

SWPPP INDEX OF SHEETS

DESCRIPTION	SHT.
1. SWPPP REQUIREMENTS (3.0)	1
2. SITE DESCRIPTION (3.5.1)	1
3. ORDER OF CONSTRUCTION ACTIVITIES (3.5.1.b, 3.5.2.a)	1
4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION	1
5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (3.5.3)	2
6. FLOCCULANTS (3.5.3.1.b)	3
7. UTILITY RELOCATION	3
8. MAINTENANCE AND INSPECTION	4
9. SITE ASSESSMENTS (3.1.2)	5
10. STORMWATER MANAGEMENT (3.5.4)	5
11. NON-STORMWATER DISCHARGES (3.5.9)	5
12. SPILL PREVENTION, MANAGEMENT AND NOTIFICATION (3.5.5.c, 5.1)	5
13. RECORD-KEEPING	6
14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (7.7.5)	7
15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (7.7.6)	7
16. ENVIRONMENTAL PERMITS (9.0)	7

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

- 1. SWPPP REQUIREMENTS (3.0)**
- 1.1. 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 (CPESC)
 A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
 HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE
- 1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR 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
- 1.3. DO THE PROJECT STORMWATER OUTFALLS DIRECTLY DISCHARGE INTO THE FOLLOWING (5.4.1)? 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 (CPESC)
 A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
 HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE
- 2. SITE DESCRIPTION (3.5.1)**
- 2.1. PROJECT LIMITS (3.5.1.h): REFER TO TITLE SHEET
- 2.2. PROJECT DESCRIPTION (3.5.1.a):
 TITLE: SR-247 (DUPLIX RD.) FROM SR-6 TO WEST OF I-65
 COUNTY: MAURY/WILLIAMSON
 PIN: 103169.00
- 2.3. SITE MAP(S) (2.6.2.): REFER TO TITLE SHEET
- 2.4. DESCRIPTION OF EXISTING SITE TOPOGRAPHY (3.5.1.d): REFER TO EXISTING CONTOURS SHEET(S) 42-42N, DRAINAGE MAP SHEET(S) 113-116, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 4.3.
- 2.5. 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): _____
- 2.6. TOTAL PROJECT AREA (3.5.1.c): 48.319 ACRES
- 2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 48.319 ACRES
- 2.8. NO MORE THAN 50 ACRES OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION OF THE PROJECT.
- 2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? YES NO
 IF YES, LIST THE CORRESPONDING PLAN SHEET: 1D
- 2.10. 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 (4.1.2.2)
- 2.11. SOIL PROPERTIES (3.5.1.f) (4.1.1).
 SOIL PROPERTIES FOR THE PRIMARY SOILS ARE LISTED IN THE TABLE BELOW.

SOIL PROPERTIES				
PRIMARY SOIL NAME	MAP UNIT SYMBOL	HSG	% OF SITE	ERODIBILIT Y (k value)
Hampshire Silt Loam/Silty Clay Loam	Ic, HbB2, HbC2, HcC3, HeC2	C	15%	0.37
Hagerstown Silt Loam	HaB2, HaC2	C	13%	0.37
Maury Silt Loam	Mb, MbB2, MbC2, McC3	A	12%	0.32
Huntington Silt Loam	Hr, Ht, Hu	B	11%	0.37
Talbott Silty Clay/Silty Clay Loam	TfC3, TsB2, TsC2, TvD	C	8%	0.32
Braxton Cherty Silty Clay	Bf, Bg, BsD3	C	8%	0.17
Hermitage Silt Loam	HmB, HmB2	B	6%	0.37
Armour Silt Loam	Ae, ArB, ArB2, ArC2	B	6%	0.37
Egam Silt Loam	Eg	C	5%	0.32
Dunning	Dg	C/D	5%	0.28
Lindell Silt Loam	Lc, Lp	B/D	5%	0.32
Donerail Silt Loam	Df	C	3%	0.37
Captina Silt Loam	CaB2, CaC2	D	2%	0.43

- 2.12. IS ACID PRODUCING ROCK (APR) (I.E. PYRITE) LOCATED WITHIN THE PROJECT LIMITS? YES NO
- 2.12.1. IF YES TO SECTION 2.13, HAVE APR LOCATIONS BEEN IDENTIFIED WITHIN THE CONSTRUCTION PLANS AND/OR THE GEOTECHNICAL REPORT? 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 (TDOT SP107L WILL BE APPLIED.)
- 2.13. PROJECT RUNOFF COEFFICIENTS AND AREA PERCENTAGES (3.5.1.g).

RUNOFF COEFFICIENTS FOR EXISTING CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	12.25	52%	98	
PERVIOUS	11.47	48%	73	
WEIGHTED CURVE NUMBER OR C-FACTOR =			86	

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	28.07	72%	98	
PERVIOUS	10.95	28%	74	
WEIGHTED CURVE NUMBER OR C-FACTOR =			91	

- 3. 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 ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE ORDER OF CONSTRUCTION ACTIVITIES AND THE BASIC EPSC DEVICES DEPICTED ON THE EPSC PLAN CONTAINED WITHIN THE APPROVED SWPPP.
- 3.1. 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 GRADING 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.
- 4. STREAM, OUTFALL, WETLAND, TMDL AND ECOLOGY INFORMATION**
- 4.1. STREAM INFORMATION (3.5.1.j, 3.5.1.k)
- 4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE 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 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY):
 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION
 303d WITH UNAVAILABLE PARAMETERS FOR HABITAT ALTERATION
 EXCEPTIONAL TENNESSEE WATERS (ETW)

4.1.3. RECEIVING WATERS OF THE STATE (3.5.1.k).

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-1	McCutcheon Creek	YES	NO	YES	YES
STR-2	UNT to McCutcheon	NO	NO	YES	YES
STR-3	UNT to McCutcheon	NO	NO	YES	YES
STR-4	UNT to Grassy Branch	NO	NO	YES	YES
STR-5	Grassy Branch	YES	NO	YES	YES
STR-6	Aenon Creek	YES	NO	YES	YES

4.1.4. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (4.1.2, 5.4.2)
 YES NO

BUFFER ZONE REQUIREMENTS ARE NOT REQUIRED FOR PRE-APPROVED SITES (4.1.2.2.)

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.
 IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.

60-FEET FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 30-FEET).

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

30-FEET FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15-FEET).

A 30 FOOT NATURAL WATER QUALITY RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STATE STREAM SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE DURING CONSTRUCTION ACTIVITIES AT THE SITE. THE 30 FOOT CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 15 FEET AT ANY MEASURED LOCATION. IF THE CONSTRUCTION SITE ENCOMPASSES BOTH SIDES OF A STREAM, BUFFER AVERAGING CAN BE APPLIED TO BOTH SIDES, BUT MUST BE APPLIED INDEPENDENTLY.

4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (9.0)
 YES NO

4.1.6. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) YES NO
 IF YES, EXISTING CONDITIONS DESCRIPTION: _____

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

4.1.8. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN

BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.

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

4.2. RECEIVING WATERS OF THE UNITED STATES (WOTUS) (EPHEMERAL)
 WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WOTUS (EPHEMERAL)? YES NO

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

4.2.1. ARE WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WOTUS (4.1.2)? YES NO

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

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____

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

4.3. OUTFALL INFORMATION

4.3.1. OUTFALL TABLE (3.5.1.e). SEE SWPPP SHEET S-g - S-21 FOR OUTFALL INFORMATION.

4.3.2. HAVE ALL OUTFALLS BEEN LABELED ON THE EPSC PLAN SHEETS (3.5.1.h)? YES NO

4.3.3. HAVE ALL OUTFALLS BEEN LABELED ON A USGS TOPOGRAPHIC MAP INCLUDED IN THE "DOCUMENTATION AND PERMITS" BINDER (2.6.2)? YES NO

4.3.4. WHERE POSSIBLE, HAS NON-PROJECT RUN-ON BEEN DIVERTED AROUND OR THROUGH THE PROJECT TO ELIMINATE CONTACT WITH DISTURBED AREAS OF THE PROJECT AND SEPARATE IT FROM PROJECT RUN-OFF THEREBY REDUCING THE DRAINAGE AREA OF TO THE OUTFALLS IN THIS AREA?
 YES NO N/A

4.3.5. ARE EQUIVALENT MEASURES BEING SUBSTITUTED FOR A SEDIMENT BASIN(S)? YES NO N/A

4.3.6. A SEDIMENT BASIN OR EQUIVALENT MEASURE(S) WILL BE PROVIDED FOR ANY OUTFALL IN A DRAINAGE AREA:

OF TEN ACRES OR MORE FOR AN OUTFALL(S) THAT DOES NOT DISCHARGE TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS. A TEMPORARY (OR PERMANENT) SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A MINIMUM 2-YEAR/ 24-HOUR STORM EVENT, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (3.5.3.3)

OR

OF FIVE ACRES OR MORE FOR AN OUTFALL(S) THAT DISCHARGES TO A STATE STREAM WITH UNAVAILABLE PARAMETERS OR EXCEPTIONAL TENNESSEE WATERS. A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. (5.4.1.g).

IN BOTH INSTANCES, THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS MAY BE CONTACTED TO REVIEW AND CONCUR WITH ANY REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS.

4.4. WETLAND INFORMATION
 WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS 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.

WETLAND INFORMATION				
TDOT WETLAND LABEL	FROM STATION LT OR RT	TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)
WTL-1	30±00 R	30±70 R	N/A	0.05
WTL-2	30±00 L	31±00 L	N/A	0.06
WTL-3	27±50 L	29±30 L	N/A	0.03
WTL-4A	109+80 L	111±70 L	N/A	0.04
WTL-4B	112±30 L	113±75 L	N/A	0.05

4.5. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (3.5.10)

4.5.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?
 YES NO

4.5.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?
 YES NO

4.5.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION OR HABITAT ALTERATION?
 YES NO

4.5.4. 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) 1D.

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) 1D.

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 5-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 THAN LESS THAN 5 ACRES (MINIMUM OF TWO STAGES OF EPSC PLANS)
 - 5.9.2. PROJECT DISTURBED AREA IS GREATER THAN 5 ACRES (MINIMUM OF THREE STAGES OF EPSC PLANS)
- 5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN 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 (3.5.1.j). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET 5-7. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.
- 5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET 41 HAVE BEEN SELECTED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES (3.5.3.1.b).
- 5.13. EPSC MEASURES SHALL BE INSTALLED PER TDOT STANDARDS (i.e. STANDARD DRAWINGS) AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.
- 5.14. EPSC MEASURES WILL NOT BE INSTALLED WITHIN A STREAM WITHOUT FIRST OBTAINING APPROVAL FROM THE PERMITS SECTION.
- 5.15. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REINSTALLED AT THE END OF THE WORKDAY OR BEFORE A PRECIPITATION EVENT.
- 5.16. EPSC MEASURES LOCATED IN WOTUS (EPHEMERAL STREAMS) MUST BE CONSIDERED TEMPORARY AND SHALL BE REMOVED AT THE END OF CONSTRUCTION.
- 5.17. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT OFF THE PROJECT LIMITS (E.G. R.O.W., EASEMENTS, ETC.), INTO WATERS OF THE STATE/U.S., OR ONTO ROADWAYS USED BY THE PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED TO A LEVEL SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT. SEDIMENT THAT MIGRATES INTO WATERS OF THE STATE/US SHALL NOT BE REMOVED WITHOUT GUIDANCE FROM TDOT ENVIRONMENTAL PERSONNEL.
- 5.18. OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION EXIT (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES.
- 5.19. THE QUANTITIES REQUIRED FOR STABILIZED CONSTRUCTION EXITS PER TDOT STANDARDS HAVE BEEN SPECIFIED ON SHEET 41 (3.5.3.1.n).

- 5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.4).
- 5.21. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.
- 5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (4.1.7).
- 5.23. THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.
- 5.24. WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.
- 5.25. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.
- 5.26. STABILIZATION PRACTICES: PRE-CONSTRUCTION VEGETATIVE COVER WILL NOT BE DESTROYED, REMOVED OR DISTURBED MORE THAN 14 DAYS PRIOR TO GRADING OR EARTH MOVING UNLESS THE AREA WILL BE SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED (3.5.3.1.h).
- 5.27. STABILIZATION MEASURES WILL BE INITIATED AS SOON AS POSSIBLE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY OR PERMANENT STABILIZATION WILL BE COMPLETED WITHIN 14 DAYS AFTER ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED IN THAT AREA. PERMANENT STABILIZATION WILL REPLACE TEMPORARY MEASURES AS SOON AS PRACTICABLE (3.5.3.2).
- 5.28. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE
- 5.29. DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.
- 5.30. A SOIL ANALYSIS SHALL BE PERFORMED PRIOR TO THE APPLICATION OF FERTILIZERS TO ANY PORTION OF THE STE. SOILS SHOULD BE ANALYZED FOR pH, BUFFER VALUE, PHOSPHOROUS, POTASSIUM, CALCIUM AND MAGNESIUM. SOIL SAMPLES SHOULD BE REPRESENTATIVE OF THE AREA FOR WHICH FERTILIZER WILL BE APPLIED. SAMPLE TYPE SHOULD BE COLLECTED AND ANALYZED IN ACCORDANCE WITH THE UT EXTENSION "SOIL TESTING" BROCHURE PB1061. (4.1.5.)
- 5.31. FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED FROM THE ANALYSES. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- 5.32. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (3.5.3.2).

6. FLOCCULANTS (3.5.3.1.b)

IS ADDITIONAL PHYSICAL OR CHEMICAL TREATMENT OF STORMWATER RUNOFF NECESSARY (5.4.1.a)? YES NO

IF YES, THE FOLLOWING NOTES APPLY:

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

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? YES 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. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.
 - 7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.
 - 7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.
 - 7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.
 - 7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.
 - 7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.
 - 7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
 - 7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.
 - 7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.
 - 7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:
 - 7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.
 - 7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.
 - 7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.
- 8. MAINTENANCE AND INSPECTION**
- 8.1. INSPECTION PRACTICES (3.5.8)
 - 8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE, AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (3.5.8.1.):
 - 8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.
 - 8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC "LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.
 - 8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.
 - 8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).
 - 8.1.1.5. SUCCESSFULLY COMPLETED TDEC "LEVEL II - DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.
 - 8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
 - 8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 "INSPECTOR") (3.5.1.o).
 - 8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.
 - 8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
 - 8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (3.5.8.2.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.
 - 8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (3.5.8.2.a).
 - 8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (3.5.8.2.b).
 - 8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 "INSPECTOR").
 - 8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 7 DAYS OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.e AND 3.5.8.2.f).
 - 8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.
 - 8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET FINAL STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.
 - 8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (3.5.8.2.h).
 - 8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)

THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.
 - 8.3. MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)
 - 8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (3.5.3.1.b)
 - 8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (3.5.8.2.e).
 - 8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (3.5.3.1.e).
 - 8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.
 - 8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (1/2) THE HEIGHT OF THE DAM.
 - 8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.
 - 8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (3.5.3.1.f).

8.3.9. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.

9. SITE ASSESSMENTS (3.1.2)

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

10. STORMWATER MANAGEMENT (3.5.4)

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

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

10.3. OTHER ITEMS NEEDING CONTROL (3.5.5)
CONSTRUCTION MATERIALS: THE FOLLOWING MATERIALS OR SUBSTANCES ARE EXPECTED TO BE PRESENT ON THE SITE DURING THE CONSTRUCTION PERIOD. (CHECK ALL THAT APPLY).

- LUMBER, GUARDRAIL, TRAFFIC CONTROL DEVICES
- CONCRETE WASHOUT
- PIPE CULVERTS (I.E. CONCRETE, CORRUGATED METAL, HDPE, ETC.)
- MINERAL AGGREGATES, ASPHALT
- EARTH
- LIQUID TRAFFIC STRIPING MATERIALS, PAINT
- ROCK
- CURING COMPOUND
- EXPLOSIVES
- OTHER _____

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

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 OF BY THE CONTRACTOR IN ACCORDANCE WITH THE TDOT CONSTRUCTION CONTRACT AND FEDERAL AND STATE REGULATIONS. IMPACTS TO WATERS OF THE STATE/U.S. SHALL BE AVOIDED IF POSSIBLE. IF UNAVOIDABLE, THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS INCLUDING, BUT NOT LIMITED TO NPDES, AQUATIC RESOURCES ALTERATION PERMIT(S) CORPS OF ENGINEERS SECTION 404 PERMITS, AND TVA SECTION 26A PERMITS TO DISPOSE OF WASTE MATERIALS.

10.5. 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 PRACTICES 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 MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL REGULATIONS. 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.n)
- 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 EPSC MEASURES RECEIVING FLOW FROM ALLOWABLE NON-STORMWATER DISCHARGES MUST BE DESIGNED TO HANDLE THE VOLUME OF THE NON-STORMWATER COMPONENT.

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

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

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

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

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

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

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

ESSENTIAL TO THE CONSTRUCTION PROJECT WILL BE PRESERVED AND MAINTAINED AS NOTED ON THE PLANS.

12.2.2. HAZARDOUS MATERIALS

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

12.3. PRODUCT SPECIFIC PRACTICES

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

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

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

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

12.4. SPILL MANAGEMENT

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

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

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

12.4.3. ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

12.4.4. THE CONTRACTOR'S RESPONSIBLE PARTY WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.

12.4.5. IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS, PERSONNEL WILL RESPOND IMMEDIATELY TO CONTAIN THE RELEASE AND NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.

12.4.6. IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION WILL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR WILL USE APPROPRIATE MATERIALS TO CONTAIN AND ABSORB THE SPILL. THE SOURCE OF THE OIL SHEEN WILL ALSO BE IDENTIFIED AND REMOVED OR REPAIRED AS NECESSARY TO PREVENT FURTHER RELEASES.

12.4.7. IF A SPILL OCCURS THE CONTRACTOR'S SITE SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT CONSTRUCTION ENGINEER AND/OR PROJECT ENGINEER. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING 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. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.

12.5.2. THE TDOT REGIONAL PROJECT DEVELOPMENT OFFICE WILL NOTIFY THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE AND ANY OTHER APPLICABLE REGULATORY AGENCIES WITHIN 24 HOURS OF THE SPILL.

12.5.3. IN ADDITION TO ANY FOLLOW UP NOTIFICATIONS REQUIRED BY FEDERAL LAW, A WRITTEN DESCRIPTION OF THE RELEASE, DATE OF RELEASE AND CIRCUMSTANCES LEADING TO THE RELEASE, WHAT ACTIONS WERE TAKEN TO MITIGATE EFFECTS OF THE RELEASE, AND STEPS TAKEN TO MINIMIZE THE CHANCE OF FUTURE OCCURRENCES WILL BE SUBMITTED TO THE APPROPRIATE TDEC ENVIRONMENTAL FIELD OFFICE WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE.

12.5.4. THE SWPPP MUST BE MODIFIED WITHIN 14 DAYS OF KNOWLEDGE OF THE RELEASE PROVIDING A DESCRIPTION OF THE RELEASE, CIRCUMSTANCES LEADING TO THE RELEASE, AND THE DATE OF RELEASE. THE SWPPP WILL BE REVIEWED AND MODIFIED AS NECESSARY TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES AND TO RESPOND TO SUCH RELEASES.

13. RECORD-KEEPING

13.1. REQUIRED RECORDS
 TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MAINTAIN AT THE SITE THE FOLLOWING RECORDS OF CONSTRUCTION ACTIVITIES (3.5.3.1.m) (4.1.5.) (6.2.1):

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

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

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

13.1.6. COPY OF SITE EPSC INSPECTOR'S CERTIFICATION AND/OR LICENSING

13.1.7. COPY OF REQUIRED SOIL ANALYSIS

13.1.8. A COPY OF ANY REGULATORY CORRESPONDENCE REGARDING THE EFFECTIVENESS OF THE SWPPP OR EPSC CONTROLS.

13.2. RAINFALL MONITORING PLAN (3.5.3.1.o):

13.2.1. EQUIPMENT
 AT A MINIMUM, THE CONTRACTOR WILL INSTALL A FENCE POST TYPE RAIN GAUGE TO MEASURE RAINFALL. THE STANDARD FENCE POST RAIN GAUGE WILL BE A WEDGE-SHAPED GAUGE THAT MEASURES UP TO 6 INCHES OF RAINFALL. AN ENGLISH SCALE WILL BE PROVIDED ON ONE FACE, WITH A METRIC SCALE ON THE OTHER FACE. GRADUATION WILL BE PERMANENTLY MOLDED IN DURABLE WEATHER-RESISTANT PLASTIC. THE MINIMUM GRADUATION WILL BE 0.01 INCH (OR 0.1MM). AN ALUMINUM BRACKET WITH SCREWS MAY BE USED TO MOUNT THE GAUGE ON A WOODEN SUPPORT.

13.2.2. LOCATION
 THE RAIN GAUGE WILL BE LOCATED AT OR ALONG THE PROJECT SITE, AS DEFINED IN THE NOI OF THE NPDES PERMIT, IN AN OPEN AREA SUCH THAT THE MEASUREMENT WILL NOT BE INFLUENCED BY OUTSIDE FACTORS (I.E. OVERHANGS, GUTTER, TREES, ETC.). AT LEAST ONE RAIN GAUGE PER LINEAR MILE IS REQUIRED ALONG (AS MEASURED ALONG THE CENTERLINE OF THE PRIMARY ALIGNMENT) THE PROJECT WHERE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING IS ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED.

13.2.3. METHODS
 RAINFALL MONITORING WILL BE INITIATED PRIOR TO CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING, OR FILLING, EXCEPT AS SUCH MINIMAL CLEARING MAY BE NECESSARY TO INSTALL A RAIN GAUGE IN AN OPEN AREA. THE RAIN GAUGE WILL BE CHECKED FOR OPERATIONAL SOUNDNESS DAILY (DURING NORMAL BUSINESS HOURS) IN WET TIMES AND WEEKLY IN DRY TIMES. GAUGES WILL BE REPAIRED OR REPLACED ON THE SAME DAY IF FOUND TO BE NON-OPERATIONAL OR MISSING.

13.2.4. EACH RAIN GAUGE WILL BE READ (FOR DETAILED RECORDS OF RAINFALL) AND EMPTIED AFTER EVERY RAINFALL EVENT OCCURRING ON THE PROJECT SITE AT APPROXIMATELY THE SAME TIME OF THE DAY (DURING NORMAL BUSINESS HOURS). DURING PERIODS OF DRY CONDITIONS, IT WILL NOT BE NECESSARY TO READ THE RAIN GAUGE EVERY DAY. IN LIEU OF THIS REQUIREMENT ON WEEKENDS AND ON STATE HOLIDAYS, THE RAIN GAUGES CAN BE EMPTIED THE NEXT BUSINESS DAY AND A REFERENCE SITE USED FOR A RECORD OF DAILY AMOUNT OF PRECIPITATION FOR THOSE DAYS. A REFERENCE SITE IS THE DOCUMENTATION FROM THE CLOSEST GAUGE WITHIN PROXIMITY OF THE PROJECT FROM A RECOGNIZED SOURCE SUCH AS THE NOAA NATIONAL WEATHER SERVICE.

13.2.5. DETAILED RECORDS WILL BE RECORDED OF RAINFALL EVENTS INCLUDE DATES, AMOUNTS OF RAINFALL, AND THE APPROXIMATE DURATION (OR THE STARTING AND ENDING TIMES). THE RAINFALL RECORDS SHALL BE RECORDED ON THE TDOT RAINFALL RECORD SHEET AND SHALL BE MAINTAINED IN THE "DOCUMENTATION AND PERMITS" BINDER.

13.2.6. IF THE RAINFALL EVENT IS STILL IN PROGRESS AT THE DAILY RECORDING TIME, THE GAUGE WILL BE EMPTIED AND THE RECORD WILL INDICATE THAT THE STORM EVENT WAS STILL IN PROGRESS.

13.2.7. RAIN GAUGE INFORMATION (DETAILED RECORDS), INCLUDING THE LOCATION OF THE NEAREST OUTFALL, WILL BE RECORDED ON THE EPSC INSPECTION REPORT FORMS AT THE TIME OF MEASUREMENT.

13.3. KEEPING PLANS CURRENT (3.4)

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

13.3.2. THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC

PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

13.3.3. THE TDOT EPSC INSPECTOR OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:

13.3.3.1. WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;

13.3.3.2. WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM CONSTRUCTION ACTIVITY SOURCES, OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY; WHERE LOCAL, STATE, OR FEDERAL OFFICIALS DETERMINE THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, A COPY OF ANY CORRESPONDENCE TO THAT EFFECT MUST BE RETAINED IN THE SWPPP;

13.3.3.3. WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP;

13.3.3.4. TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA;

13.3.3.5. WHEN THERE IS A CHANGE IN CHEMICAL TREATMENT METHODS INCLUDING: USE OF DIFFERENT TREATMENT CHEMICALS, DIFFERENT DOSAGE OR APPLICATION RATES OR A DIFFERENT AREA OF APPLICATION NOT SPECIFIED ON THE EPSC PLANS.

13.3.3.6. ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN 7 DAYS BY THE PROJECT EPSC INSPECTOR.

13.3.3.7. WHEN A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION), CONSTRUCTION SHALL NOTIFY THE PERMITS SECTION FOR PROPER COORDINATION.

13.4. MAKING PLANS ACCESSIBLE

13.4.1. TDOT WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF FINAL STABILIZATION. TDOT WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE (6.2).

13.4.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE FINAL STABILIZATION CRITERIA, TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (3.3.3) (6.2.1):

13.4.2.1. A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE NPDES PERMIT NUMBER FOR THE PROJECT;

13.4.2.2. THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT;

13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND

13.4.2.4. THE LOCATION OF THE SWPPP.

- 13.4.3. ALL INFORMATION DESCRIBED IN SECTION 13.4.2 MUST BE MAINTAINED IN LEGIBLE CONDITION. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE DUE TO SAFETY CONCERNS, THE NOTICE SHALL BE POSTED IN A LOCAL BUILDING. THE NOTICE MUST BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION WHERE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY.
- 13.5. NOTICE OF TERMINATION (8.0)
- 13.5.1. WHEN ALL STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED BY FINAL STABILIZATION, THE TDOT REGIONAL ENGINEER WILL SUBMIT A NOTICE OF TERMINATION (NOT) THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT TO THE TDEC CENTRAL OFFICE IN NASHVILLE, TN.
- 13.5.2. FOR THE PURPOSES OF THE CERTIFICATION REQUIRED BY THE NOT, THE ELIMINATION OF STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY MEANS THE
- 13.5.2.1. ALL EARTH-DISTURBING ACTIVITIES ON THE SITE ARE COMPLETED AND ALL DISTURBED SOILS AT THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL HAVE BEEN FINALLY STABILIZED; AND
- 13.5.2.2. ALL CONSTRUCTION MATERIALS, WASTE AND WASTE HANDLING DEVICES, AND ALL EQUIPMENT, AND VEHICLES THAT WERE USED DURING CONSTRUCTION HAVE BEEN REMOVED AND PROPERLY DISPOSED; AND
- 13.5.2.3. ALL STORMWATER CONTROLS THAT WERE INSTALLED AND MAINTAINED DURING CONSTRUCTION, EXCEPT THOSE THAT ARE INTENDED FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, HAVE BEEN REMOVED; AND
- 13.5.2.4. ALL POTENTIAL POLLUTANTS AND POLLUTANT GENERATING ACTIVITIES ASSOCIATED WITH CONSTRUCTION HAVE BEEN REMOVED; AND
- 13.5.2.5. THE PERMITTEE HAS IDENTIFIED WHO IS RESPONSIBLE FOR ONGOING MAINTENANCE OF ANY STORMWATER CONTROLS LEFT ON THE SITE FOR LONG-TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE; AND
- 13.5.2.6. TEMPORARY EPSC MEASURES HAVE BEEN OR WILL BE REMOVED AT AN APPROPRIATE TIME TO ENSURE FINAL STABILIZATION IS MAINTAINED; AND
- 13.5.2.7. ALL STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE IDENTIFIED SITE THAT ARE AUTHORIZED BY A NPDES GENERAL PERMIT HAVE OTHERWISE BEEN ELIMINATED FROM THE PORTION OF THE CONSTRUCTION SITE WHERE THE OPERATOR HAD CONTROL.
- 13.6. RETENTION OF RECORDS (6.2)
TDOT WILL RETAIN COPIES OF THE SWPPP, ALL REPORTS REQUIRED BY THE PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT FOR THE PROJECT FOR A PERIOD OF AT LEAST THREE (3) YEARS FROM THE DATE THE NOT WAS FILED.

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (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 TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

Anthony R. Myers

 AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

ANTHONY MYERS

 PRINTED NAME

TDOT REGION 3 TRANSPORTATION MANAGER II

 TITLE

03-20-2017

 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 ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TNR100000, AND THAT CERTAIN OF MY ACTIVITIES ONSITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

 AUTHORIZED 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 BE COMPLETED AT THE ENVIRONMENTAL PRECONSTRUCTION MEETING BY TDOT CONSTRUCTION OR THEIR DULY AUTHORIZED REPRESENTATIVE):

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

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

4.2.2 OUTFALL TABLE (3.5.1.d, 5.4.1.f)

EPSC STAGE	OUTFALL LABEL	SUB FALL	OUT-CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	STAGE 3A DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
1,2,3	1		10+00L	5.0	6.30	6.30	6.42		NO (See comments)		Equivalent measures not required due to drainage area reduced by sub-outfalls.
1		1A	10+15R	5.1	2.07				NO		
1		1B	10+20R	2.0	0.15				NO		
1		1C	12+11L	0.7	0.32				NO		
1		1D	12+66L	2.0	0.65				NO		
1		1E	12+29R	3.0	2.60				NO		
2,3		1F	10+14L	5.0		0.084	0.084		NO		
2,3		1G	10+33L	2.0		0.074	0.074		NO		
2,3		1H	10+86L	0.1		0.078	0.078		NO		
2,3		1I	11+16L	0.8		0.046	0.046		NO		
2,3		1J	10+50L	1.2		0.072	0.072		NO		
2,3		1K	10+84L	1.0		0.045	0.045		NO		
2,3		1L	11+15L	0.8		0.85	0.85		NO		
2,3		1M	12+91R	1.8		1.96	1.96		NO		
2,3		1N	13+53R	4.7		0.173	0.173		NO		
2,3		1O	13+29R	4.7		0.137	0.137		NO		
2,3		1P	13+45R	4.5		0.037	0.037		NO		
2,3		1Q	13+50R	1.8		0.027	0.027		NO		
2,3		1R	13+31R	3.1		0.063	0.063		NO		
2,3		1S	12+80R	2.5		0.016	0.016		NO		
2,3		1T	12+85L	3.5		0.134	0.134		NO		
2,3		1U	12+37L	0.5		0.704	0.704		NO		
2,3		1V	12+60L	4.0		0.049	0.049		NO		
2,3		1W	13+99R	1.1		0.118	0.118		NO		
2,3		1X	14+28R	2.3		0.648	0.648		NO		
2,3		1Y	14+50L	2.0		0.118	0.118		NO		
2,3		1Z	14+99R	1.6		0.186	0.186		NO		

2,3		1AA	16+10L	1.1		0.18	0.18		NO		
2,3		1AB	12+94R	0.5		0.01	0.01		NO		
2,3		1AC	17+80R	5.4		0.03	0.03		NO		
2,3		1AD	18+12R	5.4		0.026	0.026		NO		
1,2,3,3A	2		17+36R	2.7	0.81	0.81	0.63	0.63	NO		
1,2,3,3A	3		17+58R	3.7	0.33	0.33	0.27	0.27	NO		
1,2,3,3A	4		25+84R	9.0	0.10	0.10	0.12	0.12	NO	STR-1 (McCutcheon Creek)	
3A	7		26+02L	4.5				0.37	NO		
1,2,3,3A	5		26+37R	15.0	0.10	0.10	0.12	0.12	NO	STR-1 (McCutcheon Creek)	
2,3,3A	39		26+89L	1.1		8.876	8.465	0.777	NO (See comments)	STR-2 (UNT to McCutcheon Creek)	
2,3A		39A	27+27L	1.4		0.001		0.001	NO		
2,3A		39B	27+76L	1.4		0.252		0.25	NO		
2,3A		39C	28+38L	0.5		0.05		0.05	NO		
2,3A		39D	28+50L	0.4		0.001		0.001	NO		
2,3A		39E	28+84L	0.0		0.042		0.042	NO		
2,3A		39F	29+05L	0.2		0.01		0.01	NO		
2,3,3A		39G	27+73R	1.3		0.174	0.174	0.174	NO		
2,3,3A		39H	28+38R	0.5		0.059	0.059	0.059	NO		
2,3,3A		39I	28+49R	0.1		0.36	0.063	0.063	NO		
2,3,3A		39J	28+81R	0.0		0.064	0.064	0.064	NO		
2,3,3A		39K	29+09R	0.4		0.063	0.063	0.063	NO		
2		39L	30+12L	2.4		7.8 (4.02 Offsite)			NO (See Comments)		Equivalent measures not required due to drainage area is offsite diverted through project).
3A		39M	60+62L					0.125	NO		
3,3A		39N	30+52R	1.4			0.134	0.134	NO		
3A		39O	31+49L					0.089	NO		
3,3A		39P	32+50R	1.4			0.148	0.148	NO		
3A		39Q	32+49L					0.098	NO		
3,3A		39R	32+50L	0.5			0.065	0.065	NO		
3,3A		39S	32+68L	0.5			0.01	0.01	NO		
3,3A		39T	32+68L	0.5			0.917	0.917	NO		

3,3A		39U	33+76L	0.5			2.482	2.482	NO		
3,3A		39V	33+75L	1.4			0.077	0.077	NO		
3A		39W	34+73R					0.243	NO		
3,3A		39X	34+75L	1.4			0.101	0.101	NO		
3,3A		39Y	35+27L	1.0			0.555	0.555	NO		
3,3A		39Z	35+546L	1.7			0.122	0.122	NO		
3,3A		39AA	36+56L	2.3			0.437	0.437	NO		
3,3A		39AB	37+07L	2.6			0.277	0.277	NO		
3,3A		39AC	38+36L	3.4			0.528	0.528	NO		
3A		39AD	38+35R					0.226	NO		
3,3A		39AE	39+28L	3.4			0.452	0.452	NO		
3,3A		39AF	39+99L	3.4			0.295	0.295	NO		
3,3A		39AG	40+86L	3.4			0.295	0.186	NO		
3,3A		39AH	41+47L	3.4			0.186	0.389	NO		
3A		39AI	41+74R	3.4				0.255	NO		
3,3A		39AJ	41+77R	3.4			0.389	0.866	NO		
2,3,3A	61		24+62L	1.0		1.536	2.27	3.3	NO	STR-1 (McCutcheon Creek)	
2,3,3A		61A	22+77L	1.0		1.428	1.428	1.428	NO		
2,3,3A		61B	23+19L	3.1		0.108	0.108	0.108	NO		
3A		61C	21+16L	5.7				0.454	NO		
3A		61D	22+64L	8.0				0.380	NO		
3A		61E	23+44L	7.0				0.062	NO		
3A		61F	24+59L	5.4				0.134	NO		
3,3A		61G	21+18L	5.7			0.166	0.166	NO		
3,3A		61H	22+12L	7.7			0.063	0.063	NO		
3,3A		61I	22+15L	7.0			0.233	0.233	NO		
3,3A		61J	23+43L	7.0			0.168	0.168	NO		
3,3A		61K	24+61L	5.4			0.104	0.104	NO		
1,2,3,3A	9		25+06R	8.0	0.63	0.63	1.18	1.18	NO		
1,2	8		25+50R	7.0	1.20	1.2			NO	STR-1 (McCutcheon Creek)	
1	6		25+70L	6.0	3.95				NO	STR-1 (McCutcheon Creek)	

1	10		29+19R	2.5	2.10					NO	
1,2,3,3A	11		29+97R	1.0	0.23	0.23	0.23	0.23	0.23	NO	STR-3 (UNT to McCutcheon Creek)
1,2,3,3A	14		30+11R	5.1	0.05	0.05	0.05	0.05	0.05	NO	STR-3 (UNT to McCutcheon Creek)
1,2,3,3A	12		30+58R	0.7	0.62	0.62	0.62	0.62	2.8	NO	STR-3 (UNT to McCutcheon Creek)
1,2,3,3A	13		30+64R	1.5	0.63	0.63	0.63	0.63	0.63	NO	STR-3 (UNT to McCutcheon Creek)
2,3,3A	62		31+98R	1.0		0.23	1.59	1.59		NO	
1,2,3,3A	15		41+04R	2.2	34.7	34.7	34.7	34.7	33.199	NO (See Comments)	
1,2,3,3A		15A	46+14R	3.3	0.14	0.14	0.14	0.14	0.14	NO	
1,2,3,3A		15B	46+37R	3.7	0.26	0.26	0.26	0.26	0.26	NO	
1,2,3,3A		15C	48+07R	4.5	30.19 (Offsite Diverted)	30.19 (Offsite Diverted)	30.19 (Offsite Diverted)	30.19 (Offsite Diverted)	30.19 (Offsite Diverted)	NO (See Comments)	Equivalent measures not required due to drainage area is offsite diverted through project).
3,3A		15D	46+07R	0.1			0.073	0.073		NO	
3,3A		15E	46+11R	2.1			0.127	0.127		NO	
3,3A		15F	46+38R	1.5			0.142	0.142		NO	
3,3A		15G	46+15R	4.0			0.375	0.375		NO	
3,3A		15H	46+44R	6.5			0.178	0.178		NO	
2,3,3A	54		47+89L	4.1		0.18	0.18	0.18		NO	
2,3,3A	56		48+04L	6.2		1.403	3.923	1.094		NO	
2,3,3A	55		48+18R	6.2		0.50	0.50	0.5		NO	
2,3		56A	48+07R	2.0		0.197	0.197	0.197		NO	
3,3A		56B	47+74R	0.4			0.149	0.149		NO	
3,3A		56C	48+04R	0.0			0.048	0.048		NO	
3A		56D	46+79R	36				0.089		NO	
3A		56E	48+38R	0.4				0.102		NO	
3A		56F	47+73L	0.4				0.151		NO	
3,3A		56G	48+05L	0.0			0.054	0.054		NO	
3,3A		56H	48+35L	0.4			0.108	0.108		NO	
2,3,3A		56I	51+01R	10.0		0.196	0.196	0.196		NO	
2,3,3A		56J	50+33L	6.5		1.01	1.01	1.01		NO	
3,3A		56K	50+37L	5.6			0.333	0.333		NO	
3,3A		56L	50+57L	3.7			0.218	0.218		NO	

3A		56M	49+84R	2.7				0.001	NO		
3,3A		56N	50+09R	0.5			0.131	00.131	NO		
3,3A		56O	50+24R	0.1			0.137	0.137	NO		
3,3A		56P	50+46R	0.1			0.190	0.19	NO		
3,3A		56Q	49+77L	2.5			0.038	0.038	NO		
3A		56R	51+00R	4.3				0.212	NO		
3,3A		56S	52+02L	5.8			0.386	0.386	NO		
3,3A		56T	54+09L	6.9			0.058	0.058	NO		
3A		56U	54+10R	6.9				0.63	NO		
3,3A		56V	55+06R	4.8			0.115	0.115	NO		
3A		56W	55+04R	5.1				0.222	NO		
3,3A		56X	55+06L	5.1			0.030	0.03	NO		
3,3A		56Y	55+48L	4.2			0.229	0.229	NO		
3,3A		56Z	58+46L	3.4			0.296	0.296	NO		
3A		56AA	58+45R	.34				0.30	NO		
1,2,3,3A	17		57+95L	4.6	0.80	0.80	0.80	0.80	NO		
1,2,3,3A	18		73+86L	5.5	4.98	3.7	4.98	3.8	NO	STR-4 (UNT to Grassy Branch)	
1,2,3,3A	20		73+90R	5.5	1.70	1.21	1.70	121	NO	STR-4 (UNT to Grassy Branch)	
3,3A	40		73+96L	3.4			1.224	1.809	NO		
3,3A		40A	62+30L	3.3			0.044	0.044	NO		
3,3A		40B	61+99L	2.4			0.071	0.071	NO		
3,3A		40C	62+29L	2.3			0.092	0.092	NO		
3,3A		40D	62+29L	1.4			0.095	0.095	NO		
3,3A		40E	62+63L	1.0			0.001	0.001	NO		
3,3A		40F	64+98L	6.2			0.233	0.233	NO		
3,3A		40G	66+77L	6.4			0.133	0.133	NO		
3,3A		40H	68+75L	7.5			0.151	0.151	NO		
3,3A		40I	71+33L	4.6			0.204	0.204	NO		
3,3A		40J	72+98L	2.0			0.133	0.133	NO		
3,3A		40K	73+80L	0.7			0.067	0.067	NO		
3A		40L	66+75R	6.4				0.283	NO		
3A		40M	71+34R	4.6				0.302	NO		

3A	41		73+98R	2.0				0.18	NO	STR-4 (UNT to Grassy Branch)
3A		41A	72+19R	3.3				0.065	NO	
3A		41B	73+00R	2.0				0.056	NO	
3A		41C	73+84R	0.7				0.059	NO	
3A	45		74+11R	0.8				0.222	NO	STR-4 (UNT to Grassy Branch)
3A		45A	74+31R	0.04				0.069	NO	
3A		45B	74+57R	0.3				0.001	NO	
3A		45C	74+86R	0.8				0.044	NO	
3A		45D	75+52R	1.9				0.108	NO	
3,3A	42		74+12L	2.7			1.48	2.829	NO	STR-4 (UNT to Grassy Branch)
3,3A		42A	74+34L	0.04			0.078	0.078	NO	
3,3A		42B	74+59L	0.4			0.001	0.001	NO	
3,3A		42C	74+84L	0.8			0.05	0.05	NO	
3,3A		42D	75+53L	1.9			0.122	0.122	NO	
3,3A		42E	77+00L	4.2			0.156	0.156	NO	
3,3A		42F	77+02R	4.2			0.272	0.272	NO	
3,3A		42G	78+99L	4.7			0.345	0.345	NO	
3,3A		42H	80+83L	4.2			0.07	0.07	NO	
3,3A		42I	80+84R	4.2			0.34	0.34	NO	
3,3A		42J	81+25L	2.8			0.022	0.022	NO	
3,3A		42K	81+21L	0.1			0.103	0.103	NO	
3,3A		42L	81+80L	2.3			0.226	0.226	NO	
3A		42M	84+49L	1.7				0.782	NO	
3A		42N	84+51L	0.7				0.262	NO	
1,2,3,3A	19		74+30L	3.0	1.20	1.17	1.20	1.17	NO	STR-4 (UNT to Grassy Branch)
1,2,3,3A	21		74+30R	4.2	0.98	1.08	0.98	0.15	NO	STR-4 (UNT to Grassy Branch)
1,2,3	7		74+81R	4.5	0.37	0.37	0.37		NO	STR-4 (UNT to Grassy Branch)
1,2,3,3A	22		85+57R	3.5	1.74	1.74	1.74	1.748	NO	
3A		22A	85+55R	1.4				0.162	NO	
3,3A		22B	87+23R	3.0			0.599	0.599	NO	

3,3A		22C	87+85R	0.5			0.023	0.023	NO		
3,3A		22D	87+93R	1.2			0.202	0.202	NO		
3,3A		22E	88+48R	2.0			0.762	0.762	NO		
2,3,3A	46		87+41R	3.5		0.353	0.118	0.118	NO		
3,3A	47		88+53RL	5.1			0.61	0.61	NO		
3,3A		47A	88+85L	3.5			0.152	0.152	NO		
3,3A		47B	88+43L	3.8			0.168	0.168	NO		
3,3A		47C	88+44L	5.7			0.063	0.063	NO		
3,3A		47D	88+09L	7.2			0.168	0.168	NO		
3,3A		47E	88+14L	5.0			0.029	0.029	NO		
3,3A		47F	88+49L	6.1			0.03	0.03	NO		
1	23		111+95R	4.5	9.90				NO (See Comments)		Equivalent measures not required due to drainage area reduced by sub-outfalls.
1		23A	105+26R	3.5	0.07				NO		
1		23B	105+70R	2.0	0.05				NO		
1		23C	109+20R	3.8	0.78				NO		
1		23D	109+64R	2.0	0.10				NO		
1		23E	105+28R	2.4	0.68				NO		
1		23F	104+95R	3.2	2.10				NO		
1,2,3,3A	27		113+82R	2.2	0.12	1.53	79.2 (7.567 ac Offsite Diverted)	80.96 (7.567 ac Offsite Diverted)	NO (See Comments)	STR-5 (Grassy Branch)	Equivalent measures not required due to drainage area reduced by sub-outfalls.
3,3A		27A	95+00L	4.6			0.423	0.423	NO		
3,3A		27B	97+31L	2.7			2.947	2.947	NO		
3,3A		27C	97+24L	2.1			0.208	0.208	NO		
3A		27D	95+00L	4.6				0.33	NO		
3A		27E	96+51R	2.7				1.496	NO		
3A		27F	96+48R	2.3				0.103	NO		
3A		27G	98+63R	2.9				0.139	NO		
3A		27H	99+04R	1.4				0.017	NO		
3A		27I	99+31R	1.6				0.071	NO		
3A		27J	99+57R	4.4				0.001	NO		
3,3A		27K	99+58R	4.4			0.525	0.525	NO		
3,3A		27L	101+71L	4.0			0.236	0.236	NO		

3,3A		27M	101+96R	3.5			7.567 (Offsite Diverted)	7.567 (Offsite Diverted)	NO (See Comments)		Equivalent measures not required due to drainage area is offsite diverted through project).
3A		27N	102+02R	3.6				0.216	NO		
3,3A		27O	102+64L	2.4			0.23	0.23	NO		
3,3A		27P	102+97L	2.2			0.208	0.208	NO		
3,3A		27Q	103+98L	1.3			0.085	0.085	NO		
3,3A		27R	105+01R	1.3			0.209	0.209	NO		
3,3A		27S	104+96L	1.3			0.068	0.068	NO		
3,3A		27T	105+30L	2.9			0.042	0.042	NO		
3,3A		27U	105+17R	0.3			0.572	0.572	NO		
3,3A		27V	105+29R	0.1			0.066	0.066	NO		
3,3A		27W	105+30R	1.6			2.489	2.489	NO		
3,3A		27X	105+53R	0.4			0.097	0.097	NO		
3,3A		27Y	105+62R	1.0			0.065	0.065	NO		
3,3A		27Z	105+63R	1.0			0.042	0.042	NO		
3,3A		27AA	108+93L	4.1			0.272	0.272	NO		
3A		27AB	108+95R	4.1				0.296	NO		
3,3A		27AC	109+22R	2.0			0.013	0.013	NO		
3,3A		27AD	109+51R	2.7			0.011	0.011	NO		
3,3A		27AE	109+49R	2.0			0.034	0.034	NO		
3,3A		27AF	109+58R	0.7			0.026	0.026	NO		
3A		27AG	111+36R	3.0				0.001	NO		
3,3A		27AH	109+22L	0.2			0.059	0.059	NO		
3,3A		27AI	109+51L	0.1			0.201	0.201	NO		
3,3A		27AJ	109+76L	3.0			0.044	0.044	NO		
3,3A		27AK	111+40L	0.4			0.135	0.135	NO		
3A		27AL	111+36R	0.5				0.152	NO		
3A		27AM	111+67R	0.0				0.049	NO		
3A		27AN	112+01R	0.5				0.147	NO		
3,3A		27AO	105+31L	0.1			0.130	0.13	NO		
3,3A		27AP	105+33L	0.3			0.162	0.162	NO		
3,3A		27AQ	105+54L	0.2			0.057	0.057	NO		

3,3A		27AR	108+97L	4.0			16.015 (15.82 Offsite)	16.015 (15.82 Offsite)	NO (See Comments)		Equivalent measures not required due to drainage area is offsite diverted through project).
3,3A		27AS	104+01L	4.5			44.7 (44.4 Offsite)	44.7 (44.4 Offsite)	NO (See Comments)		Equivalent measures not required due to drainage area is offsite diverted through project).
3,3A	48		113+97L	1.2			3.136	3.136	NO	STR-5 (Grassy Branch)	
3,3A		48A	111+75L	2.0			0.381	0.381	NO		
3,3A		48B	112+02L	0.5			0.058	0.058	NO		
3,3A		48C	111+76L	0.5			0.001	0.001	NO		
3,3A		48D	111+67L	4.4			2.362	2.362	NO		
3,3A		48E	111+75L	0.2			0.127	0.127	NO		
3,3A		48F	111+76L	1.2			0.001	0.001	NO		
3,3A		48G	112+02L	0.7			0.001	0.001	NO		
3,3A		48H	112+00L	0.5			0.059	0.059	NO		
3,3A		48I	112+01L	0.9			0.001	0.001	NO		
3,3A		48J	112+30L	1.0			0.145	0.145	NO		
1,2,3,3A	24		114+05L	2.1	76.90 (Offsite Diverted)	76.90 (Offsite Diverted)	3.55	3.55	NO (See Comments)	STR-5 (Grassy Branch)	Equivalent measures not required due to drainage area is offsite diverted through project).
1,2		24A	103+83L	2.0	7.50 (6.7 Offsite)	7.50 (6.7 Offsite)			NO (See Comments)		Equivalent measures not required due to drainage area is offsite diverted through project).
2,3,3A	43		114+49R	5.0		4.405	7.7998	9.3638	NO (See Comments)	STR-5 (Grassy Branch)	Equivalent measures not required due to drainage area reduced by sub-outfalls.
3A		43A	115+17R	0.66				0.051	NO		
3A		43B	115+42R	0.04				0.063	NO		
3A		43C	115+69R	0.66				0.079	NO		
3,3A		43D	115+17L	0.7			0.057	0.057	NO		
3,3A		43E	115+45L	0.04			0.063	0.063	NO		
3,3A		43F	115+73L	0.7			0.165	0.165	NO		
2,3A		43G	116+65R	1.9		0.45		0.001	NO		
2,3,3A		43H	117+03R	0.9		0.128	0.045	0.045	NO		
2,3,3A		43I	117+02R	0.2		0.049	0.037	0.037	NO		
2,3,3A		43J	117+27R	1.0		0.913	0.049	0.049	NO		
2,3,3A		43K	117+55R	2.1		0.051	0.913	0.913	NO		

2,3,3A		43L	117+37R	9.0		2.814	0.051	0.051	NO		
3A		43M	117+89R	3.8				0.342	NO		
3,3A		43N	117+89L	3.8			0.196	0.196	NO		
3A		43O	120+81R	4.7				0.136	NO		
3,3A		43P	120+84L	4.7			0.139	0.139	NO		
3,3A		43Q	120+57L	2.4			0.025	0.025	NO		
3,3A		43R	120+29L	2.2			0.034	0.034	NO		
3,3A		43S	120+35L	6.6			0.0274	0.274	NO		
3,3A		43T	120+65L	10.1			0.060	0.06	NO		
3,3A		43U	122+48L	0.9			0.199	0.199	NO		
3,3A		43V	122+48R	0.9			0.188	0.188	NO		
3,3A		43W	125+12L	1.8			0.252	0.252	NO		
3,3A		43X	125+09R	1.8			0.362	0.362	NO		
3,3A		43Y	125+13R	2.0			2.814	2.814	NO		
3,3A		43Z	128+11L	3.0			0.001	0.001	NO		
3,3A		43AA	128+50L	1.5			0.001	0.001	NO		
3,3A		43AB	128+54L	3.5			0.056	0.056	NO		
3,3A		43AC	128+82L	3.5			0.083	0.083	NO		
3,3A		43AD	131+09L	3.0			0.117	0.117	NO		
3A		43AE	131+10R	3.0				0.23	NO		
3A		43AF	132+58R	0.7				0.105	NO		
3,3A		43AG	132+58R	0.5			0.297	0.297	NO		
3,3A		43AH	132+87R	3.2			0.001	0.001	NO		
3,3A		43AI	132+91R	4.3			0.061	0.061	NO		
3,3A		43AJ	133+15R	3.8			0.045	0.045	NO		
3A		43AK	133+57R	0.8				0.205	NO		
3,3A		43AL	132+65L	0.6			0.124	0.124	NO		
3,3A		43AM	132+93L	3.5			0.043	0.043	NO		
3,3A		43AN	133+27L	3.5			0.040	0.04	NO		
3,3A		43AO	133+56L	0.5			0.064	0.064	NO		
3,3A		43AP	133+54L	0.7			0.111	0.111	NO		
3,3A		43AQ	134+47L	2.2			0.157	0.157	NO		

