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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	45007-1212-04	
CONST.	2017	STP-35 (64)	S-1

SWPPP INDEX OF SHEETS

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 35 (US 411) FROM INTERSECTION OF SR 92/DICKEY ROAD TO GRAPEVINE HOLLOW ROAD
COUNTY: JEFFERSON
PIN: 101401.02

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) 30-30M, DRAINAGE MAP SHEET(S) 18-20, 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): 145.00 ACRES

2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 111.95 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: _____

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

☒ YES 2005 (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	HSG	% OF SITE	ERODIBILITY (k value)
AnC2 - ALLEN SANDY LOAM	B	4.2	0.20
AnD2 - ALLEN SANDY LOAM	B	3.3	0.20
AnE - ALLEN SANDY LOAM	B	1.2	0.20
Be - BEASON SILT LOAM	C/D	3.0	0.37
DaC2 - DANDRIDGE CHANNERY SILT LOAM	D	0.1	0.20
DaD2 - DANDRIDGE CHANNERY SILT LOAM	D	18.4	0.20
DaD3 - DANDRIDGE CHANNERY SILTY CLAY LOAM	D	0.9	0.20
DaE3 - DANDRIDGE CHANNERY SILTY CLAY LOAM	D	7.6	0.20
DaF2 - DANDRIDGE CHANNERY SILT LOAM	D	26.8	0.20
DuE2 - DUNMORE SILT LOAM	B	0.1	0.43
En - ENNIS COBBLY LOAM	A	10.4	0.15
Ln - LINDSIDE SILT LOAM	C	2.2	0.37
NkC2 - NOLICHUCKY LOAM	B	4.6	0.37
NkD2 - NOLICHUCKY LOAM	B	6.3	0.37
NmD2 - NOLICHUCKY GRAVELLY LOAM	B	0.1	0.17
SeD2 - SEQUOIA SILT LOAM	C	6.3	0.43
SwB - SWAFFORD SILT LOAM	C	4.5	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 (ROADS, SHOULDERS, ETC.)	7.74	5.3		98
PERVIOUS	137.26	94.7		0.35
WEIGHTED C-FACTOR =				0.38

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS (ROADS, SHOULDERS, ETC.)	33.25	22.9		98
PERVIOUS	111.75	77.1		0.40
WEIGHTED C-FACTOR =				0.50

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 30, 30F, 30G, 30K)

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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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-10	CLEAR CREEK	NO	NO	YES	YES
STR-11	UNNAMED TRIB. TO CLEAR CREEK	NO	NO	YES	YES
STR-12	UNNAMED TRIB. TO CLEAR CREEK	NO	NO	YES	YES
STR-13	UNNAMED TRIB. TO CLEAR CREEK	NO	NO	YES	YES
STR-14	UNNAMED TRIB. TO CLEAR CREEK	NO	NO	YES	YES
STR-15	UNNAMED TRIB. TO CLEAR CREEK	NO	NO	YES	YES
STR-16	UNNAMED TRIB. TO CLEAR CREEK	NO	NO	YES	YES
STR-17	UNNAMED TRIB. TO CLEAR CREEK	NO	NO	YES	YES
STR-18	UNNAMED TRIB. TO CLEAR CREEK	NO	NO	YES	YES
STR-19	UNNAMED TRIB. TO CLEAR CREEK	NO	NO	YES	YES
STR-20	UNNAMED TRIB. TO CLEAR CREEK	NO	NO	YES	YES
STR-21	UNNAMED TRIB. TO CLEAR CREEK	NO	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:PRE-APPROVED SITE

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-19/EPH-19	YES	YES
WWC-20/EPH-20	YES	YES
WWC-21/EPH-21	YES	YES
WWC-23/EPH-23	NO	YES
WWC-25/EPH-25	YES	YES
WWC-31/EPH-31	NO	YES
WWC-32/EPH-32	YES	YES
WWC-33/EPH-33	YES	YES
WWC-34/EPH-34	YES	YES
WWC-35/EPH-35	YES	YES
WWC-36/EPH-36	YES	YES
WWC-37/EPH-37	YES	YES
WWC-38/EPH-38	YES	YES
WWC-39/EPH-39	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) 30-30M

