SOD.



25

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SET
NOT FOR
BIDDING**



COORDINATES ARE NAD 83 UTM 18Q UTM ZONE 18Q. ALL ELEVATIONS ARE REFERENCED TO THE MGD 5886. THE TORN ALL ELEVATIONS ARE REFERENCED TO THE MGD 5886.

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

EROSION
PREVENTION &
SEDIMENT CONTROL
(EPSC) PLANS
SCALE: 1"=50'

STAGE 3 - FINAL STABILIZATION