3A		43AR	136+00R	2.3				0.352	NO		
3,3A		43AS	135+98L	2.3			0.348	0.348	NO		
3,3A		43AT	136+01L	0.5			0.574	0.574	NO		
1,2,3,3A	25		114+62L	3.8	0.55	0.75	0.58	0.58	NO	STR-5 (Grassy Branch)	
1,2,3,3A	26		114+63R	2.2	1.84	0.23	0.23	0.23	NO	STR-5 (Grassy Branch)	
1,2,3,3A	28		124+09L	9.5	4.69	0.5	0.32	0.32	NO		
1,2	57		131+07L	2.1	0.355	0.355			NO		
3,3A	49		131+44L	0.7			0.18		NO		
1,2,3,3A	16		132+21R	6.0	0.50	0.50	0.50	0.50	NO		
1,2,3,3A	30		132+78R	3.3	1.05	1.05	0.3	0.3	NO		
1,2,3,3A	29		132+84L	2.1	2.47	2.47	0.75	0.75	NO		
1,2		29A	133+46L	2.7	0.43	0.43			NO		
1,2		29B	135+77L	3.4	0.73	0.73			NO		
1,2,3,3A	31		133+20R	3.0	0.69	0.69	0.69	0.69	NO		
1,2,3,3A	32		140+65R	9.0	0.42	0.42	0.42	0.42	NO		
1,2,3,3A	33		147+44R	5.0	14.6 (9.6 ac Offsite Diverted)	14.6 (9.6 ac Offsite Diverted)	15.2 (9.6 Offsite Diverted)	15.2 (9.6 Offsite Diverted)	NO (See Comments)		Equivalent measures not required due to drainage area is offsite diverted through project).
2,3A		33A	146+71R	2.9		0.079		0.08	NO		
2,3A		33B	146+95R	0.6		3.02		0.015	NO		
3A		33C	147+15R	0.4				0.007	NO		
2,3A		33D	147+15R	1.9		0.306		0.007	NO		
2,3A		33E	147+40R	0.1		0.136		0.001	NO		
3A		33F	148+03R	1.0				0.035	NO		
3A		33G	148+49R	1.7				0.177	NO		
3,3A		33H	146+73L	1.0			0.101	0.101	NO		
3,3A		33I	146+92L	0.7			0.017	0.017	NO		
3,3A		33J	147+14L	0.4			0.001	0.001	NO		
3,3A		33K	147+36L	0.0			0.081	0.081	NO		
3,3A		33L	147+62L	0.4			0.001	0.001	NO		
3,3A		33M	148+02L	1.0			0.04	0.04	NO		
3,3A		33N	148+51L	1.7			0.201	0.201	NO		
3A		33O	145+50R	2.7				0.172	NO		

3,3A		33P	145+51L	2.7			0.191	0.191	NO		
3A		33Q	143+42R	1.7				0.001	NO		
3,3A		33R	143+55L	1.9			0.306	0.306	NO		
3A		33S	142+24R	0.8				0.136	NO		
2,3,3A		33T	141+99L	2.5		9.6 (Offsite Diverted)	3.02	3.02	NO (See Comments)		Equivalent measures not required due to drainage area is offsite diverted through project).
3,3A		33U	142+00L	0.8			0.125	0.125	NO		
3,3A		33V	142+57L	2.9			0.079	0.079	NO		
1,2,3,3A	34		153+34R	3.0	1.98	1.98	1.779	2.09	NO		
3,3A		34A	153+32L	0.9			0.163	0.163	NO		
3,3A		34B	153+51L	2.1			0.82	0.82	NO		
3,3A		34C	153+61L	0.4			0.001	0.001	NO		
3,3A		34D	153+92L	0.0			0.088	0.088	NO		
3,3A		34E	154+20L	0.4			0.001	0.001	NO		
3,3A		34F	154+42L	0.8			0.108	0.108	NO		
3A		34G	153+31R	0.9				0.143	NO		
3A		34H	153+62R	0.4				0.001	NO		
3A		34I	153+89R	0.0				0.078	NO		
3A		34J	154+19R	0.4				0.001	NO		
3A		34K	154+44	0.8				0.095	NO		
2,3,3A		34L	155+03L	2.0		0.598	0.598	0.598	NO		
1,2,3,3A	35		169+90L	4.0	4.90	4.90	0.66	0.66	NO	STR-6 (Aenon Creek)	
1,2,3,3A	37		169+91R	4.5	1.01	0.13	0.13	0.13	NO	STR-6 (Aenon Creek)	
2,3,3A	44		170+02R	4.5		0.38	2.366	3.24	NO	STR-6 (Aenon Creek)	
3,3A		44A	158+52L	5.8			0.495	0.495	NO		
3,3A		44B	160+98L	5.8			0.652	0.652	NO		
3,3A		44C	161+73L	4.6			0.406	0.406	NO		
3,3A		44D	162+50L	3.5			0.24	0.24	NO		
3A		44E	161+01R	5.8				0.40	NO		
3,3A		44F	163+53L	2.9			0.141	0.141	NO		
3,3A		44G	164+40L	2.9			0.321	0.321	NO		
2,3A		44H	163+70R	2.9		0.20		0.20	NO		

2,3A		44I	164+36R	2.9		0.069		0.069	NO		
2,3,3A		44J	164+72R	1.3		0.038	0.038	0.038	NO		
2,3,3A		44K	164+96R	0.9		0.073	0.073	0.073	NO		
3A		44L	165+43R	2.9				0.001	NO		
3A		44M	168+00R	1.9				0.204	NO		
3,3A	51		170+06L	1.9			0.678	0.678	NO	STR-6 (Aenon Creek)	
3,3A		51A	164+97L	2.2			0.332	0.332	NO		
3,3A		51B	165+04L	0.7			0.226	0.226	NO		
3,3A		51C	165+45L	2.9			0.120	0.12	NO		
2,3,3A	59		170+30L	0.7		0.183	0.183	0.183	NO	STR-6 (Aenon Creek)	
2,3,3A	58		170+49L	0.7		0.01	0.01	0.01	NO	STR-6 (Aenon Creek)	
2,3,3A	60		170+57L	0.4		0.253	0.253	0.253	NO	STR-6 (Aenon Creek)	
2,3,3A		60A	170+60L	0.3		0.021	0.021	0.021	NO		
2,3,3A		60B	170+79L	0.0		0.071	0.071	0.071	NO		
2,3,3A		60C	170+94L	0.3		0.023	0.023	0.023	NO		
2,3,3A		60D	171+10L	0.7		0.001	0.001	0.001	NO		
2,3,3A		60E	171+28L	0.7		0.137	0.137	0.137	NO		
3,3A	53		170+59R	0.5			0.17	0.17	NO	STR-6 (Aenon Creek)	
1,2,3,3A	38		170+73R	2.7	1.13	1.13	0.51	0.51	NO	STR-6 (Aenon Creek)	
1,2,3,3A	36		170+75L	3.5	17.18 (Offsite Diverted)	2.5	2.5	2.5	NO (See Comments)	STR-6 (Aenon Creek)	Equivalent measures not required due to drainage area is offsite diverted through project).
1,2,3,3A		36A	175+61L	2.5	0.20	0.20	0.20	0.01	NO		
1,2,3,3A		36B	175+92L	2.5	0.27	0.27	0.27	0.006	NO		
1,2,3,3A		36C	176+30L	2.4	0.28	0.28	0.28	0.28	NO		
3,3A		36D	175+88L	2.4			0.257	0.257	NO		
3,3A		36E	176+00L	0.5			0.099	0.099	NO		
3,3A		36F	176+11L	2.4			0.293	0.293	NO		
2,3,3A	50		170+91L	2.3		17.84 (17.74 ac Offsite)	17.84 (17.74 ac Offsite)	17.79 (17.74 ac Offsite)	NO (See Comments)	STR-6 (Aenon Creek)	Equivalent measures not required due to drainage area is offsite diverted through project).
2,3,3A		50A	172+84L	2.8		0.051	0.051	0.051	NO		
2,3,3A		50B	174+33L	2.1		0.03	0.03	0.03	NO		
2,3,3A		50C	175+17L	2.1		0.019	0.019	0.019	NO		

Index Of Sheets
SEE INDEX SHEET 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR 2017	SHEET NO. 1
FED. AID PROJ. NO.	STP-M-247(9)	
STATE PROJ. NO.	60020-3201-54	

LOCALLY MANAGED PROJECT

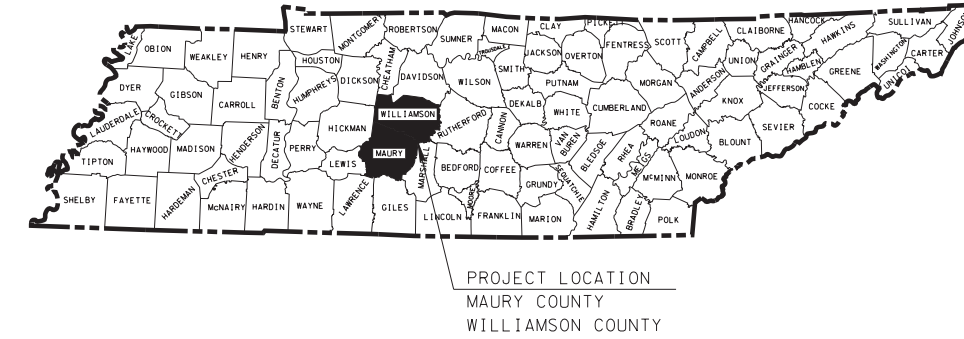
MAURY & WILLIAMSON COUNTIES

S.R. 247 (DUPLEX ROAD)

FROM S.R. 6 (MAIN STREET) TO 0.11 MILES WEST OF I-65

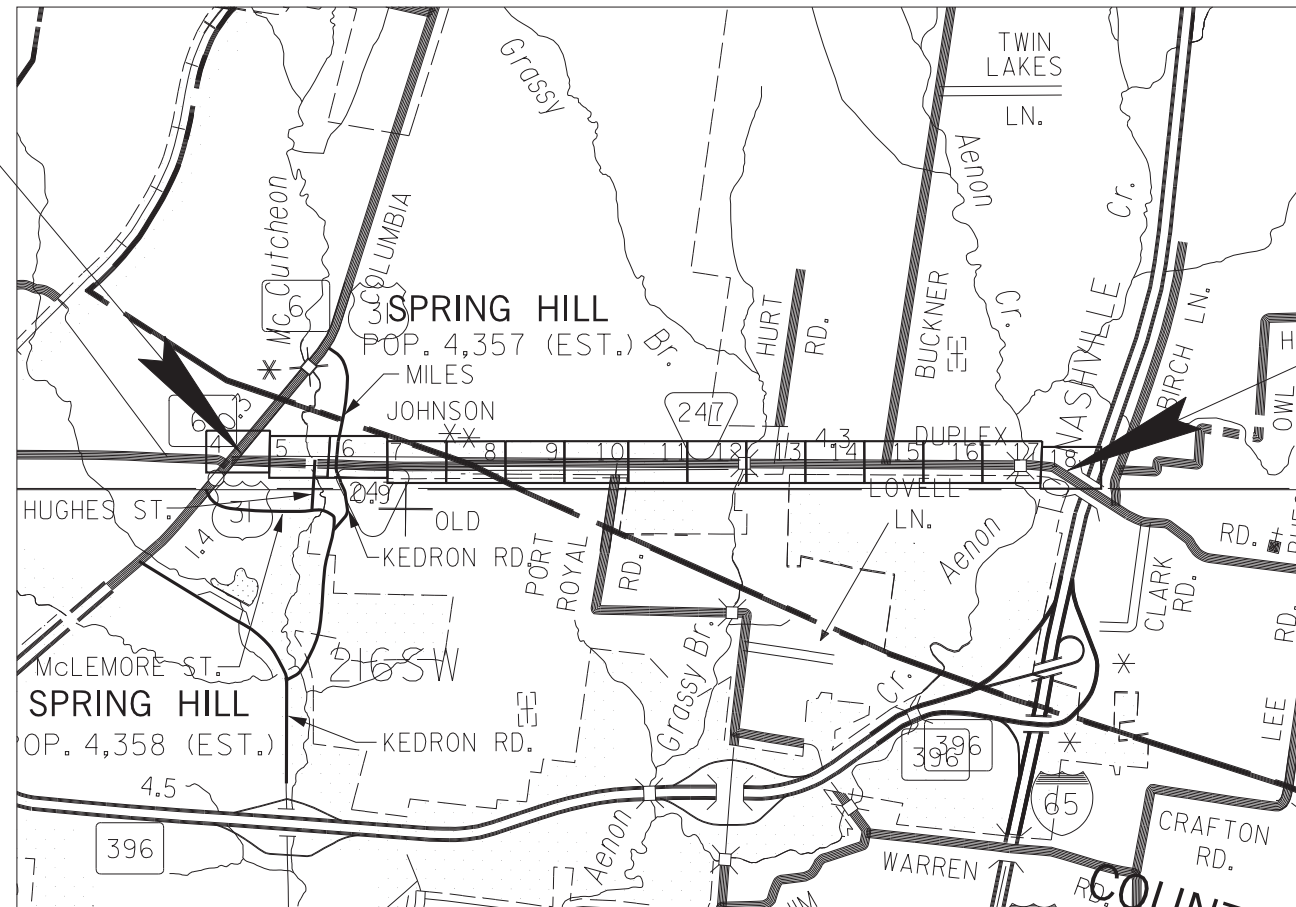
GRADE, DRAIN, BASE, PAVE, BRIDGE, RETAINING WALLS,
SIGNALIZATION & PAVEMENT MARKING

STATE HIGHWAY NO. 247 F.A.H.S. NO. N/A



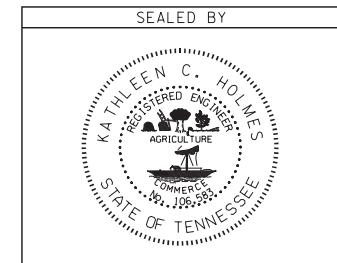
94031-3209-54; 60020-3201-54
BEGIN PROJECT STP-M-247(9)
STA. 10+17.25 (CONST.)
N 518086.7388
E 1693173.1120

ROAD CLOSURE BETWEEN
HUGHES STREET AND MILES
JOHNSON FOR BRIDGE
CONSTRUCTION.



NO EXCLUSIONS
NO EQUATIONS

94031-3209-54; 60020-3201-54
END PROJECT STP-M-247(9)
STA. 179+20.00 (CONST.)
N 517729.9872
E 1710028.1129



APPROVED: Paul D. Duggan
CHIEF ENGINEER

DATE: _____

APPROVED: [Signature]
COMMISSIONER

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE CITY OF SPRING HILL IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY 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 ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

TDOT DESIGN MANAGER JON ZIRKLE, P.E.

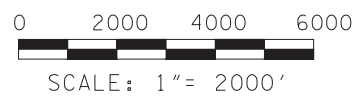
DESIGNED BY CDM SMITH

DESIGNER KASSIE HOLMES, P.E.; DOUG PARKER, P.E.

CHECKED BY JEFF MIZE, P.E.

P.E. NO. 60LPLM-F1-010

PIN NO. 103169.00



ROADWAY LENGTH **3.190 MILES**
BRIDGE LENGTH **0.011 MILES**
PROJECT LENGTH **3.201 MILES**

ORIGINAL SURVEY 2009
UPDATED SURVEY 2015 & 2016

TRAFFIC DATA	
ADT (2017)	12,430
ADT (2037)	22,380
DHV (2037)	2,690
D	65 - 35
T (ADT)	2 %
T (DHV)	3 %
V	40 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR

DATE _____

INDEX

STANDARD ROADWAY DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	1A

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD DRAWINGS INDEX.....	1A – 1C
PROJECT COMMITMENTS.....	1D
ESTIMATED BRIDGE QUANTITIES AND BRIDGE INDEX.....	2
ESTIMATED ROADWAY QUANTITIES.....	2A - 2A1
ESTIMATED UTILITY QUANTITIES.....	2B-2B2
TYPICAL SECTIONS AND PAVING SCHEDULE	2C-2H
GENERAL NOTES AND SPECIAL NOTES.....	2I-2L
TABULATED QUANTITIES.....	2M-2V
CONSTRUCTION DETAILS.....	2W-2Z
PROPERTY MAPS AND RIGHT-OF-WAY ACQUISITION TABLES.....	3, 3A – 3L
PRESENT LAYOUTS	4 - 18
PROPOSED LAYOUTS.....	4A - 18A
PROPOSED PROFILES.....	4B - 18B
R.O.W. DETAILS.....	4C – 18C
GRADING AND DRAINAGE DETAIL SHEETS.....	4D - 18D
SIDE ROADS PROFILES.....	19 - 29
DRIVEWAY PROFILE	30 - 33
DRAINAGE MAPS.....	34 - 37
CULVERT SECTIONS.....	38 – 40, 40A
EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS.....	41, 42, 42A-42N, 43, 43A-43N, 44, 44A-44Z, 44AA-44AB
TRAFFIC CONTROL PLANS WITH CONSTRUCTION	
PHASING NOTES.....	45, 45A – 45AG
SIGNING AND PAVEMENT MARKING PLANS	46, 46A – 46H
SIGN SCHEDULE SHEETS.....	47, 47A – 47B
SIGNAL LAYOUTS.....	48, 48A – 48G
ROADWAY CROSS SECTIONS.....	49 - 119
SIDE ROAD CROSS SECTIONS.....	120 - 175
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX.....	S-1
NATURAL STREAM DESIGN PLAN INDEX.....	NS-1

DWG. NO	REV.	DESCRIPTION
STD-17-72		BOX BRIDGE, 2 BARRELS AT 8', CLEAR HTS. 3' - 5', 0 - 60' FILL
STD-17-103		BOX BRIDGE, 3 BARRELS AT 16', CLEAR HTS. 9' - 12', 0 - 60' FILLROADWAY DESIGN STANDARDS
STD-17-142		SLAB BRIDGE, 2 BARRELS AT 16', CLEAR HTS. 6' - 8', 0 - 60' FILL

STANDARD ABBREVIATIONS AND LEGENDS

RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-3	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-8		STANDARD LEGEND FOR NATURAL STREAM DESIGN

TYPICAL SECTIONS AND DESIGN CRITERIA

RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A	02-05-16	DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
RD01-TS-2	10-15-02	DESIGN STANDARDS FOR COLLECTOR ROADS AND STREETS
RD01-TS-5A	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
RD01-TS-7A	10-15-02	DESIGN STANDARDS 2-LANE CURB AND GUTTER WITH CONTINUOUS 2-WAY LEFT-TURN LANE
RD01-TS-3	04-08-16	SHARED USE PATH TYPICAL SECTIONS
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS

SLOPE DEVELOPMENT

RD01-S-11	04-04-03	DESIGN AND CONSTRUCTION DETAILS FOR ROADSIDE SLOPE DEVELOPMENT
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION

INTERSECTION SIGHT DISTANCE

RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS

UNDERDRAINS

RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	01-25-16	UNDERDRAIN LATERAL DETAILS

PIPE CULVERTS AND ENDWALLS

CULVERTS AND FLUMES

D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
--------	----------	---

DWG. NO	REV.	DESCRIPTION
D-PB-2	01-29-14	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PG-4	07-29-94	FERROUS AND ALUMINUM CORR. METAL PIPE-ARCHES
D-PO-1	05-27-01	OVAL & FLAT BASE CONCRETE CULVERT PIPE

SAFETY CROSS DRAIN ENDWALLS

D-PE-18A	01-05-15	18" CONCRETE ENDWALL CROSS DRAIN
D-PE-18B		18" CONCRETE ENDWALL CROSS DRAIN
D-PE-24A	01-21-16	24" CONCRETE ENDWALL CROSS DRAIN
D-PE-24B		24" CONCRETE ENDWALL CROSS DRAIN
D-PE-30A	01-21-16	30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-30B		30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36A	06-14-13	36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-36B		36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLS

PROTECTED ENDWALLS

D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL (2:1 SLOPE. 36" TO 78")
D-PE-4	10-10-16	STRAIGHT TYPE CONCRETE ENDWALL
D-PE-5	05-27-01	WINGWALLS HORIZONTAL OVAL CONCRETE PIPES

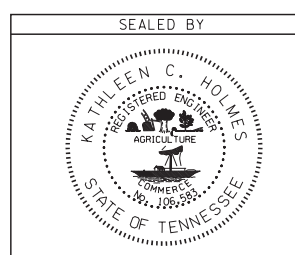
CATCH BASINS AND MANHOLES

CATCH BASINS

D-CB-10LPC	08-01-12	LOW PROFILE LOWERED CURB 32" X 26" RECTANGULAR CONCRETE NO. 10LPC CATCH BASIN
D-CB-10RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 10 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-10S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 10 CATCH BASIN
D-CB-10SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 10 CATCH BASIN
D-CB-12LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN
D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO.12 CATCH BASIN
D-CB-12RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RB	03-11-14	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RC	03-11-14	STANDARD PRECAST 84" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN

STANDARD BRIDGE DRAWINGS

DWG. NO.	REV.	DESCRIPTION
STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-17-51	05-01-14	BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60' FILL
STD-17-52		BOX BRIDGE, 1 BARREL AT 8', CLEAR HTS. 3' - 5', 0 - 60' FILL
STD-17-54		BOX BRIDGE, 1 BARREL AT 10', CLEAR HTS. 4' - 6', 0 - 60' FILL
STD-17-57		BOX BRIDGE, 1 BARREL AT 12', CLEAR HTS. 7' - 9', 0 - 60' FILL
STD-17-65		BOX BRIDGE, 1 BARREL AT 18', CLEAR HTS. 6' - 8', 0 - 60' FILL



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

D-CB-12SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-14P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 14RB CATCH BASIN
D-CB-14S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 14 CATCH BASIN
D-CB-42RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	03-11-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-43R	03-11-14	STANDARD PRECAST CIRCULAR NO. 43R CATCH BASIN
D-CB-43SB	03-11-14	STANDARD 8' X 4' RECTANGULAR CONCRETE NO. 43SB CATCH BASIN
D-CB-43SC	03-11-14	STANDARD 8' X 5'2" RECTANGULAR CONCRETE NO. 43SC CATCH BASIN
D-CB-99	05-20-14	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CB-99R	03-11-14	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-CB-99RA	03-19-14	BILL OF STEEL FOR ROUND CATCH BASIN LIDS
D-CBB-12A	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16, AND 17 TYPE CATCH BASINS
D-CBB-12B	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & 6" MOUNTABLE INLET DETAILS FOR NOS. 25, 26 AND 27 TYPE CATCH BASINS
D-CBB-12C	05-27-01	TYPE "B" CAST IRON FRAME, GRATE & 4" MOUNTABLE INLET DETAILS FOR NOS. 28 AND 29 TYPE CATCH BASINS
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS

MANHOLES

D-MH-2	02-02-16	STANDARD MASONRY & PRECAST NO. 3 MANHOLE
D-MH-3	04-21-14	STANDARD PRECAST CIRCULAR LID DETAILS FOR NO. 3 MANHOLE
D-MH-4	08-01-12	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-MH-5	04-01-14	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 3 MANHOLE
D-MH-6	04-01-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 3 MANHOLE
D-MH-7	04-01-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 3 MANHOLE
D-RF-1	02-02-16	STANDARD PRECAST RISER

SLOTTED AND TRENCH DRAINS

D-SLD-1	02-02-16	SLOTTED DRAINS
D-SLD-2	05-27-01	SLOTTED DRAINS
D-SLD-3	02-02-16	SLOTTED DRAINS

ROADWAY AND PAVEMENT APPURTENANCES

CONCRETE PAVEMENT

INTERSECTIONS

R ² -D-15	04-08-16	DETAILS OF STANDARD CONCRETE DRIVEWAYS
R ² -D-16	04-08-16	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
R ² -I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
R ² -R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS

CURBS

R ² -MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
R ² -NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
R ² -NMC-11	02-28-02	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS

SIDEWALKS

R ² -H-3	10-10-16	CURB RAMP AND TRUNCATED DOME SURFACE DETAIL
R ² -H-4	10-10-16	PERPENDICULAR CURB RAMP
R ² -H-5	10-10-16	PARALLEL CURB RAMP
R ² -H-6	10-10-16	PEDESTRIAN REFUGE
R ² -H-7	10-10-16	PERPENDICULAR CURB RAMP IN CURVE
R ² -H-8	10-10-16	PERPENDICULAR CURB RAMP PLACED OUTSIDE CURVE
R ² -H-9	10-10-16	PARALLEL CURB RAMP IN CURVE
R ² -S-7	02-05-16	DETAILS FOR CONCRETE SIDEWALKS

WALLS

W-CIP-1		ROADWAY FEATURES AT CAST IN PLACE RETAINING WALLS
W-MSE-1		ROADWAY FEATURES FOR MSE SEGMENTAL PRECAST FACING RETAINING WALL
W-MSE-2		ROADWAY FEATURES FOR MSE MODULAR BLOCK FACING RETAINING WALL
W-SG-1		STANDARD GRAVITY-TYPE RETAINING WALLS

SAFETY DESIGN AND FENCES

GUARDRAIL DETAILS

S-GR31-1	10-10-16	W-BEAM GUARDRAIL
S-GR31-1A		W-BEAM FASTENING HARDWARE
S-GRS-1	01-29-16	SPECIAL CASE: LONG SPAN GUARDRAIL, ONE SPAN OMITTED
S-GRS-2	05-25-16	SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRS-3		SPECIAL CASE: GUARDRAIL FOOTING
S-GRC-1	10-10-16	GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL

CLEAR ZONE AND SAFETY PLANS

S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2	10-10-16	SAFETY PLAN AT SIDEROADS OR PRIVATE DRIVES
S-PL-3	10-10-16	SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-6	10-10-16	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE

GUARDRAIL TERMINALS

S-GRT-2	04-04-16	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P	10-10-16	EARTH PAD FOR TYPE 38 TERMINAL
S-GRT-2R	10-10-16	EARTH PAD FOR TYPE 38 TERMINAL (RETROFIT)
S-GRT-3	10-10-16	TYPE 21 GUARDRAIL TERMINAL
S-GRT-4	10-10-16	TYPE 13 GUARDRAIL TERMINAL (TRAILING END)

GUARDRAIL ANCHORS

S-GRA-3	10-10-16	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	10-10-16	IN-LINE GUARDRAIL ANCHOR

CONCRETE MEDIAN BARRIERS

S-SSMB-3	07-16-13	51" HALF SIZE SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-6	10-10-16	GUARDRAIL ATTACHMENT TO SINGLE SLOPE CONCRETE BARRIER WALL

BICYCLE/PEDESTRIAN RAIL

S-BPR-1	02-05-16	BIKE/PEDESTRIAN SAFETY RAIL
---------	----------	-----------------------------

FENCE AND RIGHT-OF-WAY MARKERS

S-F-1	05-24-12	HIGH VISIBILITY FENCE
-------	----------	-----------------------

DESIGN – TRAFFIC CONTROL

PAVEMENT MARKINGS

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-M-10	06-15-12	SIGNING AND PAVEMENT MARKINGS FOR SHARED-USE PATHS

WORK ZONES

T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-30	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)
T-WZ-36	04-02-12	LANE CLOSURE ON LOW-VOLUME 2-LANE HIGHWAY
T-WZ-40	04-02-12	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	04-02-12	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-42	04-02-12	CENTER LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-55	10-10-16	SIDEWALK TRAFFIC CONTROL

EROSION PREVENTION AND SEDIMENT CONTROL

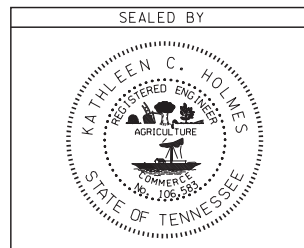
DEWATERING DEVICES

EC-STR-1	08-01-12	DEWATERING STRUCTURE
EC-STR-2	08-01-12	SEDIMENT FILTER BAG

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	1B

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.)

S.R. 247



SLOPE DEVICES

EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3D	04-01-08	ENHANCED SILT FENCE
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-29	08-01-12	PERMANENT SLOPE DRAIN PIPE
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE

DITCH DEVICES

EC-STR-6	05-06-16	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-55	08-01-12	GABION CHECK DAM
EC-STR-56	04-01-08	GABION CHECK DAM DESIGN TABLES
EC-STR-57	04-01-08	GABION ASSEMBLY DETAILS
EC-STR-58	04-01-08	GABION ASSEMBLY DETAILS
EC-STR-59	08-01-12	GABION CHECK DAM GENERAL NOTES AND COMPONENT PROPERTIES

INLET PROTECTION

EC-STR-11	08-01-12	CULVERT PROTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-39	08-01-12	CURB INLET PROTECTION TYPE 1 & 2
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STE-40		CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-43		CATCH BASIN FILTER ASSEMBLY (TYPE 3)
EC-STR-43A		CATCH BASIN FILTER ASSEMBLY (TYPE 3) SLIPCOVER DETAILS
EC-STR-44		CATCH BASIN FILTER ASSEMBLY (TYPE 4)
EC-STR-44A		CATCH BASIN FILTER ASSEMBLY (TYPE 4) SLIPCOVER DETAILS
EC-STR-45		CATCH BASIN FILTER ASSEMBLY (TYPE 5)
EC-STR-45A		CATCH BASIN FILTER ASSEMBLY (TYPE 5) SLIPCOVER DETAILS
EC-STR-46		CATCH BASIN FILTER ASSEMBLY (TYPE 6)
EC-STR-46A		CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)
EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS
EC-STR-48		CATCH BASIN FILTER ASSEMBLY (TYPE 8)
EC-STR-48A		CATCH BASIN FILTER ASSEMBLY (TYPE 8) SLIPCOVER DETAILS
EC-STR-49		CATCH BASIN FILTER ASSEMBLY (TYPE 9)
EC-STR-49A		CATCH BASIN FILTER ASSEMBLY (TYPE 9) SLIPCOVER DETAILS

EC-STR-50		CATCH BASIN FILTER ASSEMBLY (TYPE 10)
EC-STR-50A		CATCH BASIN FILTER ASSEMBLY (TYPE 10) SLIPCOVER DETAILS
EC-STR-51		CATCH BASIN FILTER ASSEMBLY (TYPE 11)
EC-STR-51A		CATCH BASIN FILTER ASSEMBLY (TYPE 11) SLIPCOVER DETAILS

IN-STREAM DEVICES

EC-STR-11A	08-01-12	CULVERT PROTECTION TYPE 2
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-33	08-01-12	SUSPENDED PIPE DIVERSION (DOWNSTREAM)
EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSION (UPSTREAM)
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION

SIGNS

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-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 AND DETAILS
T-S-16A	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-02-15	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
I-S-18	02-14-14	END OF ROADWAY AND DEAD END SIGNS, METAL BARRICADES (TYPE III) & WORK ZONE SPEED SIGNS
T-S-19	07-19-15	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-S-23A	07-02-15	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY SQUARE TUBE SIGN SUPPORT
T-S-23B	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY STRUCTURAL PIPE SIGN SUPPORT
T-S-23C	07-02-15	BREAKWAY U-POST SIGN SUPPORTS

SIGNALS

T-SG-1	06-27-16	WOOD POLE, DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-2	06-27-16	LOOP LEAD-INS CONDUIT AND PULL BOXES
T-SG-3	06-27-16	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A	06-27-16	ALTERNATE DETECTION DETAILS
T-SG-4	06-27-16	SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	06-27-16	CONTROLLER CABINET DETAILS
T-SG-6		PEDESTRIAN SIGNAL DETAILS

T-SG-7	06-27-16	SIGNAL HEAD ASSEMBLIES
T-SG-7A		TYPICAL SIGNAL HEAD PLACEMENT – APPROACHES WITH NO THROUGH MOVEMENTS
T-SG-7B		TYPICAL SIGNAL HEAD PLACEMENT – APPROACHES WITH NO THROUGH MOVEMENTS
T-SG-7C		TYPICAL SIGNAL HEAD PLACEMENT – ONE-LANE AND TWO-LANE APPROACHES
T-SG-7D		TYPICAL SIGNAL HEAD PLACEMENT – TWO-LANE APPROACHES
T-SG-8	06-27-16	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9	06-27-16	DETAILS OF CANTILEVER SIGNAL SUPPORT
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-11	06-27-16	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	06-27-16	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
T-SG-13	06-27-16	FLASHING BEACON DETAIL

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	1C

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**INDEX AND
STANDARD
DRAWINGS**

ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
201-01	CLEARING AND GRUBBING	LS	1
202-02.16	REMOVAL OF BUILDINGS (TRACT NO. 12)	LS	1
202-02.17	REMOVAL OF BUILDINGS (TRACT NO. 30)	LS	1
202-02.18	REMOVAL OF BUILDINGS (TRACT NO. 31)	LS	1
202-02.19	REMOVAL OF BUILDINGS (TRACT NO. 34)	LS	1
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	31,988
203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	10,079
203-04	PLACING AND SPREADING TOPSOIL	C.Y.	17,217
203-06	WATER	CY	885
204-08	FOUNDATION FILL MATERIAL	C.Y.	794
209-02.04	10" TEMPORARY SLOPE DRAIN	L.F.	1619
209-05	SEDIMENT REMOVAL	CY	5000
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	LF	11432
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	LF	6214
209-08.07	ROCK CHECK DAM	EACH	552
209-08.08	ENHANCED ROCK CHECK DAM	EACH	97
209-09.03	SEDIMENT FILTER BAG (15'X15')	EACH	12
209-20.03	POLYETHYLENE SHEETING (6 ML. MINIMUM)	SY	33
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	145
209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EACH	24
209-40.42	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EACH	157
209-40.43	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EACH	65
209-40.44	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EACH	26
209-40.45	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EACH	45
209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EACH	9
209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH	6
209-65.04	TEMPORARY IN STREAM DIVERSION	LF	860
303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	35,484
303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	5,060
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	3,840
307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	1,372
307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	6,749
307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	12,660
307-02.02	ASPHALT CEMENT (PG70-22) (BPMB-HM) GRADING A-S	TON	19
307-02.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	9,283
307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	8,294
402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	354
402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	128
403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	53
411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	89
411-01.10	ACS Mix (PG64-22) GRADING D	TON	2,938
411-02.10	ACS MIX (PG70-22) GRADING D	TON	4,964
415-01.01	COLD PLANING BITUMINOUS PAVEMENT	SY	1,533
604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	1,874
604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	388,744
604-01.20	BOX TUBE SAFETY RAIL	L.F.	611
604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	1,503
604-07.01	RETAINING WALL (WALL 1)	S.F.	147
604-07.02	RETAINING WALL (WALL 2)	S.F.	2,479
604-07.03	RETAINING WALL (WALL 3)	S.F.	1,705
604-07.04	RETAINING WALL (WALL 4)	S.F.	4,833
607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	11283
607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	5499
607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1409
607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1324
607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	338
607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	61
607-16.02	30"X 19" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	76
607-16.04	38"X 24" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	191
607-16.07	49"X 32" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	293
607-37.02	18" CORRUGATED METAL PIPE CULVERT	L.F.	16
607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	80
607-45.02	18" SLOTTED DRAIN PIPE	L.F.	40
611-01.01	MANHOLES, 0' - 4' DEPTH	EACH	1
611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	4
611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	2
611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	32
611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	338
611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	3
611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	3
611-07.65	36IN ENDWALL (CROSS DRAIN) 6:1	EACH	1
611-09.01	ADJUSTMENT OF EXISTING CATCHBASIN	EACH	6
611-10.01	CATCH BASINS, TYPE 10, 0' - 4' DEPTH	EACH	2
611-10.02	CATCH BASINS, TYPE 10, > 4' - 8' DEPTH	EACH	6
611-12.01	CATCH BASINS, TYPE 12, 0' - 4' DEPTH	EACH	70
611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	179
611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	5
611-12.04	CATCH BASINS, TYPE 12, > 12' - 16' DEPTH	EACH	4
611-14.01	CATCH BASINS, TYPE 14, 0' - 4' DEPTH	EACH	1
611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	40
611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH	1
611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	12
611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	12
611-43.02	CATCH BASINS, TYPE 43, > 4' - 8' DEPTH	EACH	1
620-03.10	CONCRETE PARAPET (STD-1-1)	L.F.	468
621-03.02	TEMPORARY DRAINAGE PIPE (18 INCH)	L.F.	213
621-03.11	TEMPORARY DRAINAGE PIPE (72 INCH)	L.F.	72

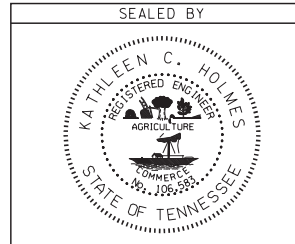
ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
701-01.01	CONCRETE SIDEWALK (4")	S.F.	87506
701-02	CONCRETE DRIVEWAY	S.F.	10836
701-02.03	CONCRETE HANDICAP RAMP	S.F.	17274
702-01	CONCRETE CURB	C.Y.	366
702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	2300
705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	162
705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	3537
705-04.03	GUARDRAIL TERMINAL (TYPE 13)	EACH	2
705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	8
705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350, TL3)	EACH	23
705-08.10	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	16
707-08.11	HIGH VISIBILITY CONSTRUCTION FENCE	LF	5,182
709-05.06	MACHINED RIP-RAP (CLASS A-3)	TON	901
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	3705
709-05.08	MACHINED RIP-RAP (CLASS B)	TON	397
709-05.09	MACHINED RIP-RAP (CLASS C)	TON	574
710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	34,950
712-01	TRAFFIC CONTROL	LS	1
712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	LF	5500
712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EA	2416
712-05.01	WARNING LIGHTS (TYPE A)	EA	48
712-05.03	WARNING LIGHTS (TYPE C)	EA	30
712-06	SIGNS (CONSTRUCTION)	SF	1506
712-06.01	VERTICAL PANELS	SF	152
712-07.03	TEMPORARY BARRICADES (TYPE III)	LF	457
712-08.03	ARROW BOARD (TYPE C)	EA	6
713-02.04	DELINEATOR (MILE MARKER) & STEEL POST	EA	4
713-11.01	"U" SECTION STEEL POST	LB	975
713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB	1477
713-13.02	FLAT SHEET ALUMINUM SIGNS (0.08" THICK)	SF	257
713-13.03	FLAT SHEET ALUMINUM SIGNS (0.10" THICK)	SF	259
713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EA	4
716-01.21	SNOWPLWBLE PVMT MRKRS (BI-DIR)(1 COLOR)	EA	581
716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	SY	121
716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	1213
716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EA	83
716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	EA	2407
716-04.01	PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EA	8
716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EA	15
716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	31
716-05.04	PAINTED PAVEMENT MARKING (CHANNELIZATION STRIPING)	S.Y.	363
716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	3639
716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EA	249
716-05.09	PAINTED PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EA	24
716-05.11	PAINTED PAVEMENT MARKING (STRAIGHT ARROW)	EA	45
716-05.21	PAINTED PAVEMENT MARKING (4" DOTTED LINE)	L.F.	176
716-05.22	PAINTED PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	4815
716-12.01	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN LINE)	L.M.	8
716-12.04	ENHANCED FLATLINE THERMO PVMT MRKNG (4IN DOTTED LINE)	L.F.	475
716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	1
716-13.04	SPRAY THERMO PVMT MRKNG (60 mil) (4IN DOTTED LINE)	L.F.	137
717-01	MOBILIZATION	LS	1
730-01.02	REMOVAL OF SIGNAL EQUIPMENT	EACH	1
730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	EACH	30
730-02.17	SIGNAL HEAD ASSEMBLY (150 A2 WITH BACKPLATE)	EACH	10
730-03.21	INSTALL PULL BOX (TYPE B)	EACH	25
730-03.23	INSTALL PULL BOX (FIBER OPTIC-TYPE A)	EACH	22
730-03.24	INSTALL PULL BOX (FIBER OPTIC-TYPE B)	EACH	5
730-05.01	ELECTRICAL SERVICE CONNECTION	EACH	5
730-08.01	SIGNAL CABLE - 3 CONDUCTOR	L.F.	175
730-08.02	SIGNAL CABLE - 5 CONDUCTOR	L.F.	3975
730-08.03	SIGNAL CABLE - 7 CONDUCTOR	L.F.	6025
730-08.40	INTERCONNECT CABLE - FIBER OPTIC (24 SM)	L.F.	14950
730-08.41	INTERCONNECT CABLE - FIBER OPTIC (6-Fiber Drop)	L.F.	500
730-12.01	CONDUIT 1" DIAMETER (PVC)	L.F.	500
730-12.02	CONDUIT 2" DIAMETER (PVC)	L.F.	1645
730-12.08	CONDUIT 2" DIAMETER (RGS)	L.F.	3355
730-12.16	CONDUIT (2" Sch. 80 PVC)	L.F.	33360
730-13.01	VEHICLE LOOP DETECTOR (SHELF MOUNT)	EACH	37
730-14.01	SHIELDED DETECTOR CABLE	L.F.	5780
730-14.02	SAW SLOT	L.F.	6930
730-14.03	LOOP WIRE	L.F.	17100
730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	EACH	5
730-16.02	EIGHT PHASE ACTUATED CONTROLLER	EACH	5
730-16.25	INSTALLATION OF CABINET AND CONTROLLER	EACH	5
730-23.64	CANTI_LEVER SIGNAL SUPPORT (1 @ 30')	EACH	2
730-23.96	CANTI_LEVER SIGNAL SUPPORT (1 @ 65')	EACH	4
730-23.97	CANTI_LEVER SIGNAL SUPPORT (1 @ 60')	EACH	4
730-23.98	CANTI_LEVER SIGNAL SUPPORT (1 @ 60')	EACH	5
730-23.99	CANTI_LEVER SIGNAL SUPPORT (1 @ 55')	EACH	6
730-24.02	FOUNDATION (TRAFFIC SIGNAL CONTROLLER)	EACH	5
730-26.03	PEDESTRIAN SIGNAL HEAD, PUSHBUTTON & 12" SIGN	EACH	34
730-35.06	BATTERY BACK-UP AND POWER CONDITIONER	EACH	5
740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	18,618
740-11.03	TEMPORARY SEDIMENT TUBE (18 IN)	LF	40,200
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	1,100
801-02	SEEDING (WITHOUT MULCH)	UNIT	3,920
801-03	WATER (SEEDING & SODDING)	M.G.	146
803-01	SODDING (NEW SOD)	S.Y.	46,065
805-01.01	TURF REINFORCEMENT MAT (CLASS I)	S.Y.	4,652
805-01.02	TURF REINFORCEMENT MAT (CLASS II)	S.Y.	7
805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	116,137
920-08.18	TEMPORARY SHORING	LS	1

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	2A

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

**CONST.
FIELD
REVIEW**



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
**ESTIMATED
ROADWAY
QUANTITIES**

FOOTNOTES

- ① BID PRICE INCLUDES ALL SALVAGE VALUE OF MATERIAL. SEE TABULATED QUANTITIES SHEET 2U FOR REMOVAL OF BUILDINGS AND OBSTRUCTIONS DESCRIPTION BLOCK.
- ② INCLUDES 6,193 CY FOR TEMPORARY BERM.
- ③ INCLUDES 53 CY FOR 10'X5' REINF. CONC. BOX CULVERT, 81 CY FOR 18'X17' CONC. BOX BRIDGE, 142 CY FOR 3@16'X9' BOX CULVERT EXT., 48 CY OF 12'X8' REINF. CONCRETE BOX CULVERT, 433 CY FOR 6'X4' REINF. CONC. BOX CULVERT, 21 CY FOR 8'X4' REINF. CONC. BOX CULVERT, 16 CY FOR 2@ 8'X4' REINF. CONC. BOX CULVERT.
- ④ MAY BE INCREASED OR DECREASED BY THE T.D.O.T. SUPERVISOR.
- ⑤ SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- ⑥ INCLUDES 404 TONS FOR 10'X5' REINF. CONC. BOX CULVERT, 126 TONS FOR 2@16'X7' CONC. SLAB BRIDGE EXT., 195 TONS FOR 18'X17' CONC. BOX BRIDGE, 361 TONS FOR 3@16'X9' BOX CULVERT EXT., 303 TONS OF 12'X8' REINF. CONCRETE BOX CULVERT, 3141 TONS FOR 6'X4' REINF. CONC. BOX CULVERT, 470 TONS FOR 8'X4' REINF. CONC. BOX CULVERT, 62 TONS FOR 2@ 8'X4' REINF. CONC. BOX CULVERT.
- ⑦ INCLUDES 6,000 TONS FOR MAINTENANCE OF TRAFFIC AND 13.425 TONS FOR TEMPORARY WIDENING.
- ⑧ FOR EROSION CONTROL.
- ⑨ INCLUDES 104 CY FOR 10'X5' REINF. CONC. BOX CULVERT, 169 CY FOR 2@16'X7' CONC. SLAB BRIDGE EXT., 232 CY FOR 18'X17' CONC. BOX BRIDGE, 428 CY FOR 3@16'X9' BOX CULVERT EXT., 135 CY OF 12'X8' REINF. CONCRETE BOX CULVERT, 710 CY FOR 6'X4' REINF. CONC. BOX CULVERT, 45 CY FOR 8'X4' REINF. CONC. BOX CULVERT, 52 CY FOR 2@ 8'X4' REINF. CONC. BOX CULVERT.
- ⑩ INCLUDES 104 CY FOR 10'X5' REINF. CONC. BOX CULVERT, 169 CY FOR 2@16'X7' CONC. SLAB BRIDGE EXT., 232 CY FOR 18'X17' CONC. BOX BRIDGE, 428 CY FOR 3@16'X9' BOX CULVERT EXT., 135 CY OF 12'X8' REINF. CONCRETE BOX CULVERT, 710 CY FOR 6'X4' REINF. CONC. BOX CULVERT, 45 CY FOR 8'X4' REINF. CONC. BOX CULVERT, 52 CY FOR 2@ 8'X4' REINF. CONC. BOX CULVERT.
- ⑪ COST OF REMOVING SEDIMENT FROM EXISTING BOX CULVERTS SHALL NOT BE PAID FOR DIRECTLY BUT INCLUDED IN THE COST OF OTHER ITEMS.
- ⑫ THE COST OF TYING PROPOSED PIPES INTO EXISTING CATCH BASINS WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT INCLUDED IN THE COST OF THE PIPE.
- ⑬ THIS ITEM SHALL BE A PORTABLE ENERGY ABSORGING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD-GUARD, A REACT 350 OR A TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN IN THE MANUFACTURER'S DRAWINGS.
- ⑭ FOR EROSION CONTROL.
- ⑮ FOR APRONS AT PIPE OUTLETS.
- ⑯ WHERE UNDERDRAIN TIES TO PROPOSED DRAINAGE SYSTEM, THE COST WILL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT THE COST SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 710-02, AGGREGATE UNDERDRAIN (WITH PIPE).
- ⑰ TWO TYPE "A" WARNING LIGHTS TO BE MOUNTED ON EACH "ROAD CLOSED" SIGN.
- ⑱ SEE MAINTENANCE OF TRAFFIC PLAN.
- ⑲ REMOVE EXISTING SIGNALS AT DUPLEX ROAD (SR 247) AND MAIN STREET (US 31).
- ⑳ COST OF SIGNAL HEADS SHALL INCLUDE MOUNTING HARDWARE.
- ㉑ CONTRACTOR IS RESPONSIBLE FOR ELECTRICAL SERVICE AND ANY ASSOCIATED FEES.
- ㉒ COST OF CABINET INCLUDES CONTROLLER AND CABINET FOUNDATION. CABINETS AND CONTROLLER: SIGNAL LOOP SYSTEM. CABINET SHALL INCLUDE CONTROLLER AND ALL DEVICES FOR F.O. COMMUNI
- ㉓ ANY COST ASSOCIATED WITH FOUNDATION AND POLE DESIGN SHALL BE INCLUDED IN THIS ITEM. ITE AND POLE INSTALLATION.

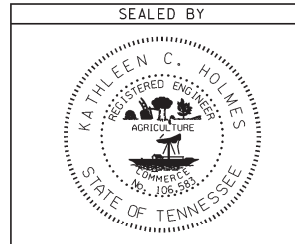
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	2A-1

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.)

S.R. 247

**CONST.
FIELD
REVIEW**

12/28/26 PM MA_Spring_Hill.duplicate Road\Sheets\002Al-Rdw\luon.dgn

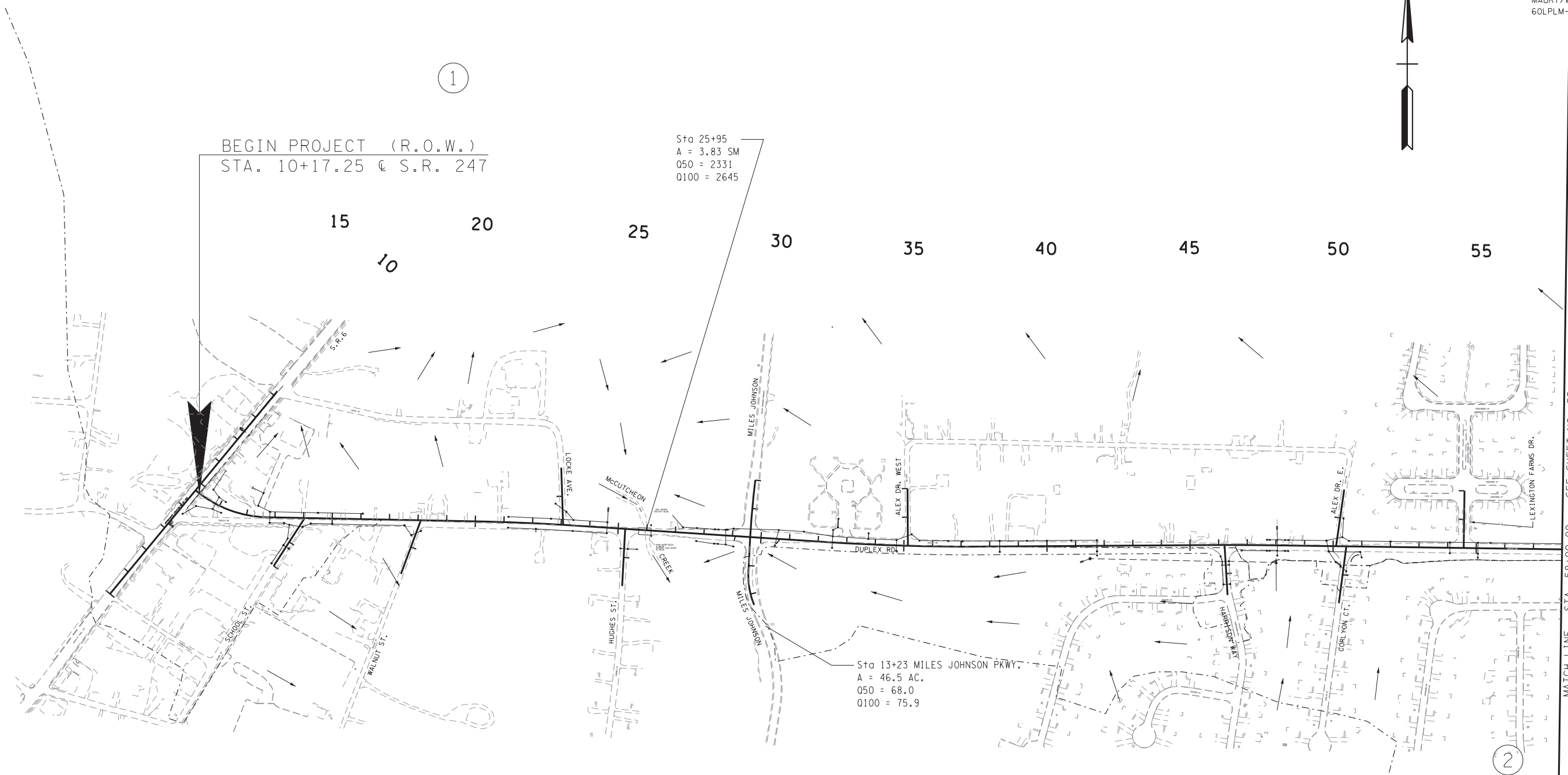


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**ESTIMATED
ROADWAY
QUANTITIES**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	34
CONST.	2017	STP-M-247(9)	34

MAURY/WILLIAMSON CO. S.R. 247
60LPLM-F2-019 (R.O.W.)