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-8 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-7	256+30 LT	260+20 RT	N/A	1.55
WTL-8	260+50 LT	261+40 LT	N/A	0.098
WTL-9	262+20 LT	267+10 RT	N/A	0.673
WTL-10	306+70 RT	307+20 RT	N/A	0.024
WTL-11	26+00 RT RHINEHART RD	26+70 RT RHINEHART RD	N/A	N/A
WTL-12	335+00 RT	335+40 RT	N/A	N/A

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WTL-13	334+50 RT	334+75 RT	N/A	N/A
WTL-14	350+80 LT	351+80 LT	N/A	0.292
WTL-15	359+00 LT	359+00 LT	N/A	N/A
WTL-16	369+80 LT	372+90 RT	N/A	0.257

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) _____.

4.7. ENVIRONMENTAL COMMITMENTS

ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?

☐ YES ☒ NO

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

5. EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES (3.5.3)

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

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

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

☒YES ☐ NO

5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 2-YEAR, 24 HOUR STORM EVENT (3.5.3.3, 5.4.1.a).

5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (3.5.1.h)? ☒ YES ☐ NO

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

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

5.8. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

5.9. HAVE STAGED EPSC PLANS BEEN PREPARED FOR THE PROJECT (3.5.2)?

YES ☒ NO ☐ (IF YES, CHECK ONE BELOW)

5.9.1. ☐ PROJECT DISTURBED AREA IS 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 S-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 29A 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 2A, 2A1, 29A (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

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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)

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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 (½) 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): SOD, CONCRETE, RIP-RAP, AND TRM FOR SIDESLOPE AND DITCH OUTLET STABILIZATION, AND ENERGY DISSIPATORS FOR VELOCITY CONTROL.

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

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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;

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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.

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

JOHN K. BARRETT

PRINTED NAME

CIVIL ENGINEERING MANAGER 2

TITLE

JULY 18, 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.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	45007-1212-04	
CONST.	2017	STP-35 (64)	S-8

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
1-3	OUT-1		34+50 RT SR 92	3.2	0.2	0.2	0.2	N/A		
1-3	OUT-2		34+50 LT SR 92	8.0	1.4	1.4	1.4	N/A		
2-3	OUT-3		249+25 RT	1.0		0.7	0.7	N/A	WWC-15/EPH-15	
2-3	OUT-4		23+95 LT SR 92	8.0		1.3	1.3	N/A	WWC-18/EPH-18	
2-3	OUT-5A		257+05 RT	2.0		5.2	5.2	N/A		
2-3	OUT-5B		260+20 RT	5.0		3.3	3.3	N/A		
2-3	OUT-6		260+10 LT	8.0		3.7	3.7	N/A	STR-10	
1	OUT-8		34+00 RT RAINWATER RD	2.6	0.4			N/A		
2-3	OUT-8		33+75 RT RAINWATER RD	3.2		0.2	0.2	N/A		
1-3	OUT-9		33+85 LT RAINWATER RD	2.5	0.2	0.2	0.2	N/A		
1	OUT-10		23+60 LT PATIENCE DR	19.0	8.9			N/A		
2-3	OUT-10		23+70 LT PATIENCE DR	4.6		3.2	3.2	N/A		
2-3	OUT-11A		281+30 LT	30.0		0.4	0.4	N/A	WWC-25/UDF-25	
2-3	OUT-11B		281+40 LT	15.0		9.0	9.0	N/A	WWC-25/UDF-25	
1	OUT-12		284+80 RT	29.0	1.4			N/A	WWC-27/UDF-27	
1-3	OUT-13		284+95 RT	29.0	8.2	8.2	8.2	N/A	WWC-27/UDF-27	
1	OUT-14		297+00 RT	35.0	4.8			N/A	WWC-29/UDF-29	
2-3	OUT-14		297+00 RT	37.0		0.1	0.1	N/A	WWC-29/UDF-29	
1	OUT-15		307+45 RT	11.0	70.4			YES		
2-3	OUT-15		307+25 RT	2.0		52.3	52.3	YES		
2		OUT-15C	306+15 RT	50.0		2.0		N/A		
1-3	OUT-16		26+00 LT LOWER RHINEHART RD	24.0	1.0	1.0	1.0	N/A	WWC-31/EPH-31	
1	OUT-17		309+55 RT	15.0	15.3			YES		
2-3	OUT-17		309+60 RT	3.0		39.4	39.4	YES		
2-3		OUT-17A	314+50 LT	41.0		2.8	2.8	N/A		
2-3		OUT-17B	314+65 LT	39.0		0.3	0.3	N/A		
1	OUT-19		321+35 LT	29.0	1.4			N/A	STR-12	
2-3	OUT-19A		321+16 LT	18.0		3.6	3.6	N/A	STR-12	
2-3	OUT-19B		321+40 LT	17.0		4.1	4.1	N/A	STR-12	
2-3	OUT-20A		33+50 LT SIA TIE	12.0		1.7	1.7	N/A		
2-3	OUT-21A		328+75 LT	7.0		1.7	1.7	N/A	STR-14	
2-3	OUT-21B		327+35 RT	12.0		0.5	0.5	N/A	STR-14	
1	OUT-22		333+15 LT	28.0	0.2			N/A	STR-15	
2-3	OUT-22A		333+15 LT	28.0		0.2	0.2	N/A	STR-15	
2-3	OUT-22B		333+30 LT	17.0		5.5	5.5	N/A	STR-15	
2-3	OUT-22C		332+00 RT	12.0		0.9	0.9	N/A	STR-15	