①

BEGIN PROJECT (R.O.W.)
STA. 10+17.25 @ S.R. 247

Sta 25+95
A = 3.83 SM
050 = 2331
0100 = 2645

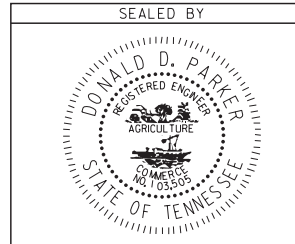
Sta 13+23 MILES JOHNSON PKWY.
A = 46.5 AC.
050 = 68.0
0100 = 75.9

**CONST.
FIELD
REVIEW**

DRAINAGE AREA	AREA	050 (CFS)	0100 (CFS)	C	T _c (MIN.)
①	3.84 SM	2332	2646		
②	46.5 AC	68	75.9	0.30	31.1

MATCH LINE STA. 58+00.00 SEE SHEET NO. 35

②



COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

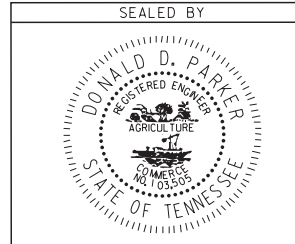
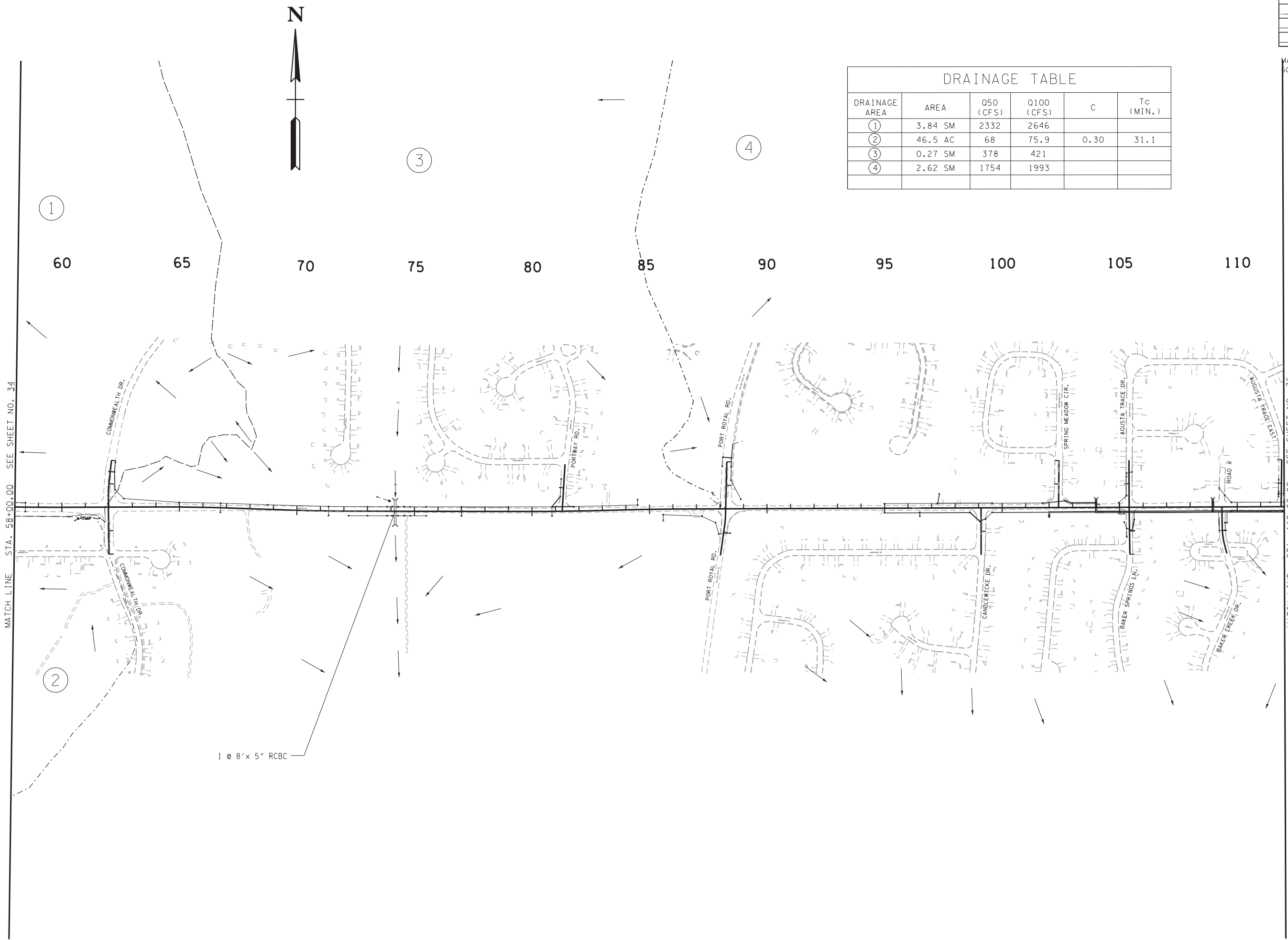
**DRAINAGE
MAP**
STA. 10+17.25 TO STA. 58+00
SCALE: 1"=200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	35
CONST.	2017	STP-M-247(9)	35

MAURY/WILLIAMSON CO. S.R. 247
SOLPLM-F2-019 (R.O.W.)

DRAINAGE AREA	AREA	050 (CFS)	0100 (CFS)	C	Tc (MIN.)
①	3.84 SM	2332	2646		
②	46.5 AC	68	75.9	0.30	31.1
③	0.27 SM	378	421		
④	2.62 SM	1754	1993		

**CONST.
FIELD
REVIEW**



COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

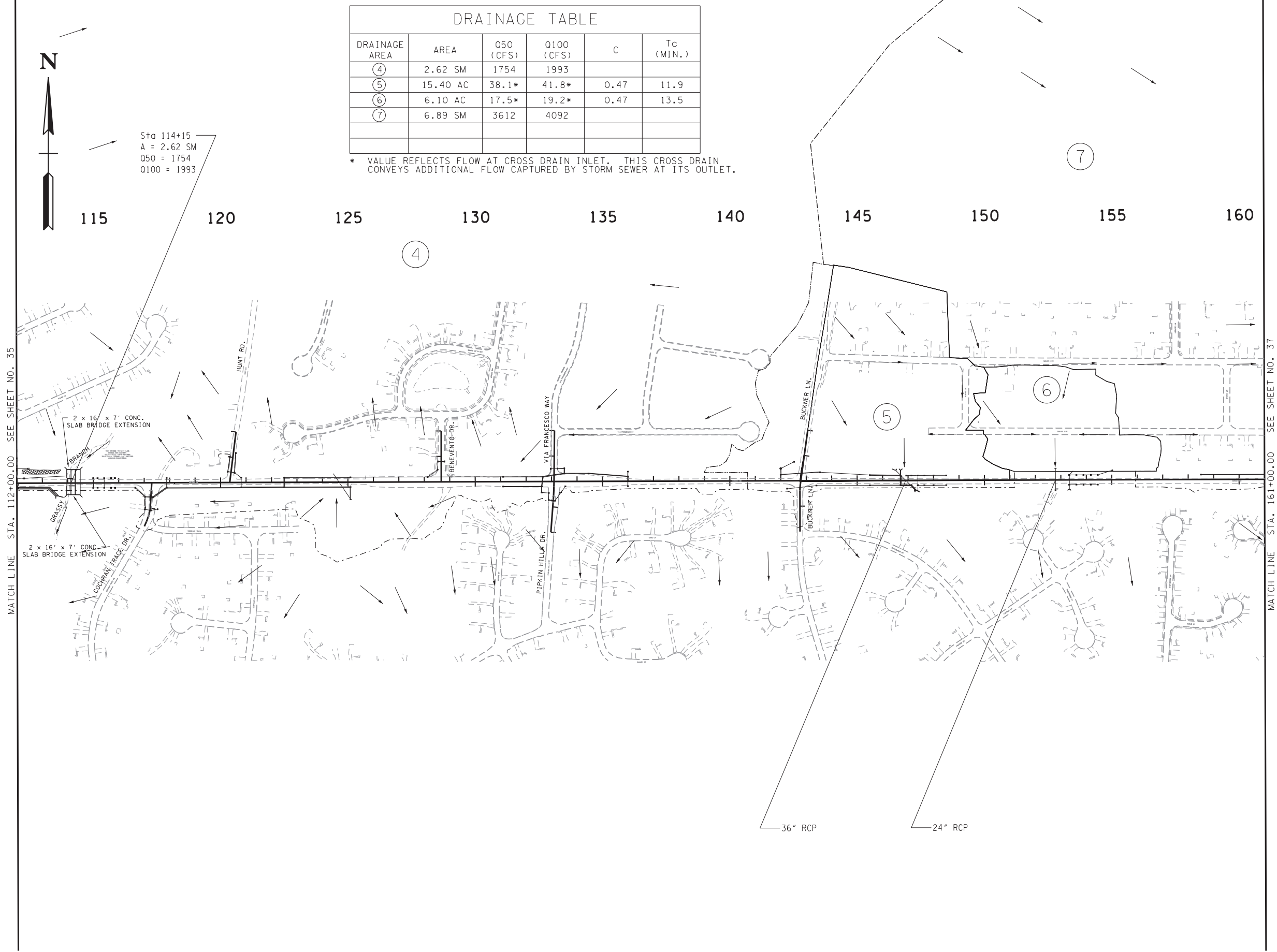
**DRAINAGE
MAP**
STA. 58+00 TO STA. 112+00
SCALE: 1"=200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	36
CONST.	2017	STP-M-247(9)	36

MAURY/WILLIAMSON CO. S.R. 247
60LPLM-F2-019 (R.O.W.)

DRAINAGE AREA	AREA	Q50 (CFS)	Q100 (CFS)	C	Tc (MIN.)
④	2.62 SM	1754	1993		
⑤	15.40 AC	38.1*	41.8*	0.47	11.9
⑥	6.10 AC	17.5*	19.2*	0.47	13.5
⑦	6.89 SM	3612	4092		

* VALUE REFLECTS FLOW AT CROSS DRAIN INLET. THIS CROSS DRAIN CONVEYS ADDITIONAL FLOW CAPTURED BY STORM SEWER AT ITS OUTLET.

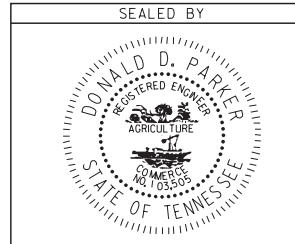


Sta 114+15
A = 2.62 SM
Q50 = 1754
Q100 = 1993

**CONST.
FIELD
REVIEW**

MATCH LINE STA. 112+00.00 SEE SHEET NO. 35

MATCH LINE STA. 161+00.00 SEE SHEET NO. 37



COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

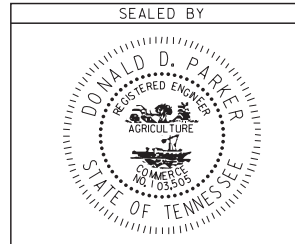
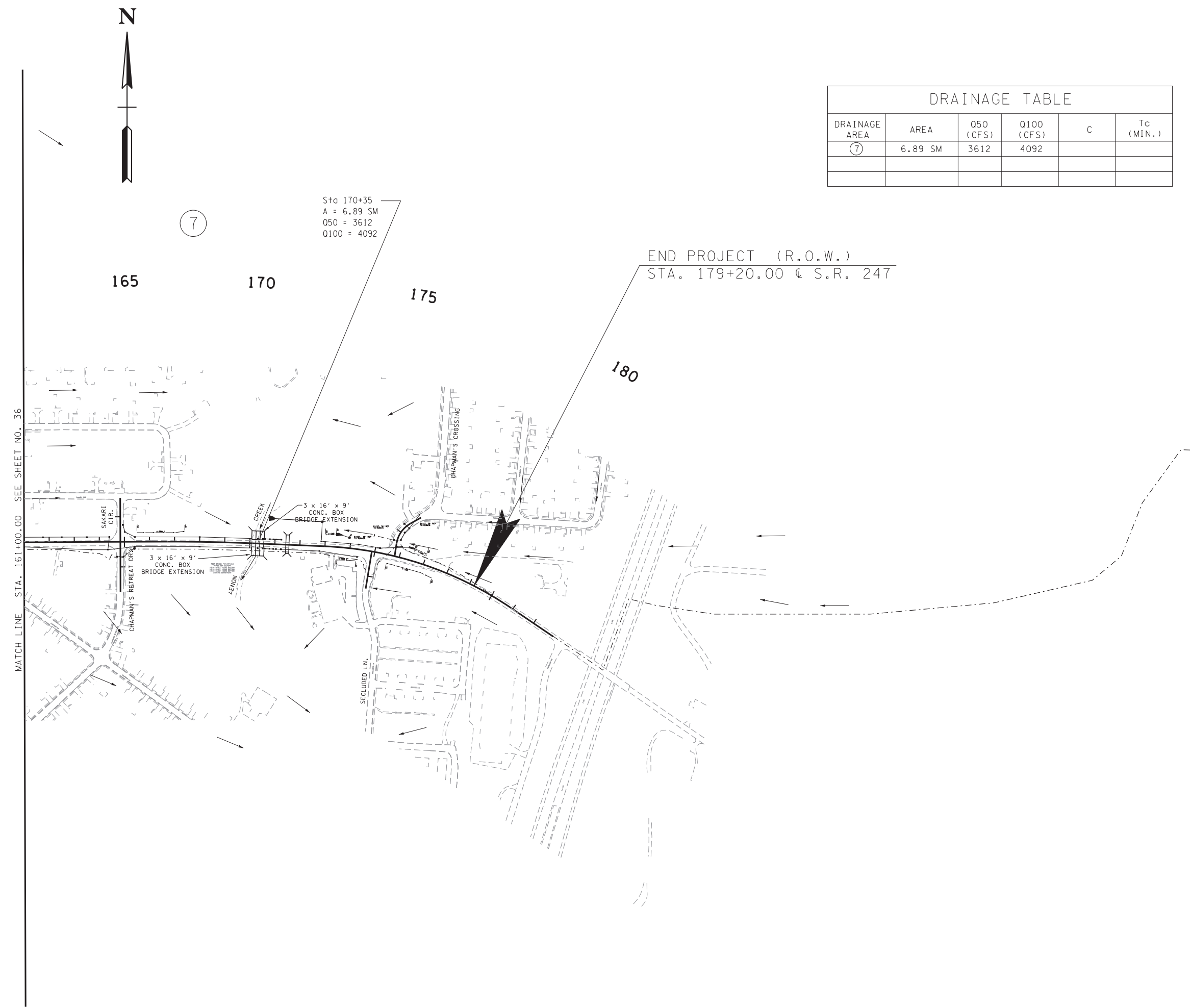
**DRAINAGE
MAP**
STA. 112+00 TO STA. 161+00
SCALE: 1"=200'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	37
CONST.	2017	STP-M-247(9)	37

MAURY/WILLIAMSON CO. S.R. 247
60LPLM-F2-019 (R.O.W.)

DRAINAGE TABLE					
DRAINAGE AREA	AREA	Q50 (CFS)	Q100 (CFS)	C	Tc (MIN.)
⑦	6.89 SM	3612	4092		

**CONST.
FIELD
REVIEW**



COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TCRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

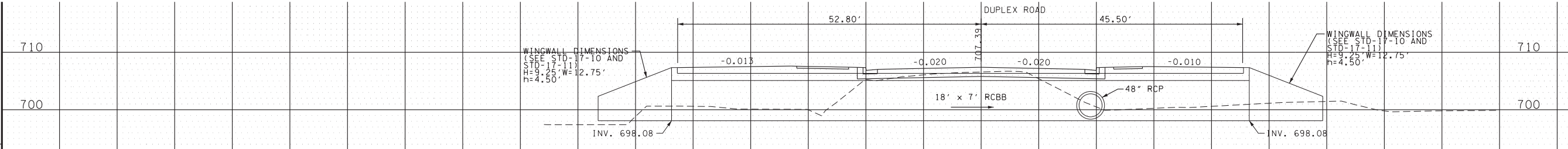
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**DRAINAGE
MAP**
STA. 161+00 TO STA. 179+20
SCALE: 1"=200'

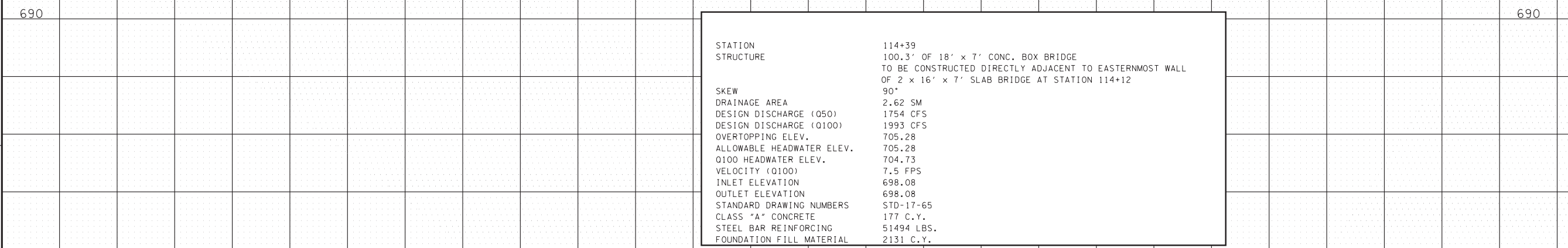
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	38
CONST.	2017	STP-M-247(9)	38

MAURY/WILLIAMSON CO.
60020-3201 54 (CONST.) S.R. 247

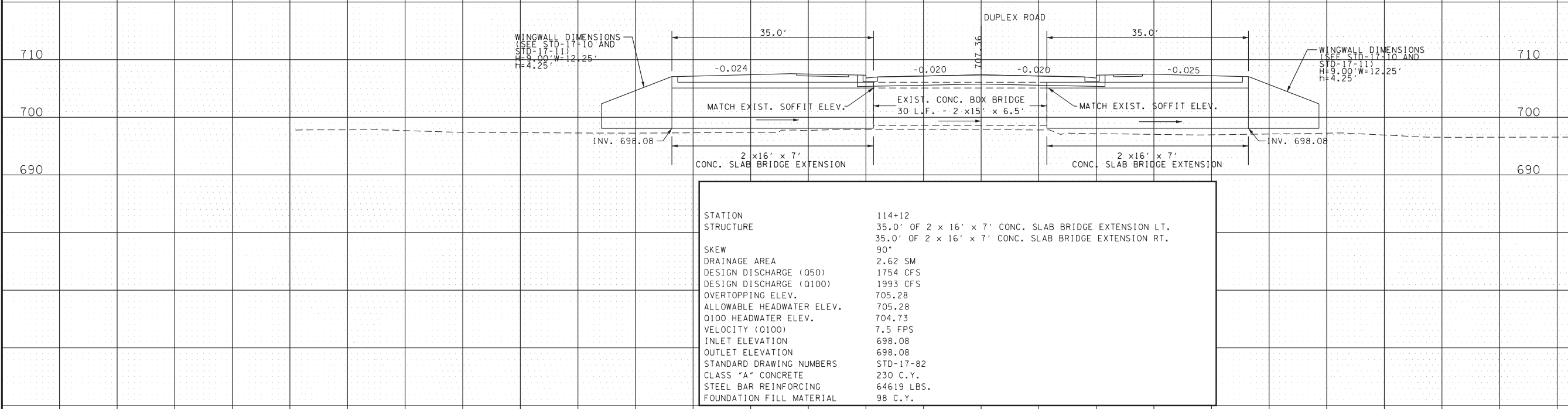
TENNESSEE D.O.T. DESIGN DIVISION FILE NO.



STATION	114+39
STRUCTURE	100.3' OF 18' x 7' CONC. BOX BRIDGE TO BE CONSTRUCTED DIRECTLY ADJACENT TO EASTERNMOST WALL OF 2 x 16' x 7' SLAB BRIDGE AT STATION 114+12
SKEW	90°
DRAINAGE AREA	2.62 SM
DESIGN DISCHARGE (050)	1754 CFS
DESIGN DISCHARGE (0100)	1993 CFS
OVERTOPPING ELEV.	705.28
ALLOWABLE HEADWATER ELEV.	705.28
0100 HEADWATER ELEV.	704.73
VELOCITY (0100)	7.5 FPS
INLET ELEVATION	698.08
OUTLET ELEVATION	698.08
STANDARD DRAWING NUMBERS	STD-17-65
CLASS "A" CONCRETE	177 C.Y.
STEEL BAR REINFORCING	51494 LBS.
FOUNDATION FILL MATERIAL	2131 C.Y.

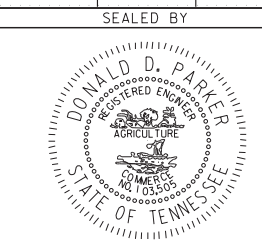


STATION	114+12
STRUCTURE	35.0' OF 2 x 16' x 7' CONC. SLAB BRIDGE EXTENSION LT. 35.0' OF 2 x 16' x 7' CONC. SLAB BRIDGE EXTENSION RT.
SKEW	90°
DRAINAGE AREA	2.62 SM
DESIGN DISCHARGE (050)	1754 CFS
DESIGN DISCHARGE (0100)	1993 CFS
OVERTOPPING ELEV.	705.28
ALLOWABLE HEADWATER ELEV.	705.28
0100 HEADWATER ELEV.	704.73
VELOCITY (0100)	7.5 FPS
INLET ELEVATION	698.08
OUTLET ELEVATION	698.08
STANDARD DRAWING NUMBERS	STD-17-82
CLASS "A" CONCRETE	230 C.Y.
STEEL BAR REINFORCING	64619 LBS.
FOUNDATION FILL MATERIAL	98 C.Y.



STATION	74+05
STRUCTURE	93.4' OF 10' x 5' REINF. CONC. BOX CULVERT
SKEW	90°
DRAINAGE AREA	0.27 SM
DESIGN DISCHARGE (050)	378 CFS
DESIGN DISCHARGE (0100)	421 CFS
OVERTOPPING ELEV.	736.9
ALLOWABLE HEADWATER ELEV.	734.6
050 HEADWATER ELEV.	730.5
0100 HEADWATER ELEV.	733.8
VELOCITY (050)	11.9
VELOCITY (0100)	12.3
INLET ELEVATION	724.80
OUTLET ELEVATION	724.40
STANDARD DRAWING NUMBERS	STD-17-54
CLASS "A" CONCRETE	111 C.Y.
STEEL BAR REINFORCING	23852 LBS.
FOUNDATION FILL MATERIAL	56 C.Y.

**CONST.
FIELD
REVIEW**



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**CULVERT
CROSS-
SECTIONS**

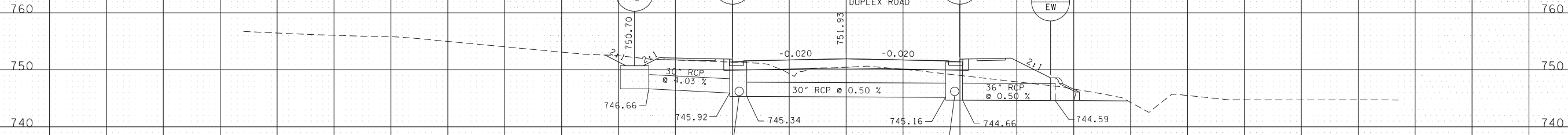
SCALE: 1"=10' HORIZ.
1"=10' VERT.

14:44:38 PM Ma_Spring Hill\duplex Road\Sheets\038.cxs.dgn

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	39
CONST.	2017	STP-M-247(9)	39

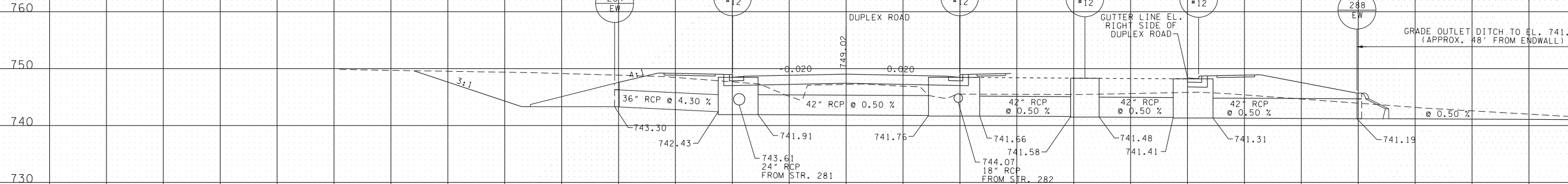
MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247

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



STATION	152+79
STRUCTURE	53 L.F. OF 30" RCP, 16 L.F. OF 36" RCP
SKEW	90°
DRAINAGE AREA	5.40 AC (AT INLET) 0.70 AC (ADDITIONAL CAPTURED IN STORM PRIOR TO OUTLET)
DESIGN DISCHARGE (050)	17.5 CFS (4.1 CFS ADDITIONAL CAPTURED IN STORM SEWER PRIOR TO OUTLET)
DESIGN DISCHARGE (0100)	19.2 CFS (4.5 CFS ADDITIONAL CAPTURED IN STORM SEWER PRIOR TO OUTLET)
OVERTOPPING ELEV.	751.70
ALLOWABLE HEADWATER ELEV.	749.70
050 HEADWATER ELEV.	749.10
0100 HEADWATER ELEV.	749.30
VELOCITY (050)	3.4 (BASED ON TOTAL 21.6 CFS AT OUTLET)
VELOCITY (0100)	3.4 (BASED ON TOTAL 23.7 CFS AT OUTLET)
INLET ELEVATION	747.00
OUTLET ELEVATION	744.59
STANDARD DRAWING NUMBERS	D-PB-1, D-PE-1, (36" TYPE A EW @ 90° RT.)
CLASS "A" CONCRETE	3.89 C.Y.
STEEL BAR REINFORCING	73 LBS.

**CONST.
FIELD
REVIEW**



STATION	146+71
STRUCTURE	19 L.F. OF 36" RCP, 73 L.F. OF 42" RCP
SKEW	90°
DRAINAGE AREA	10.32 AC (AT INLET) 4.24 AC (ADDITIONAL CAPTURED IN STORM SEWER PRIOR TO OUTLET)
DESIGN DISCHARGE (050)	35.4 CFS (18.7 CFS ADDITIONAL CAPTURED IN STORM SEWER PRIOR TO OUTLET)
DESIGN DISCHARGE (0100)	38.8 CFS (21.1 CFS ADDITIONAL CAPTURED IN STORM SEWER PRIOR TO OUTLET)
OVERTOPPING ELEV.	748.68
ALLOWABLE HEADWATER ELEV.	746.70
050 HEADWATER ELEV.	746.60
0100 HEADWATER ELEV.	746.90
VELOCITY (050)	5.6 (BASED ON TOTAL 54.1 CFS AT OUTLET)
VELOCITY (0100)	6.2 (BASED ON TOTAL 59.4 CFS AT OUTLET)
INLET ELEVATION	743.30
OUTLET ELEVATION	741.25
STANDARD DRAWING NUMBERS	D-PB-1, D-PE-1, (36" TYPE A EW @ 90° LT., 42" TYPE A EW @ 45° RT.)
CLASS "A" CONCRETE	10.14 C.Y.
STEEL BAR REINFORCING	178.00 LBS.

SEALED BY

DONALD D. PARKER
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE

KATHLEEN C. HOLMES
REGISTERED ENGINEER
AGRICULTURE
STATE OF TENNESSEE

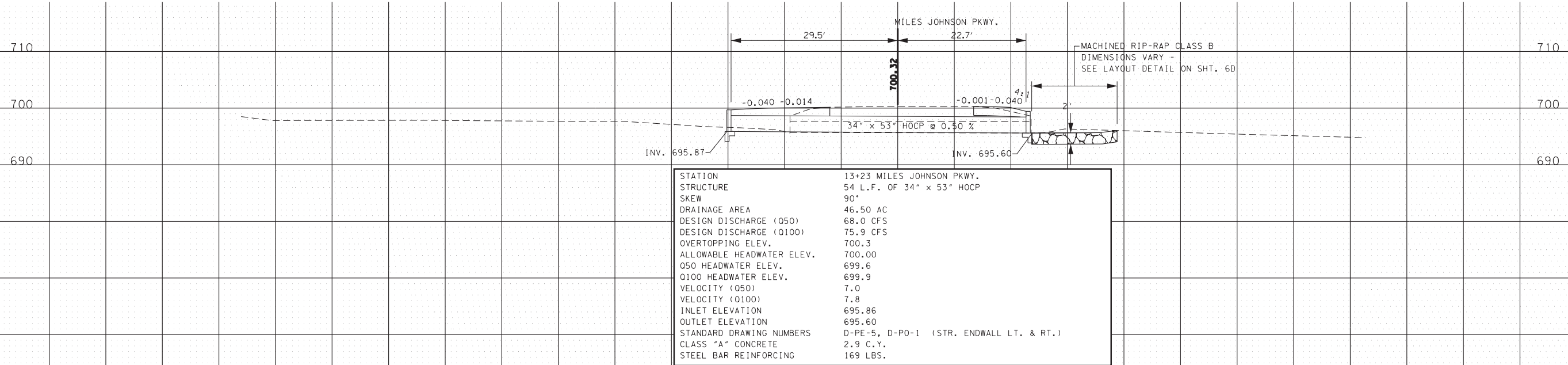
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**CULVERT
CROSS-
SECTIONS**

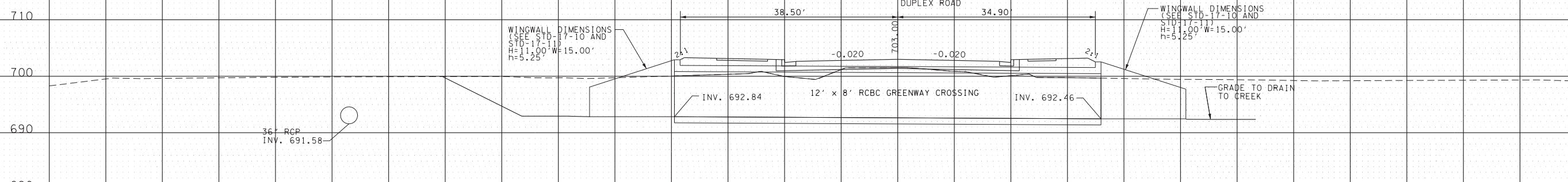
SCALE: 1"=10' HORIZ.
1"=10' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	40
CONST.	2017	STP-M-247(9)	40

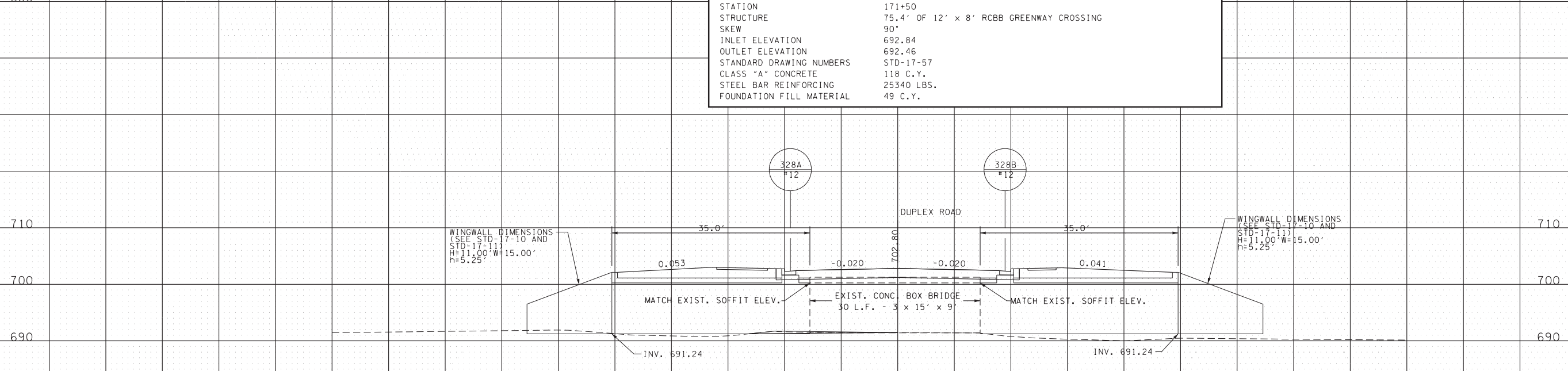
MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247



STATION	13+23 MILES JOHNSON PKWY.
STRUCTURE	54 L.F. OF 34' x 53' HOCP
SKEW	90°
DRAINAGE AREA	46.50 AC
DESIGN DISCHARGE (050)	68.0 CFS
DESIGN DISCHARGE (0100)	75.9 CFS
OVERTOPPING ELEV.	700.3
ALLOWABLE HEADWATER ELEV.	700.00
050 HEADWATER ELEV.	699.6
0100 HEADWATER ELEV.	699.9
VELOCITY (050)	7.0
VELOCITY (0100)	7.8
INLET ELEVATION	695.86
OUTLET ELEVATION	695.60
STANDARD DRAWING NUMBERS	D-PE-5, D-PO-1 (STR. ENDWALL LT. & RT.)
CLASS "A" CONCRETE	2.9 C.Y.
STEEL BAR REINFORCING	169 LBS.

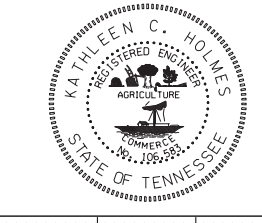
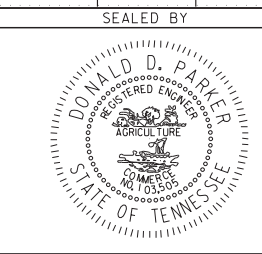


STATION	171+50
STRUCTURE	75.4' OF 12' x 8' RCBB GREENWAY CROSSING
SKEW	90°
INLET ELEVATION	692.84
OUTLET ELEVATION	692.46
STANDARD DRAWING NUMBERS	STD-17-57
CLASS "A" CONCRETE	118 C.Y.
STEEL BAR REINFORCING	25340 LBS.
FOUNDATION FILL MATERIAL	49 C.Y.



STATION	170+35
STRUCTURE	35.0' OF 3 x 16' x 9' CONC. BOX BRIDGE EXTENSION LT. 35.0' OF 3 x 16' x 9' CONC. BOX BRIDGE EXTENSION RT.
SKEW	90°
DRAINAGE AREA	6.89 SM
DESIGN DISCHARGE (050)	3612 CFS
DESIGN DISCHARGE (0100)	4092 CFS
OVERTOPPING ELEV.	702.62
ALLOWABLE HEADWATER ELEV.	702.62
0100 HEADWATER ELEV.	702.68
VELOCITY (0100)	7.3 FPS
INLET ELEVATION	691.24
OUTLET ELEVATION	691.24
STANDARD DRAWING NUMBERS	STD-17-103
CLASS "A" CONCRETE	532 C.Y.
STEEL BAR REINFORCING	122942 LBS.
FOUNDATION FILL MATERIAL	229 C.Y.

**CONST.
FIELD
REVIEW**



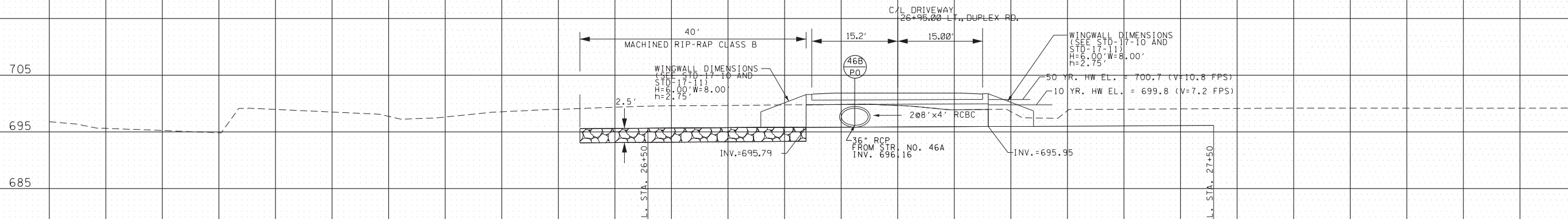
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**CULVERT
CROSS-
SECTIONS**
SCALE: 1"=10' HORIZ.
1"=10' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	40A
CONST.	2017	STP-M-247(9)	40A

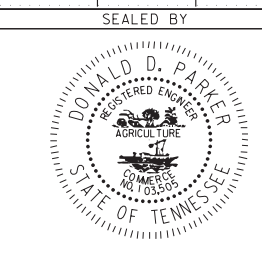
MAURY/WILLIAMSON CO. S.R. 247
60020-320154 (CONST.)

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



STATION	1+67.00_C/L_DRIVEWAY_@_26+95_LT.,_DUPLEX_ROAD
STRUCTURE	32.2-L.F._OF_2_@_8'X_4'_RCBC
SKEW	90°
DRAINAGE AREA	284.10_AC
DESIGN DISCHARGE (010)	309_CFS
DESIGN DISCHARGE (050)	465_CFS
OVERTOPPING ELEV.	703.35
ALLOWABLE HEADWATER ELEV.	701.35
010 HEADWATER ELEV.	699.8
050 HEADWATER ELEV.	700.7
VELOCITY (010)	7.2_FPS
VELOCITY (050)	10.8_FPS
INLET ELEVATION	695.95
OUTLET ELEVATION	695.79
STANDARD DRAWING NUMBERS	STD-17-72
CLASS "A" CONCRETE	52_C.Y.
STEEL BAR REINFORCING	12361_LBS.
FOUNDATION FILL MATERIAL	16_C.Y.

**CONST.
FIELD
REVIEW**



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

**CULVERT
CROSS-
SECTIONS**
SCALE: 1"=10' HORIZ.
1"=10' VERT.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAMS, WETLANDS & BUFFER ZONES

- (1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.
- (2) ONCE WATER IS DIVERTED INTO A NEWLY CONSTRUCTED AND STABILIZED RELOCATED STREAM/CHANNEL, THE ECOLOGY SECTION SHALL BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE NEWLY CONSTRUCTED STREAM/CHANNEL SHALL BE SUPPLIED WITH THE NOTIFICATION.

EROSION CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	2396	CY
209-02.05	12" TEMPORARY SLOPE DRAIN	2099	LF
209-02.06	15" TEMPORARY SLOPE DRAIN	260	LF
209-02.07	18" TEMPORARY SLOPE DRAIN	200	LF
209-05	SEDIMENT REMOVAL	821	CY
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	9562	LF
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	7212	LF
209-08.07	ROCK CHECK DAM	199	EACH
209-08.08	ENHANCED ROCK CHECK DAM	126	EACH
209-08.09	FILTER SOCK CHECK DAM	199	EACH
209-09.03	SEDIMENT FILTER BAG (15'X15')	6	EACH
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	33	SY
209-09.41	CURB INLET PROTECTION (TYPE 2)	48	EACH
209-09.43	CURB INLET PROTECTION (TYPE 4)	117	EACH
209-40.33	CATCH BASIN PROTECTION (TYPE D)	17	EACH
209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	15	EACH
209-40.42	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	122	EACH
209-40.43	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	64	EACH
209-40.44	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	17	EACH
209-40.45	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	29	EACH
209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	5	EACH
209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	2	EACH
209-65.03	TEMPORARY DIVERSION CHANNEL	30	LF
209-65.04	TEMPORARY IN STREAM DIVERSION	920	LF
303-10.01	MINERAL AGGREGATE (SIZE 57)	4030	TON
707-08.11	HIGH VISIBILITY CONSTRUCTION FENCE	5013	LF
709-05.05	MACHINED RIP-RAP (CLASS A-3)	1000	TON
709-05.06	MACHINED RIP-RAP (CLASS A-1)	2746	TON
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	10576	SY
740-11.02	TEMPORARY SEDIMENT TUBE (12 IN)	30725	LF
740-11.03	TEMPORARY SEDIMENT TUBE (18 IN)	37540	LF

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	TEMPORARY BERM	EC-STR-27
	TEMPORARY SLOPE DRAIN	EC-STR-27
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	TEMPORARY DIVERSION CHANNEL (RIP-RAP LINED DITCH; 5' WIDE, 4' DEEP)	EC-STR-31
- IN - DIV -	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	RIPRAP	EC-STR-27
	SEDIMENT FILTER BAG	EC-STR-2
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	EC-STR-43
	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	EC-STR-45
	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EC-STR-47
	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	EC-STR-48
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	CURB INLET PROTECTION (TYPE 2)	EC-STR-39
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	41

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.)

S.R. 247

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION
AND SEDIMENT
CONTROL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	41
CONST.	2017	STP-M-247(9)	42

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

94031-3209-54; 60020-3201-54
BEGIN PROJECT STP-M-247 (9)
STA. 10+17.25 (CONST.)
N 518086.7388
E 1693173.1120

60LPLM-F2-019
BEGIN PROJECT - STP-M-247 (9)
STA. 10+25.96 (R.O.W.)
N 518081.4816
E 1693180.0563

STA. 15+60.33 S.R. 6 =
STA. 10+00.00 S.R. 247
N 518097.5865
E 1693159.7013

NOTE: DO NOT DISTURB EXISTING DITCH OUTFALL 1
DURING THE CLEARING AND GRUBBING STAGE. MAINTAIN
FLOW IN A CLEAN DIVERSION WITH STABILIZED FLOW.

OUTFALLS STAGE I			
Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
1		6.3	5.0%
	1A	2.07	5.1%
	1B	0.15	2.0%
	1C	0.32	0.7%
	1D	0.65	2.0%
	1E	2.6	3.0%

MATCH LINE STA. 16+00.00 SEE SHEET NO. 42A

SEALED BY

COORDINATES ARE NAD 83 (1995),
AND ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00008 AND ARE TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

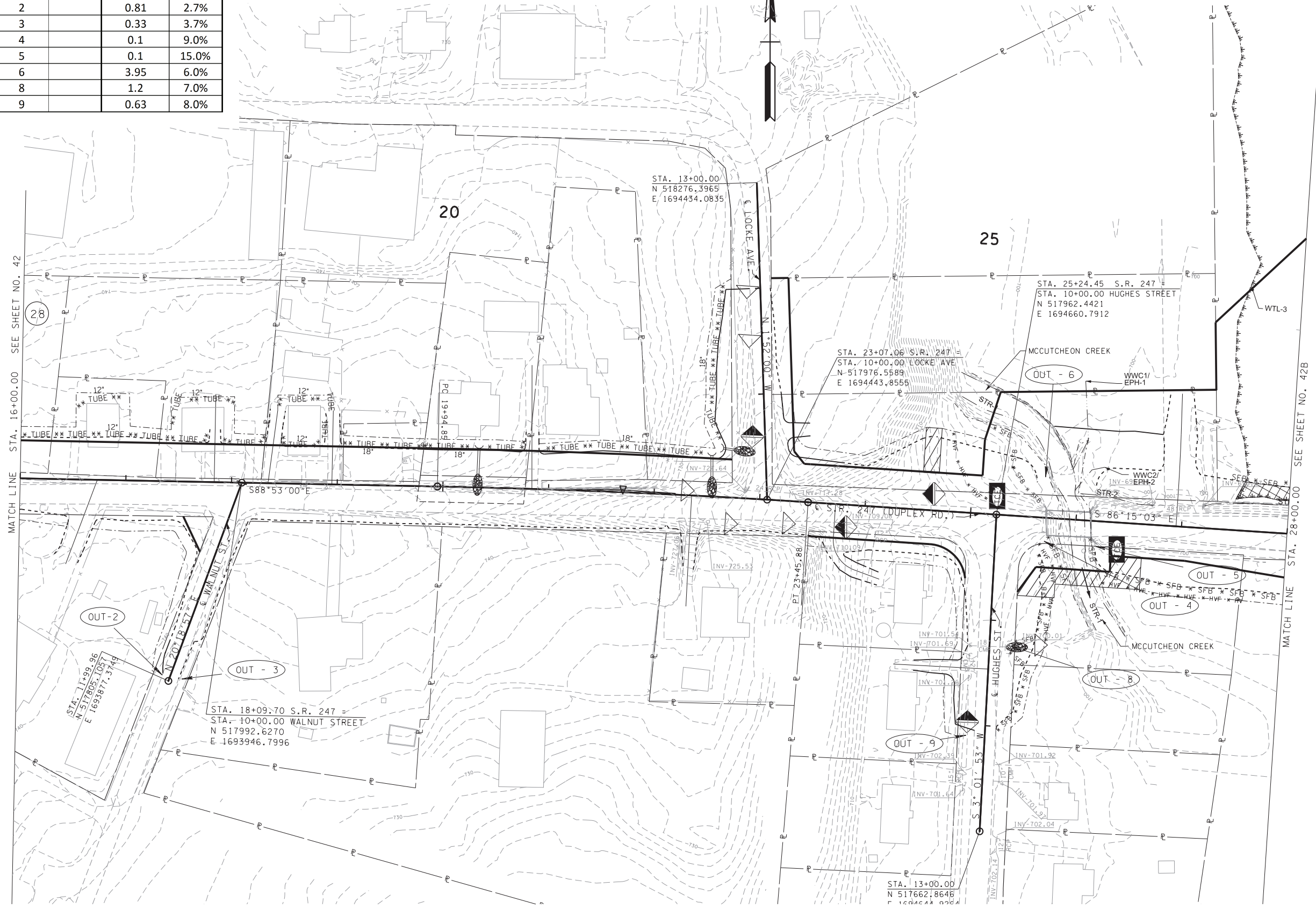
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE I
STA. 10+25.96 TO STA. 16+00.00
SCALE: 1" = 50'

OUTFALLS STAGE I			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
2		0.81	2.7%
3		0.33	3.7%
4		0.1	9.0%
5		0.1	15.0%
6		3.95	6.0%
8		1.2	7.0%
9		0.63	8.0%

NOTE : SEE STREAM RELOCATION PLAN FOR STREAM 2 EROSION CONTROL MEASURES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	42
CONST.	2017	STP-M-247(9)	42A

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

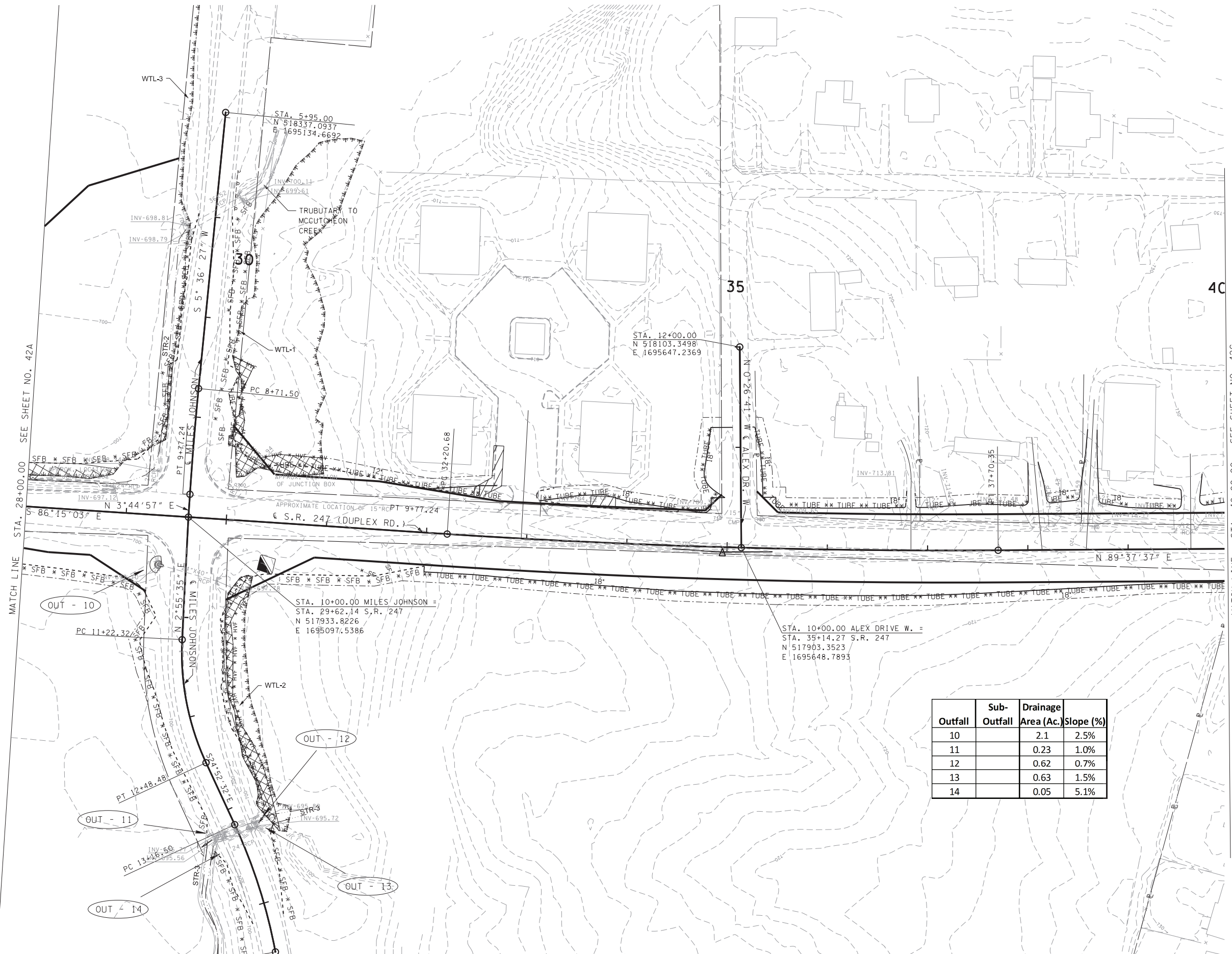
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I
STA. 16+00.00 TO STA. 28+00.00
SCALE: 1" = 50'



NOTE : SEE STREAM RELOCATION PLAN FOR STREAM 2 EROSION CONTROL MEASURES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	43
CONST.	2017	STP-M-247(9)	42B

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
10		2.1	2.5%
11		0.23	1.0%
12		0.62	0.7%
13		0.63	1.5%
14		0.05	5.1%

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

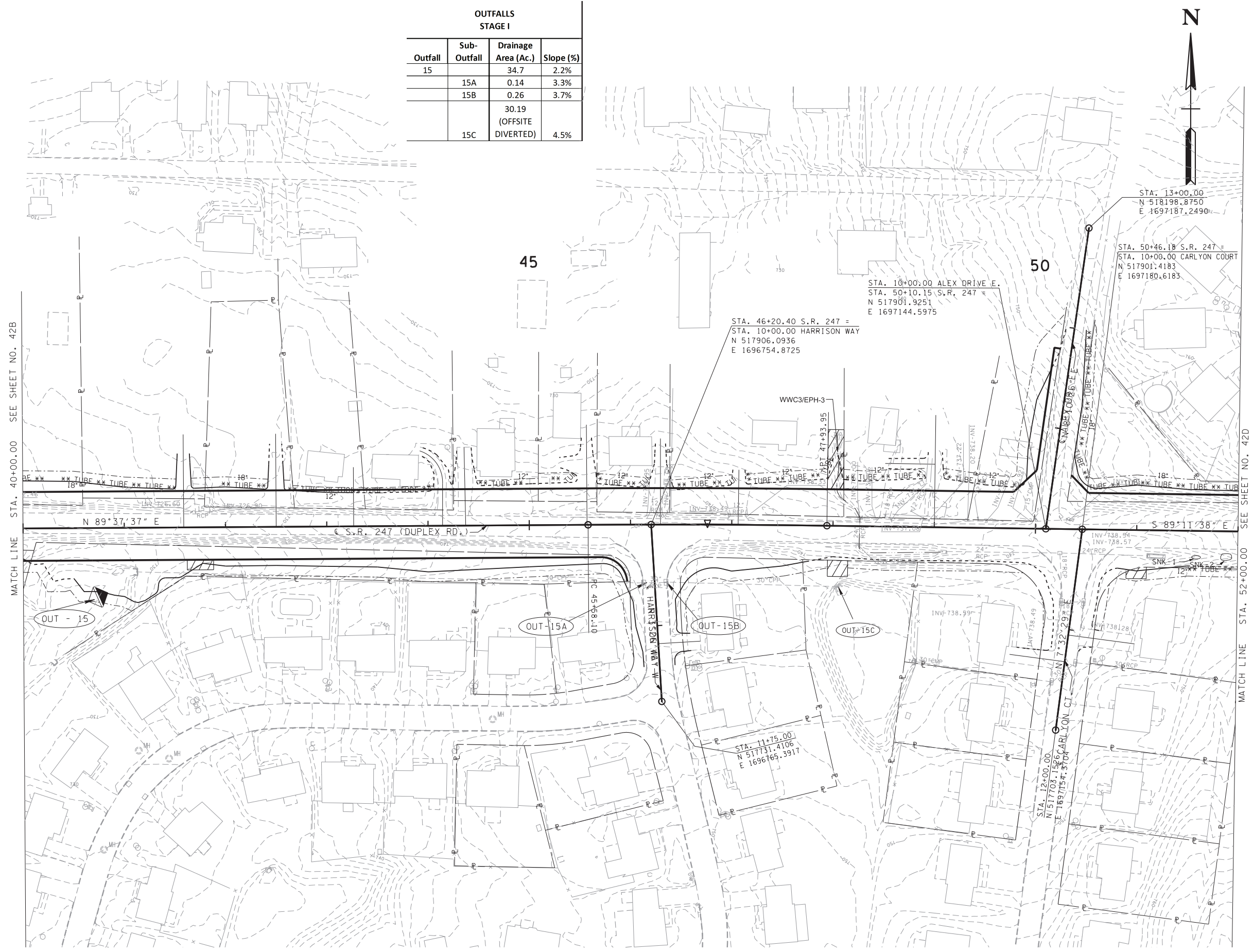
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I
STA. 28+00.00 TO STA. 40+00.00
SCALE: 1" = 50'

OUTFALLS STAGE I			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
15		34.7	2.2%
	15A	0.14	3.3%
	15B	0.26	3.7%
		30.19 (OFFSITE DIVERTED)	
	15C		4.5%

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	44
CONST.	2017	STP-M-247(9)	42C

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



MATCH LINE STA. 40+00.00 SEE SHEET NO. 42B

MATCH LINE STA. 52+00.00 SEE SHEET NO. 42D

SEALED BY

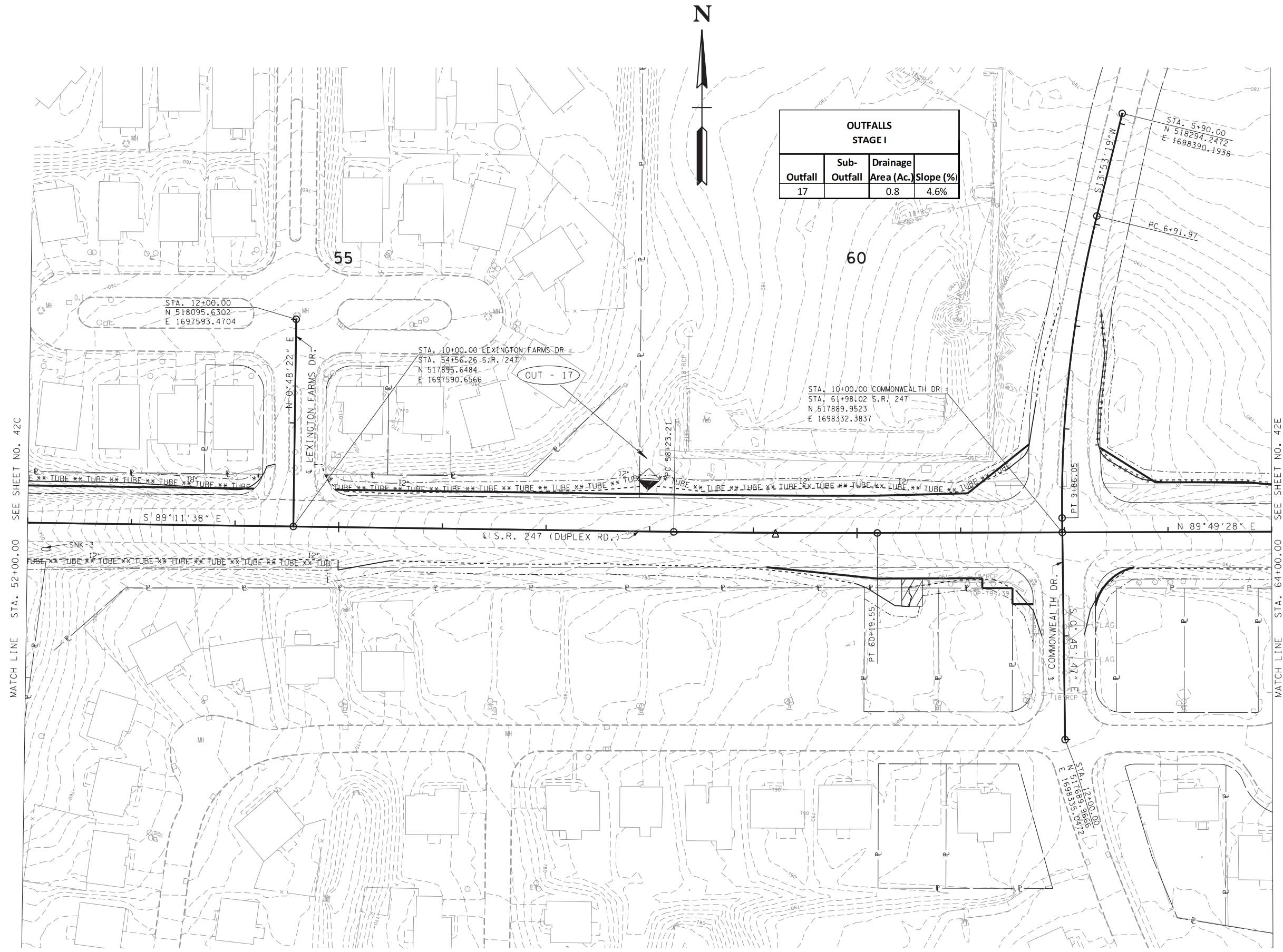
COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE I
STA. 40+00.00 TO STA. 52+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	45
CONST.	2017	STP-M-247(9)	42D

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE I			
Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
17		0.8	4.6%

MATCH LINE STA. 52+00.00 SEE SHEET NO. 42C

MATCH LINE STA. 64+00.00 SEE SHEET NO. 42E

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

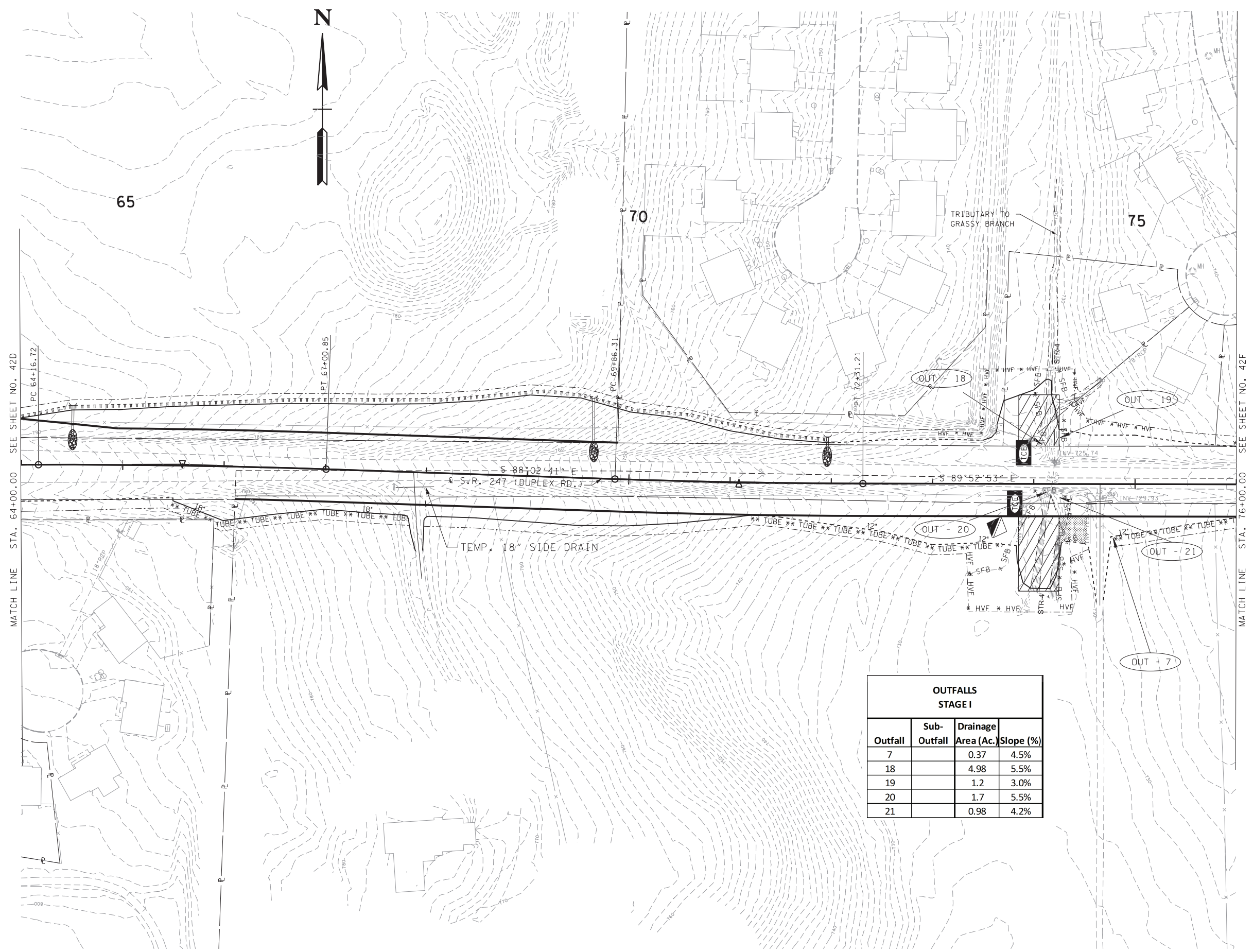
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE I

STA. 52+00.00 TO STA. 64+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	46
CONST.	2017	STP-M-247(9)	42E

MAURY/WILLIAMSON CO. S.R. 247
 60020-3201-54 (CONST.)



OUTFALLS STAGE I			
Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
7		0.37	4.5%
18		4.98	5.5%
19		1.2	3.0%
20		1.7	5.5%
21		0.98	4.2%

8:54:2 AM
 MA\Spring Hill\duplex road\Sheets\042e_esp_StageI.dgn

SEALED BY

COORDINATES ARE NAD 83 (1995),
 AND ARE DATUM ADJUSTED BY THE
 FACTOR OF 1.00008 AND ARE TIED TO
 THE TGRN. ALL ELEVATIONS ARE
 REFERENCED TO THE NAVD 1988.

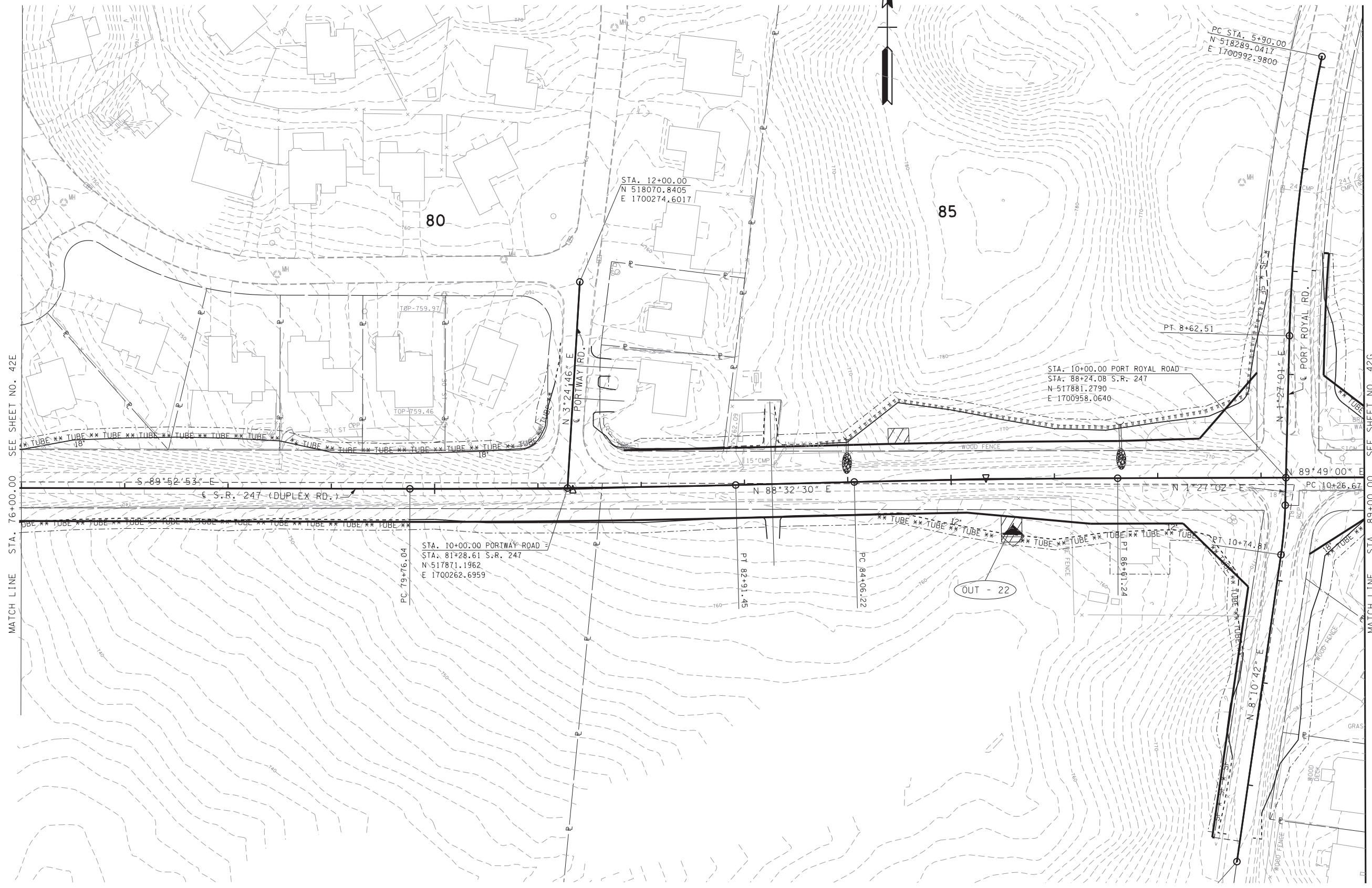
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION

EROSION
 PREVENTION AND
 SEDIMENT CONTROL
 PLAN STAGE I
 STA. 64+00.00 TO STA. 76+00.00
 SCALE: 1" = 50'

OUTFALLS STAGE I			
Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
22		1.74	3.5%

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	47
CONST.	2017	STP-M-247(9)	42F

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



MATCH LINE STA. 76+00.00 SEE SHEET NO. 42E

MATCH LINE STA. 89+00.00 SEE SHEET NO. 42G

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

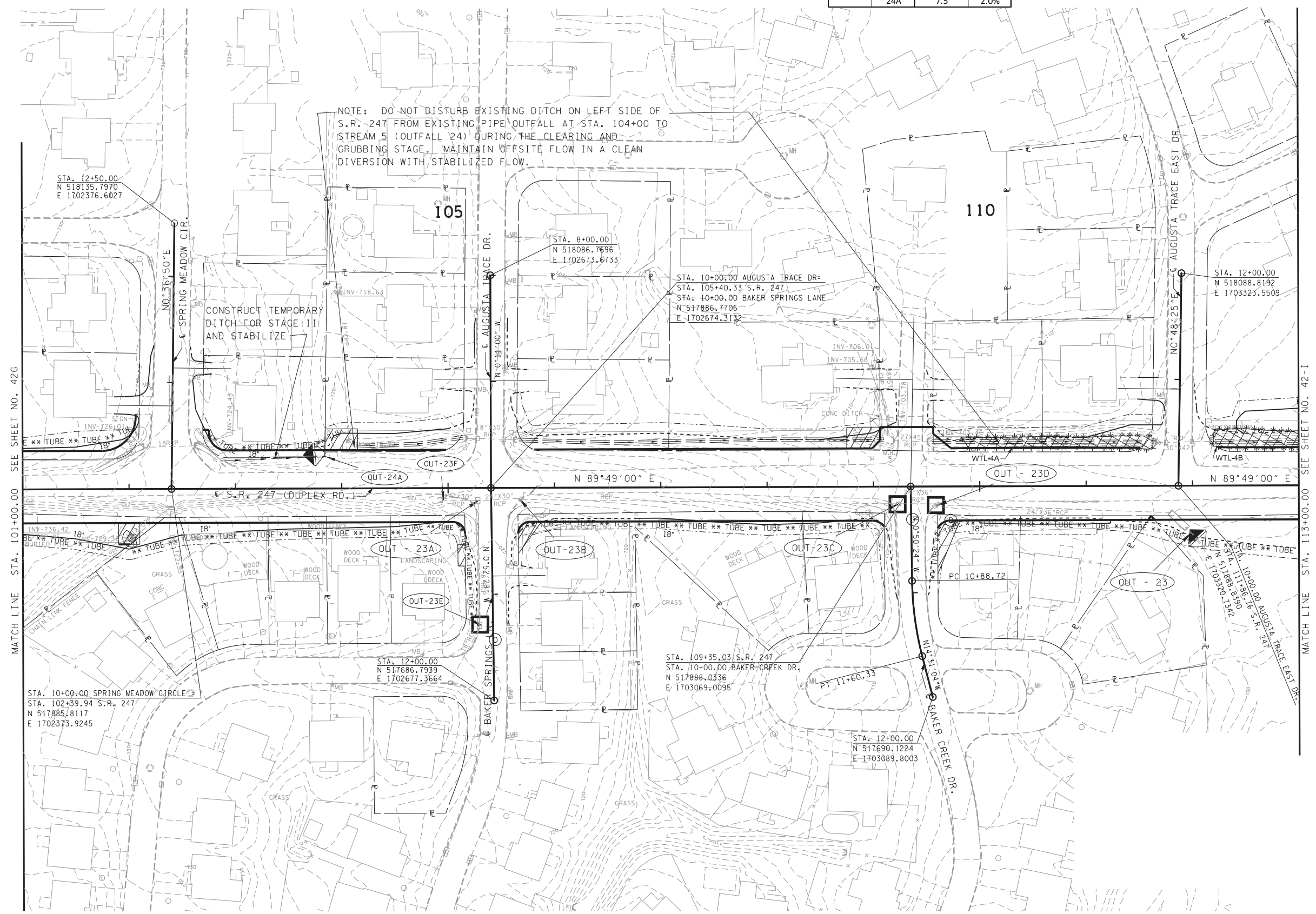
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE I
STA. 76+00.00 TO STA. 89+00.00
SCALE: 1" = 50'

OUTFALLS STAGE I			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
23		9.9	4.5%
	23A	0.07	3.5%
	23B	0.05	2.0%
	23C	0.78	3.8%
	23D	0.1	2.0%
	23E	0.68	2.4%
	23F	2.1	3.2%
	24A	7.5	2.0%

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	49
CONST.	2017	STP-M-247(9)	42H

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



MATCH LINE STA. 101+00.00 SEE SHEET NO. 42C

MATCH LINE STA. 113+00.00 SEE SHEET NO. 42-I

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

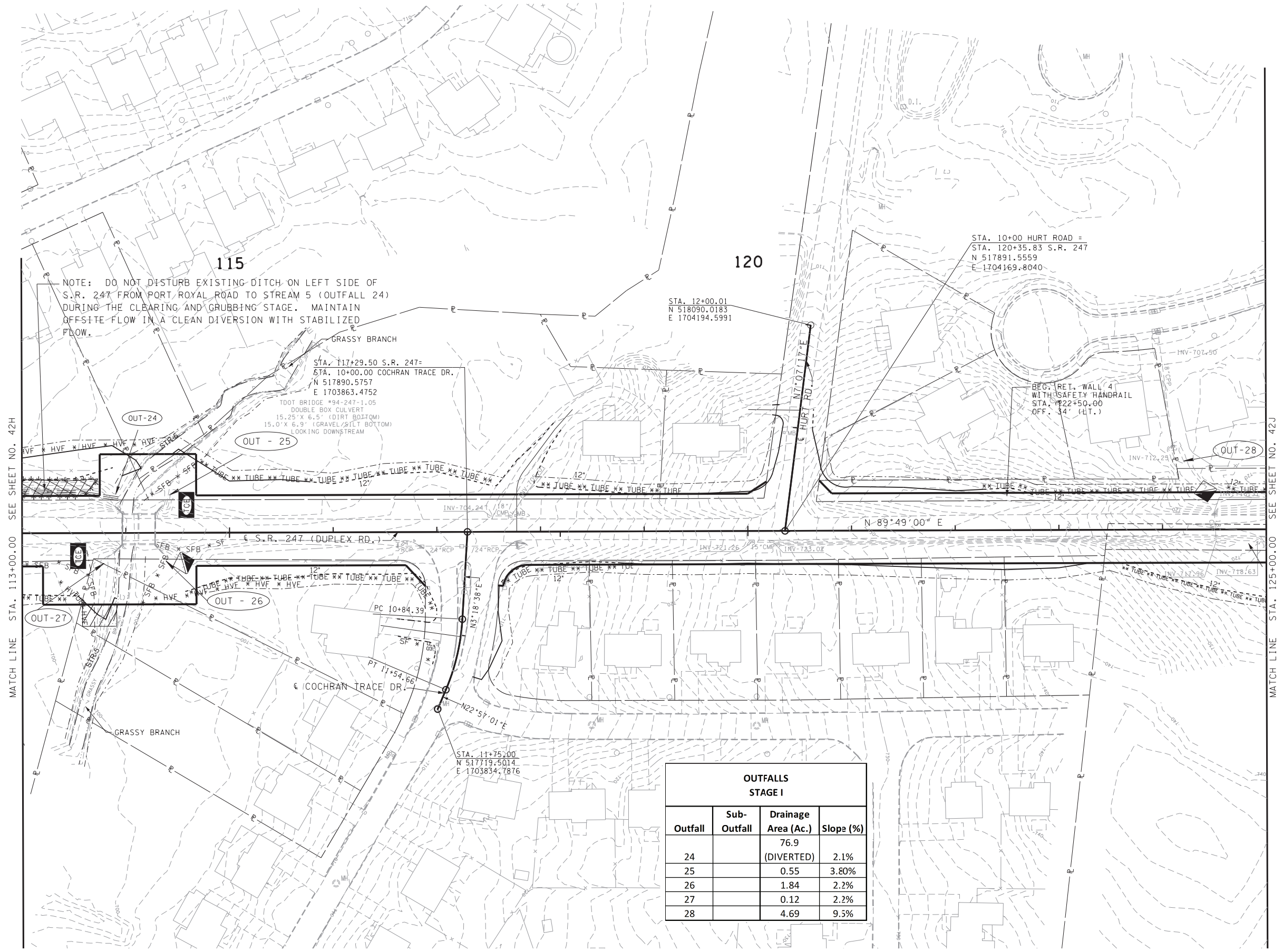
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE I

STA. 101+00.00 TO STA. 113+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	50
CONST.	2017	STP-M-247(9)	42-1

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE I			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
24		76.9	2.1%
25		0.55	3.80%
26		1.84	2.2%
27		0.12	2.2%
28		4.69	9.5%

MATCH LINE STA. 113+00.00 SEE SHEET NO. 42H

MATCH LINE STA. 125+00.00 SEE SHEET NO. 42J

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

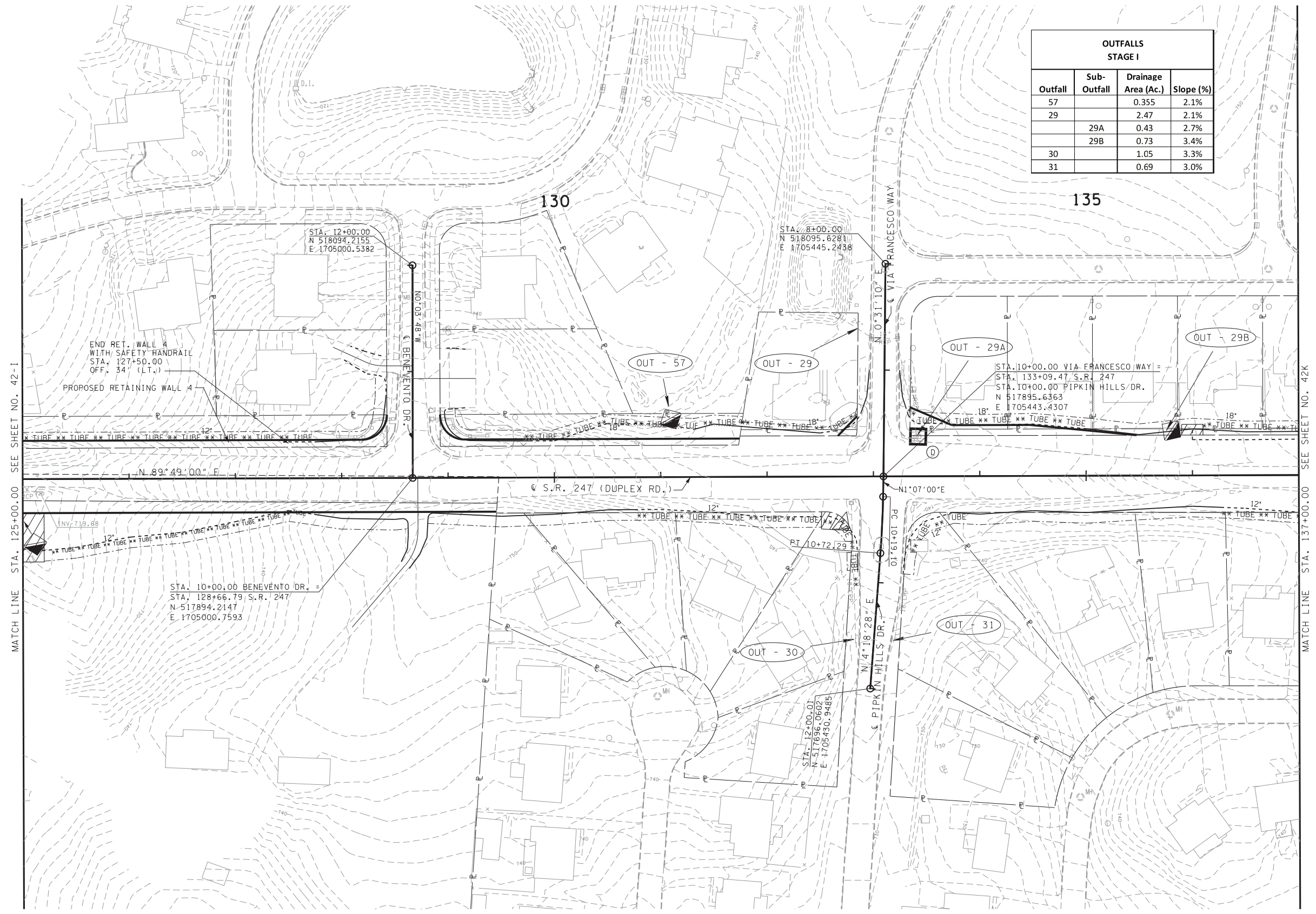
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE I
STA. 113+00.00 TO STA. 123+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	51
CONST.	2017	STP-M-247(9)	42J

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE I			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
57		0.355	2.1%
29		2.47	2.1%
	29A	0.43	2.7%
	29B	0.73	3.4%
30		1.05	3.3%
31		0.69	3.0%



SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

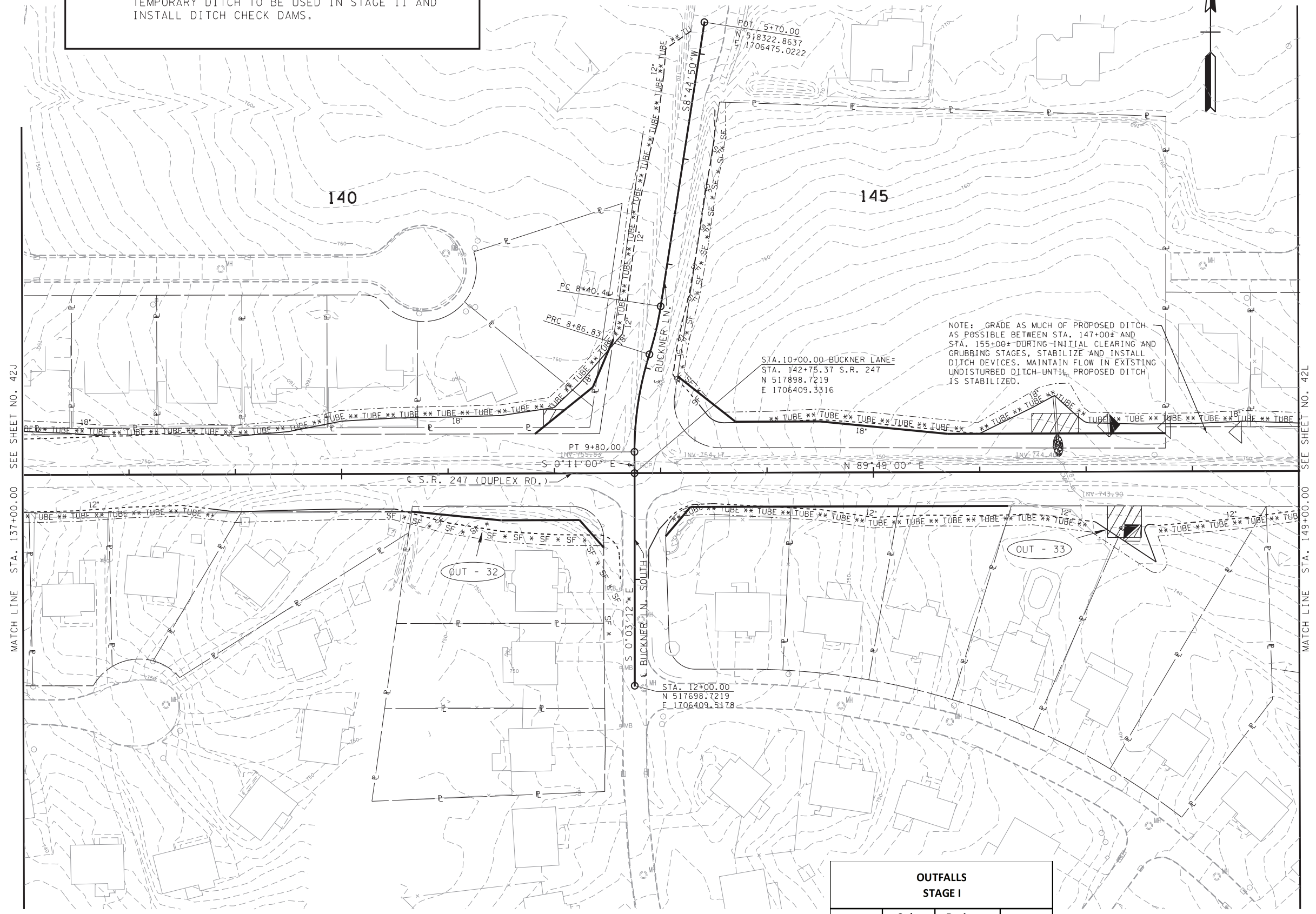
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I
STA. 125+00.00 TO STA. 137+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	52
CONST.	2017	STP-M-247(9)	42K

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

NOTE : INSTALL PERIMETER MEASURES ON LEFT SLOPE. CLEAR TREES AND SHRUBS FROM STA. 147+00± TO STA. 163+00± ON LEFT SIDE OF DUPLEX. GRADE TEMPORARY DITCH TO BE USED IN STAGE II AND INSTALL DITCH CHECK DAMS.



NOTE: GRADE AS MUCH OF PROPOSED DITCH AS POSSIBLE BETWEEN STA. 147+00± AND STA. 155+00± DURING INITIAL CLEARING AND GRUBBING STAGES, STABILIZE AND INSTALL DITCH DEVICES. MAINTAIN FLOW IN EXISTING UNDISTURBED DITCH UNTIL PROPOSED DITCH IS STABILIZED.

OUTFALLS STAGE I			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
32		0.42	9.0%
33		14.6 (9.6 AC. OFFSITE DIVERTED)	5.0%

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

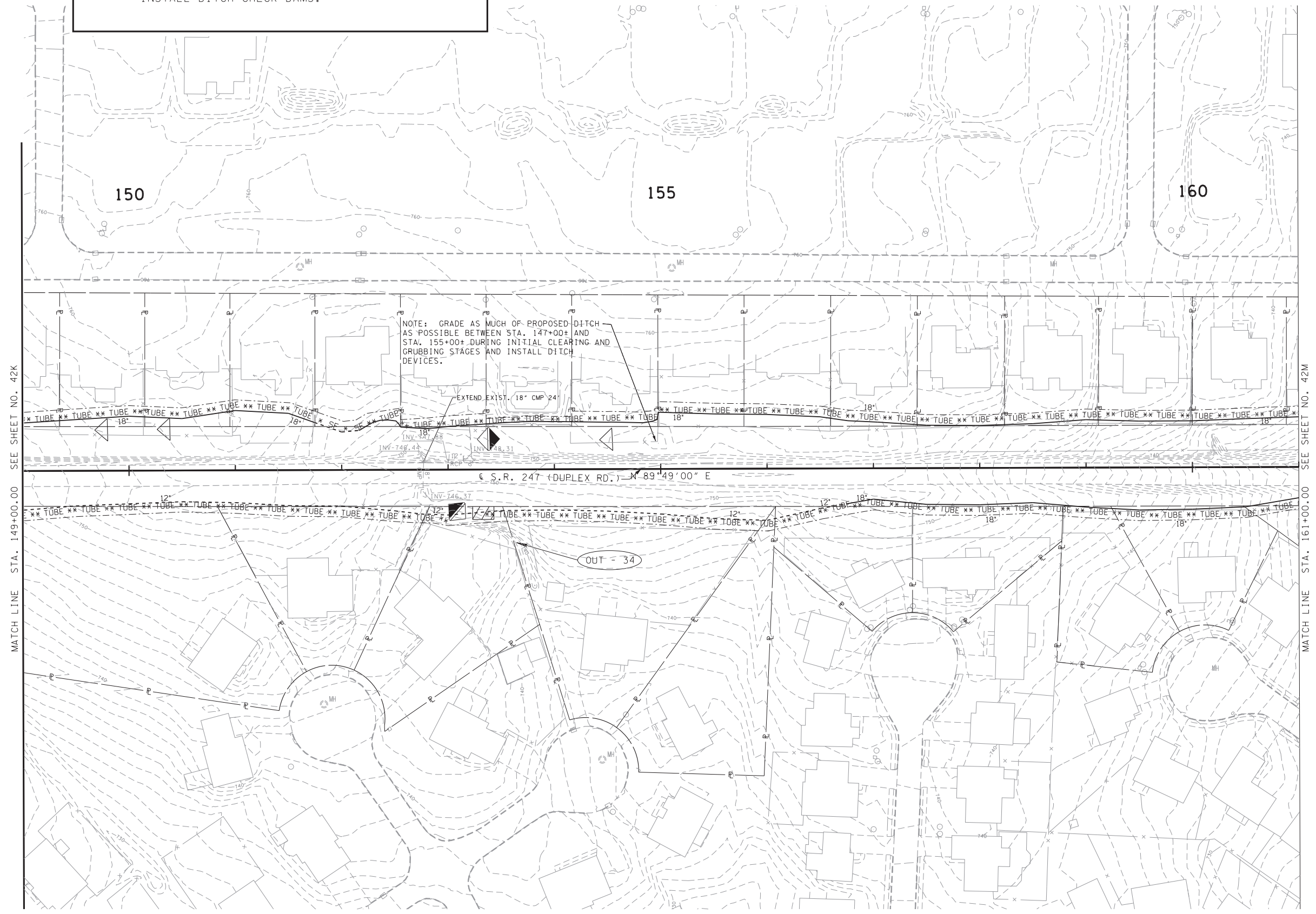
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I
STA. 137+00.00 TO STA. 149+00.00
SCALE: 1" = 50'

NOTE : INSTALL PERIMETER MEASURES ON LEFT SLOPE.
CLEAR TREES AND SHRUBS FROM STA. 147+00±
TO STA. 163+00± ON LEFT SIDE OF DUPLEX. GRADE
TEMPORARY DITCH TO BE USED IN STAGE II AND
INSTALL DITCH CHECK DAMS.

OUTFALLS STAGE I			
Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
34		1.98	3.0%

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	53
CONST.	2017	STP-M-247(9)	42L

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



NOTE: GRADE AS MUCH OF PROPOSED DITCH
AS POSSIBLE BETWEEN STA. 147+00± AND
STA. 155+00± DURING INITIAL CLEARING AND
GRUBBING STAGES AND INSTALL DITCH
DEVICES.

EXTEND EXIST. 18" CMP 24"

OUT - 34

S.R. 247 (DUPLEX RD.) N 89°49'00" E

MATCH LINE STA. 149+00.00 SEE SHEET NO. 42K

MATCH LINE STA. 161+00.00 SEE SHEET NO. 42M

SEALED BY

COORDINATES ARE NAD 83 (1995),
AND ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00008 AND ARE TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

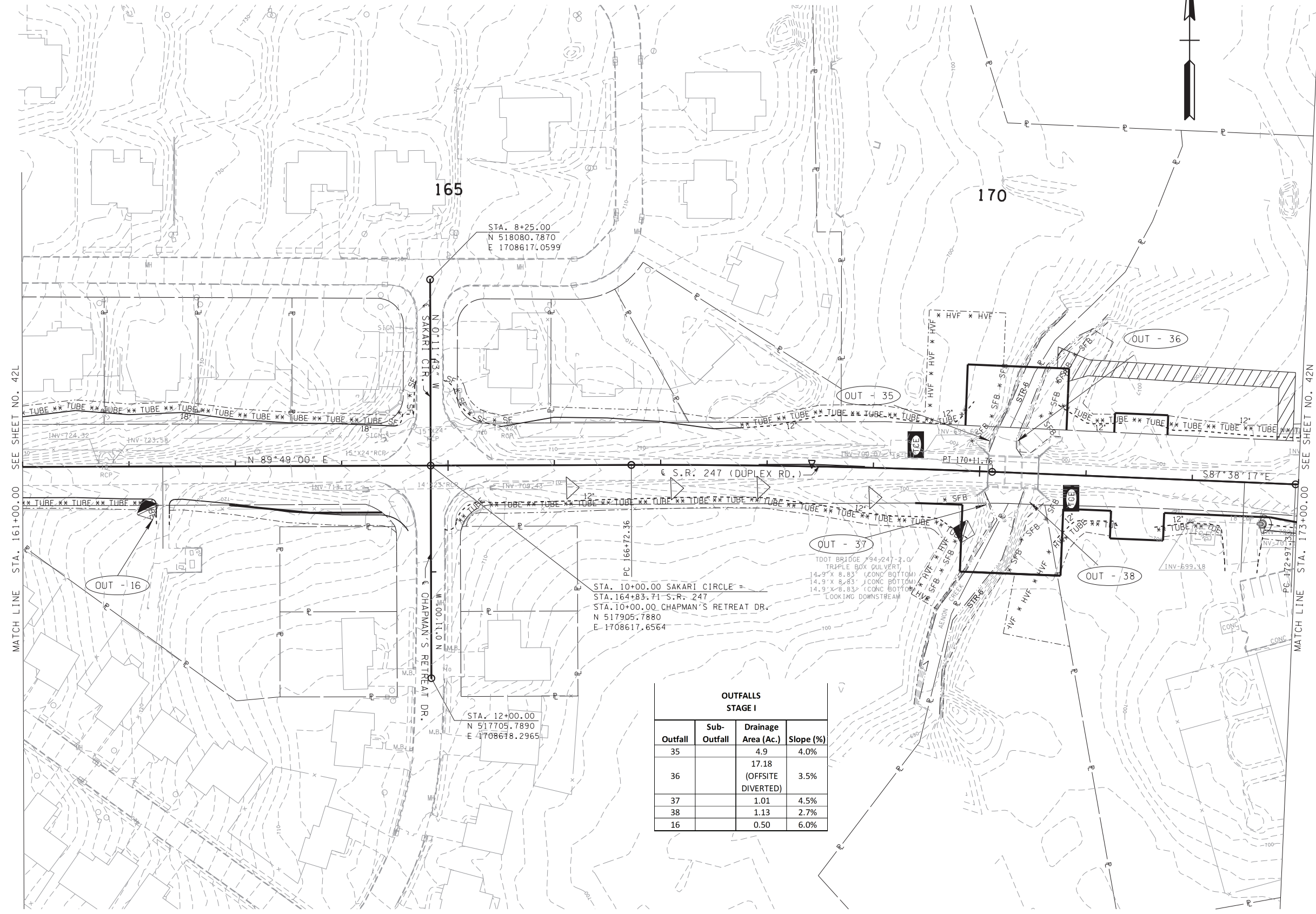
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE I

STA. 149+00.00 TO STA. 161+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	54
CONST.	2017	STP-M-247(9)	42M

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



**OUTFALLS
STAGE I**

Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
35		4.9	4.0%
36		17.18 (OFFSITE DIVERTED)	3.5%
37		1.01	4.5%
38		1.13	2.7%
16		0.50	6.0%

SEALED BY

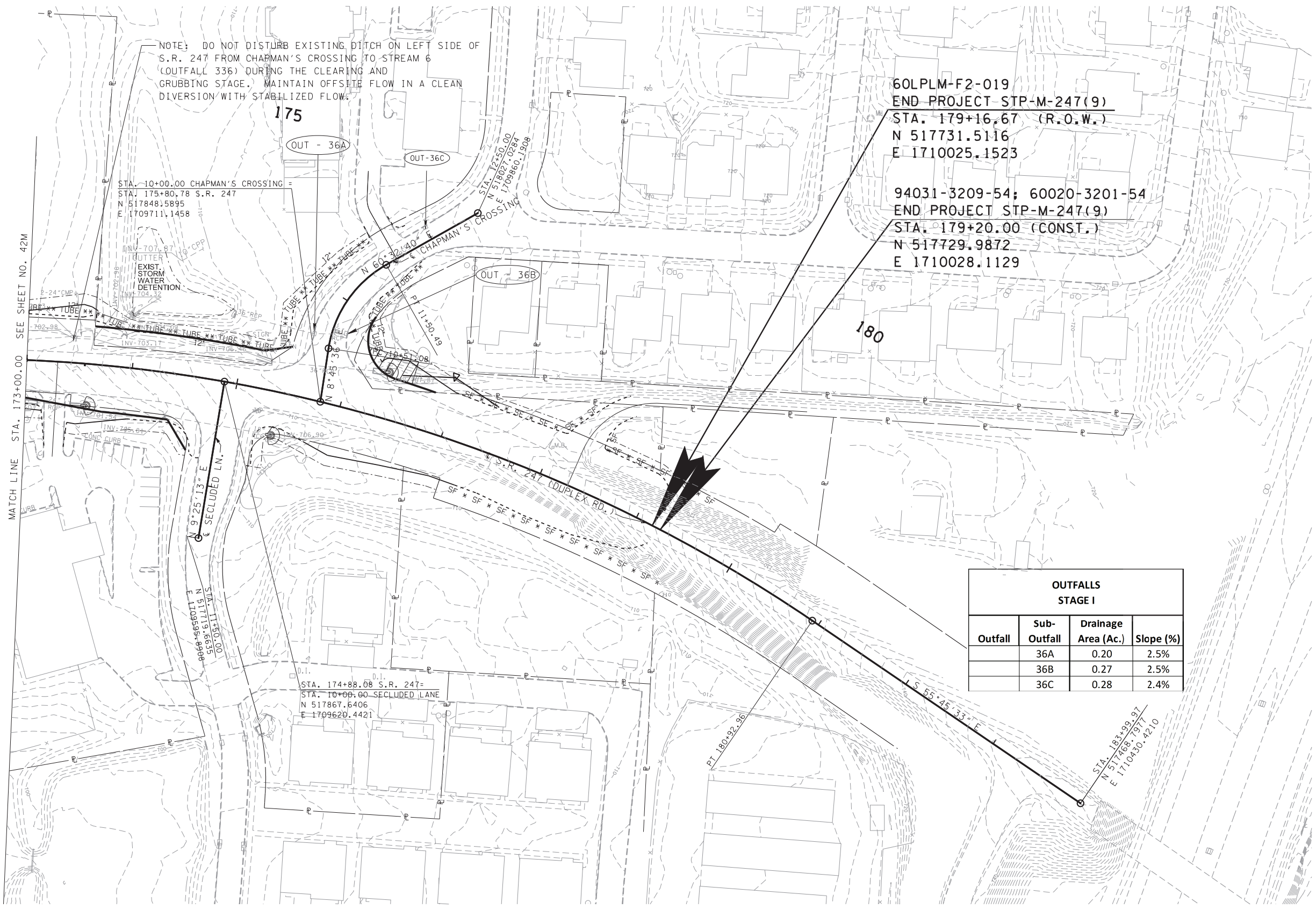
COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

**EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE I**
STA. 161+00.00 TO STA. 173+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	55
CONST.	2017	STP-M-247(9)	42N

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247



60LPLM-F2-019
END PROJECT STP-M-247(9)
STA. 179+16.67 (R.O.W.)
N 517731.5116
E 1710025.1523

94031-3209-54; 60020-3201-54
END PROJECT STP-M-247(9)
STA. 179+20.00 (CONST.)
N 517729.9872
E 1710028.1129

OUTFALLS STAGE I			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	36A	0.20	2.5%
	36B	0.27	2.5%
	36C	0.28	2.4%

MATCH LINE STA. 173+00.00 SEE SHEET NO. 42M

STA. 10+00.00 CHAPMAN'S CROSSING =
STA. 175+80.78 S.R. 247
N 517848.5895
E 1709711.1458

N 9°25'13" E
STA. 1150.00
N 51113.6635
E 1109594.8938

D.I.
STA. 174+88.08 S.R. 247=
STA. 10+00.00 SECLUDED LANE
N 517867.6406
E 1709620.4421

STA. 183+99.97
N 517468.9971
E 1710430.4210

SEALED BY

COORDINATES ARE NAD 83 (1995),
AND ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00008 AND ARE TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

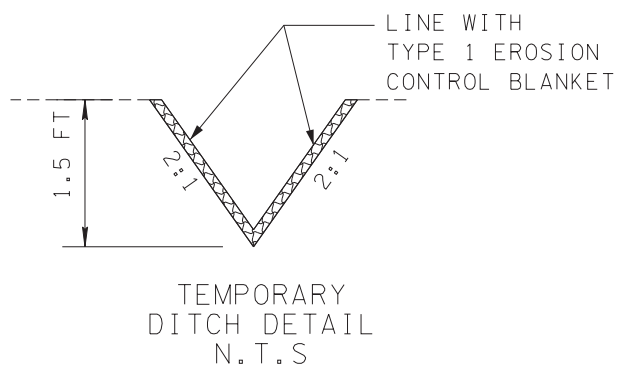
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE I
STA. 173+00.00 TO STA. 179+16.67

SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	56
CONST.	2017	STP-M-247(9)	43

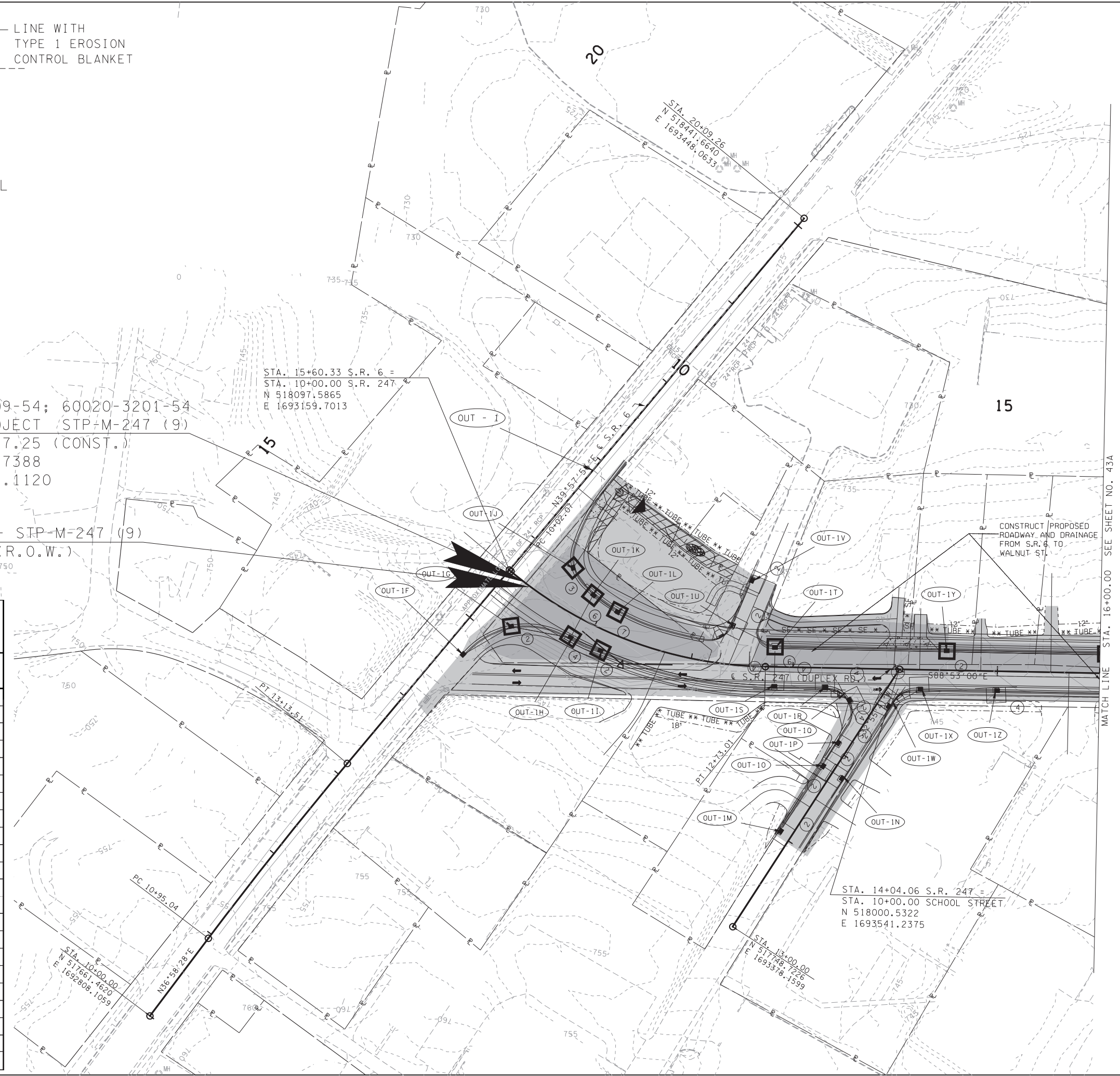
MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



94031-3209-54; 60020-3201-54
BEGIN PROJECT STP-M-247 (9)
STA. 10+17.25 (CONST.)
N 518086.7388
E 1693173.1120

60LPLM-F2-019
BEGIN PROJECT - STP-M-247 (9)
STA. 10+25.96 (R.O.W.)
N 518081.4816
E 1693180.0563

OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
1		6.3	5.0%
	1F	0.084	5.4%
	1G	0.074	2.0%
	1H	0.078	0.1%
	1I	0.046	0.8%
	1J	0.072	1.2%
	1K	0.045	1.0%
	1L	0.85	0.8%
	1M	1.96	1.8%
	1N	0.1733	4.7%
	1O	0.137	4.7%
	1P	0.037	4.5%
	1Q	0.027	1.8%
	1R	0.063	3.1%
	1S	0.016	2.5%
	1T	0.134	3.5%
	1U	0.704	0.5%
	1V	0.049	4.0%
	1W	0.118	1.1%
	1X	0.648	2.3%
	1Y	0.118	2.0%
	1Z	0.186	1.6%



SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

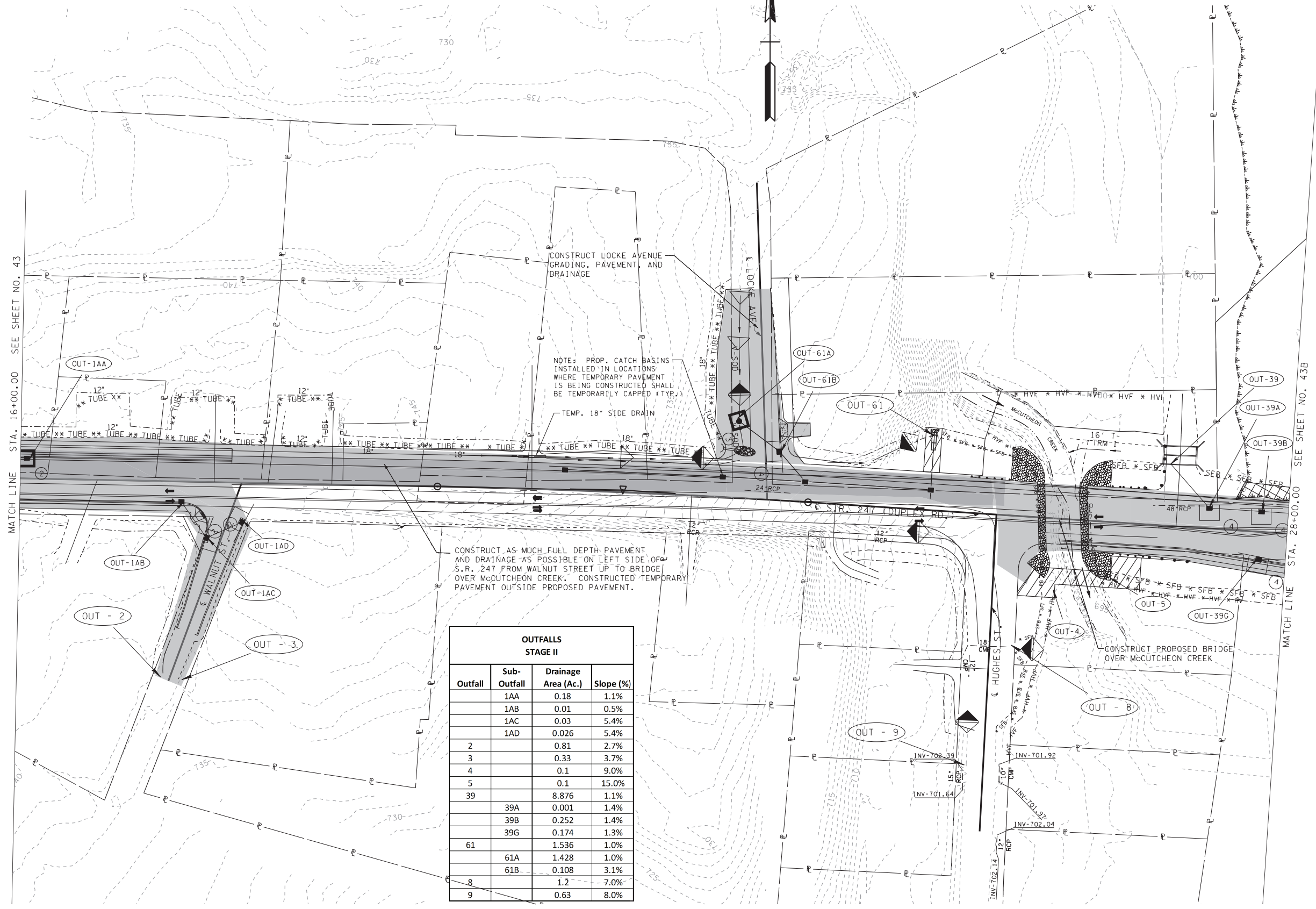
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II
STA. 10+25.96 TO STA. 16+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	57
CONST.	2017	STP-M-247(9)	43A

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

NOTE : SEE STREAM RELOCATION PLAN FOR STREAM 2 EROSION CONTROL MEASURES



CONSTRUCT LOCKE AVENUE GRADING, PAVEMENT, AND DRAINAGE

NOTE: PROP. CATCH BASINS INSTALLED IN LOCATIONS WHERE TEMPORARY PAVEMENT IS BEING CONSTRUCTED SHALL BE TEMPORARILY CAPPED (TYP.)

TEMP. 18" SIDE DRAIN

CONSTRUCT AS MUCH FULL DEPTH PAVEMENT AND DRAINAGE AS POSSIBLE ON LEFT SIDE OF S.R. 247 FROM WALNUT STREET UP TO BRIDGE OVER McCUTCHEON CREEK. CONSTRUCTED TEMPORARY PAVEMENT OUTSIDE PROPOSED PAVEMENT.

OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	1AA	0.18	1.1%
	1AB	0.01	0.5%
	1AC	0.03	5.4%
	1AD	0.026	5.4%
	2	0.81	2.7%
	3	0.33	3.7%
	4	0.1	9.0%
	5	0.1	15.0%
	39	8.876	1.1%
	39A	0.001	1.4%
	39B	0.252	1.4%
	39G	0.174	1.3%
	61	1.536	1.0%
	61A	1.428	1.0%
	61B	0.108	3.1%
	8	1.2	7.0%
	9	0.63	8.0%

MATCH LINE STA. 16+00.00 SEE SHEET NO. 43

MATCH LINE STA. 28+00.00 SEE SHEET NO. 43B

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

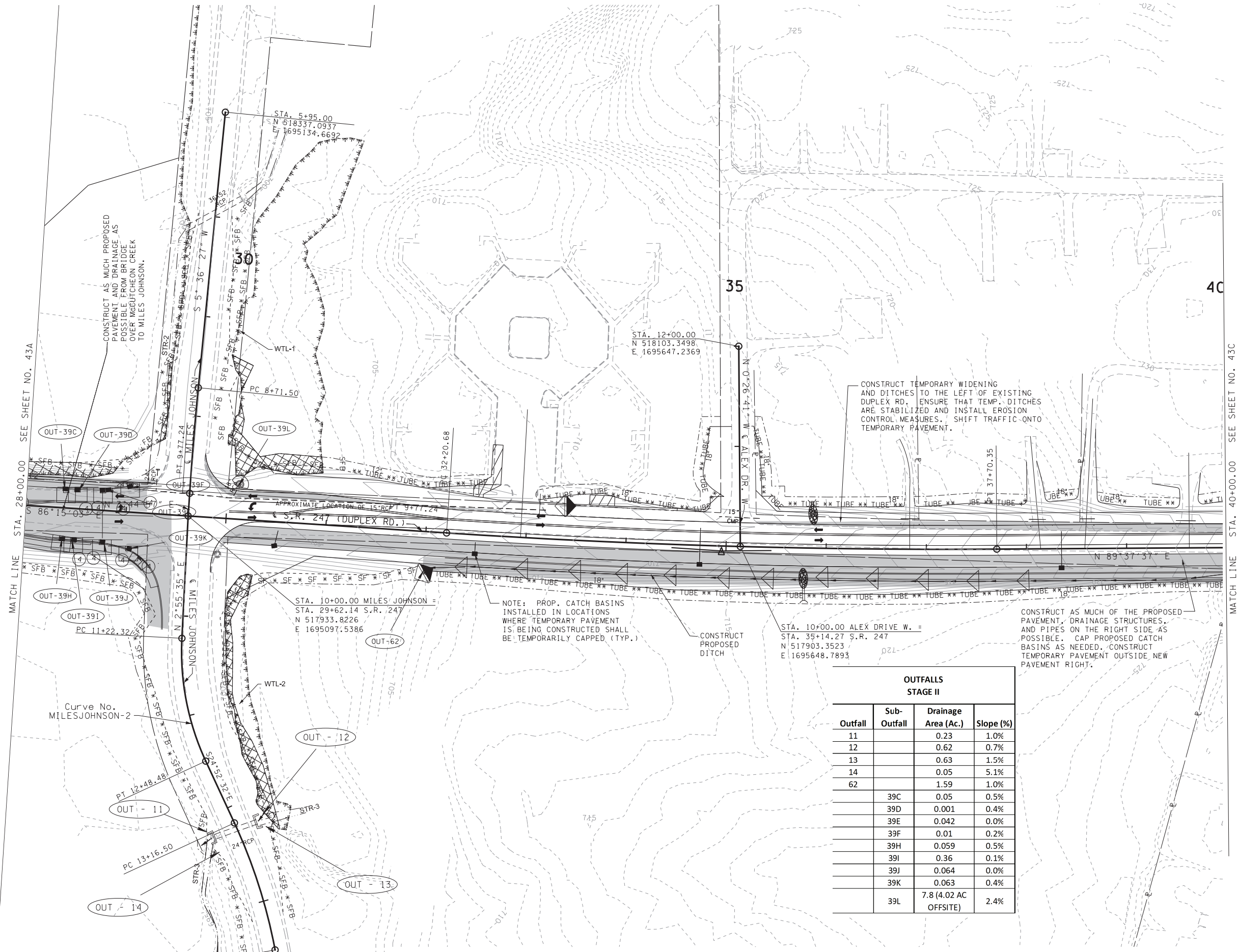
STA. 16+00.00 TO STA. 28+00.00
SCALE: 1" = 50'



NOTE : SEE STREAM RELOCATION PLAN FOR STREAM 2 EROSION CONTROL MEASURES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	58
CONST.	2017	STP-M-247(9)	43B

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	11	0.23	1.0%
	12	0.62	0.7%
	13	0.63	1.5%
	14	0.05	5.1%
	62	1.59	1.0%
	39C	0.05	0.5%
	39D	0.001	0.4%
	39E	0.042	0.0%
	39F	0.01	0.2%
	39H	0.059	0.5%
	39I	0.36	0.1%
	39J	0.064	0.0%
	39K	0.063	0.4%
	39L	7.8 (4.02 AC OFFSITE)	2.4%

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

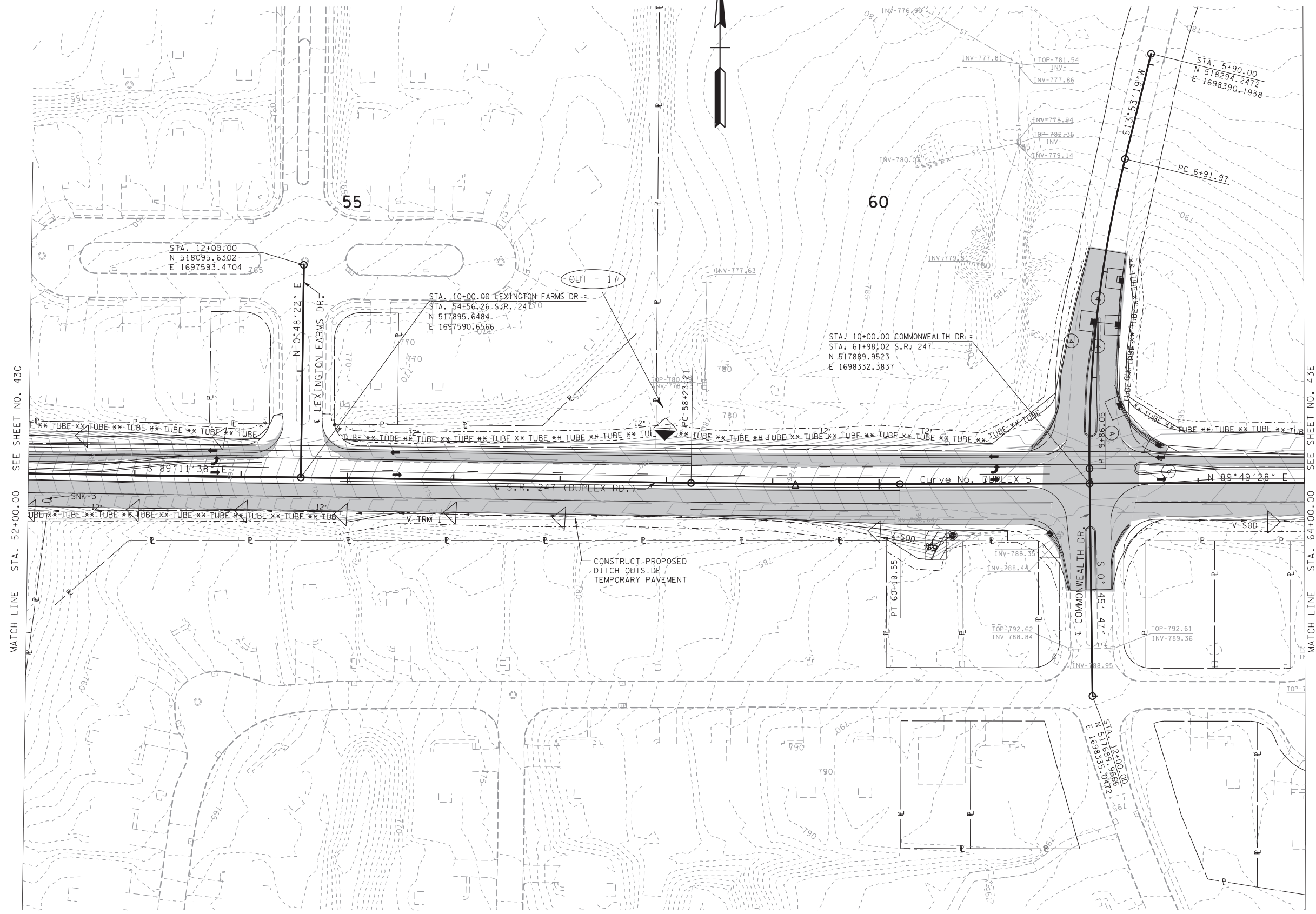
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA. 28+00.00 TO STA. 40+00.00
SCALE: 1" = 50'

OUTFALLS STAGE II			
Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
17		0.8	4.6%

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	60
CONST.	2017	STP-M-247(9)	43D

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



8:54:52 AM
M:\Spring Hill\duplex road\Sheets\043d_escp_Stage2.dgn

SEALED BY

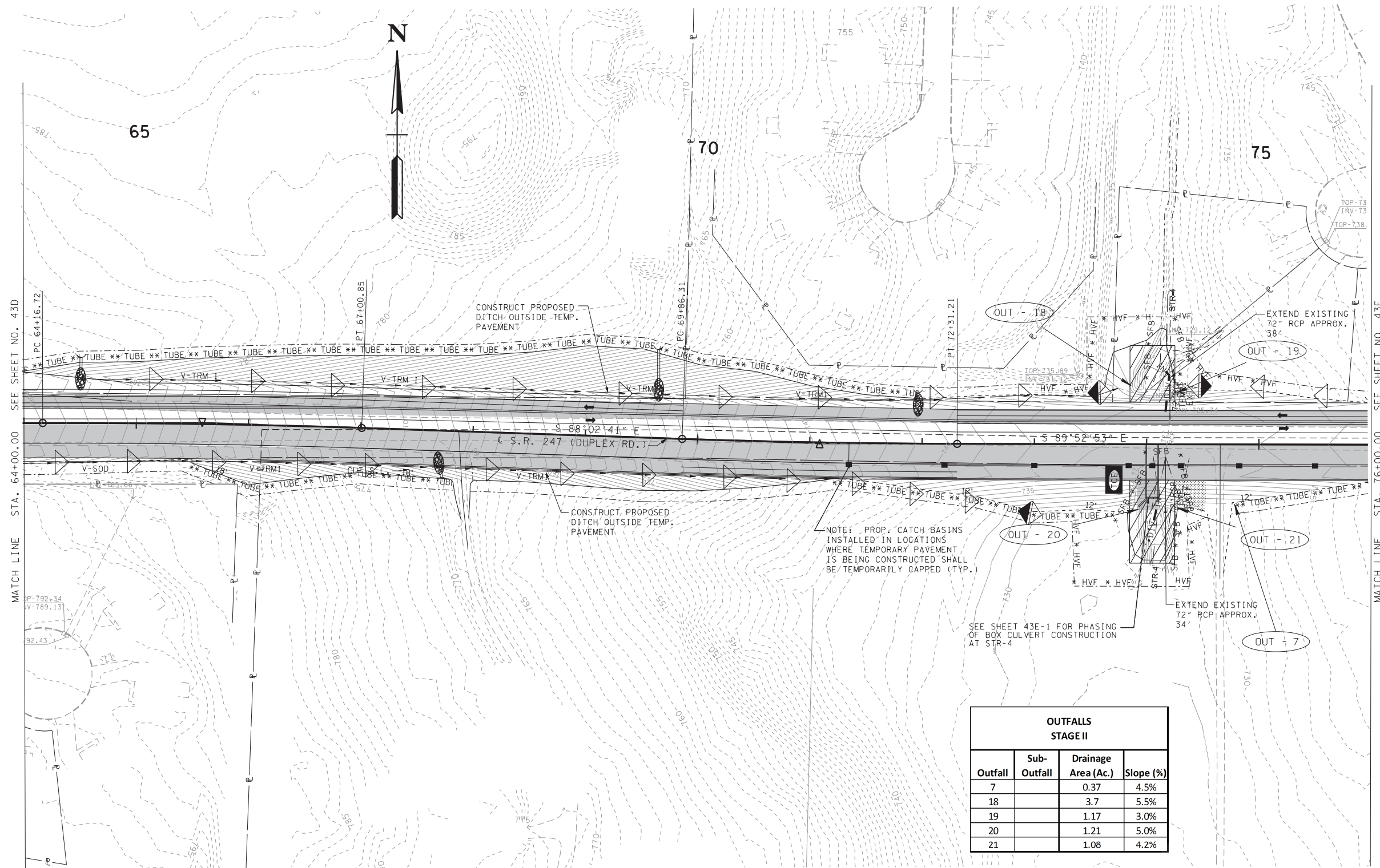
COORDINATES ARE NAD 83 (1995),
AND ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00008 AND ARE TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE II
STA. 52+00.00 TO STA. 64+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	61
CONST.	2017	STP-M-247(9)	43E

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
7		0.37	4.5%
18		3.7	5.5%
19		1.17	3.0%
20		1.21	5.0%
21		1.08	4.2%

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

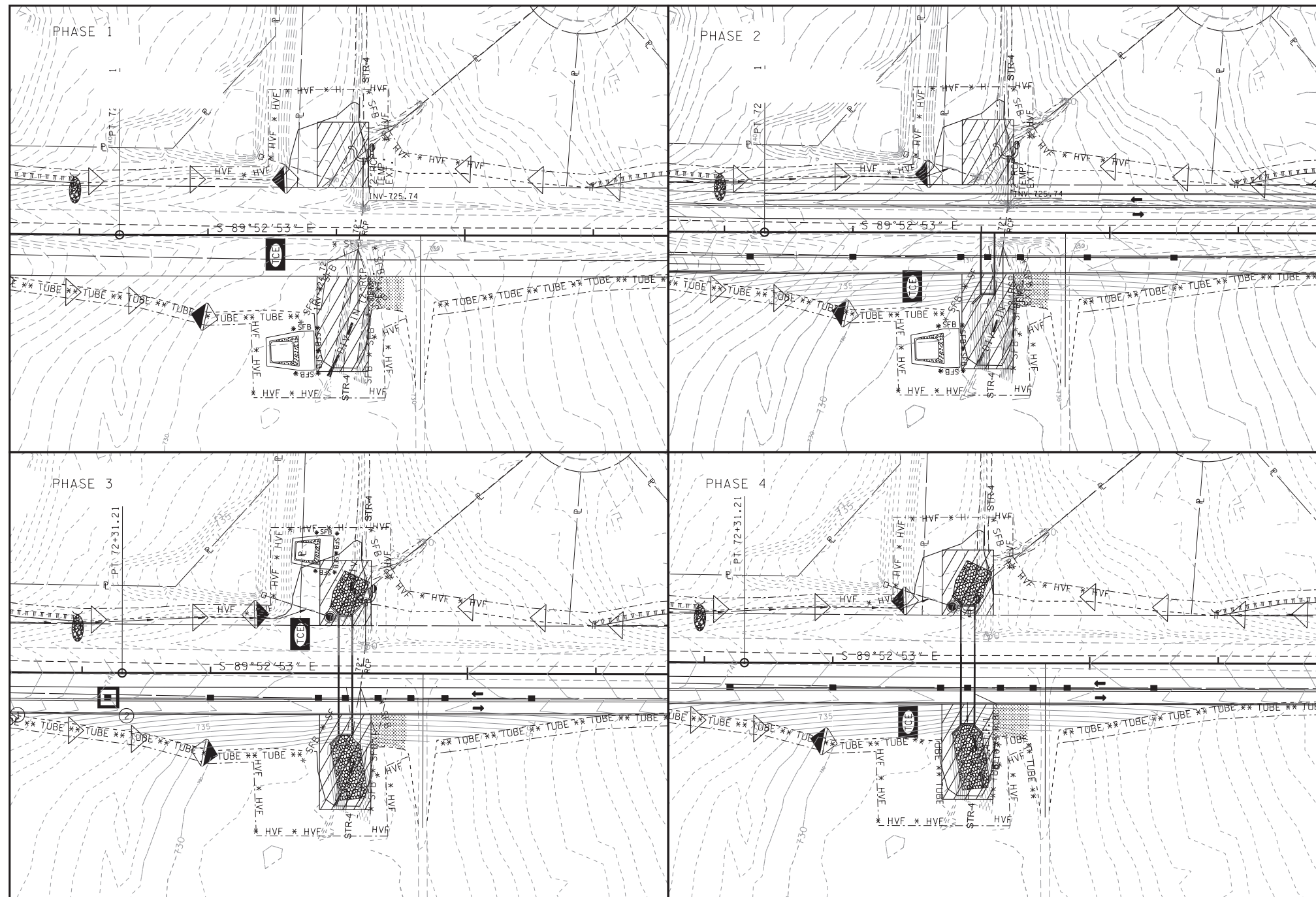
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE II
STA. 64+00.00 TO STA. 76+00.00
SCALE: 1" = 50'

GENERAL PHASING NOTES FOR CONSTRUCTION
OF THE SOUTH SIDE BOX CULVERT
STA. 74+05 (STR-4)

1. MAINTAIN TRAFFIC ON EXISTING LANES OF S.R. 247. EXTEND THE EXISTING 72" PIPE IN STR-4 ON BOTH THE INLET AND OUTLET ENDS. CONSTRUCTION OF THE INLET AND OUTLET EXTENSIONS TO BE COMPLETED IN THE DRY WITH THE USE OF TEMPORARY FLOW DIVERSION STRUCTURES OR COFFER DAMS USED UPSTREAM TO PREVENT STREAM FLOW DURING THIS OPERATION. CONTRACTOR MAY ALSO USE TEMPORARY DIVERSION CULVERTS (72" OR 2 @ 54") ON BOTH ENDS TO TEMPORARILY DIVERT FLOW AROUND EXISTING CREEK TO THE INLET OF THE EXISTING 72" AND AROUND THE EXISTING CREEK FROM THE OUTLET OF THE EXISTING 72" TO COMPLETE THE EXTENSIONS. COST OF THESE TEMPORARY MEASURE TO BE INCLUDED IN THE COST OF THE TEMPORARY INSTREAM DIVERSION CHANNEL. UPON COMPLETION OF THE EXTENSIONS, MAINTAIN FLOW OF STR-4 IN 72" PIPE USING AN APPROVED INSTREAM DIVERSION DEVICE. CONSTRUCT TEMPORARY WIDENING ON NORTH SIDE OF S.R. 247. SHIFT TRAFFIC TO NORTH ONTO TEMPORARY WIDENING OF S.R. 247.
2. CONSTRUCT THE SOUTH SIDE OF THE PROPOSED BOX CULVERT. CONSTRUCTION OF THE BOX TO TAKE PLACE IN DRY CONDITIONS. FLOW OF STR-4 TO BE MAINTAINED IN 72" RCP AND SEPARATED FROM BOX CULVERT CONSTRUCTION THROUGH THE USE OF APPROVED INSTREAM DIVERSION DEVICES.
3. SHIFT TRAFFIC ONTO NEWLY CONSTRUCTED PAVEMENT ON SOUTH SIDE OF DUPLEX ROAD. FLOW OF STR-4 TO REMAIN DIVERTEED INTO EXISTING 72" RCP UTILIZING APPROVED INSTREAM DIVERSION DEVICES. CONSTRUCT NORTH SIDE OF PROPOSED BOX CULVERT IN DRY CONDITIONS.
4. UPON COMPLETION OF THE NORTH SIDE OF BOX CULVERT, FLOW TO BE DIVERTED INTO NEW BOX. REMOVE 72" RCP AND COMPLETE CONSTRUCTION OF SOUTHEAST WINGWALL UTILIZING APPROVED INSTREAM DIVERSION DEVICES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	61
CONST.	2017	STP-M-247(9)	43E1

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

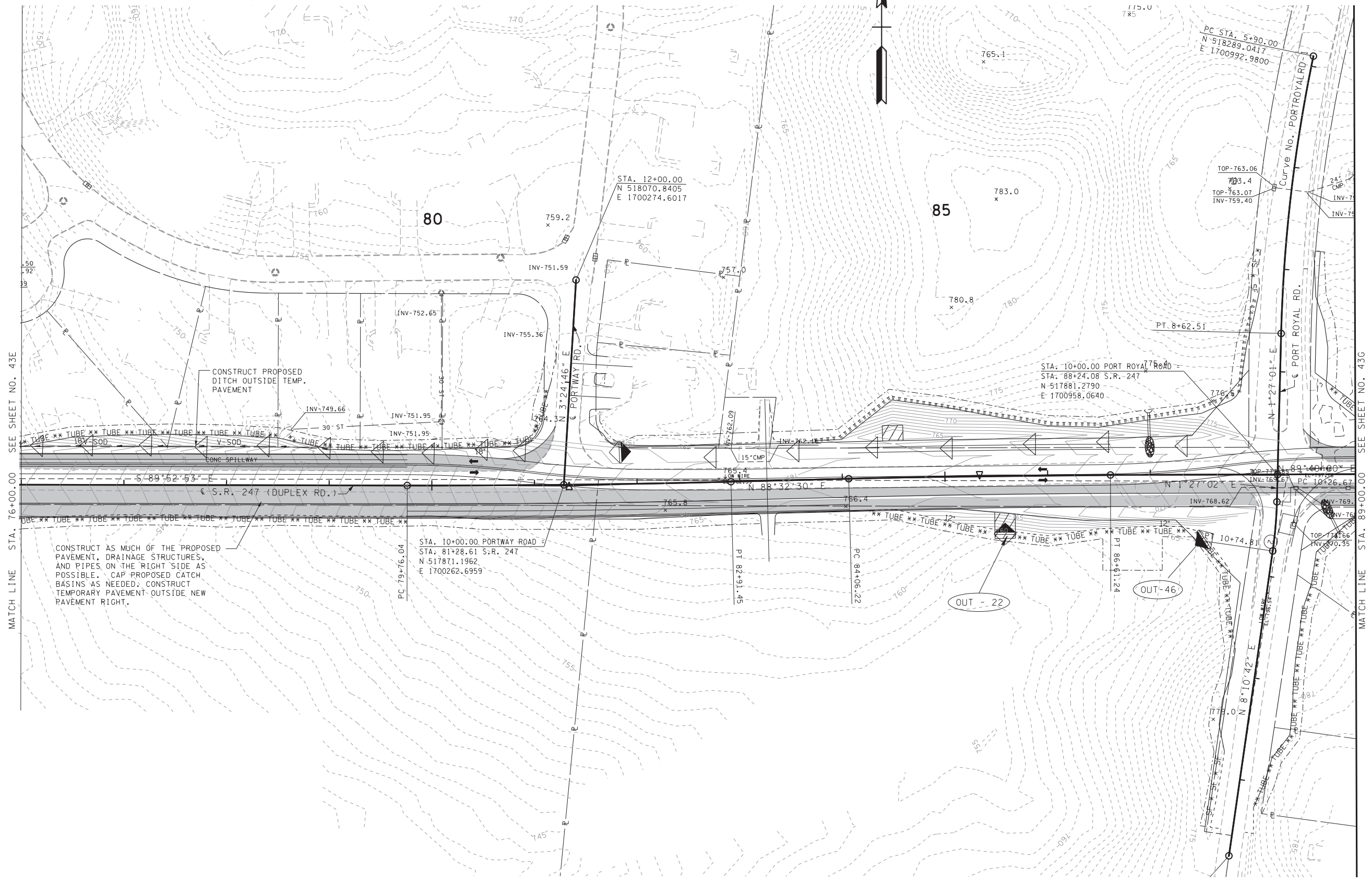
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE II
STA. 64+00.00 TO STA. 76+00.00
SCALE: 1" = 50'

OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
22		1.74	3.5%
46		0.353	3.5%

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	62
CONST.	2017	STP-M-247(9)	43F

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.)

S.R. 247



MATCH LINE STA. 76+00.00 SEE SHEET NO. 43E

MATCH LINE STA. 89+00.00 SEE SHEET NO. 43G

CONSTRUCT AS MUCH OF THE PROPOSED PAVEMENT, DRAINAGE STRUCTURES, AND PIPES ON THE RIGHT SIDE AS POSSIBLE. CAP PROPOSED CATCH BASINS AS NEEDED. CONSTRUCT TEMPORARY PAVEMENT OUTSIDE NEW PAVEMENT RIGHT.

CONSTRUCT PROPOSED DITCH OUTSIDE TEMP. PAVEMENT

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

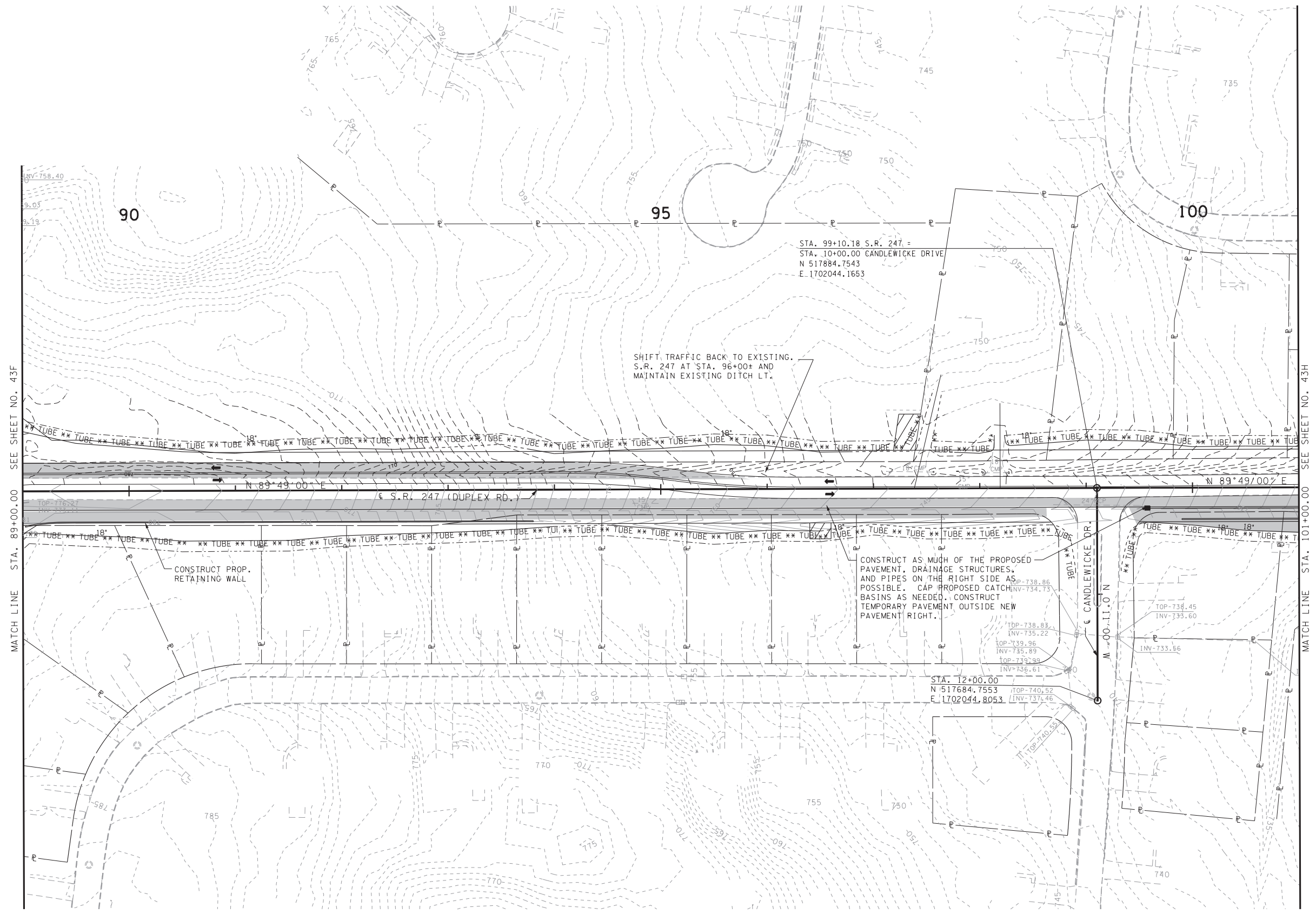
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA. 76+00.00 TO STA. 89+00.00

SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	63
CONST.	2017	STP-M-247(9)	43G

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



SEALED BY

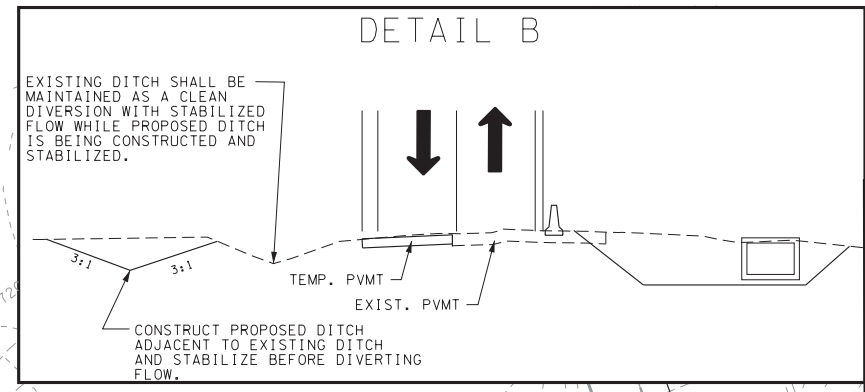
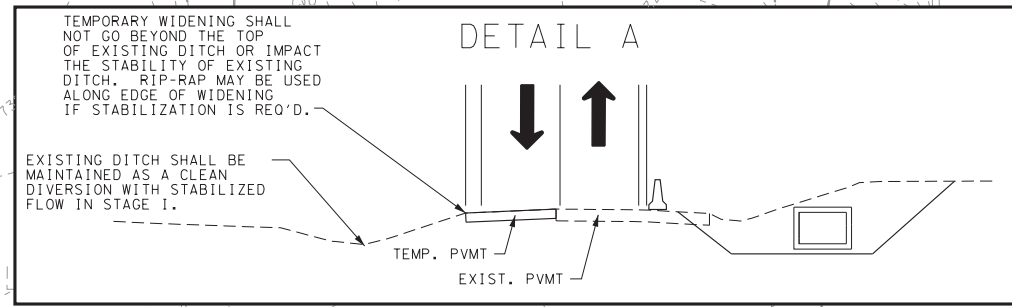
COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

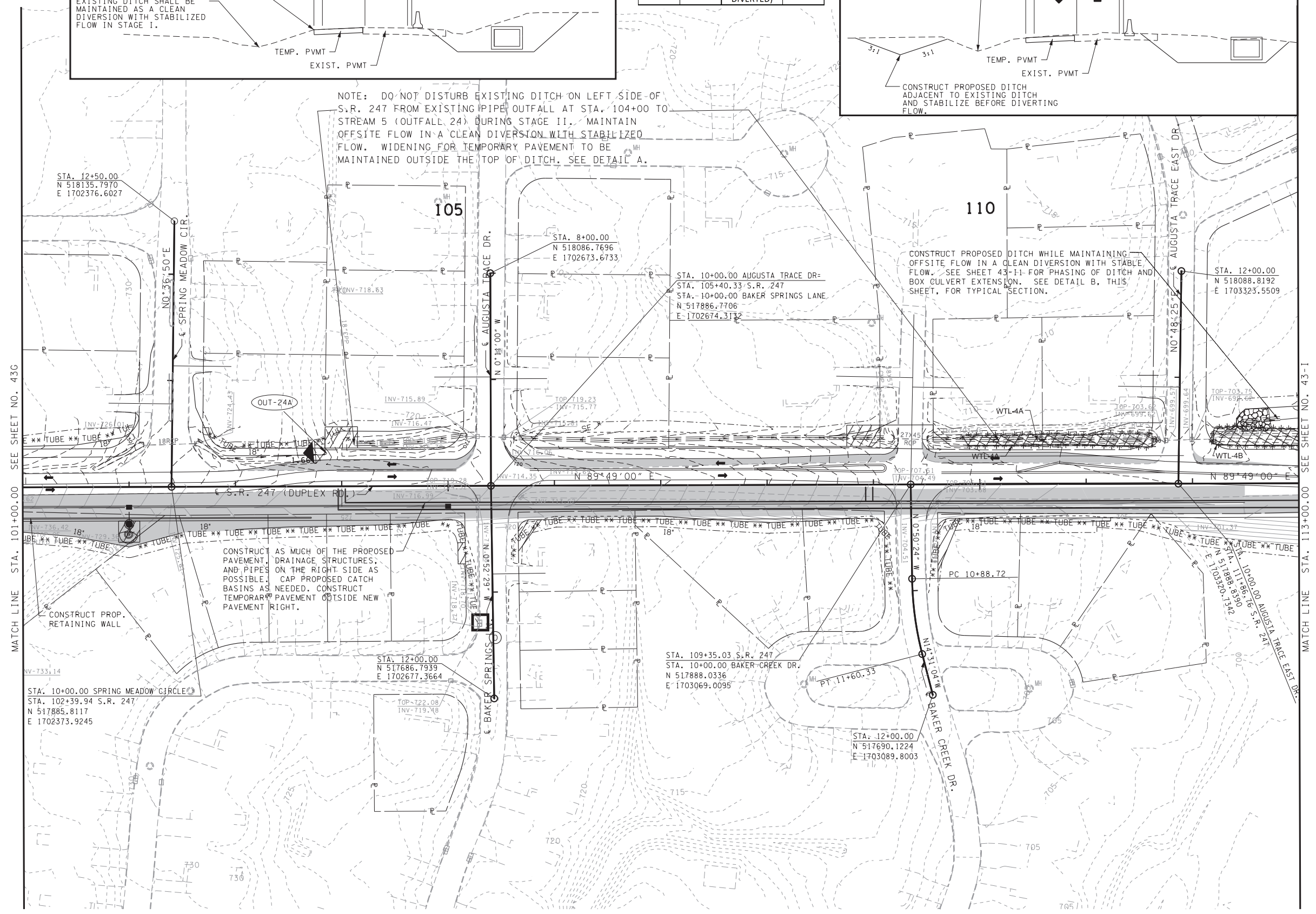
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE II

STA. 89+00.00 TO STA. 101+00.00
SCALE: 1" = 50'

OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	24A	7.5 (6.7 AC OFFSITE DIVERTED)	2.0%



NOTE: DO NOT DISTURB EXISTING DITCH ON LEFT SIDE OF S.R. 247 FROM EXISTING PIPE OUTFALL AT STA. 104+00 TO STREAM 5 (OUTFALL 24) DURING STAGE II. MAINTAIN OFFSITE FLOW IN A CLEAN DIVERSION WITH STABILIZED FLOW. WIDENING FOR TEMPORARY PAVEMENT TO BE MAINTAINED OUTSIDE THE TOP OF DITCH. SEE DETAIL A.



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	64
CONST.	2017	STP-M-247(9)	43H

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

MATCH LINE STA. 101+00.00 SEE SHEET NO. 43G

MATCH LINE STA. 113+00.00 SEE SHEET NO. 43-I

CONSTRUCT AS MUCH OF THE PROPOSED PAVEMENT, DRAINAGE STRUCTURES, AND PIPES ON THE RIGHT SIDE AS POSSIBLE. CAP PROPOSED CATCH BASINS AS NEEDED. CONSTRUCT TEMPORARY PAVEMENT OUTSIDE NEW PAVEMENT.

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

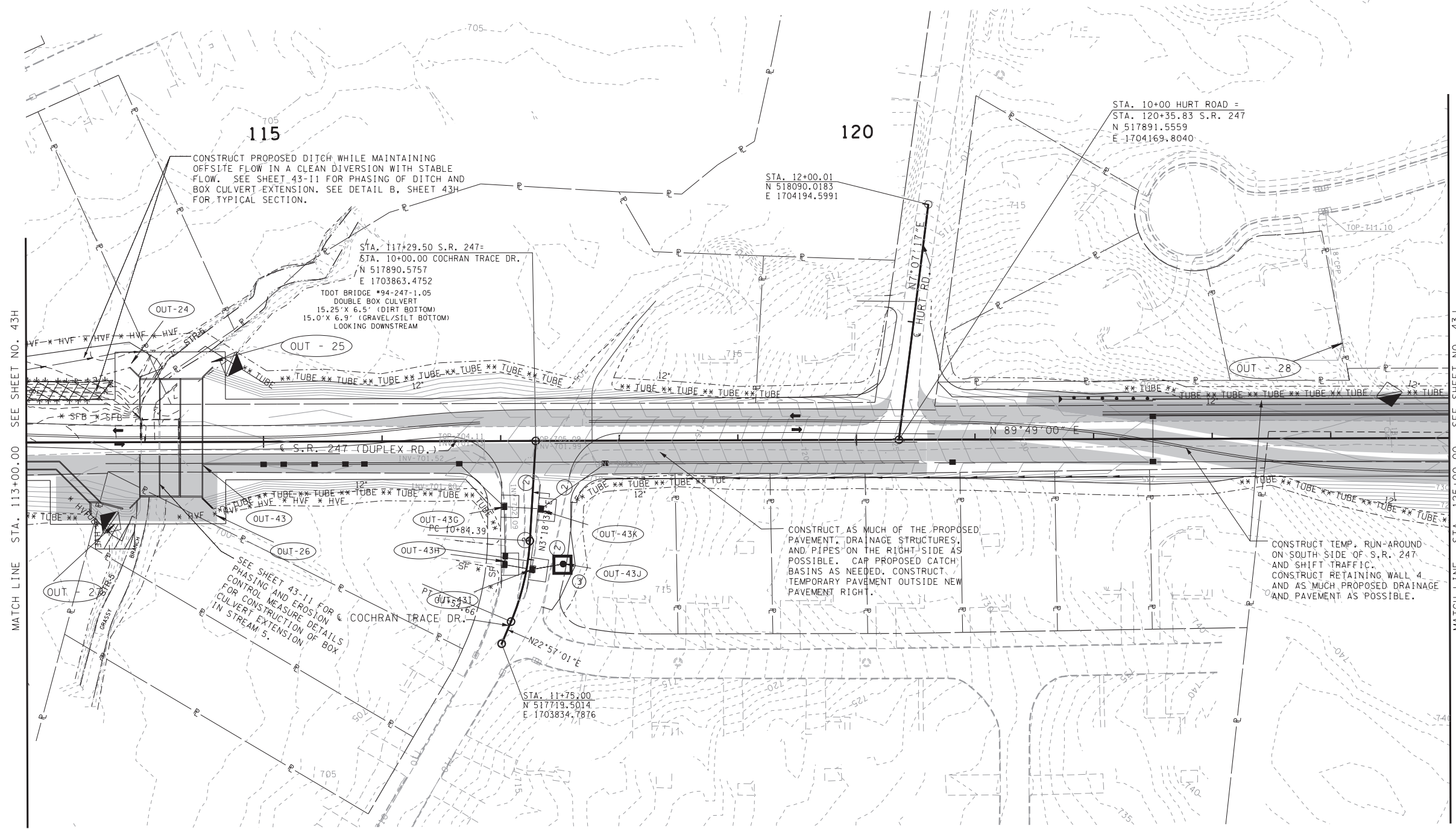
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA. 101+00.00 TO STA. 113+00.00
SCALE: 1" = 50'

OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
		76.9 (DIVERTED)	2.1%
24		0.75	3.80%
26		0.23	2.2%
27		1.53	3.5%
28		0.5	7.0%
43		4.405	5.0%
	43G	0.45	1.9%
	43H	0.128	0.9%
	43I	0.049	0.2%
	43J	0.913	1.0%
	43K	0.051	2.1%

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	65
CONST.	2017	STP-M-247(9)	43-I

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



MATCH LINE STA. 113+00.00 SEE SHEET NO. 43H

MATCH LINE STA. 125+00.00 SEE SHEET NO. 43J

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

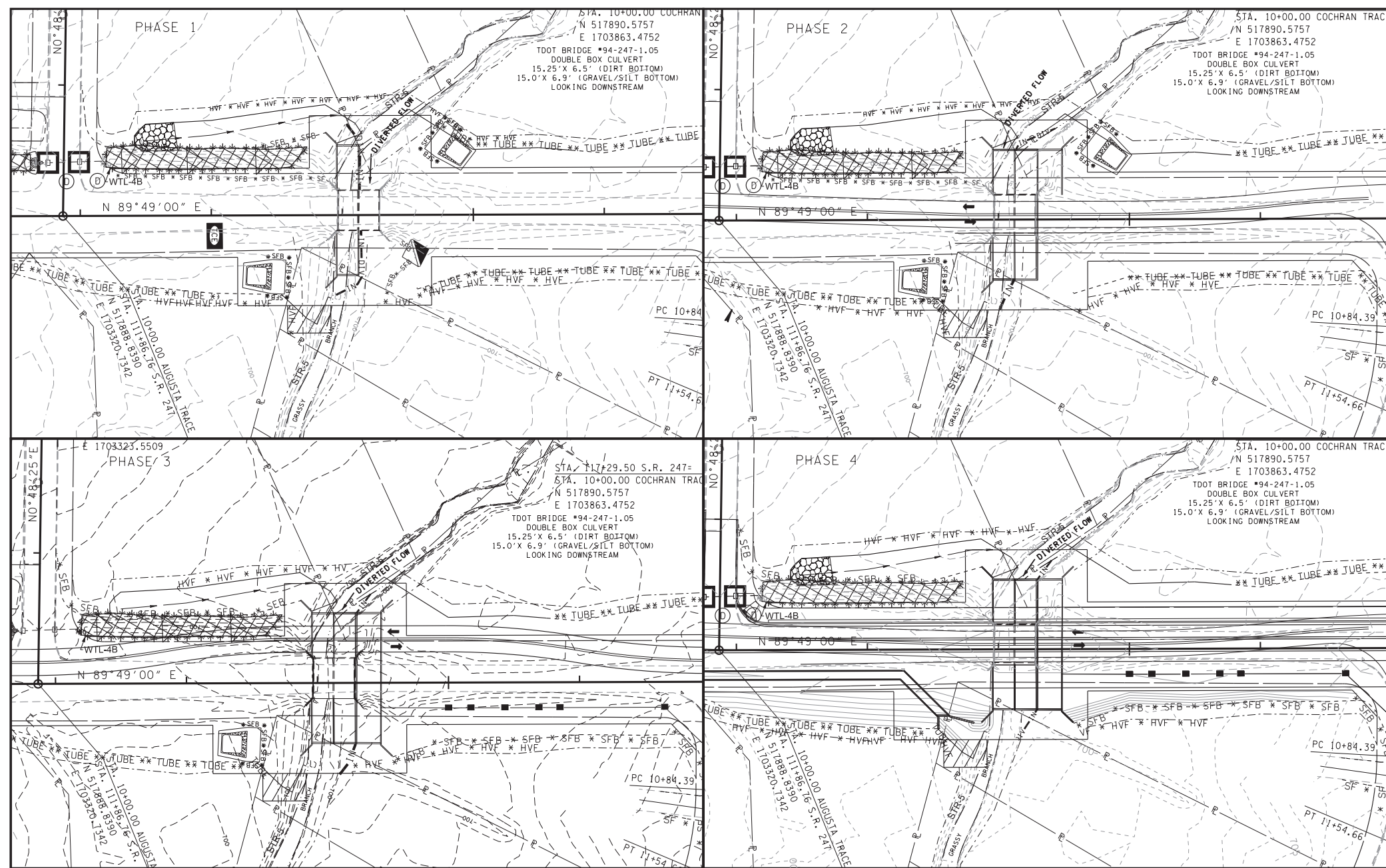
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II
STA. 113+00.00 TO STA. 123+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	65
CONST.	2017	STP-M-247(9)	43-11

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

GENERAL PHASING NOTES FOR CONSTRUCTION
OF THE SOUTH SIDE BOX CULVERT EXTENSION
STA. 114+12 - GRASSY BRANCH (STR-5)

1. MAINTAIN TRAFFIC ON EXISTING LANES OF S.R. 247. CONSTRUCT PROPOSED DITCH FROM AUGUSTA TRACE TO STREAM 5 WHILE MAINTAINING OFFSITE FLOW IN A CLEAN DIVERSION WITH STABLE FLOW. ONCE NEW DITCH IS STABILIZED, DIVERT OFFSITE FLOW INTO NEW CHANNEL. DIVERT FLOW IN STREAM 5 INTO WESTERN BARREL USING AN APPROVED INSTREAM DIVERSION DEVICE. CONSTRUCT THE PROPOSED BOX EXTENSION ON THE NORTH AND SOUTH SIDE OF S.R. 247 WITH NO FLOW. CONSTRUCTION OF THE EXTENSIONS MUST BE COMPLETED IN THE DRY.
2. DIVERT FLOW INTO THE EASTERN BARREL USING AN APPROVED INSTREAM DIVERSION DEVICE. CONSTRUCT THE BOX EXTENSION IN THE WESTERN BARREL ON BOTH SIDES OF S.R. 247, AND AS MUCH OF THE NEW OVERFLOW BARREL ON THE NORTH SIDE AS POSSIBLE.
3. CONSTRUCT TEMPORARY PAVEMENT ON NORTH SIDE OF S.R. 247 OVER NEWLY CONSTRUCTED BOX EXTENSION AND SHIFT TRAFFIC. MAINTAIN FLOW OF STREAM 5 IN THE TWO WESTERN BARRELS OF BOX CULVERT USING APPROVED INSTREAM DIVERSION DEVICES. COMPLETE CONSTRUCTION OF THE OVERFLOW BARREL ON THE SOUTH SIDE AND THE PROPOSED STORM DRAINAGE ON THE SOUTH SIDE TO COCHRAN TRACE.
4. WITH TRAFFIC SHIFTED TO THE NORTH SIDE OF S.R. 247, CONSTRUCT 6'X4' AND 8'X4' STORM SEWER BOX CULVERT ON THE SOUTH SIDE OF S.R. 247. UPON COMPLETION OF THE BOX CULVERT ON THE SOUTH SIDE, SHIFT TRAFFIC TO THE SOUTH SIDE AND COMPLETE THE BOX CULVERT INLETS ON THE NORTH SIDE OF S.R. 247. ONCE INLETS ARE COMPLETE, DIVERT OFFSITE FLOW INTO THE NEW BOX CULVERT. WIDENING AND GRADING OF THE NORTH SIDE OF S.R. 247 CAN BE COMPLETED AT THIS POINT.



SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

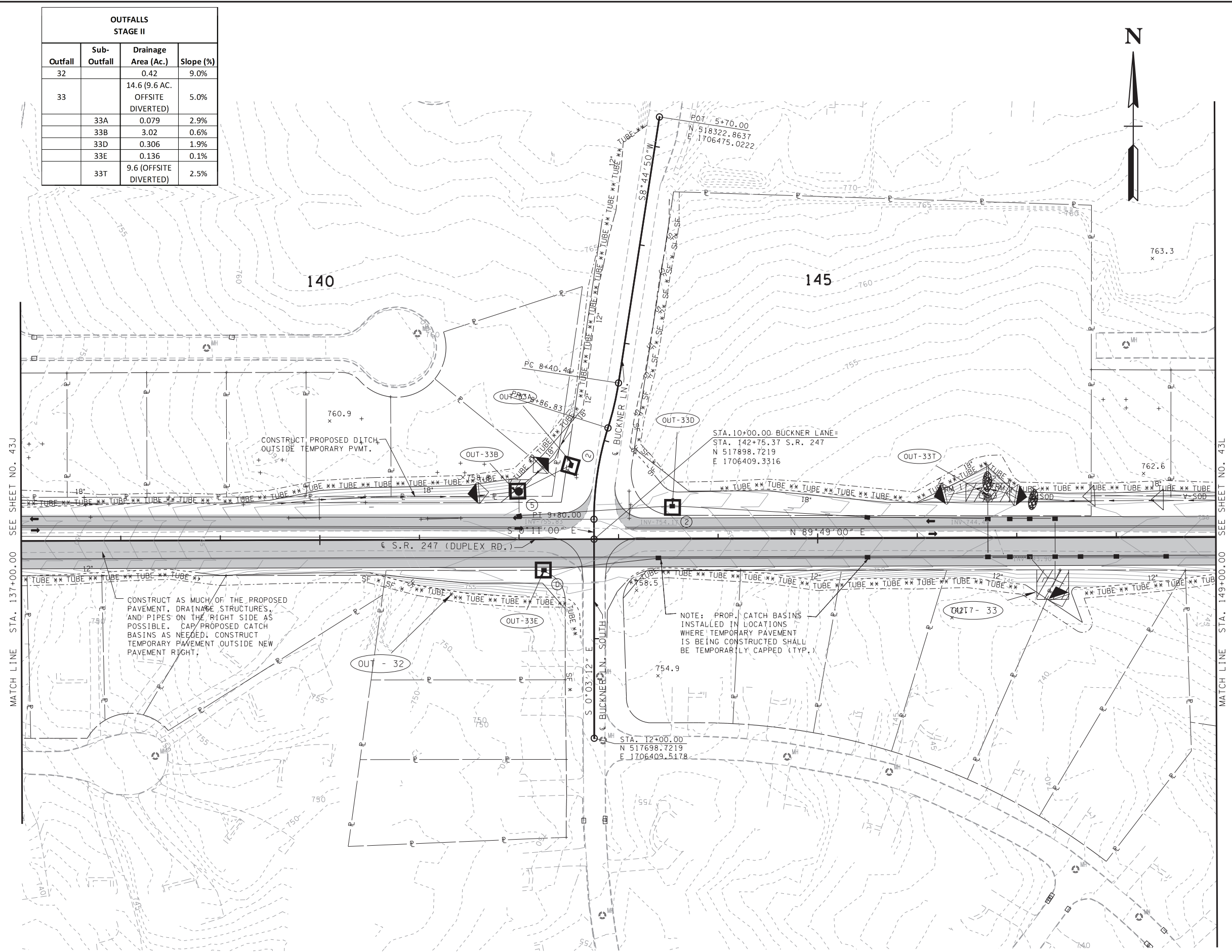
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE II

STA. 113+00.00 TO STA. 123+00.00
SCALE: 1" = 50'

OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
32		0.42	9.0%
33		14.6 (9.6 AC. OFFSITE DIVERTED)	5.0%
	33A	0.079	2.9%
	33B	3.02	0.6%
	33D	0.306	1.9%
	33E	0.136	0.1%
	33T	9.6 (OFFSITE DIVERTED)	2.5%

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	67
CONST.	2017	STP-M-247(9)	43K

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



CONSTRUCT AS MUCH OF THE PROPOSED PAVEMENT, DRAINAGE STRUCTURES AND PIPES ON THE RIGHT SIDE AS POSSIBLE. CAP PROPOSED CATCH BASINS AS NEEDED. CONSTRUCT TEMPORARY PAVEMENT OUTSIDE NEW PAVEMENT RIGHT.

NOTE: PROP. CATCH BASINS INSTALLED IN LOCATIONS WHERE TEMPORARY PAVEMENT IS BEING CONSTRUCTED SHALL BE TEMPORARILY CAPPED (TYP.)