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

OUTFALLS OUT-5, OUT-7, OUT-11, OUT-18, OUT-20, AND OUT-21 HAVE BEEN OMITTED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	45007-1212-04	
CONST.	2017	STP-35 (64)	S-9

OUTFALL TABLE (3.5.1.d, 5.4.1.g)

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	SLOPE WITHIN ROW (%)	STAGE 1 DRAINAGE AREA (AC)	STAGE 2 DRAINAGE AREA (AC)	STAGE 3 DRAINAGE AREA (AC)	SEDIMENT BASIN OR EQUIVALENT MEASURE(S) (YES, NO OR N/A)	RECEIVING RESOURCE (TDOT EBR LABEL) OR OTHER	COMMENTS
1	OUT-23		335+20 RT	20.0	2.3			N/A	STR-16	
2-3	OUT-23		335+20 RT	5.0		1.0	1.0	N/A	STR-16	
1	OUT-24		338+35 RT	26.0	4.1			N/A	WWC-35/EPH-35	
2-3	OUT-24		338+35 RT	3.7		0.6	0.6	N/A	WWC-35/EPH-35	
1	OUT-25A		341+90 LT	34.0	0.4			N/A	STR-17	
1	OUT-25B		342+10 LT	29.0	2.5			N/A	STR-17	
2-3	OUT-25A		341+90 LT	10.0		1.0	1.0	N/A	STR-17	
2-3	OUT-25B		342+10 LT	20.0		4.6	4.6	N/A	STR-17	
2-3	OUT-25C		341+95 RT	12.0		0.2	0.2	N/A	STR-17	
2-3	OUT-25D		342+05 RT	7.0		0.8	0.8	N/A	STR-17	
1	OUT-26		345+50 RT	11.0	2.2			N/A		
2-3	OUT-26		345+50 RT	7.0		0.8	0.8	N/A		
2-3	OUT-27A		352+05 LT	11.0		0.9	0.9	N/A		
2-3	OUT-27B		352+20 LT	35.0		0.9	0.9	N/A		
2-3	OUT-27C		350+70 RT	12.0		3.4	3.4	N/A		
2-3	OUT-28A		28+00 LT FINE HOLLOW RD	40.0		1.3	1.3	N/A	STR-12	
2-3	OUT-28B		27+65 RT FINE HOLLOW RD	45.0		0.4	0.4	N/A	STR-12	
2-3	OUT-29		365+05 LT	9.0		12.5	12.5	YES	STR-19	
2-3	OUT-30		365+50 RT	2.0		11.0	11.0	YES	STR-19	
2-3	OUT-31		378+10 LT	4.0		1.3	1.3	N/A	STR-12	
1	OUT-32		31+45 RT NORTON RD	5.0	2.1			N/A		
2-3	OUT-32		31+45 RT NORTON RD	8.0		0.9	0.9	N/A		

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

OUTFALLS OUT-25, OUT-27, AND OUT-28 HAVE BEEN OMITTED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