MATCH LINE STA. 137+00.00 SEE SHEET NO. 43J

MATCH LINE STA. 149+00.00 SEE SHEET NO. 43L

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE II

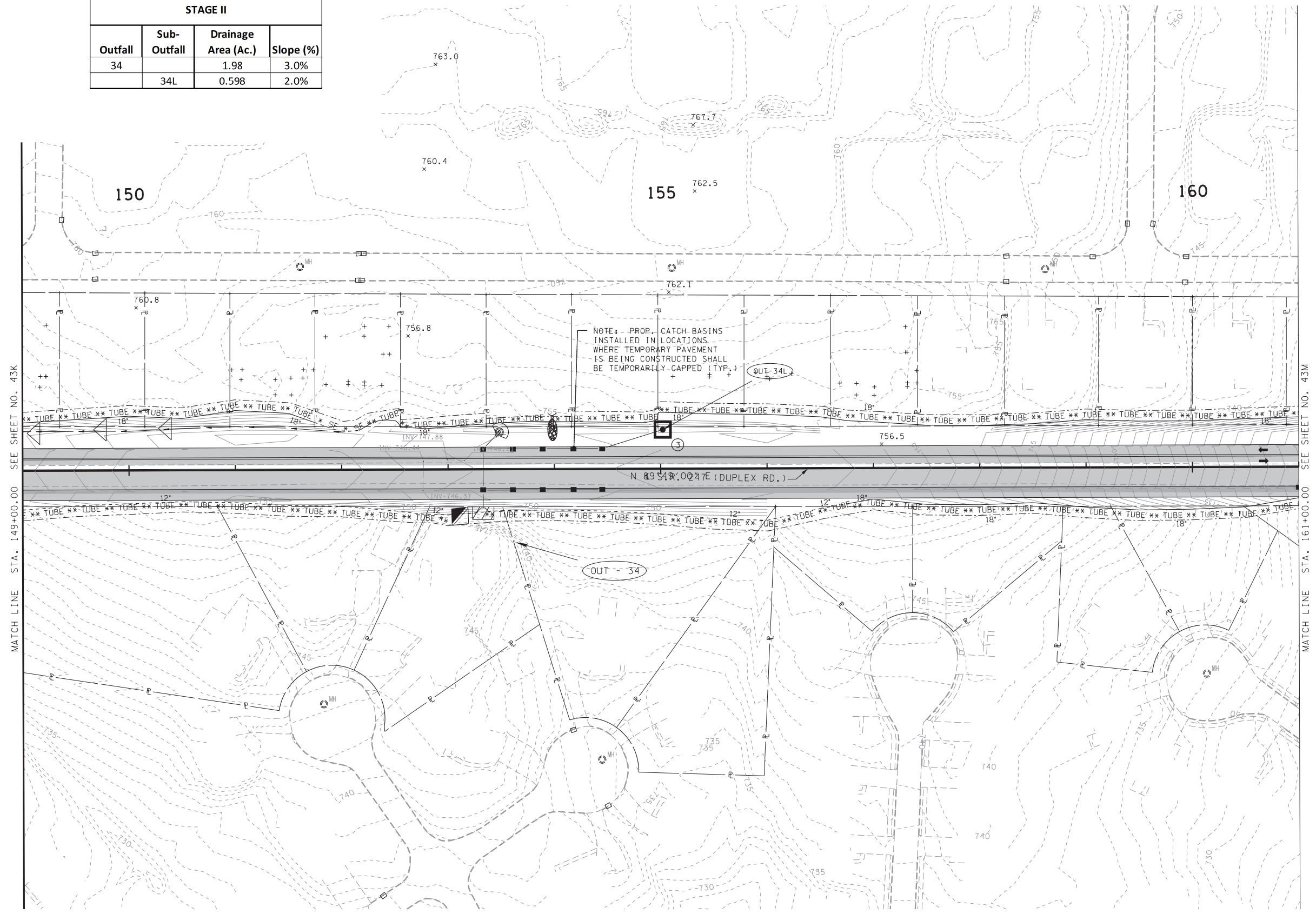
STA. 137+00.00 TO STA. 149+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	68
CONST.	2017	STP-M-247(9)	43L

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
34	34L	1.98	3.0%
		0.598	2.0%



MATCH LINE STA. 149+00.00 SEE SHEET NO. 43K

MATCH LINE STA. 161+00.00 SEE SHEET NO. 43M

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE II

STA. 149+00.00 TO STA. 161+00.00
SCALE: 1" = 50'

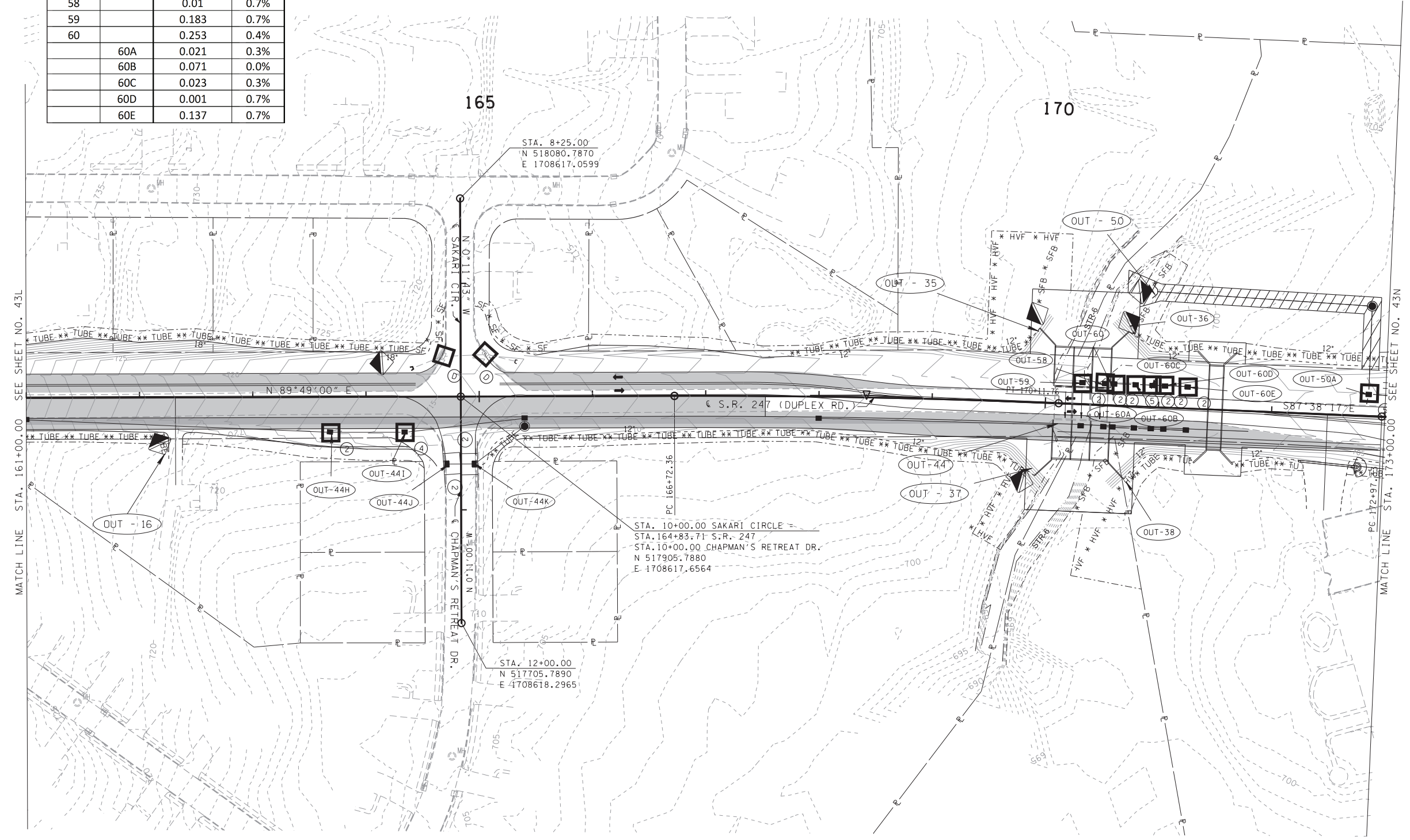
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	69
CONST.	2017	STP-M-247(9)	43M

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
16		0.5	6.0%
35		4.9	4.0%
36		2.5	3.5%
37		0.13	7.0%
38		1.13	2.7%
44		0.38	4.5%
	44H	0.2	2.9%
	44I	0.069	2.9%
	44J	0.038	1.3%
	44K	0.073	0.9%
50		17.84 (17.74 OFFSITE DIVERTED)	2.3%
	50A	0.051	2.8%
58		0.01	0.7%
59		0.183	0.7%
60		0.253	0.4%
	60A	0.021	0.3%
	60B	0.071	0.0%
	60C	0.023	0.3%
	60D	0.001	0.7%
	60E	0.137	0.7%

NOTE: SEE SHEET 43M-1 FOR PHASING OF BOX CULVERT EXTENSION AT STR-6 AND CONSTRUCTION OF GREENWAY BOX.



8:52:41 AM
M:\Spring Hill\duplex road\Sheets\043m_escp_Stage2.dgn

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

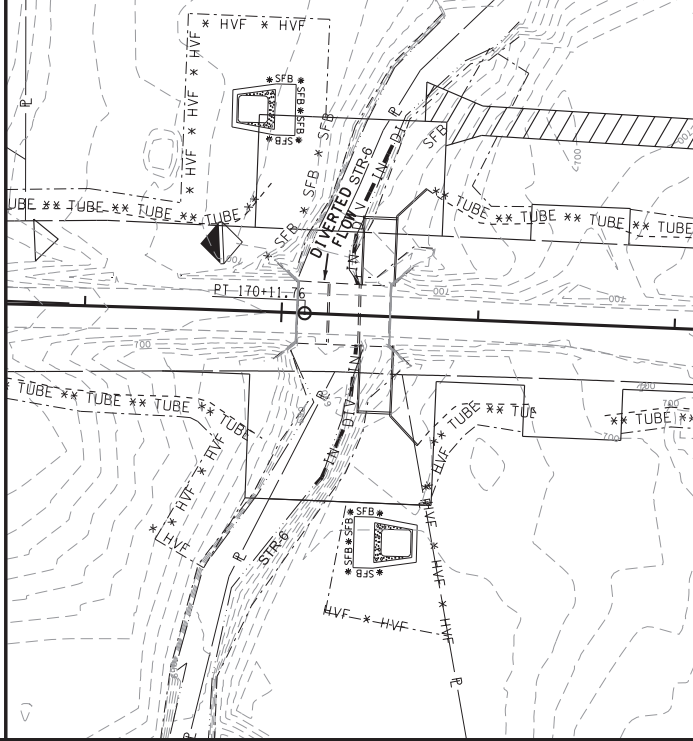
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE II

STA. 161+00.00 TO STA. 173+00.00
SCALE: 1" = 50'

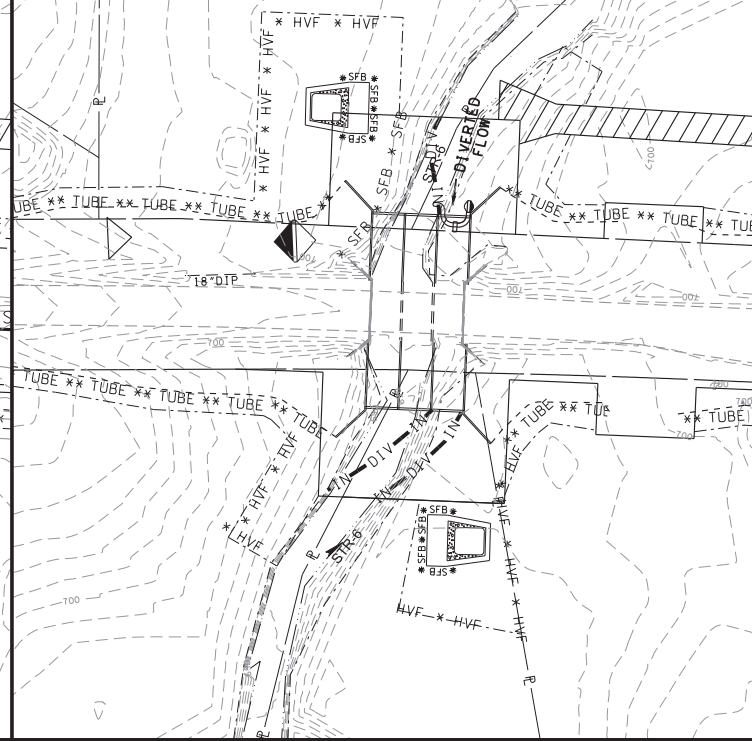
GENERAL PHASING NOTES FOR CONSTRUCTION
BOX CULVERT EXTENSION STA. 170+35
AENON CREEK (STR-6)
AND GREENWAY BOX CULVERT CONSTRUCTION

1. MAINTAIN TRAFFIC ON EXISTING S.R. 247 LANES. DIVERT FLOW IN STREAM 6 INTO WESTERN BARRELS USING AN APPROVED INSTREAM DIVERSION DEVICE. MAINTAIN TRAFFIC ON EXISTING LANES OF S.R. 247. CONSTRUCT THE PROPOSED BOX EXTENSIONS FOR THE EASTERN BARREL WITH NO FLOW ON THE NORTH AND SOUTH SIDE OF S.R. 247.
2. DIVERT FLOW INTO THE EASTERN BARREL USING AN APPROVED INSTREAM DIVERSION DEVICE. CONSTRUCT THE BOX EXTENSION IN THE WESTERN BARRELS ON THE NORTH AND SOUTH SIDES OF S.R. 247.
3. CONSTRUCT TEMPORARY PAVEMENT ON SOUTH SIDE OF S.R. 247 AND SHIFT TRAFFIC ONTO TEMPORARY PAVEMENT. CONSTRUCT THE NORTH SIDE OF THE GREENWAY BOX CULVERT. CONSTRUCT THE STORM DRAINAGE ON THE NORTH SIDE OF ROADWAY TO THE CREEK.
4. CONSTRUCT AS MUCH PROPOSED PAVEMENT ON THE NORTH SIDE OF S.R. 247 AS POSSIBLE, AND CONSTRUCT TEMPORARY PAVEMENT OUTSIDE NEW PAVEMENT. SHIFT TRAFFIC TO THE NEW AND TEMPORARY PAVEMENT. CONSTRUCT THE SOUTH SIDE OF THE GREENWAY BOX CULVERT.

AENON CREEK BOX CULVERT EXTENSION PHASE 1



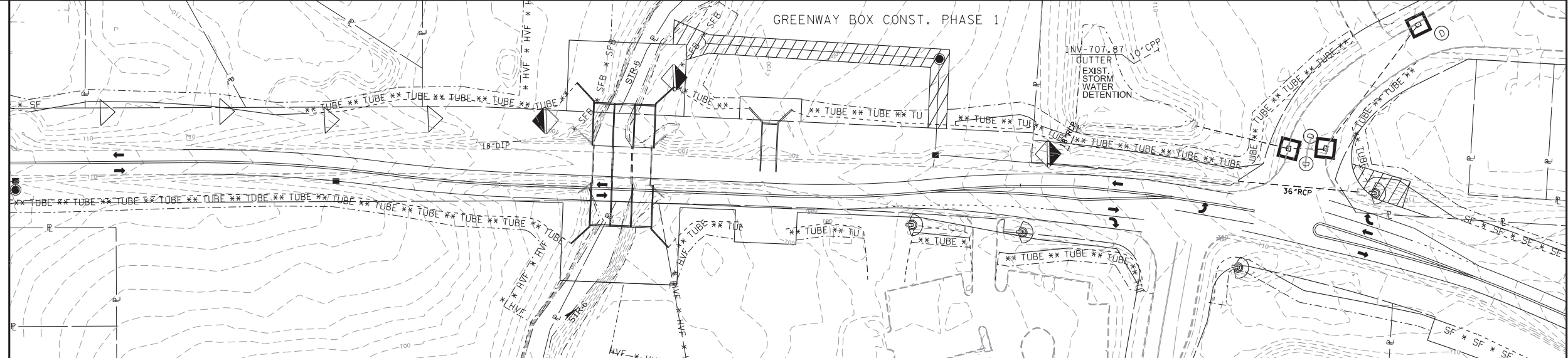
AENON CREEK BOX CULVERT EXTENSION PHASE 2



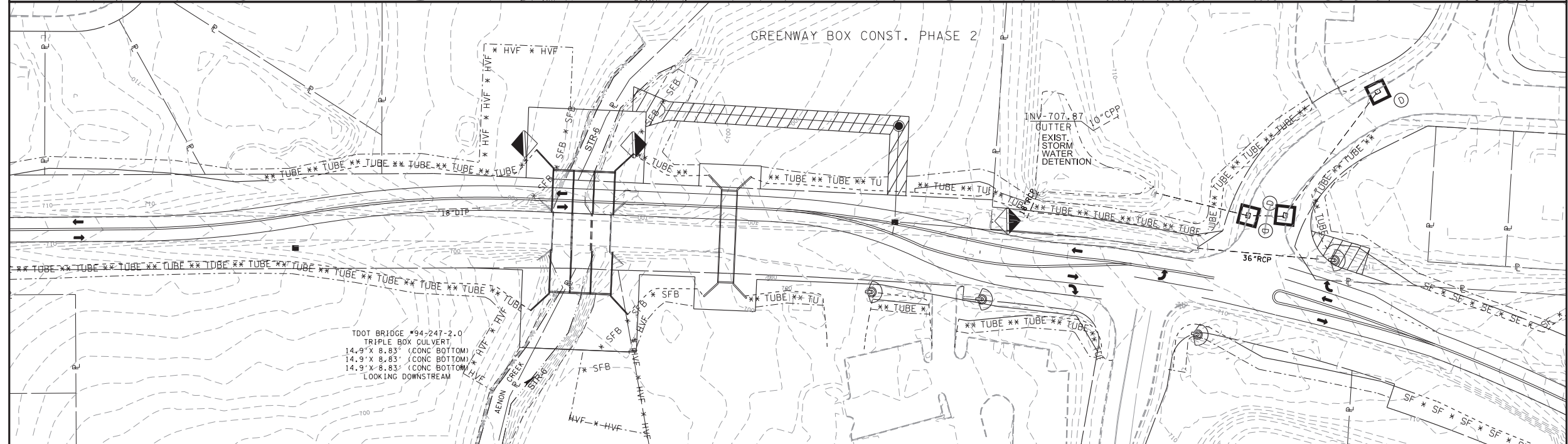
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	69
CONST.	2017	STP-M-247(9)	43M-1

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

GREENWAY BOX CONST. PHASE 1



GREENWAY BOX CONST. PHASE 2



TOTOT BRIDGE #94-247-2.0
TRIPLE BOX CULVERT
14.9' x 8.83' (CONC BOTTOM)
14.9' x 8.83' (CONC BOTTOM)
14.9' x 8.83' (CONC BOTTOM)
LOOKING DOWNSTREAM

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

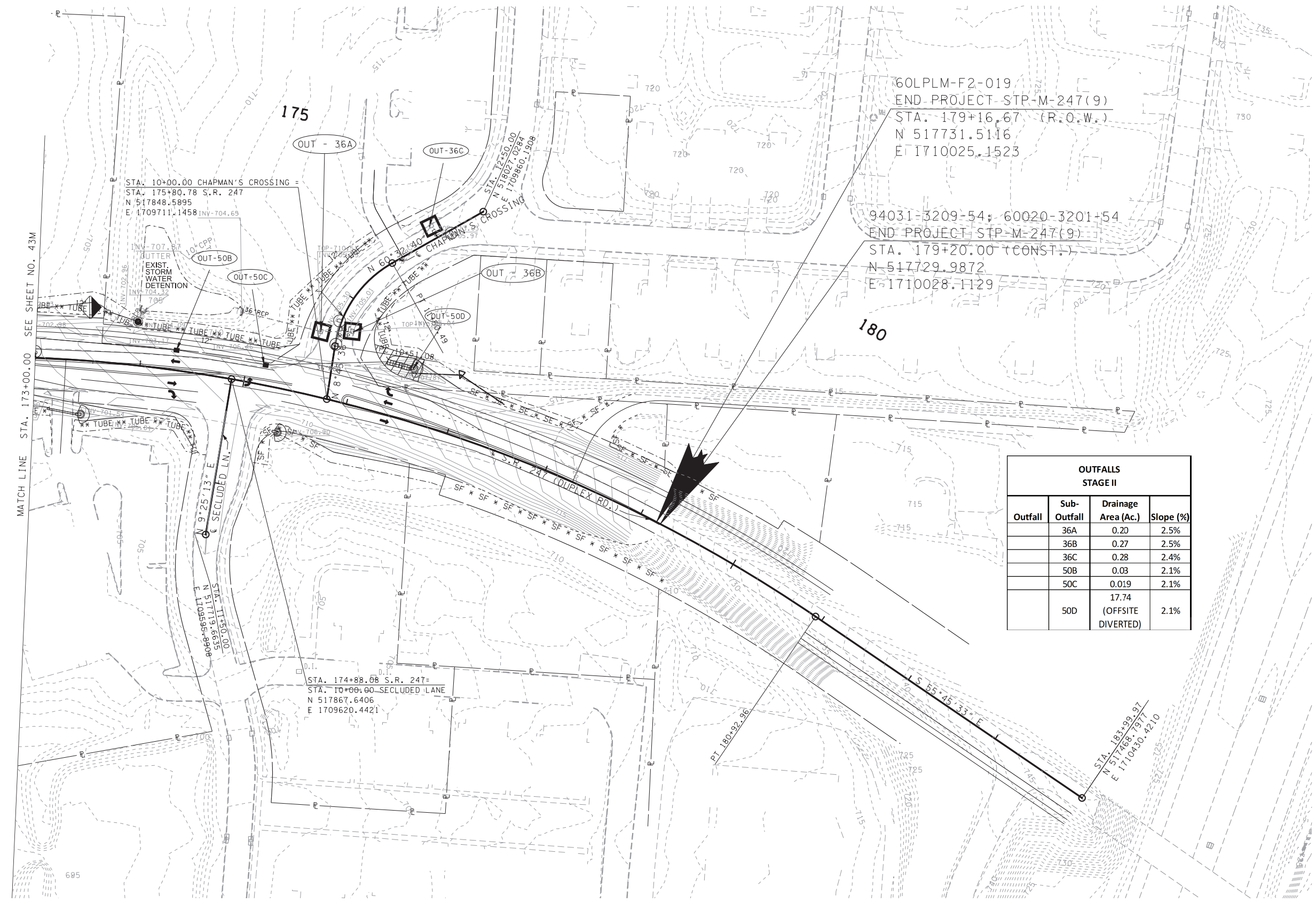
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

AENON CREEK
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	70
CONST.	2017	STP-M-247(9)	43N

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247



60LPLM-F2-019
END PROJECT STP-M-247(9)
STA. 179+16.67 (R.O.W.)
N 517731.5116
E 1710025.1523

94031-3209-54; 60020-3201+54
END PROJECT STP-M-247(9)
STA. 179+20.00 (CONST.)
N 517729.9872
E 1710028.1129

OUTFALLS STAGE II			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	36A	0.20	2.5%
	36B	0.27	2.5%
	36C	0.28	2.4%
	50B	0.03	2.1%
	50C	0.019	2.1%
	50D	17.74 (OFFSITE DIVERTED)	2.1%

MATCH LINE STA. 173+00.00 SEE SHEET NO. 43M

STA. 10+00.00 CHAPMAN'S CROSSING =
STA. 175+80.78 S.R. 247
N 517848.5895
E 1709711.1458

STA. 174+88.68 S.R. 247=
STA. 10+00.00 SECLUDED LANE
N 517867.6406
E 1709620.4421

N 9°25'13" E
STA. 1150.00
E 1109596.8999

STA. 183+99.97
N 517468.9977
E 1710430.4210

SEALED BY

COORDINATES ARE NAD 83 (1995),
AND ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00008 AND ARE TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE II
STA. 173+00.00 TO STA. 179+16.67

SCALE: 1" = 50'

OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
1		6.42	5.0%
	1F	0.084	5.4%
	1G	0.074	2.0%
	1H	0.078	0.1%
	1I	0.046	0.8%
	1J	0.072	1.2%
	1K	0.045	1.0%
	1L	0.85	0.8%
	1M	1.96	1.8%
	1N	0.1733	4.7%
	1O	0.137	4.7%
	1P	0.037	4.5%
	1Q	0.027	1.8%
	1R	0.063	3.1%
	1S	0.016	2.5%
	1T	0.134	3.5%
	1U	0.704	0.5%
	1V	0.049	4.0%
	1W	0.118	1.1%
	1X	0.048	2.3%
	1Y	0.118	2.0%
	1Z	0.186	1.6%

94031-3209-54; 60020-3201-54
BEGIN PROJECT STP-M-247 (9)
STA. 10+17.25 (CONST.)
N 518086.7388
E 1693173.1120

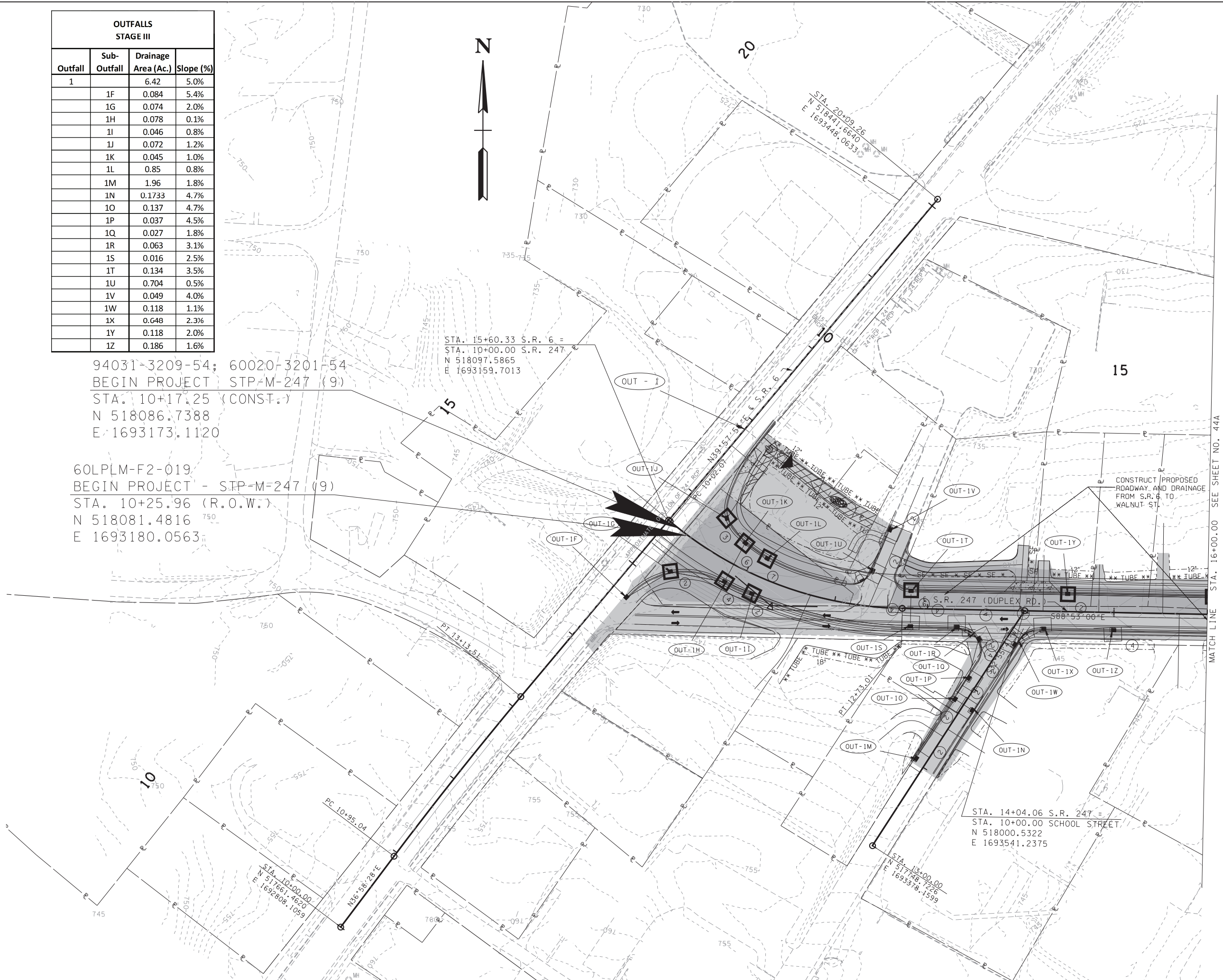
60LPLM-F2-019
BEGIN PROJECT - STP-M-247 (9)
STA. 10+25.96 (R.O.W.)
N 518081.4816
E 1693180.0563

STA. 15+60.33 S.R. 6 =
STA. 10+00.00 S.R. 247
N 518097.5865
E 1693159.7013

STA. 14+04.06 S.R. 247 =
STA. 10+00.00 SCHOOL STREET
N 518000.5322
E 1693541.2375

STA. 10+00.00
N 517661.4620
E 1692608.1059

STA. 13+00.00
N 517746.7226
E 1693378.1599



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	71
CONST.	2017	STP-M-247(9)	44

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

MATCH LINE STA. 16+00.00 SEE SHEET NO. 44A

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

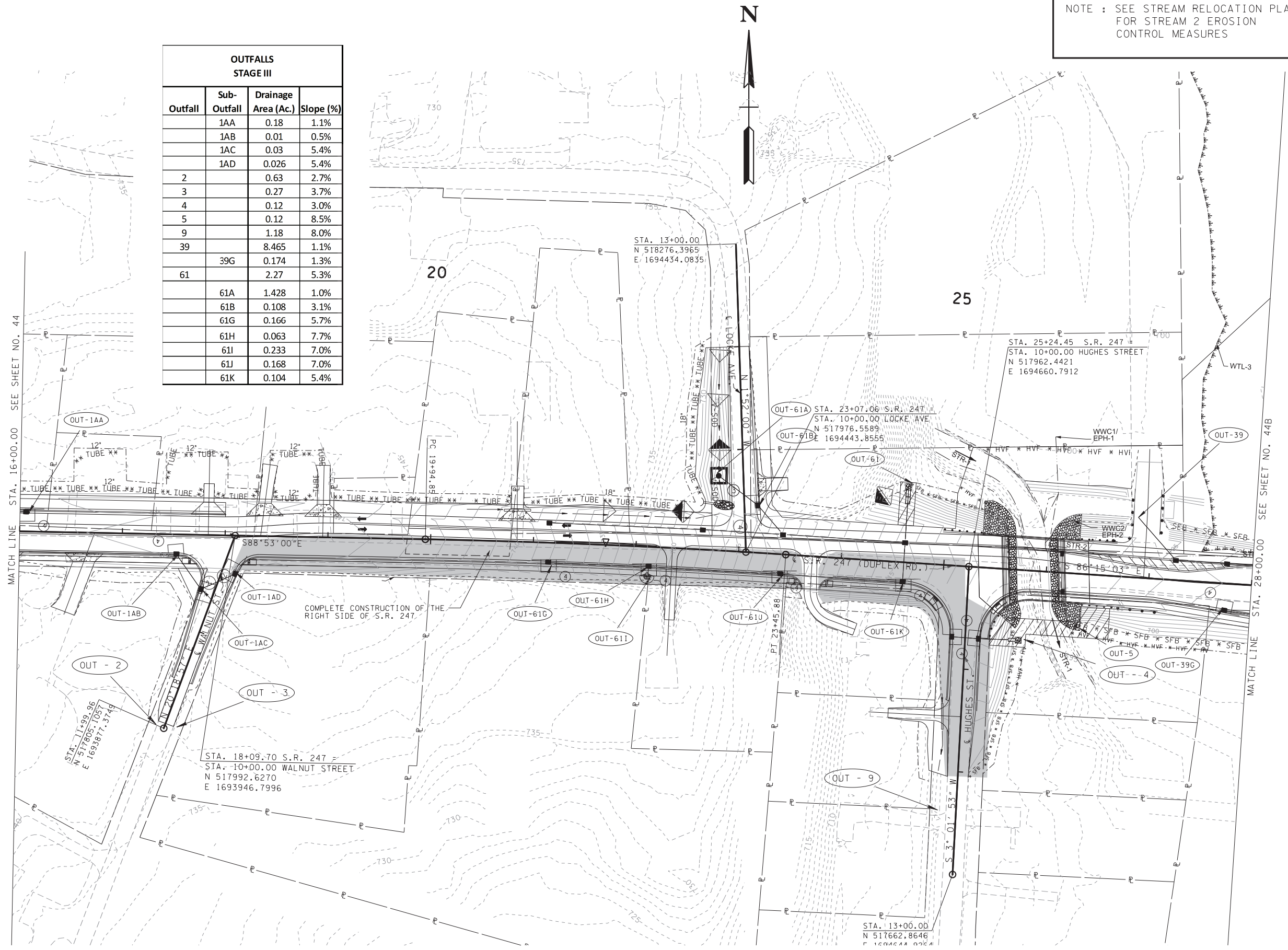
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE III
STA. 10+25.96 TO STA. 16+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	72
CONST.	2017	STP-M-247(9)	44A

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

NOTE : SEE STREAM RELOCATION PLAN FOR STREAM 2 EROSION CONTROL MEASURES

OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	1AA	0.18	1.1%
	1AB	0.01	0.5%
	1AC	0.03	5.4%
	1AD	0.026	5.4%
	2	0.63	2.7%
	3	0.27	3.7%
	4	0.12	3.0%
	5	0.12	8.5%
	9	1.18	8.0%
	39	8.465	1.1%
	61	2.27	5.3%
	61A	1.428	1.0%
	61B	0.108	3.1%
	61G	0.166	5.7%
	61H	0.063	7.7%
	61I	0.233	7.0%
	61J	0.168	7.0%
	61K	0.104	5.4%



8:53:10 AM
M:\Spring Hill\duplex road\Sheets\044a_escp_Stage3.dgn

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III
STA. 16+00.00 TO STA. 28+00.00
SCALE: 1" = 50'

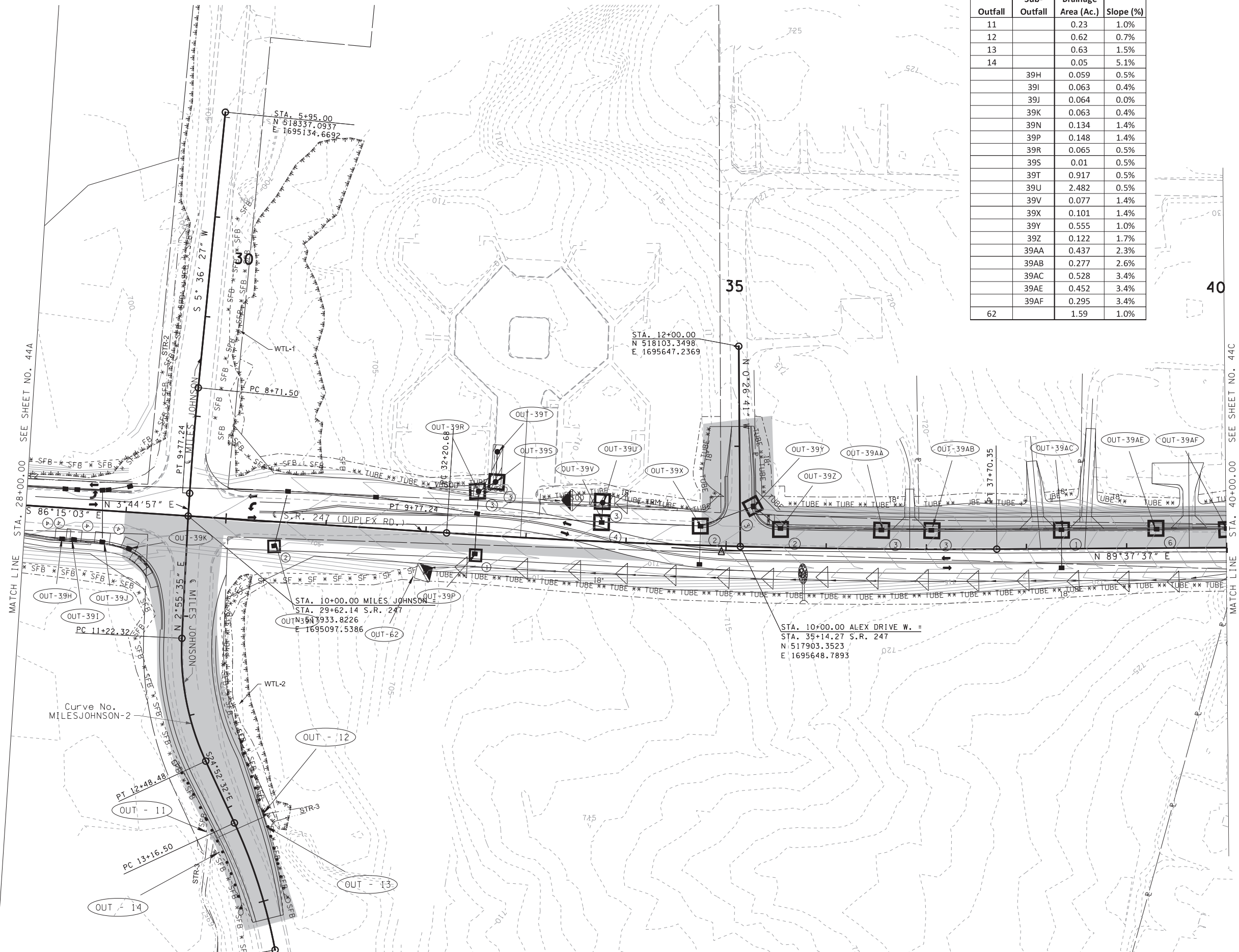


NOTE : SEE STREAM RELOCATION PLAN FOR STREAM 2 EROSION CONTROL MEASURES

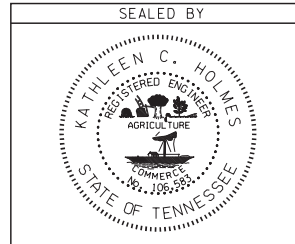
OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
11		0.23	1.0%
12		0.62	0.7%
13		0.63	1.5%
14		0.05	5.1%
	39H	0.059	0.5%
	39I	0.063	0.4%
	39J	0.064	0.0%
	39K	0.063	0.4%
	39N	0.134	1.4%
	39P	0.148	1.4%
	39R	0.065	0.5%
	39S	0.01	0.5%
	39T	0.917	0.5%
	39U	2.482	0.5%
	39V	0.077	1.4%
	39X	0.101	1.4%
	39Y	0.555	1.0%
	39Z	0.122	1.7%
	39AA	0.437	2.3%
	39AB	0.277	2.6%
	39AC	0.528	3.4%
	39AE	0.452	3.4%
	39AF	0.295	3.4%
62		1.59	1.0%

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	73
CONST.	2017	STP-M-247(9)	44B

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



11/05/55 AM
M:\Spring Hill\duplex road\Sheets\044b_escp_Stage3.dgn



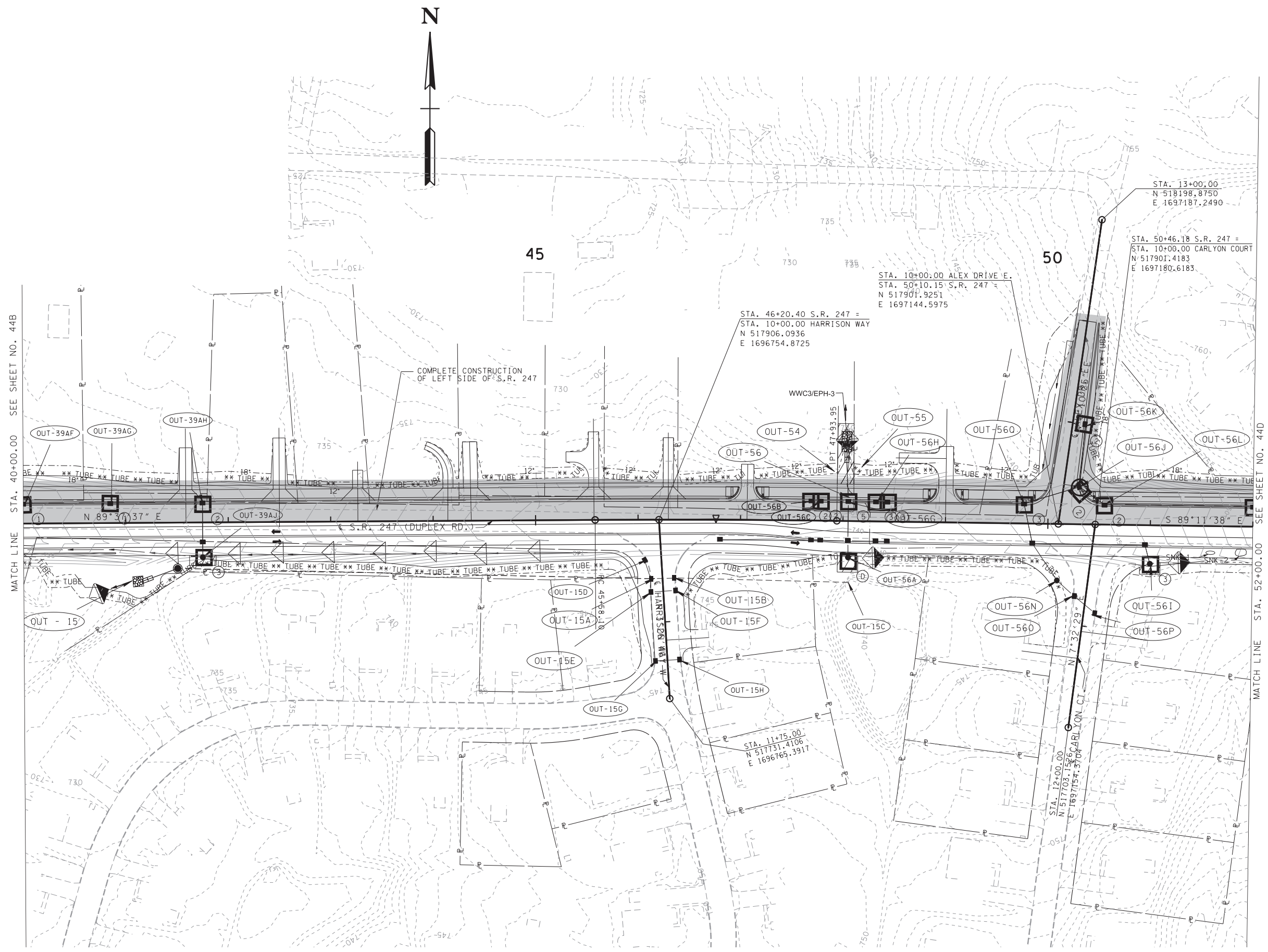
COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III
STA. 28+00.00 TO STA. 40+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	74
CONST.	2017	STP-M-247(9)	44C

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247



OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
15		34.7	2.2%
	15A	0.14	3.3%
	15B	0.26	3.7%
	15C	30.19 (OFFSITE DIVERTED)	4.5%
	15D	0.073	0.1%
	15E	0.127	2.1%
	15F	0.142	1.5%
	15G	0.375	4.0%
	15H	0.178	6.5%
	39AF	0.295	3.4%
	39AG	0.186	3.4%
	39AH	0.389	3.4%
	39AJ	0.866	3.3%
54		0.18	4.1%
55		0.5	6.2%
56		3.923	2.1%
	56A	0.197	2.0%
	56B	0.149	0.4%
	56C	0.048	0.0%
	56G	0.054	0.0%
	56H	0.108	0.4%
	56I	0.196	10.0%
	56J	1.01	6.5%
	56K	0.333	5.6%
	56L	0.218	3.7%
	56N	0.131	0.5%
	56O	0.137	0.1%
	56P	0.19	0.1%
	56Q	0.038	2.5%

SEALED BY

COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

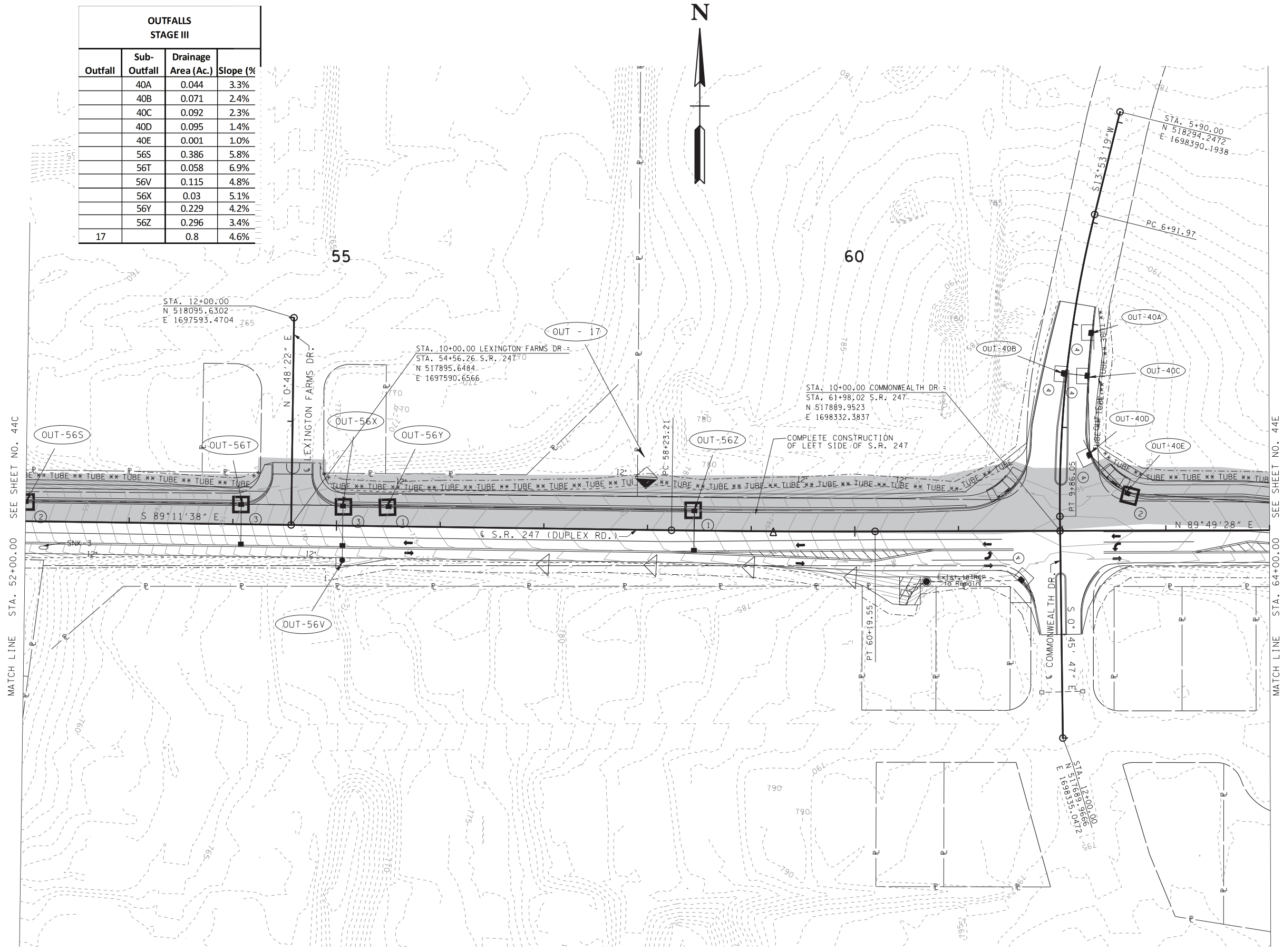
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE III

STA. 40+00.00 TO STA. 52+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44D

MAURY/WILLIAMSON CO. 60020-3201-54 (CONST.) S.R. 247

OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	40A	0.044	3.3%
	40B	0.071	2.4%
	40C	0.092	2.3%
	40D	0.095	1.4%
	40E	0.001	1.0%
	56S	0.386	5.8%
	56T	0.058	6.9%
	56V	0.115	4.8%
	56X	0.03	5.1%
	56Y	0.229	4.2%
	56Z	0.296	3.4%
17		0.8	4.6%



MATCH LINE STA. 52+00.00 SEE SHEET NO. 44C

MATCH LINE STA. 64+00.00 SEE SHEET NO. 44E

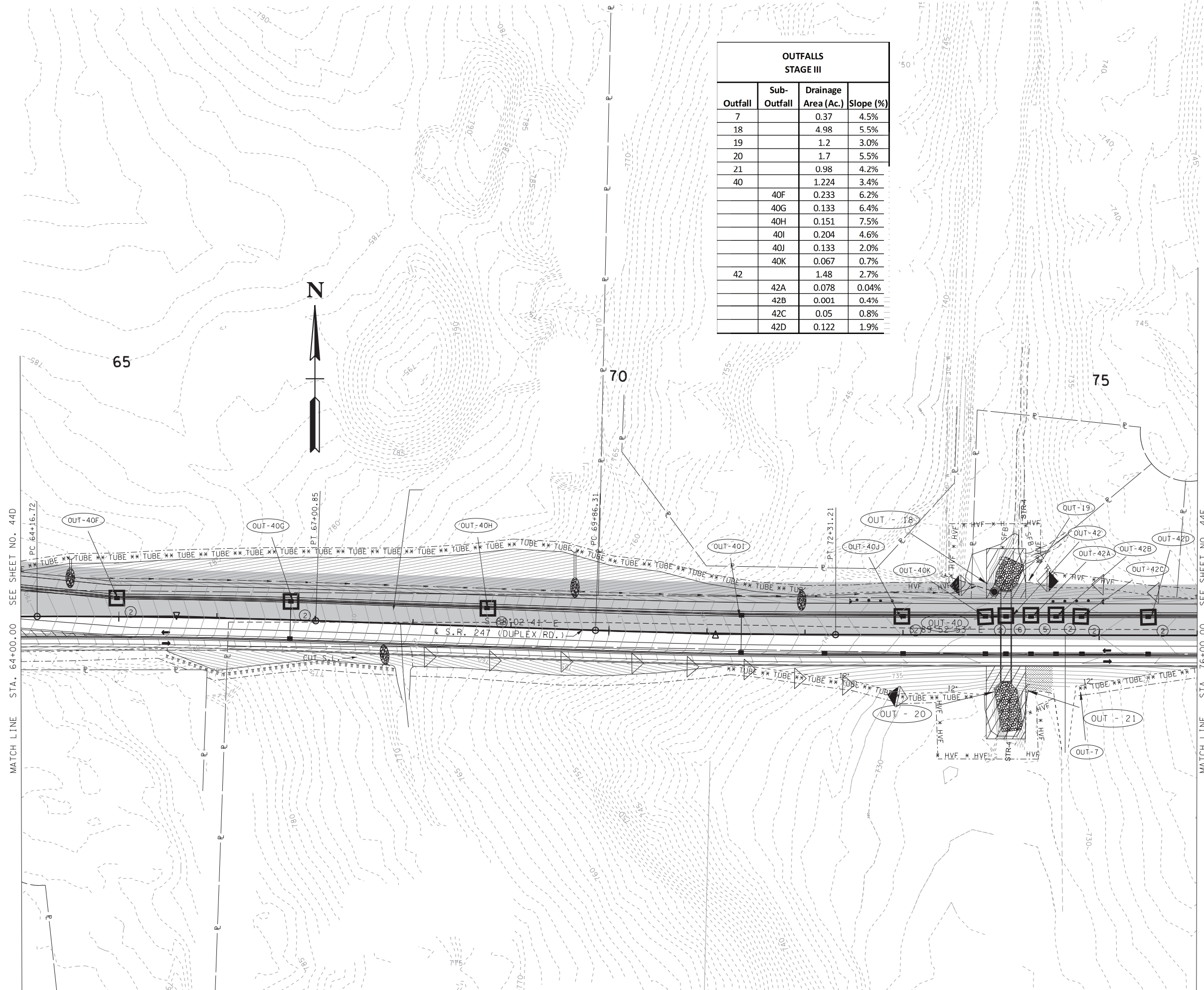
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III
STA. 52+00.00 TO STA. 64+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44E

MAURY/WILLIAMSON CO.
 60020-3201-54 (CONST.) S.R. 247

OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
7		0.37	4.5%
18		4.98	5.5%
19		1.2	3.0%
20		1.7	5.5%
21		0.98	4.2%
40		1.224	3.4%
	40F	0.233	6.2%
	40G	0.133	6.4%
	40H	0.151	7.5%
	40I	0.204	4.6%
	40J	0.133	2.0%
	40K	0.067	0.7%
42		1.48	2.7%
	42A	0.078	0.04%
	42B	0.001	0.4%
	42C	0.05	0.8%
	42D	0.122	1.9%



MATCH LINE STA. 64+00.00 SEE SHEET NO. 44D

MATCH LINE STA. 76+00.00 SEE SHEET NO. 44F

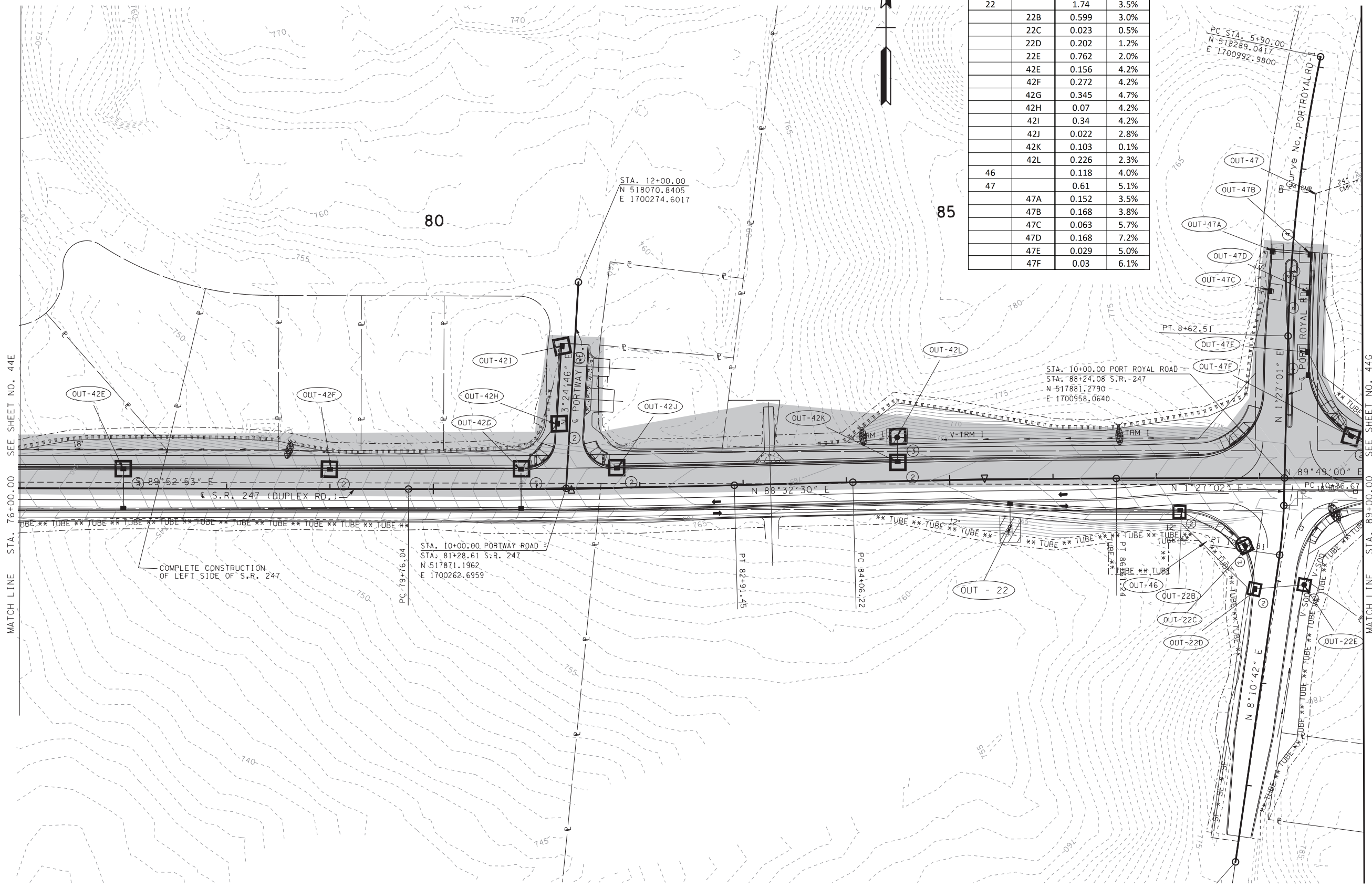
SEALED BY

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 EROSION
 PREVENTION AND
 SEDIMENT CONTROL
 PLAN STAGE III
 STA. 64+00.00 TO STA. 76+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44F

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247

OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
22		1.74	3.5%
22B		0.599	3.0%
22C		0.023	0.5%
22D		0.202	1.2%
22E		0.762	2.0%
42E		0.156	4.2%
42F		0.272	4.2%
42G		0.345	4.7%
42H		0.07	4.2%
42I		0.34	4.2%
42J		0.022	2.8%
42K		0.103	0.1%
42L		0.226	2.3%
46		0.118	4.0%
47		0.61	5.1%
47A		0.152	3.5%
47B		0.168	3.8%
47C		0.063	5.7%
47D		0.168	7.2%
47E		0.029	5.0%
47F		0.03	6.1%



SEALED BY

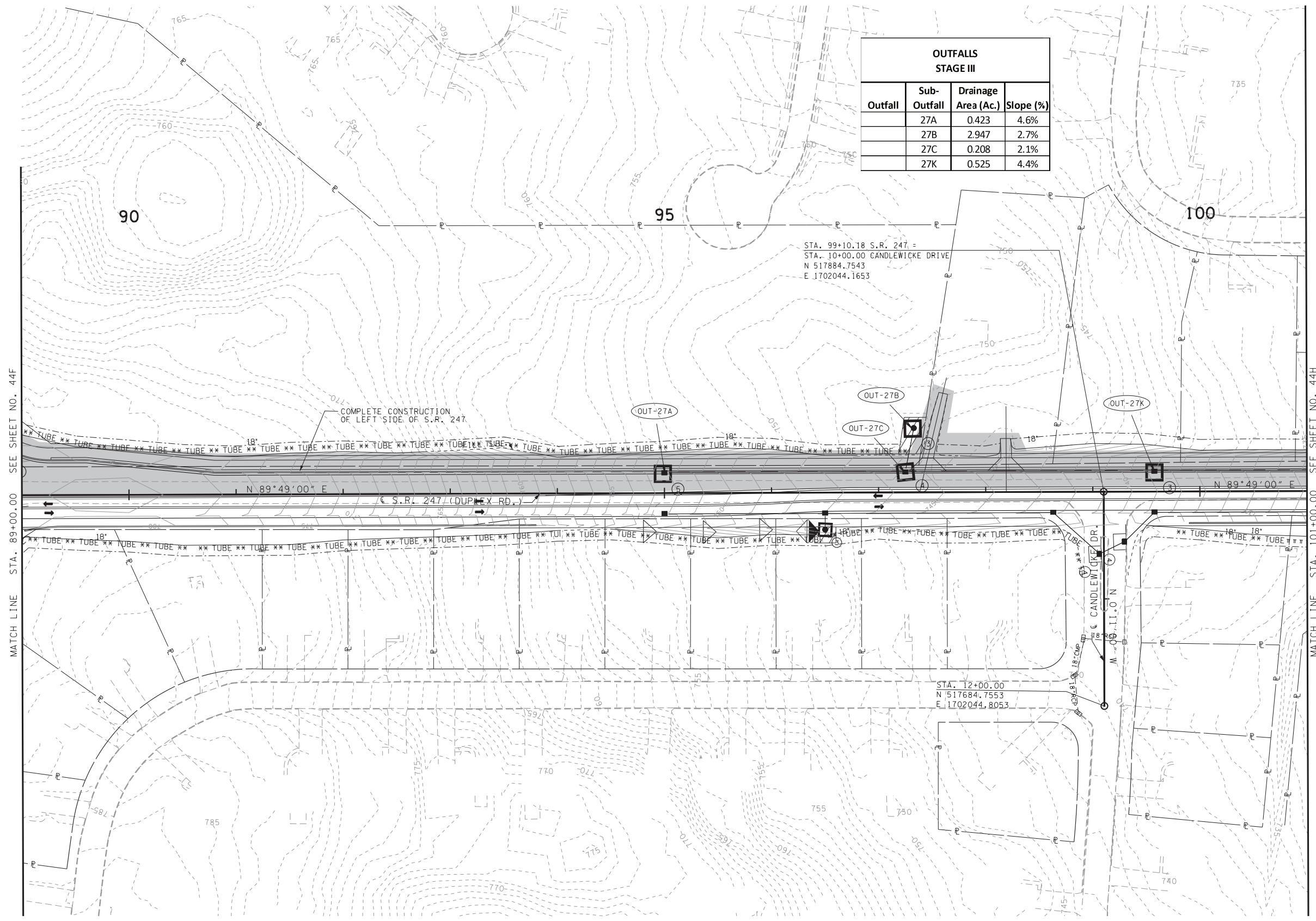
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III
STA. 76+00.00 TO STA. 89+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44G

MAURY/WILLIAMSON CO. S.R. 247
 60020-3201-54 (CONST.)



OUTFALLS STAGE III			
Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
	27A	0.423	4.6%
	27B	2.947	2.7%
	27C	0.208	2.1%
	27K	0.525	4.4%



MATCH LINE STA. 89+00.00 SEE SHEET NO. 44F

MATCH LINE STA. 101+00.00 SEE SHEET NO. 44H

SEALED BY

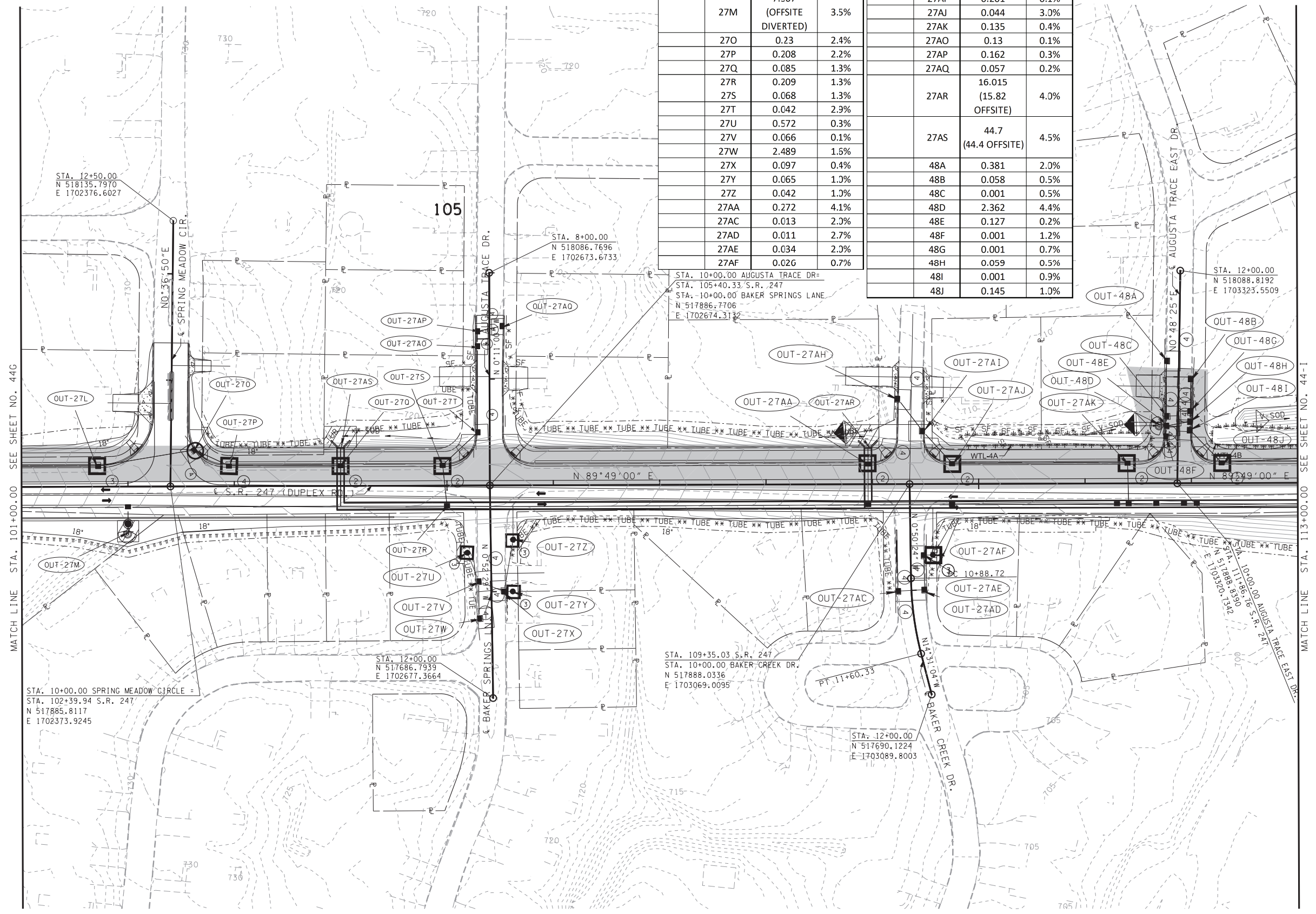
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 EROSION
 PREVENTION AND
 SEDIMENT CONTROL
 PLAN STAGE III
 STA. 89+00.00 TO STA. 101+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44H

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE III				OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)	Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	27L	0.236	4.0%		27AH	0.059	0.2%
		7.567			27AI	0.201	0.1%
	27M	(OFFSITE DIVERTED)	3.5%		27AJ	0.044	3.0%
					27AK	0.135	0.4%
	27O	0.23	2.4%		27AO	0.13	0.1%
	27P	0.208	2.2%		27AP	0.162	0.3%
	27Q	0.085	1.3%		27AQ	0.057	0.2%
	27R	0.209	1.3%		27AR	16.015 (15.82 OFFSITE)	4.0%
	27S	0.068	1.3%				
	27T	0.042	2.9%		27AS	44.7 (44.4 OFFSITE)	4.5%
	27U	0.572	0.3%		48A	0.381	2.0%
	27V	0.066	0.1%		48B	0.058	0.5%
	27W	2.489	1.5%		48C	0.001	0.5%
	27X	0.097	0.4%		48D	2.362	4.4%
	27Y	0.065	1.0%		48E	0.127	0.2%
	27Z	0.042	1.0%		48F	0.001	1.2%
	27AA	0.272	4.1%		48G	0.001	0.7%
	27AC	0.013	2.0%		48H	0.059	0.5%
	27AD	0.011	2.7%		48I	0.001	0.9%
	27AE	0.034	2.0%		48J	0.145	1.0%
	27AF	0.026	0.7%				



MATCH LINE STA. 101+00.00 SEE SHEET NO. 44G

MATCH LINE STA. 113+00.00 SEE SHEET NO. 44-I

STA. 10+00.00 SPRING MEADOW CIRCLE =
STA. 102+39.94 S.R. 247
N 517885.8117
E 1702373.9245

STA. 12+00.00
N 517686.7939
E 1702677.3664

STA. 109+35.03 S.R. 247
STA. 10+00.00 BAKER CREEK DR.
N 517888.0336
E 1703069.0095

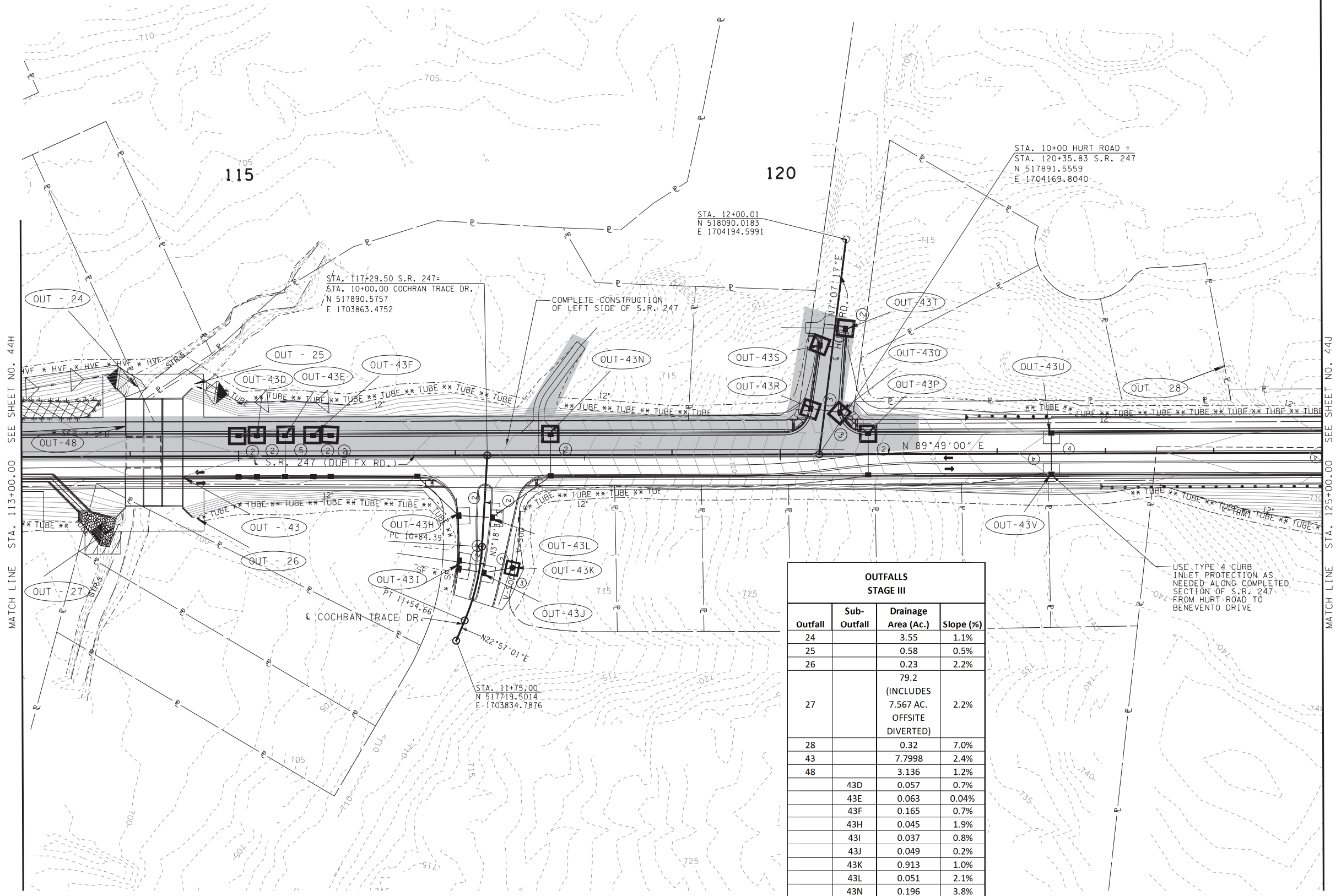
STA. 12+00.00
N 517690.1224
E 1703089.8003

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III
STA. 101+00.00 TO STA. 113+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44 - I

MAURY/WILLIAMSON CO. S.R. 247
 60020-3201-54 (CONST.)



OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
24		3.55	1.1%
25		0.58	0.5%
26		0.23	2.2%
27		79.2 (INCLUDES 7.567 AC. OFFSITE DIVERTED)	2.2%
28		0.32	7.0%
43		7.7998	2.4%
48		3.136	1.2%
	43D	0.057	0.7%
	43E	0.063	0.04%
	43F	0.165	0.7%
	43H	0.045	1.9%
	43I	0.037	0.8%
	43J	0.049	0.2%
	43K	0.913	1.0%
	43L	0.051	2.1%
	43N	0.196	3.8%
	43P	0.139	4.7%
	43Q	0.025	2.4%
	43R	0.034	2.2%
	43S	0.0274	6.6%
	43T	0.06	10.1%
	43U	0.199	0.9%
	43V	0.188	0.9%

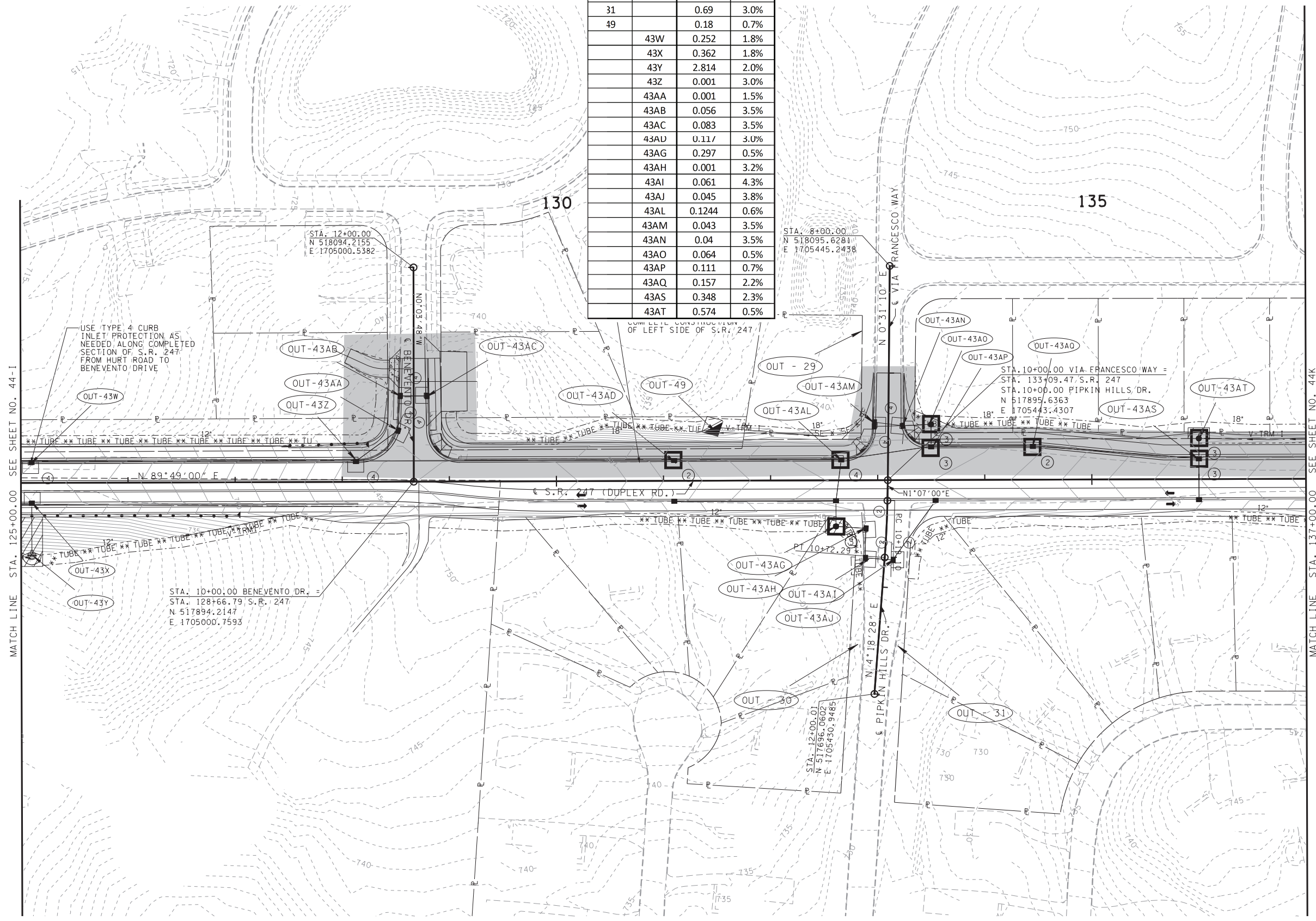
SEALED BY

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 EROSION
 PREVENTION AND
 SEDIMENT CONTROL
 PLAN STAGE III
 STA. 113+00.00 TO STA. 123+00.00

OUTFALLS STAGE III			
Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
29		0.75	2.1%
30		0.3	3.3%
31		0.69	3.0%
49		0.18	0.7%
43W		0.252	1.8%
43X		0.362	1.8%
43Y		2.814	2.0%
43Z		0.001	3.0%
43AA		0.001	1.5%
43AB		0.056	3.5%
43AC		0.083	3.5%
43AD		0.111	3.0%
43AG		0.297	0.5%
43AH		0.001	3.2%
43AI		0.061	4.3%
43AJ		0.045	3.8%
43AL		0.1244	0.6%
43AM		0.043	3.5%
43AN		0.04	3.5%
43AO		0.064	0.5%
43AP		0.111	0.7%
43AQ		0.157	2.2%
43AS		0.348	2.3%
43AT		0.574	0.5%

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44J

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



MATCH LINE STA. 125+00.00 SEE SHEET NO. 44-I

MATCH LINE STA. 137+00.00 SEE SHEET NO. 44K

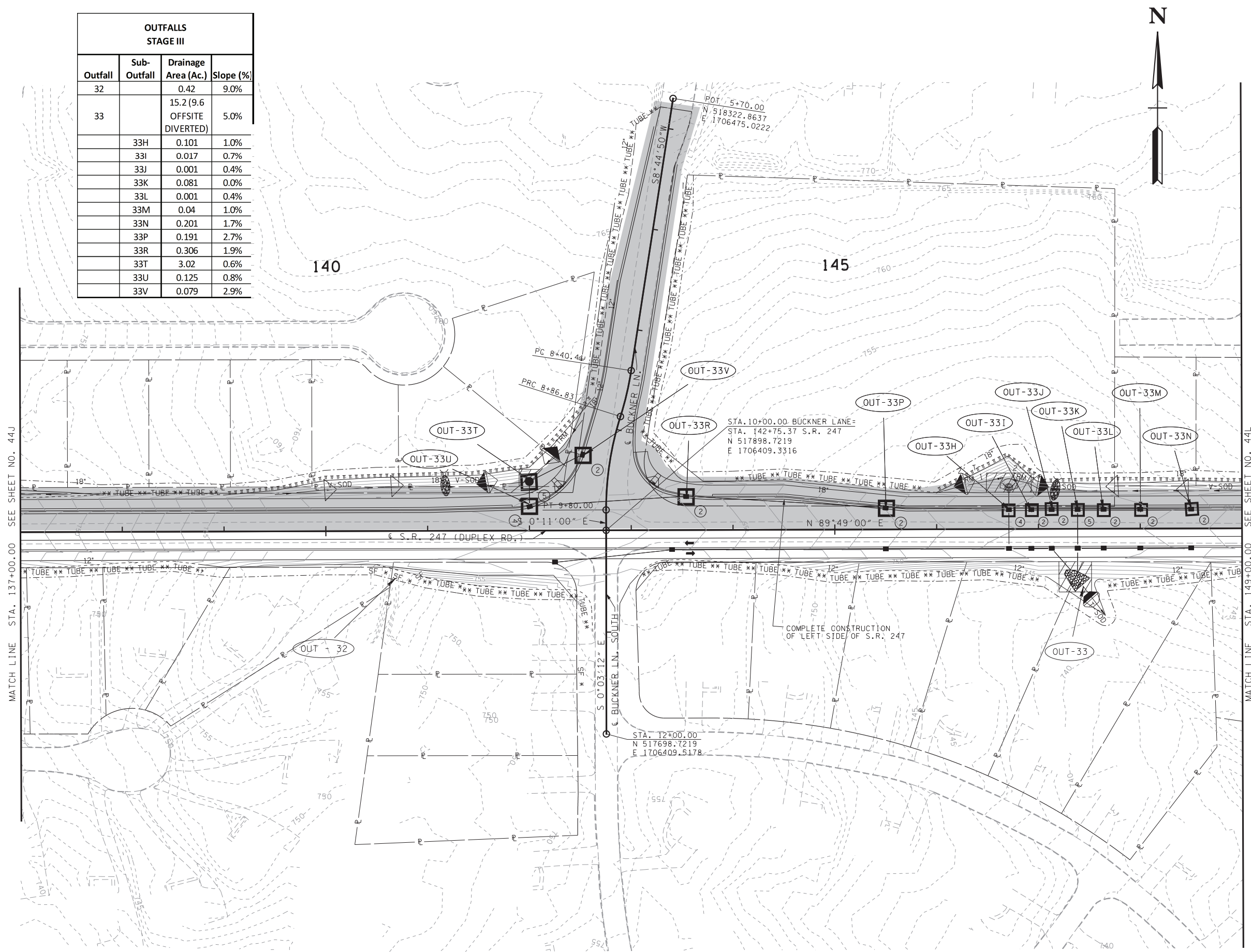
SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE III
STA. 125+00.00 TO STA. 137+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44K

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
32		0.42	9.0%
33		15.2 (9.6 OFFSITE DIVERTED)	5.0%
	33H	0.101	1.0%
	33I	0.017	0.7%
	33J	0.001	0.4%
	33K	0.081	0.0%
	33L	0.001	0.4%
	33M	0.04	1.0%
	33N	0.201	1.7%
	33P	0.191	2.7%
	33R	0.306	1.9%
	33T	3.02	0.6%
	33U	0.125	0.8%
	33V	0.079	2.9%



MATCH LINE STA. 137+00.00 SEE SHEET NO. 44J

MATCH LINE STA. 149+00.00 SEE SHEET NO. 44L



SEALED BY

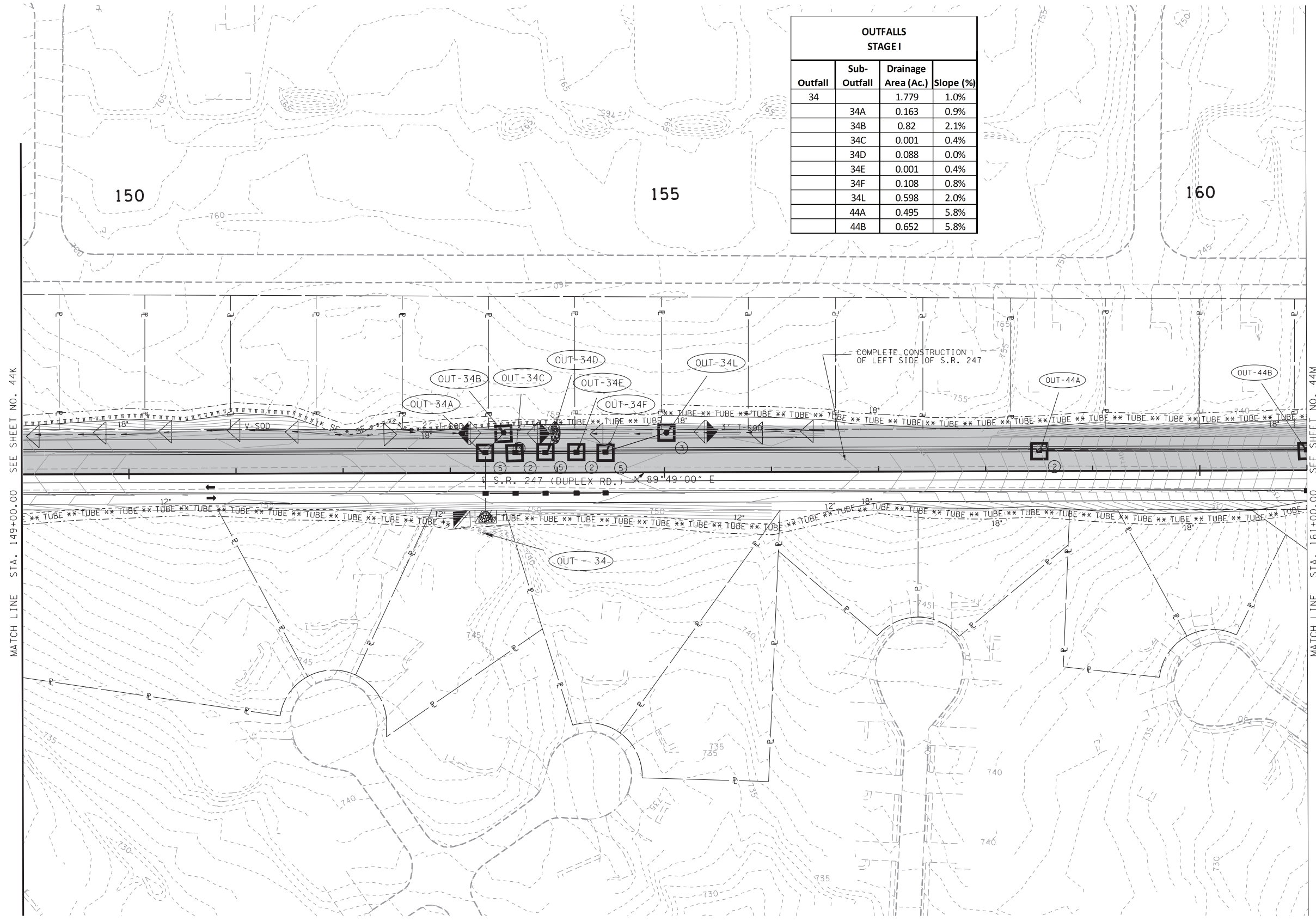
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III
STA. 137+00.00 TO STA. 149+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44L

MAURY/WILLIAMSON CO. S.R. 247
 60020-3201-54 (CONST.)



OUTFALLS STAGE I			
Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
34		1.779	1.0%
	34A	0.163	0.9%
	34B	0.82	2.1%
	34C	0.001	0.4%
	34D	0.088	0.0%
	34E	0.001	0.4%
	34F	0.108	0.8%
	34L	0.598	2.0%
	44A	0.495	5.8%
	44B	0.652	5.8%



MATCH LINE STA. 149+00.00 SEE SHEET NO. 44K

MATCH LINE STA. 161+00.00 SEE SHEET NO. 44M

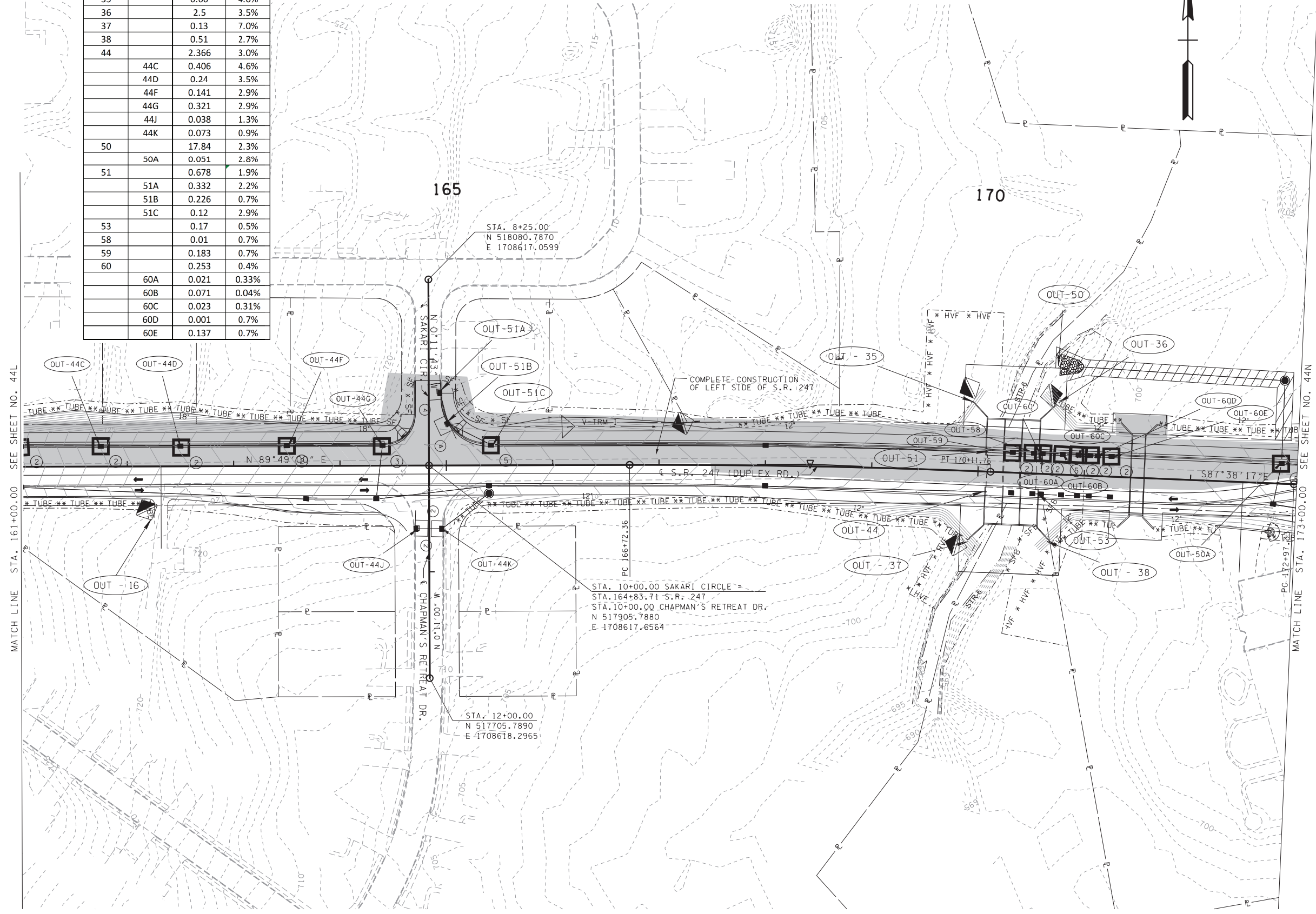
SEALED BY

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 EROSION
 PREVENTION AND
 SEDIMENT CONTROL
 PLAN STAGE III
 STA. 149+00.00 TO STA. 161+00.00

OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
16		0.50	6.0%
35		0.66	4.0%
36		2.5	3.5%
37		0.13	7.0%
38		0.51	2.7%
44		2.366	3.0%
	44C	0.406	4.6%
	44D	0.24	3.5%
	44F	0.141	2.9%
	44G	0.321	2.9%
	44J	0.038	1.3%
	44K	0.073	0.9%
50		17.84	2.3%
	50A	0.051	2.8%
51		0.678	1.9%
	51A	0.332	2.2%
	51B	0.226	0.7%
	51C	0.12	2.9%
53		0.17	0.5%
58		0.01	0.7%
59		0.183	0.7%
60		0.253	0.4%
	60A	0.021	0.33%
	60B	0.071	0.04%
	60C	0.023	0.31%
	60D	0.001	0.7%
	60E	0.137	0.7%

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44M

MAURY/WILLIAMSON CO. 60020-3201-54 (CONST.) S.R. 247



MATCH LINE STA. 161+00.00 SEE SHEET NO. 44L

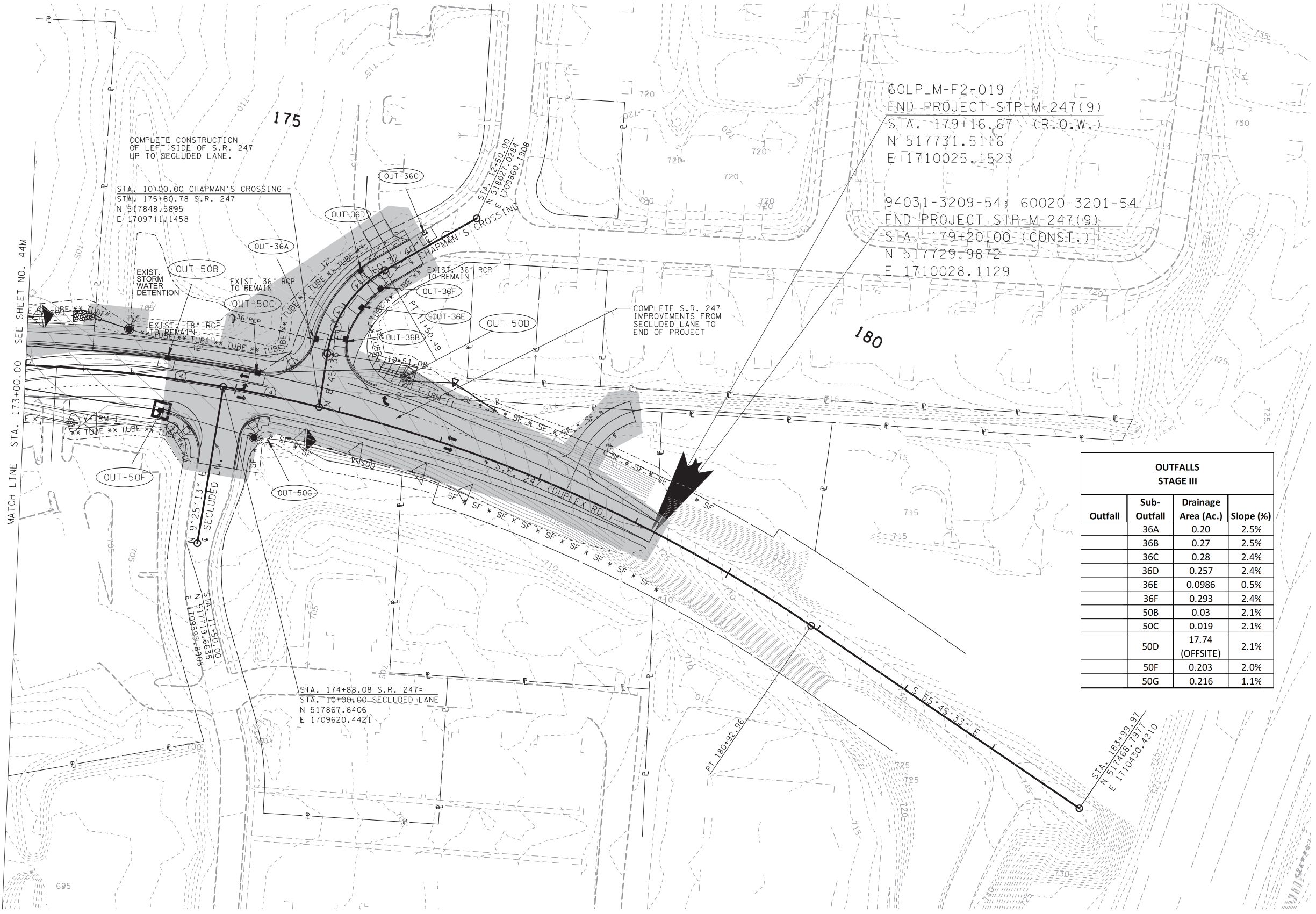
MATCH LINE STA. 173+00.00 SEE SHEET NO. 44N

SEALED BY

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE III
STA. 161+00.00 TO STA. 173+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44N

MAURY/WILLIAMSON CO. S.R. 247
 60020-3201-54 (CONST.)



60LPLM-F2-019
 END PROJECT STP-M-247(9)
 STA. 179+16.67 (R.O.W.)
 N 517731.5116
 E 1710025.1523

94031-3209-54; 60020-3201-54
 END PROJECT STP-M-247(9)
 STA. 179+20.00 (CONST.)
 N 517729.9872
 E 1710028.1129

OUTFALLS STAGE III			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	36A	0.20	2.5%
	36B	0.27	2.5%
	36C	0.28	2.4%
	36D	0.257	2.4%
	36E	0.0986	0.5%
	36F	0.293	2.4%
	50B	0.03	2.1%
	50C	0.019	2.1%
	50D	17.74 (OFFSITE)	2.1%
	50F	0.203	2.0%
	50G	0.216	1.1%

SEALED BY

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 EROSION
 PREVENTION AND
 SEDIMENT CONTROL
 PLAN STAGE III
 STA. 173+00.00 TO STA. 179+16.67

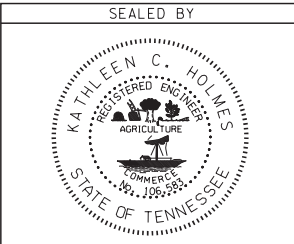
NOTE : SEE STREAM RELOCATION PLAN FOR STREAM 2 EROSION CONTROL MEASURES

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2012	STP-M-247(9)	72
CONST.	2017	STP-M-247(9)	44-0

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
2		0.63	2.7%
3		0.27	3.7%
4		0.12	3.0%
5		0.12	8.5%
7		0.37	4.5%
9		1.18	8.0%
39		0.777	1.1%
	39A	0.001	1.4%
	39B	0.25	1.4%
	39G	0.174	1.3%
61		3.3	5.7%
	61A	1.428	1.0%
	61B	0.108	3.1%
	61C	0.454	5.7%
	61D	0.38	8.0%
	61E	0.062	7.0%
	61F	0.134	5.4%
	61G	0.166	5.7%
	61H	0.063	7.7%
	61I	0.233	7.0%
	61J	0.168	7.0%
	61K	0.104	5.4%



COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

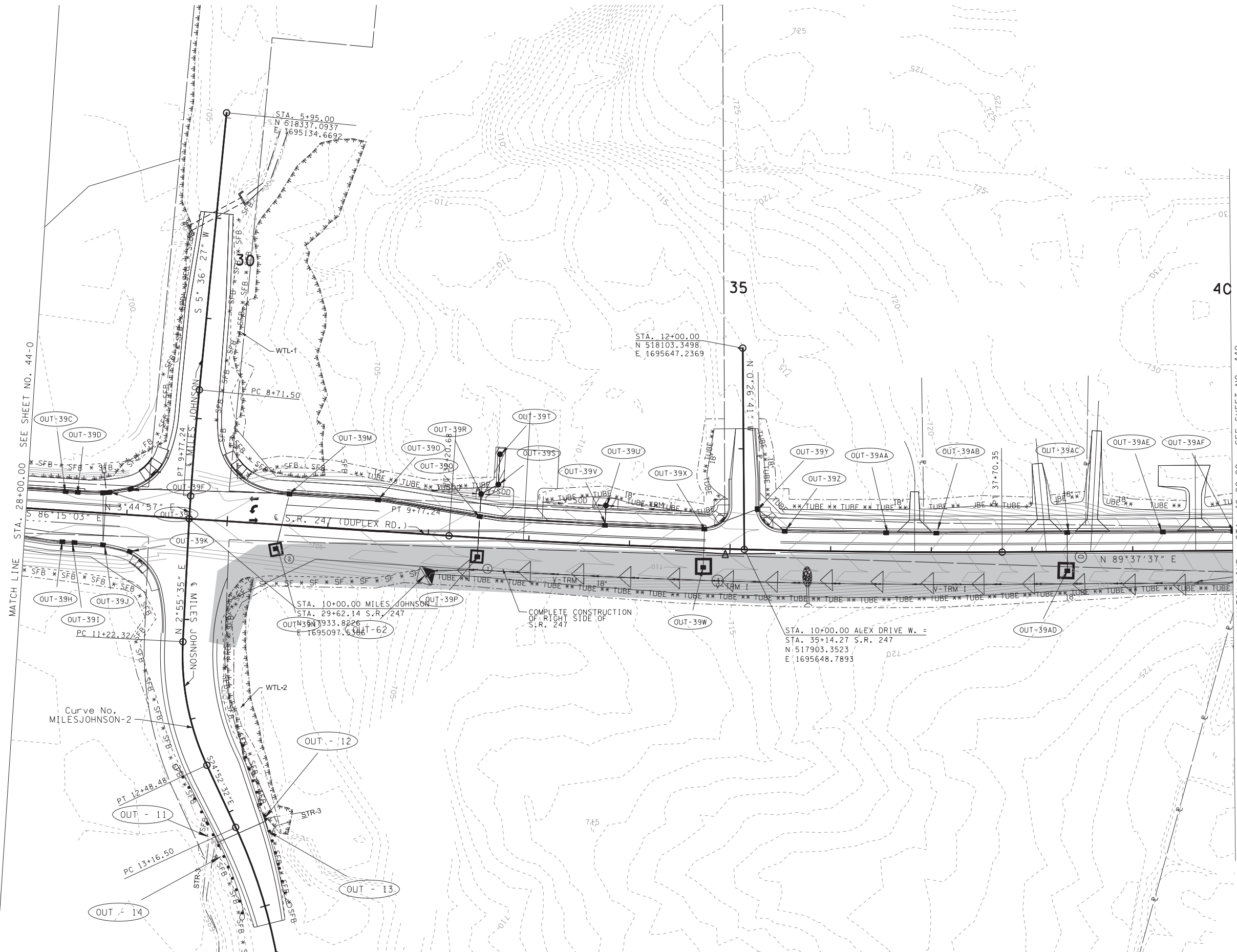
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE IIIA
STA. 16+00.00 TO STA. 28+00.00
SCALE: 1" = 50'



NOTE : SEE STREAM RELOCATION PLAN FOR STREAM 2 EROSION CONTROL MEASURES

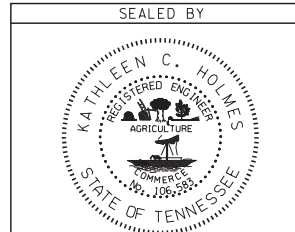
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44P

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247



OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
11		0.23	1.0%
12		2.8	1.0%
13		0.63	1.5%
14		0.05	5.1%
39C		0.05	0.5%
39D		0.001	0.4%
39E		0.042	0.03%
39F		0.01	0.2%
39H		0.059	0.5%
39I		0.063	0.4%
39J		0.064	0.04%
39K		0.063	0.4%
39M		0.125	1.4%
39N		0.134	1.4%
39O		0.089	1.4%
39P		0.148	1.4%
39Q		0.098	1.4%
39R		0.065	0.5%
39S		0.01	0.5%
39T		0.917	0.5%
39U		2.482	0.5%
39V		0.077	1.4%
39W		0.243	1.4%
39X		0.101	1.4%
39Y		0.555	1.0%
39Z		0.122	1.7%
39AA		0.437	2.3%
39AB		0.277	2.6%
39AC		0.528	3.4%
39AD		0.226	3.4%
39AE		0.452	3.4%
39AF		0.295	3.4%
62		1.59	1.0%

12:59:59 PM M:\Spring Hill\duplex road\Sheets\044P_escp_Stage3A.dgn



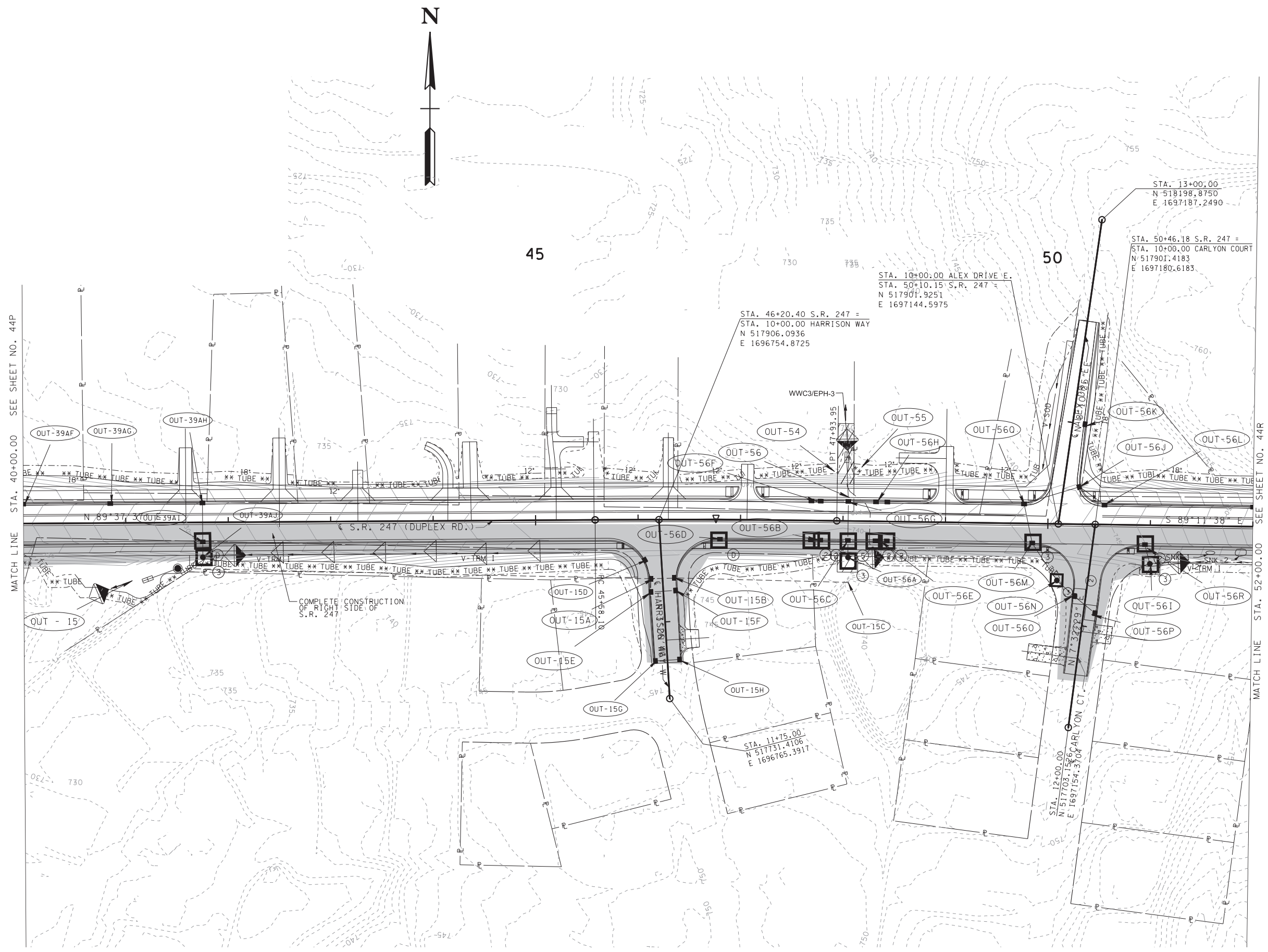
COORDINATES ARE NAD 83 (1995), AND ARE DATUM ADJUSTED BY THE FACTOR OF 1.00008 AND ARE TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

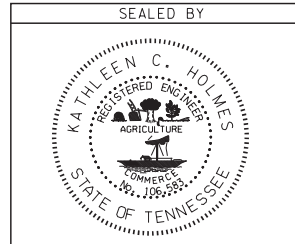
EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE IIIA
STA. 28+00.00 TO STA. 40+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	440

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247



OUTFALLS STAGE IIIA			
Outfall	Sub- Outfall	Drainage Area (Ac.)	Slope (%)
15		33.199	2.2%
	15A	0.14	3.3%
	15B	0.26	3.7%
	15C	30.19 (OFFSITE DIVERTED)	4.5%
	15B	0.26	3.7%
	15C	30.19	4.5%
	15D	0.073	0.1%
	15E	0.127	2.1%
	15F	0.142	1.5%
	15G	0.375	4.0%
	15H	0.178	6.5%
	39AF	0.295	3.4%
	39AG	0.186	3.4%
	39AH	0.389	3.4%
	39AI	0.255	3.4%
	39AJ	0.866	3.3%
54		0.18	4.1%
55		0.5	6.2%
56		1.094	5.5%
	56A	0.197	2.0%
	56B	0.149	0.4%
	56C	0.048	0.0%
	56D	0.089	36.0%
	56E	0.102	0.4%
	56F	0.151	0.4%
	56G	0.054	0.0%
	56H	0.108	0.4%
	56I	0.196	10.0%
	56J	1.01	6.5%
	56K	0.333	5.6%
	56L	0.218	3.7%
	56M	0.001	2.7%
	56N	0.131	0.5%
	56O	0.137	0.1%
	56P	0.19	0.1%
	56Q	0.038	2.5%
	56R	0.212	4.3%



COORDINATES ARE NAD 83 (1995),
AND ARE DATUM ADJUSTED BY THE
FACTOR OF 1.00008 AND ARE TIED TO
THE TGRN. ALL ELEVATIONS ARE
REFERENCED TO THE NAVD 1988.

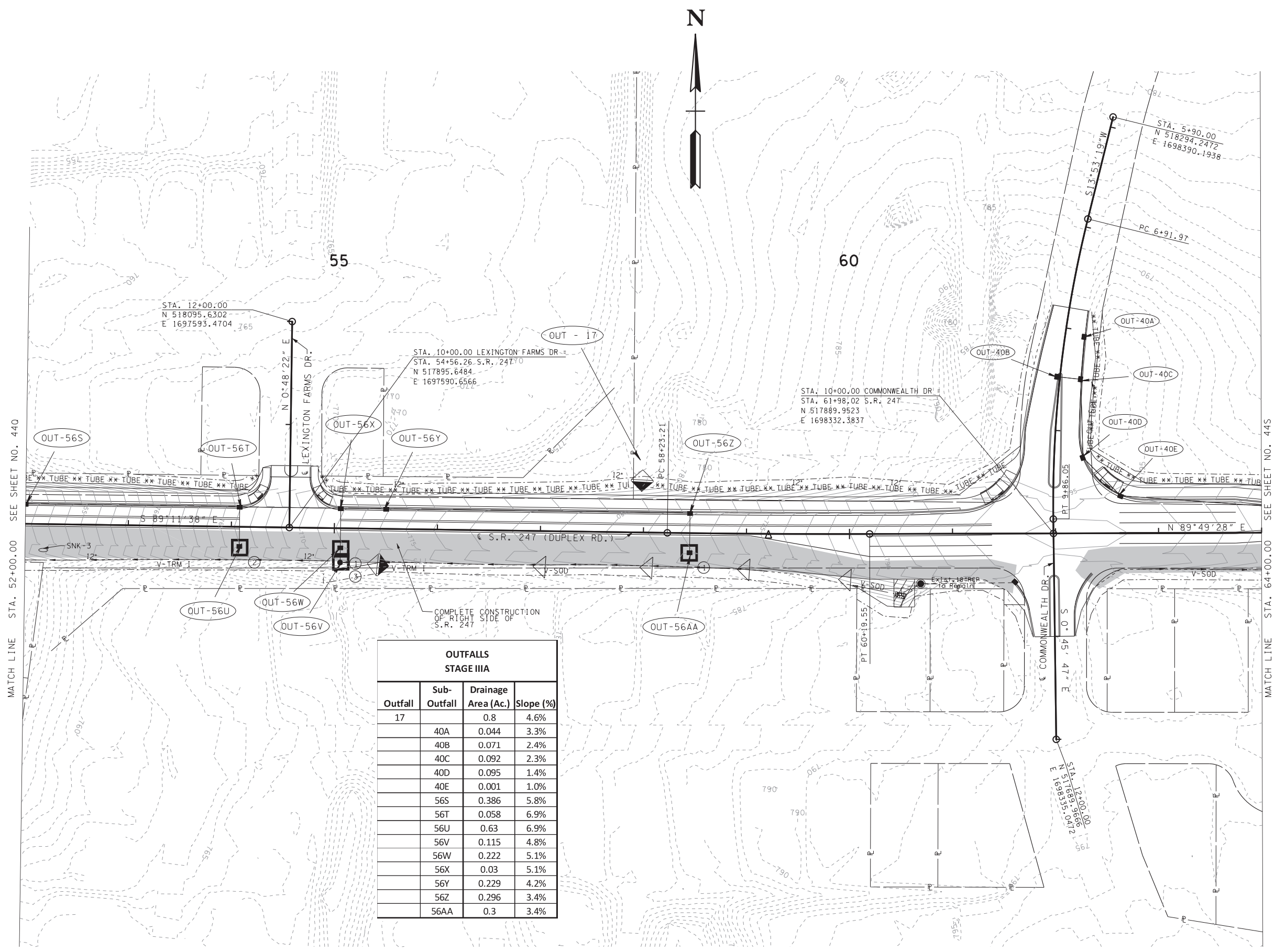
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA

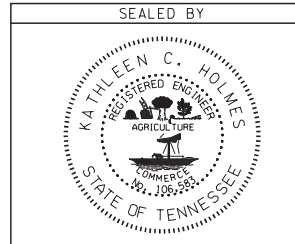
STA. 40+00.00 TO STA. 52+00.00
SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44R

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
17		0.8	4.6%
	40A	0.044	3.3%
	40B	0.071	2.4%
	40C	0.092	2.3%
	40D	0.095	1.4%
	40E	0.001	1.0%
	56S	0.386	5.8%
	56T	0.058	6.9%
	56U	0.63	6.9%
	56V	0.115	4.8%
	56W	0.222	5.1%
	56X	0.03	5.1%
	56Y	0.229	4.2%
	56Z	0.296	3.4%
	56AA	0.3	3.4%

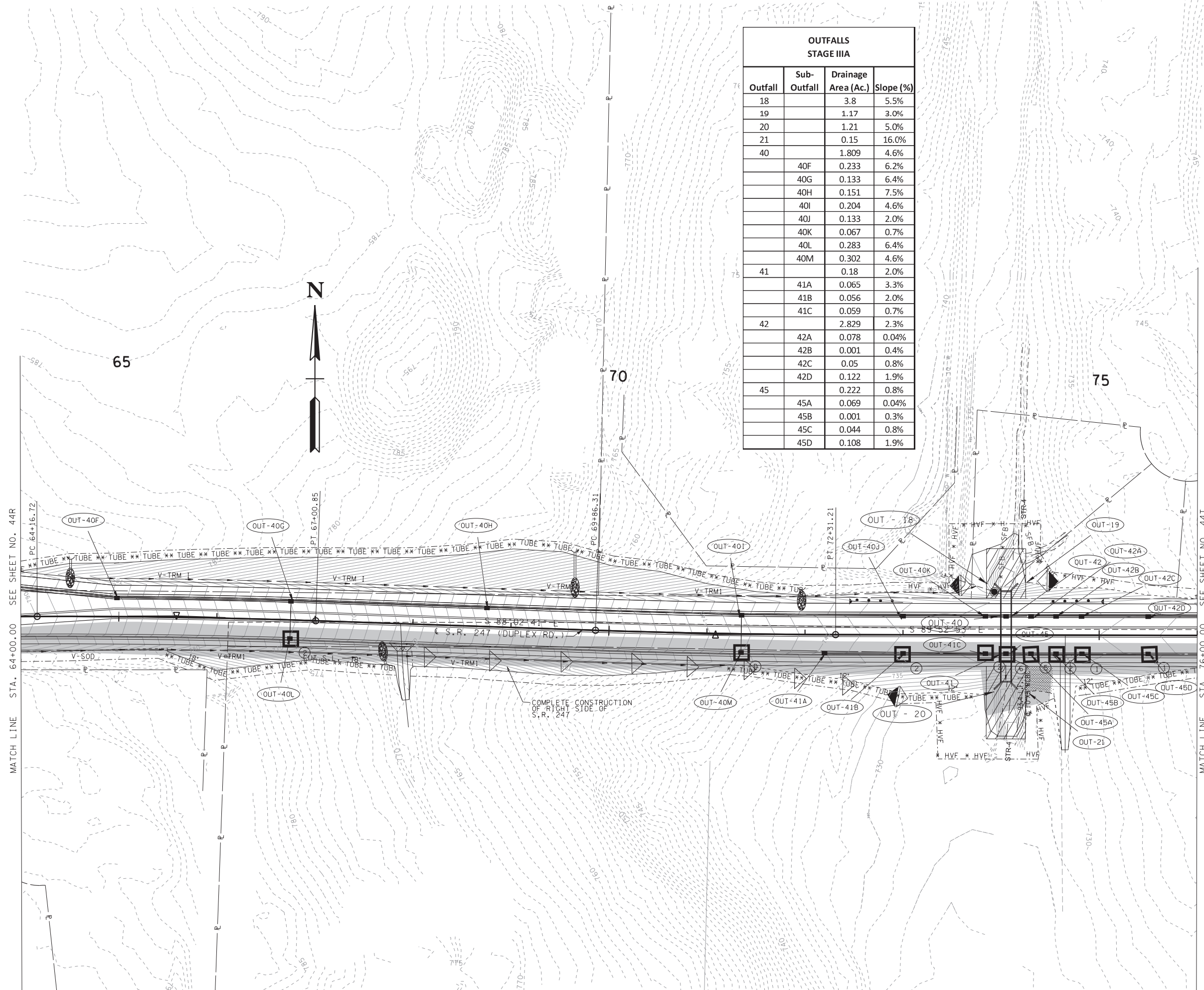


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 52+00.00 TO STA. 64+00.00

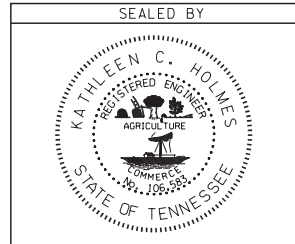
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44S

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247

OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
18		3.8	5.5%
19		1.17	3.0%
20		1.21	5.0%
21		0.15	16.0%
40		1.809	4.6%
	40F	0.233	6.2%
	40G	0.133	6.4%
	40H	0.151	7.5%
	40I	0.204	4.6%
	40J	0.133	2.0%
	40K	0.067	0.7%
	40L	0.283	6.4%
	40M	0.302	4.6%
41		0.18	2.0%
	41A	0.065	3.3%
	41B	0.056	2.0%
	41C	0.059	0.7%
42		2.829	2.3%
	42A	0.078	0.04%
	42B	0.001	0.4%
	42C	0.05	0.8%
	42D	0.122	1.9%
45		0.222	0.8%
	45A	0.069	0.04%
	45B	0.001	0.3%
	45C	0.044	0.8%
	45D	0.108	1.9%



I:\0014 PM
M:\Spring Hill\duplex road\Sheets\044S_escp_Stage3A.dgn

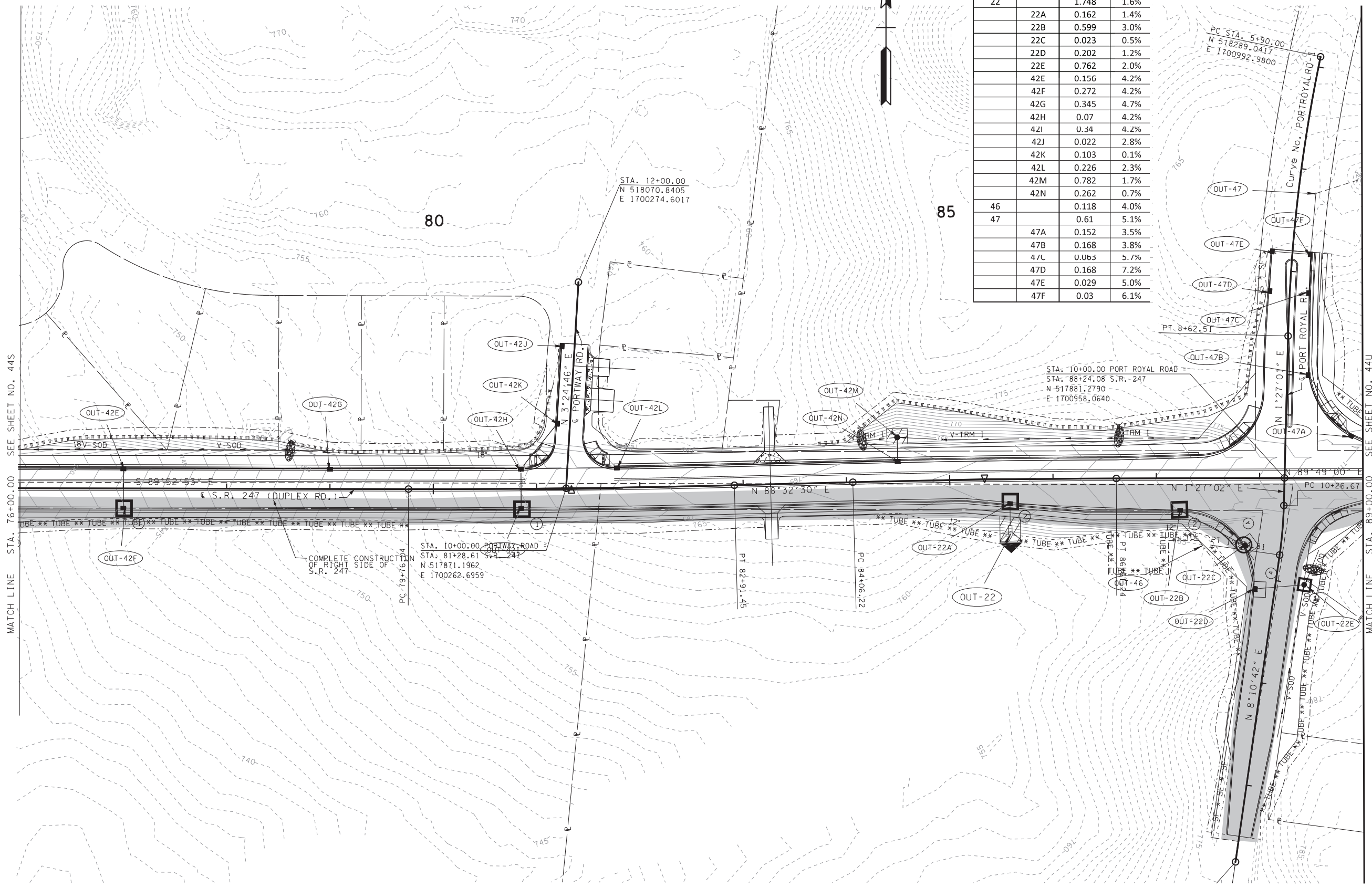


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 64+00.00 TO STA. 76+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44T

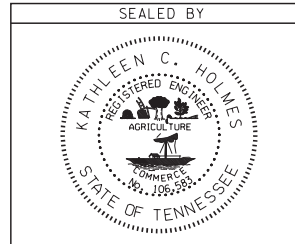
MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
22		1.748	1.6%
	22A	0.162	1.4%
	22B	0.599	3.0%
	22C	0.023	0.5%
	22D	0.202	1.2%
	22E	0.762	2.0%
	42E	0.156	4.2%
	42F	0.272	4.2%
	42G	0.345	4.7%
	42H	0.07	4.2%
	42I	0.34	4.2%
	42J	0.022	2.8%
	42K	0.103	0.1%
	42L	0.226	2.3%
	42M	0.782	1.7%
	42N	0.262	0.7%
46		0.118	4.0%
47		0.61	5.1%
	47A	0.152	3.5%
	47B	0.168	3.8%
	47C	0.063	5.7%
	47D	0.168	7.2%
	47E	0.029	5.0%
	47F	0.03	6.1%



MATCH LINE STA. 76+00.00 SEE SHEET NO. 44S

SEE SHEET NO. 44U STA. 89+00.00

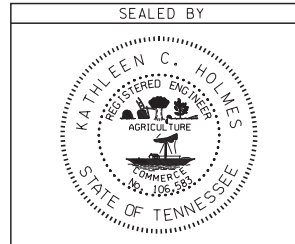
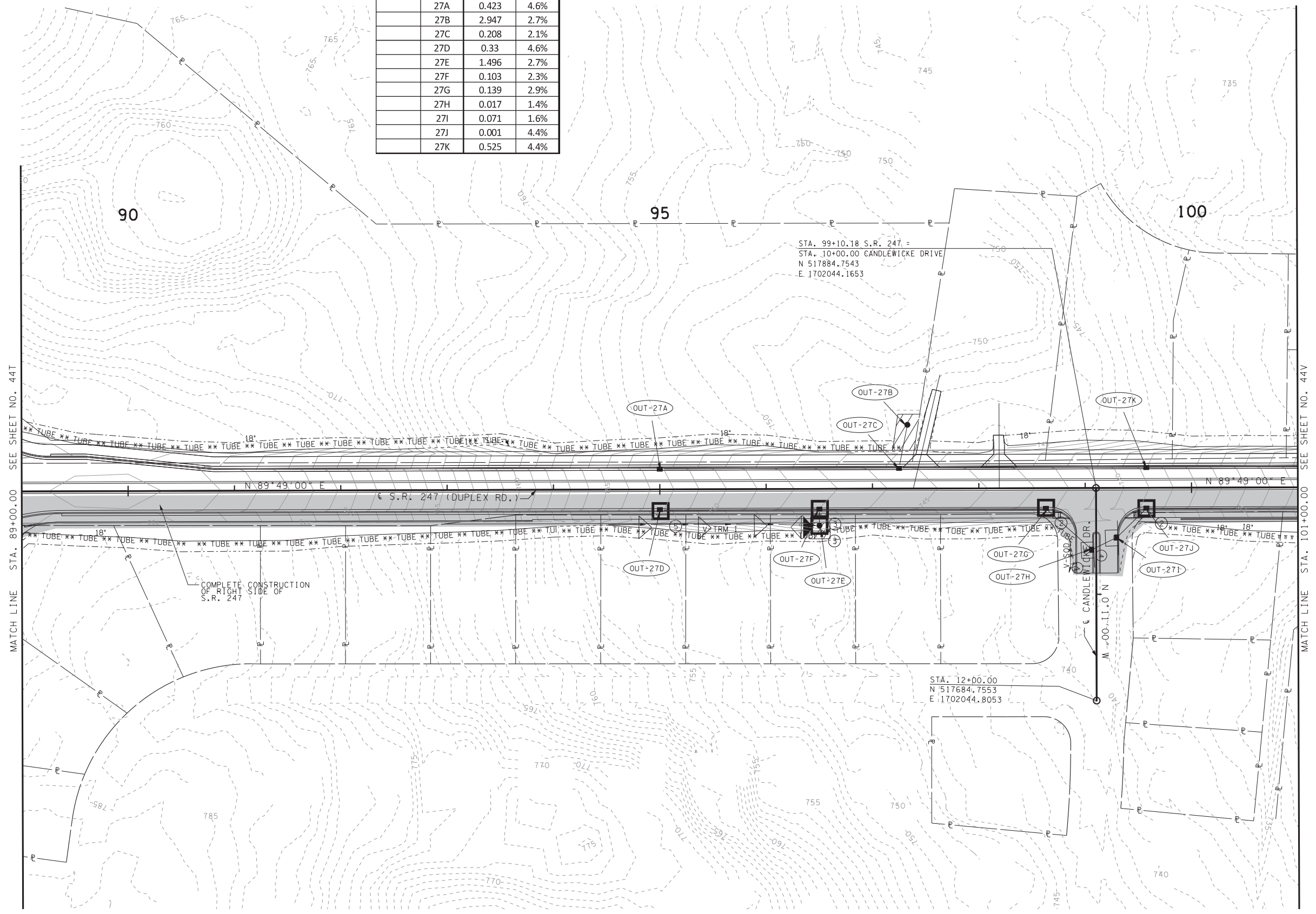


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 76+00.00 TO STA. 89+00.00

OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	27A	0.423	4.6%
	27B	2.947	2.7%
	27C	0.208	2.1%
	27D	0.33	4.6%
	27E	1.496	2.7%
	27F	0.103	2.3%
	27G	0.139	2.9%
	27H	0.017	1.4%
	27I	0.071	1.6%
	27J	0.001	4.4%
	27K	0.525	4.4%

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44U

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 89+00.00 TO STA. 101+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44V

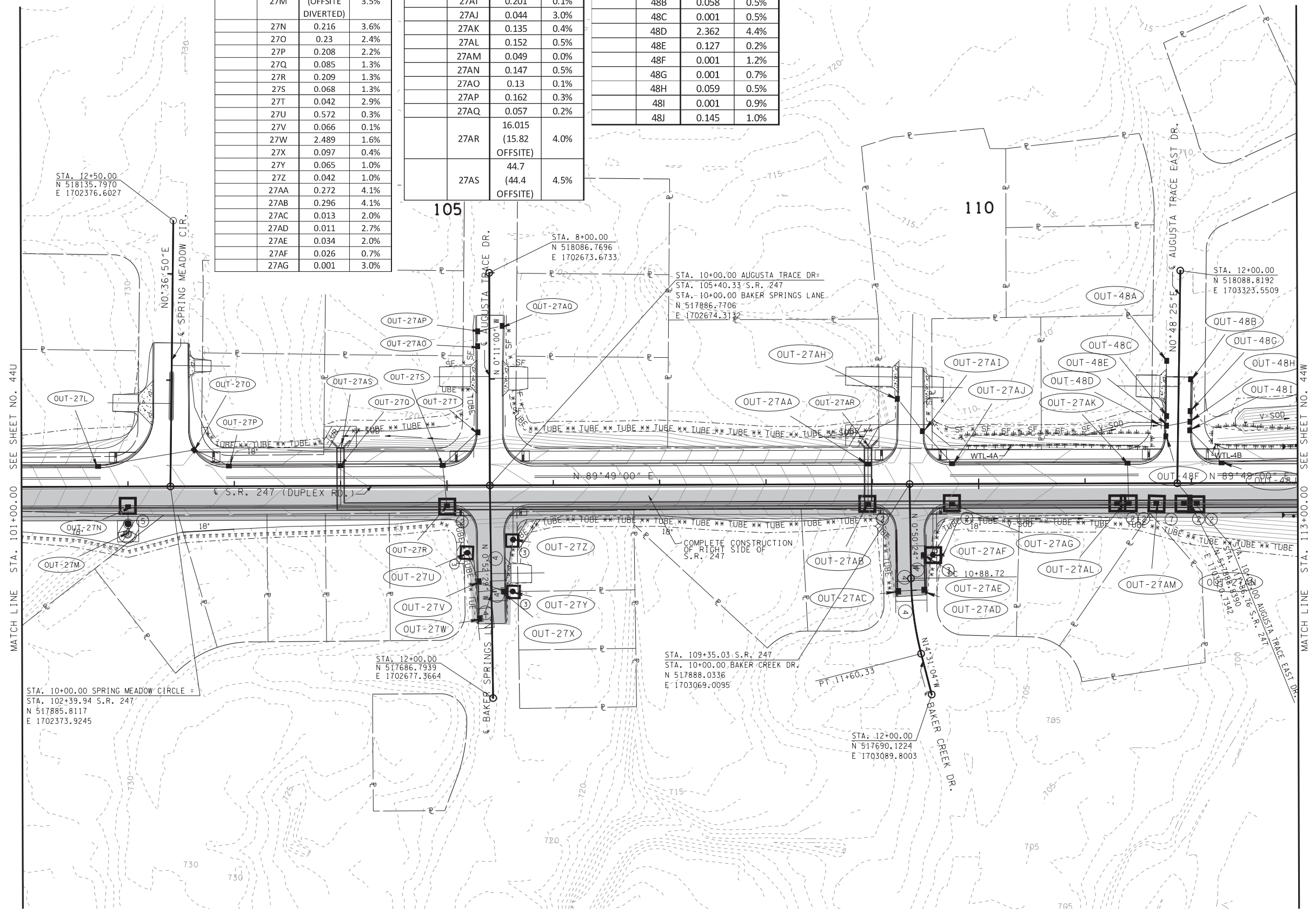
MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	27L	0.236	4.0%
	27M	7.567 (OFFSITE DIVERTED)	3.5%
	27N	0.216	3.6%
	27O	0.23	2.4%
	27P	0.208	2.2%
	27Q	0.085	1.3%
	27R	0.209	1.3%
	27S	0.068	1.3%
	27T	0.042	2.9%
	27U	0.572	0.3%
	27V	0.066	0.1%
	27W	2.489	1.6%
	27X	0.097	0.4%
	27Y	0.065	1.0%
	27Z	0.042	1.0%
	27AA	0.272	4.1%
	27AB	0.296	4.1%
	27AC	0.013	2.0%
	27AD	0.011	2.7%
	27AE	0.034	2.0%
	27AF	0.026	0.7%
	27AG	0.001	3.0%

OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	27AH	0.059	0.2%
	27AI	0.201	0.1%
	27AJ	0.044	3.0%
	27AK	0.135	0.4%
	27AL	0.152	0.5%
	27AM	0.049	0.0%
	27AN	0.147	0.5%
	27AO	0.13	0.1%
	27AP	0.162	0.3%
	27AQ	0.057	0.2%
	27AR	16.015 (15.82 OFFSITE)	4.0%
	27AS	44.7 (44.4 OFFSITE)	4.5%

OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	48A	0.381	2.0%
	48B	0.058	0.5%
	48C	0.001	0.5%
	48D	2.362	4.4%
	48E	0.127	0.2%
	48F	0.001	1.2%
	48G	0.001	0.7%
	48H	0.059	0.5%
	48I	0.001	0.9%
	48J	0.145	1.0%



MATCH LINE STA. 101+00.00 SEE SHEET NO. 44U

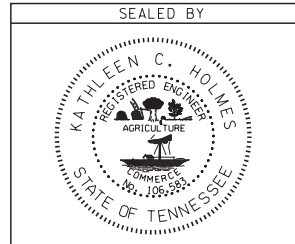
MATCH LINE STA. 113+00.00 SEE SHEET NO. 44V

STA. 10+00.00 SPRING MEADOW CIRCLE =
STA. 102+39.94 S.R. 247
N 517885.8117
E 1702373.9245

STA. 12+00.00
N 517686.7939
E 1702677.3664

STA. 109+35.03 S.R. 247
STA. 10+00.00 BAKER CREEK DR.
N 517888.0336
E 1703069.0095

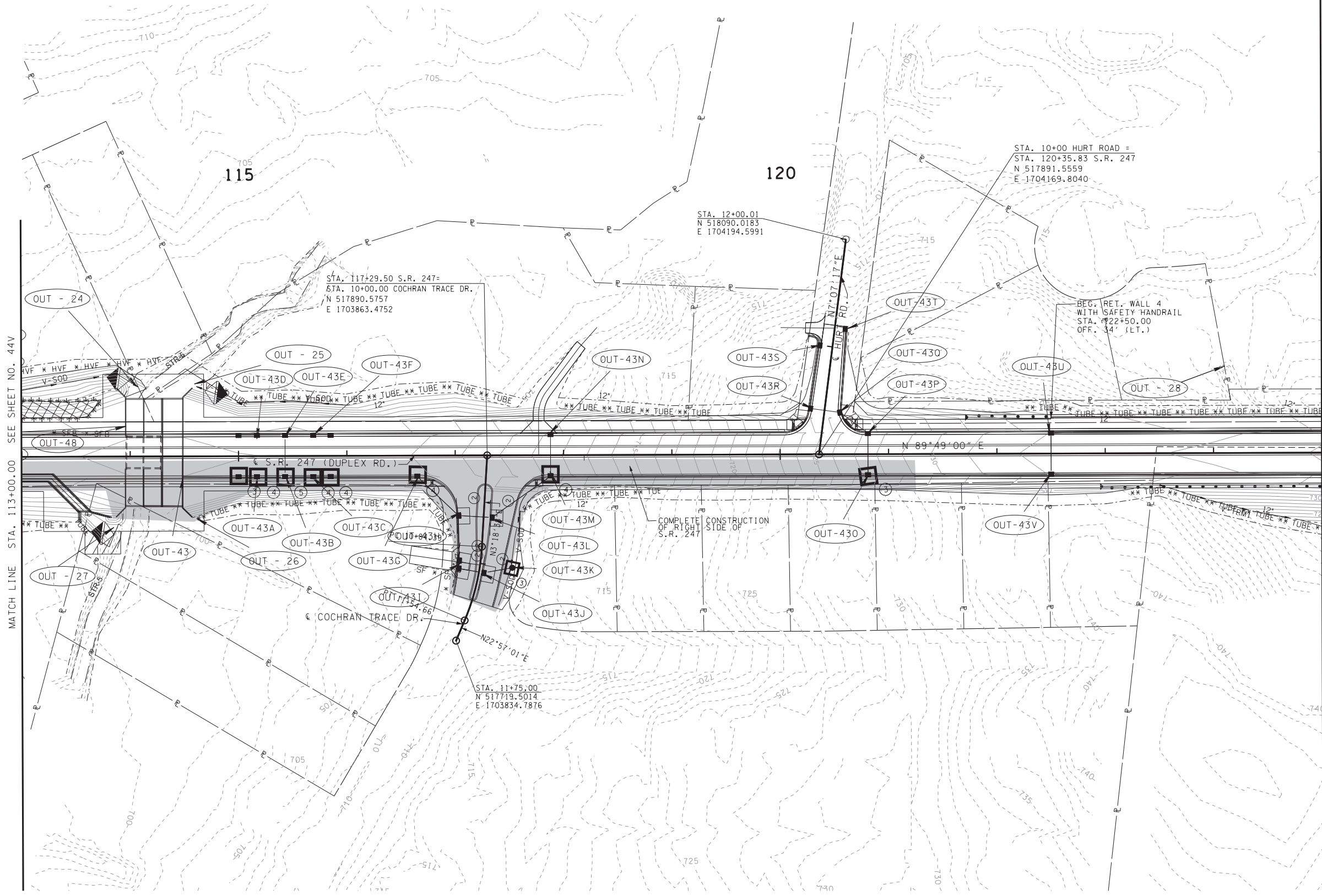
STA. 12+00.00
N 517690.1224
E 1703089.8003



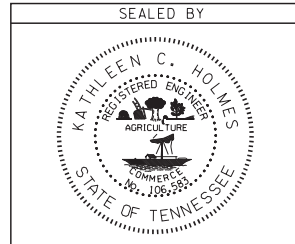
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 101+00.00 TO STA. 113+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44W

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247



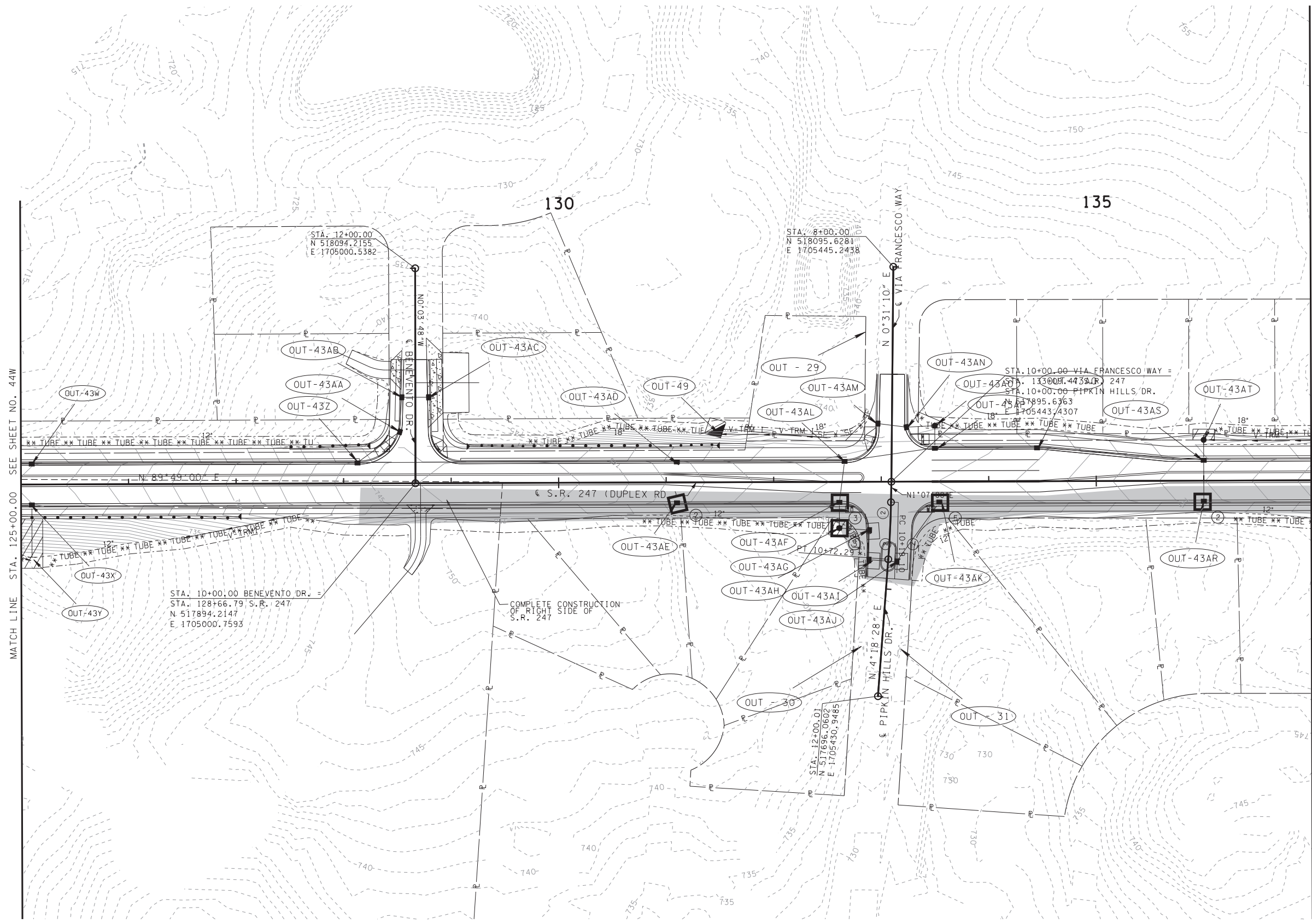
OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
24		3.55	1.1%
25		0.58	0.5%
26		0.23	2.2%
27		80.96 (INCLUDES 7.567 AC. OFFSITE DIVERTED)	2.2%
28		0.32	7.0%
43		9.3638	2.24%
	43A	0.051	0.66%
	43B	0.063	0.04%
	43C	0.079	0.66%
	43D	0.057	0.66%
	43E	0.063	0.04%
	43F	0.165	0.66%
	43G	0.001	1.90%
	43H	0.045	1.92%
	43I	0.037	0.83%
	43J	0.049	0.16%
	43K	0.913	1.00%
	43L	0.051	2.09%
	43M	0.342	3.81%
	43N	0.196	3.81%
	43O	0.136	4.73%
	43P	0.139	4.73%
	43Q	0.025	2.39%
	43R	0.034	2.20%
	43S	0.0274	6.55%
	43T	0.06	10.10%
	43U	0.199	0.89%
	43V	0.188	0.89%
48		3.136	1.2%



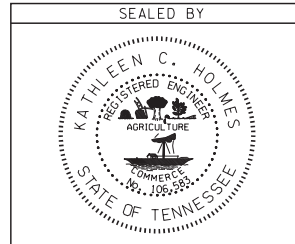
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 113+00.00 TO STA. 123+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44X

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247



OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
29		0.75	2.1%
30		0.3	3.3%
31		0.69	3.0%
	43W	0.252	1.8%
	43X	0.362	1.8%
	43Y	2.814	2.0%
	43Z	0.001	3.0%
	43AA	0.001	1.5%
	43AB	0.056	3.5%
	43AC	0.083	3.5%
	43AD	0.117	3.0%
	43AE	0.23	3.0%
	43AF	0.105	0.7%
	43AG	0.297	0.5%
	43AH	0.001	3.2%
	43AI	0.061	4.3%
	43AJ	0.045	3.8%
	43AK	0.205	0.8%
	43AL	0.1244	0.6%
	43AM	0.043	3.5%
	43AN	0.04	3.5%
	43AO	0.064	0.5%
	43AP	0.111	0.7%
	43AQ	0.157	2.2%
	43AR	0.352	2.3%
	43AS	0.348	2.3%
	43AT	0.574	0.5%
49		0.18	0.7%

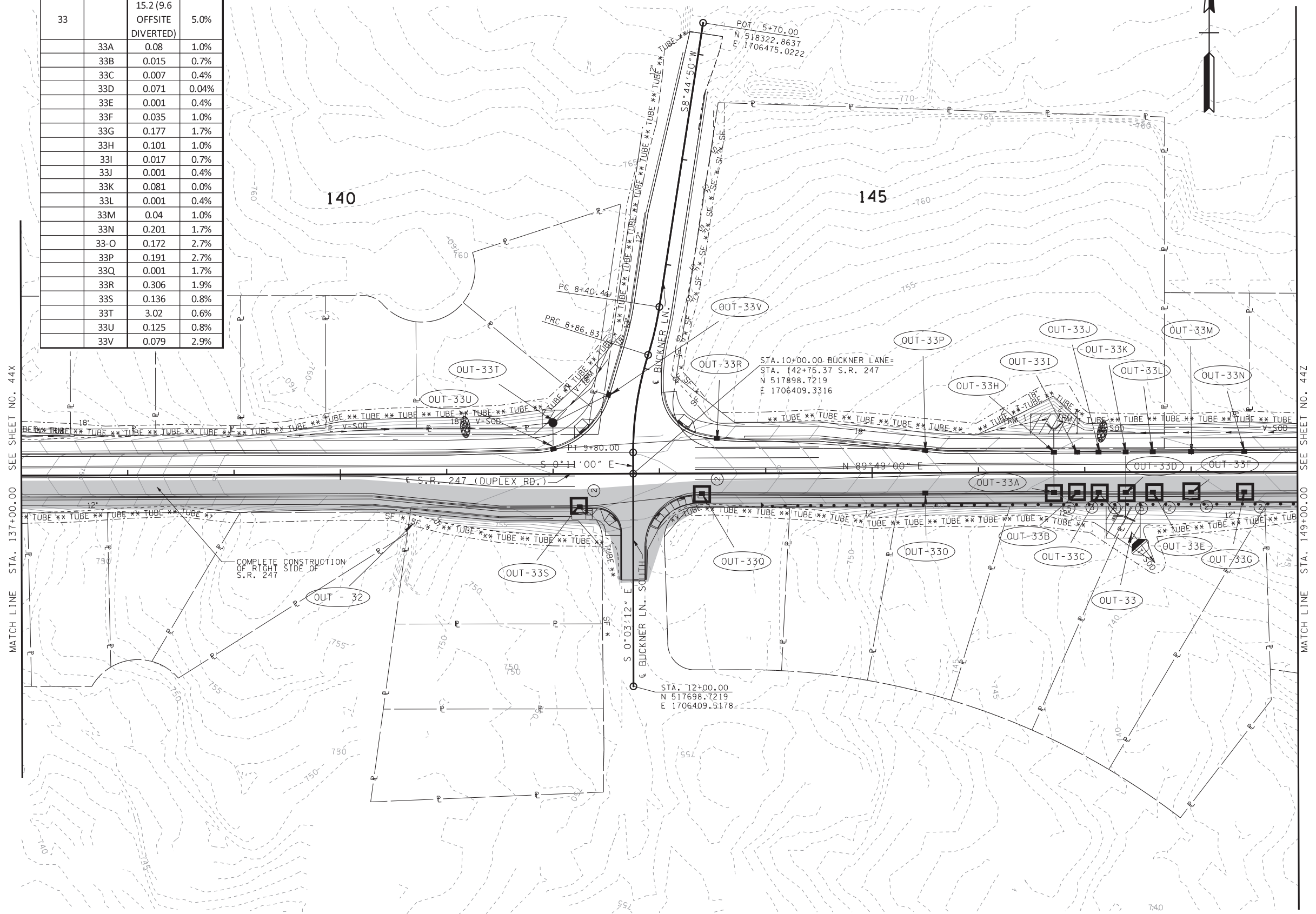


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 125+00.00 TO STA. 137+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44Y

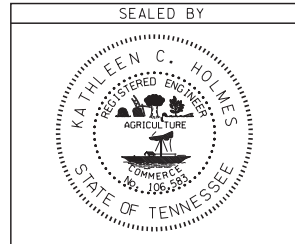
MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
32		0.42	9.0%
33		15.2 (9.6 OFFSITE DIVERTED)	5.0%
	33A	0.08	1.0%
	33B	0.015	0.7%
	33C	0.007	0.4%
	33D	0.071	0.04%
	33E	0.001	0.4%
	33F	0.035	1.0%
	33G	0.177	1.7%
	33H	0.101	1.0%
	33I	0.017	0.7%
	33J	0.001	0.4%
	33K	0.081	0.0%
	33L	0.001	0.4%
	33M	0.04	1.0%
	33N	0.201	1.7%
	33-O	0.172	2.7%
	33P	0.191	2.7%
	33Q	0.001	1.7%
	33R	0.306	1.9%
	33S	0.136	0.8%
	33T	3.02	0.6%
	33U	0.125	0.8%
	33V	0.079	2.9%



MATCH LINE STA. 137+00.00 SEE SHEET NO. 44X

MATCH LINE STA. 149+00.00 SEE SHEET NO. 44Z



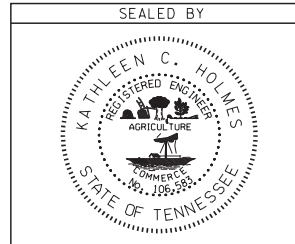
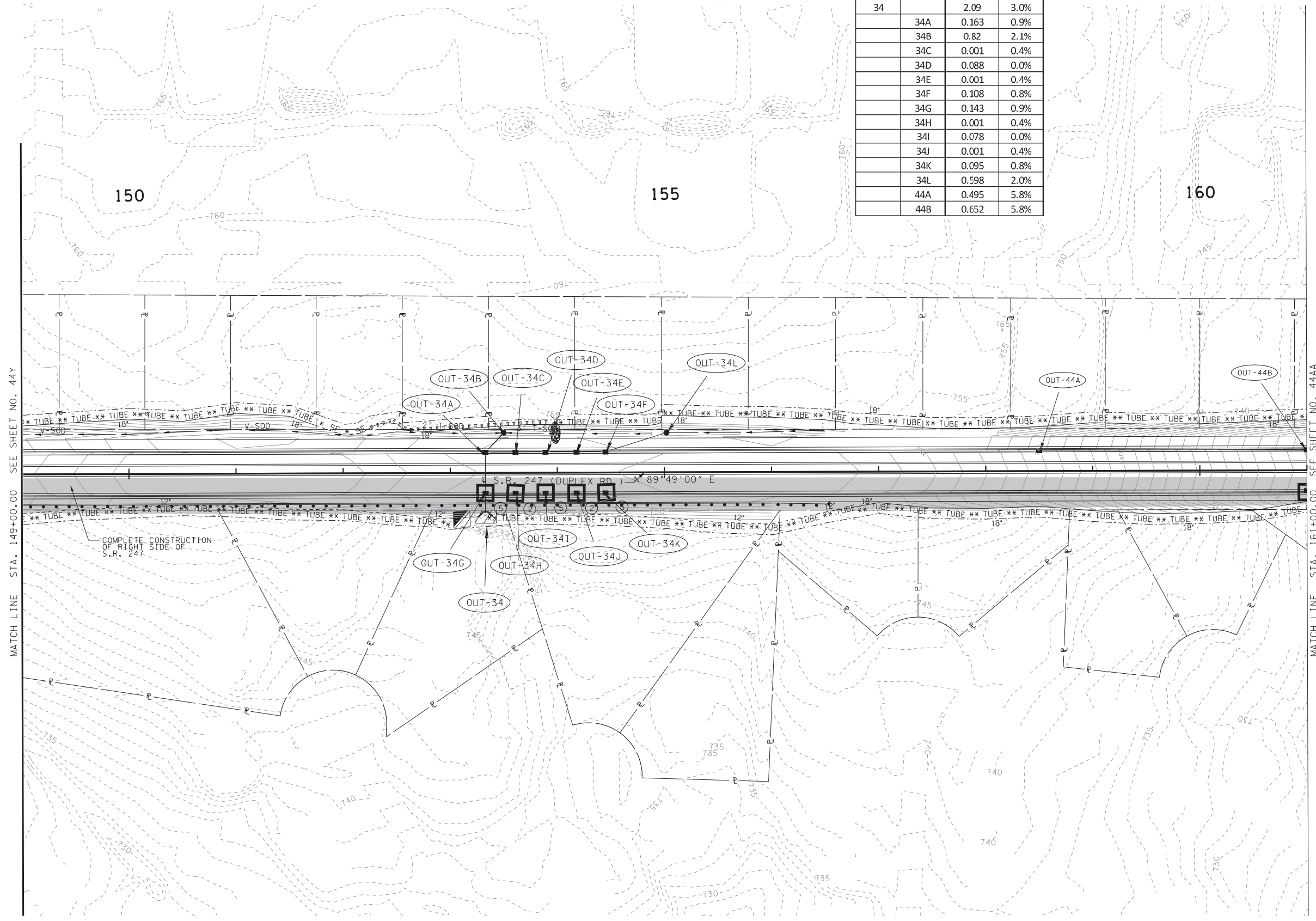
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 137+00.00 TO STA. 149+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44Z

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)

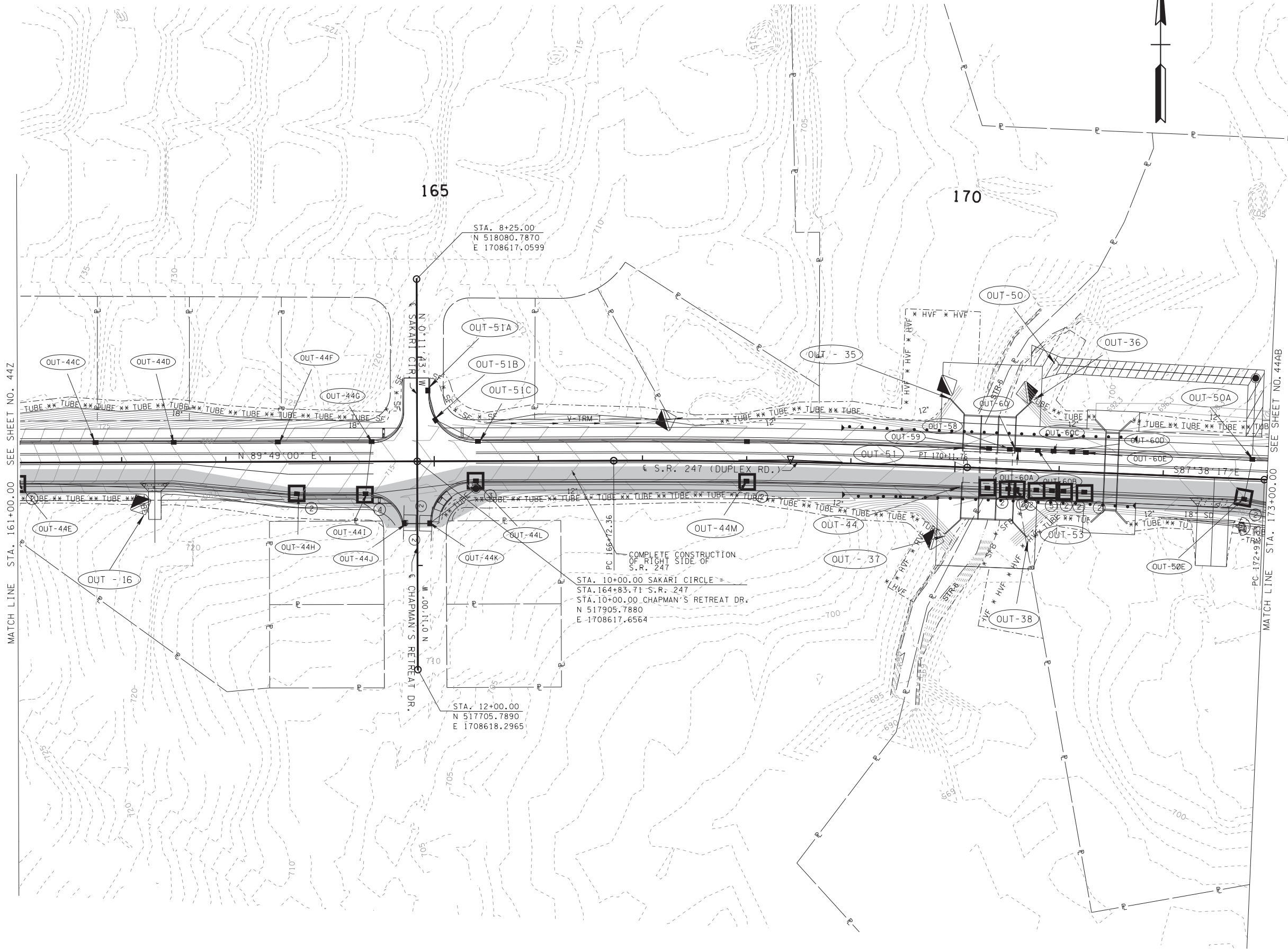
OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
34		2.09	3.0%
	34A	0.163	0.9%
	34B	0.82	2.1%
	34C	0.001	0.4%
	34D	0.088	0.0%
	34E	0.001	0.4%
	34F	0.108	0.8%
	34G	0.143	0.9%
	34H	0.001	0.4%
	34I	0.078	0.0%
	34J	0.001	0.4%
	34K	0.095	0.8%
	34L	0.598	2.0%
	44A	0.495	5.8%
	44B	0.652	5.8%



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 149+00.00 TO STA. 161+00.00

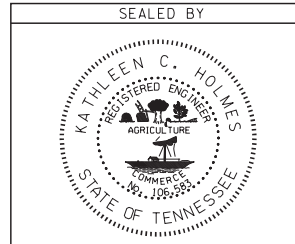
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44AA

MAURY/WILLIAMSON CO.
60020-3201-54 (CONST.) S.R. 247



OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
16		0.50	6.0%
35		0.66	4.0%
36		2.5	3.5%
37		0.13	7.0%
38		0.51	2.7%
44		3.24	3.0%
	44C	0.406	4.6%
	44D	0.24	3.5%
	44E	0.4	5.8%
	44F	0.141	2.9%
	44G	0.321	2.9%
	44H	0.2	2.9%
	44I	0.069	2.9%
	44J	0.038	1.3%
	44K	0.073	0.9%
	44L	0.001	2.9%
	44M	0.204	1.9%
50		17.789	2.3%
	50A	0.051	2.8%
	50E	0.195	2.1%
51		0.678	1.9%
	51A	0.332	2.2%
	51B	0.226	0.7%
	51C	0.12	2.9%
53		0.17	0.5%
58		0.01	0.7%
59		0.183	0.7%
60		0.253	0.4%
	60A	0.021	0.33%
	60B	0.071	0.04%
	60C	0.023	0.31%
	60D	0.001	0.7%
	60E	0.137	0.7%

1:00:58 PM
M:\Spring Hill\duplex road\Sheets\044AA_escp-Stp3A.dgn

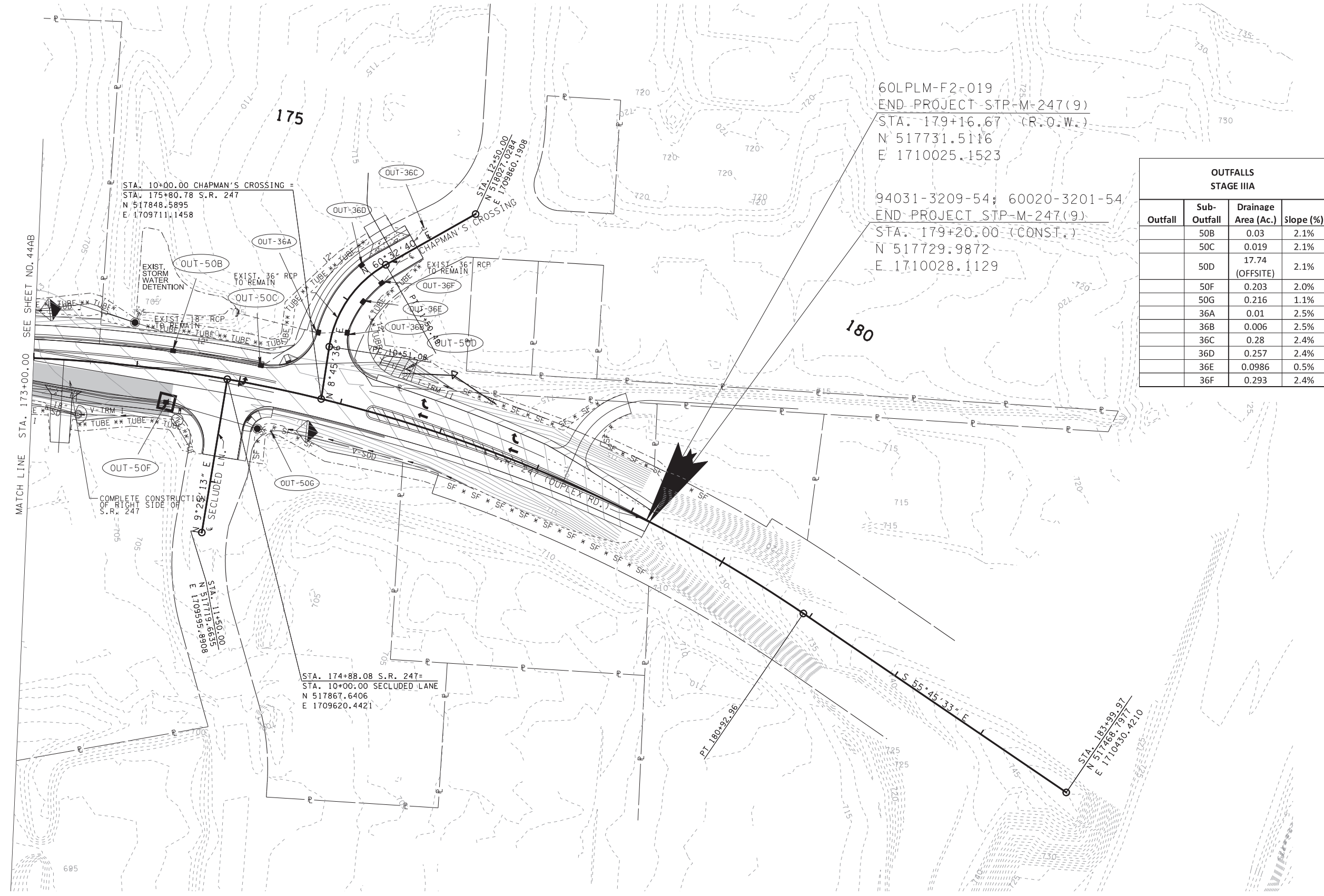


STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 161+00.00 TO STA. 175+00.00

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-M-247(9)	44AB

MAURY/WILLIAMSON CO. S.R. 247
60020-3201-54 (CONST.)



60LPLM-F2-019
END PROJECT STP-M-247(9)
STA. 179+16.67 (R.O.W.)
N 517731.5116
E 1710025.1523

94031-3209-54; 60020-3201-54
END PROJECT STP-M-247(9)
STA. 179+20.00 (CONST.)
N 517729.9872
E 1710028.1129

OUTFALLS STAGE IIIA			
Outfall	Sub-Outfall	Drainage Area (Ac.)	Slope (%)
	50B	0.03	2.1%
	50C	0.019	2.1%
	50D	17.74 (OFFSITE)	2.1%
	50F	0.203	2.0%
	50G	0.216	1.1%
	36A	0.01	2.5%
	36B	0.006	2.5%
	36C	0.28	2.4%
	36D	0.257	2.4%
	36E	0.0986	0.5%
	36F	0.293	2.4%

MATCH LINE STA. 173+00.00 SEE SHEET NO. 44AB

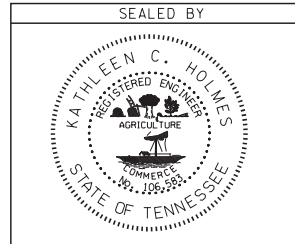
STA. 10+00.00 CHAPMAN'S CROSSING =
STA. 175+80.78 S.R. 247
N 517848.5895
E 1709711.1458

COMPLETE CONSTRUCTION
OF RIGHT SIDE OF
S.R. 247

STA. 11+450.00
N 517119.6635
E 1709595.8998

STA. 174+88.08 S.R. 247=
STA. 10+00.00 SECLUDED LANE
N 517867.6406
E 1709620.4421

STA. 183+99.97
N 517468.9171
E 1710430.4210



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
EROSION
PREVENTION AND
SEDIMENT CONTROL
PLAN STAGE IIIA
STA. 173+00.00 TO STA. 179+16.67