Index Of Sheets

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

SEVIER & JEFFERSON COUNTIES

S.R. 35 (U.S. 411) FROM SIMS ROAD IN SEVIER COUNTY
TO GRAPEVINE HOLLOW ROAD IN JEFFERSON COUNTY

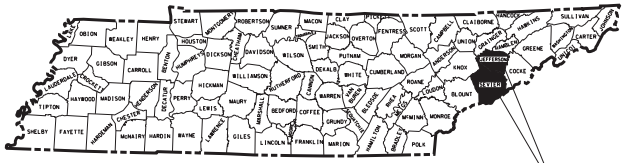
RIGHT-OF-WAY

STATE HIGHWAY NO. 35 F.A.H.S. NO. 35

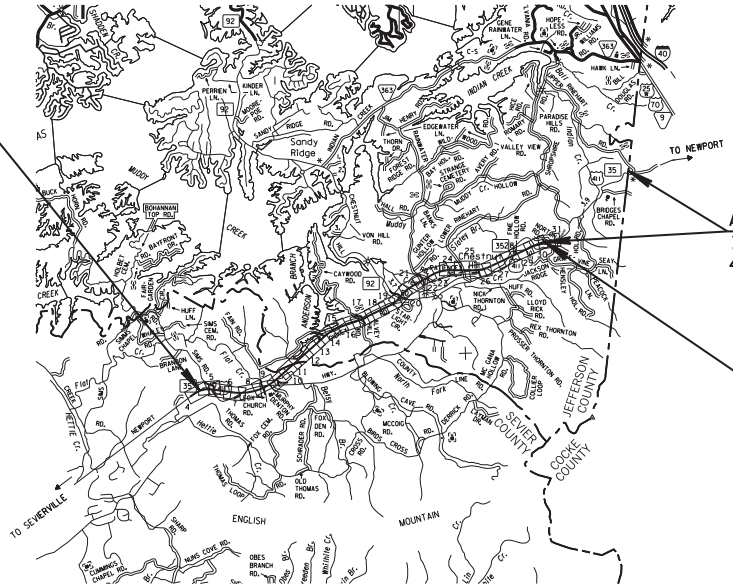
TENN.	YEAR	SHEET NO.
	2005	1
FED. AID PROJ. NO.	STP-35(30)	
STATE PROJ. NO.	78005-2239-14	
STATE PROJ. NO.	45007-2216-14	

REV. 02/12/07: CHANGED YEAR FROM 2004 TO 2005 WHICH APPLIES TO ENTIRE SET OF PLANS. ADDED SHEET NOS. 5E, 7D, 10D, 19C, 31C & 33D TO INDEX OF SHEETS. MODIFIED SHEET NO. 30C INDEX OF SHEETS.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED. ADDED SHEETS 2A1, 2A2, 28C, 33E, 55A-55AG, 56A-56AG, 57A-57AG, 330A-330GR.



78005-2239-14
BEGIN PROJ. NO. STP-35(30)
STA. 58+50.00 R.O.W.
SEVIER COUNTY



SCALE: 1"= 5280'

ADJACENT PROJ. NO. STP-35(23)
15007-2216-14 &
45007-2215-14 (R.O.W.)

45007-2216-14
END PROJ. NO. STP-35(30)
STA. 381+50.00 R.O.W.
JEFFERSON COUNTY

NO EXCLUSIONS
NO EQUATIONS

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER 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 C.E. MANAGER 1 OR
TDOT DESIGN MANAGER 1 CHRISTIE BROWN, P.E.

DESIGNED BY VOLKERT, INC.

DESIGNER NATHAN RUSSELL CHECKED BY KRYSTLE BRATTON, P.E.

P.E. NO. 78005-1235-04; 45007-1212-04

PIN NO. 101401.00

SEVIER COUNTY R.O.W. LENGTH	=	1.630 MILES
JEFFERSON COUNTY R.O.W. LENGTH	=	4.487 MILES
TOTAL R.O.W. PROJECT LENGTH	=	6.117 MILES

TRAFFIC DATA		
ADT (2004)	S.R. 35	4,990
ADT (2024)	S.R. 35	7,990
DHV (2024)	S.R. 35	879
D	S.R. 35	60 - 40
T (ADT)	S.R. 35	7 %
T (DHV)	S.R. 35	5 %
V	S.R. 35	70 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

1/20/2016 08:07 AM
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Index Of Sheets

SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2017	1
FED. AID PROJ. NO.	STP-35(64)	
STATE PROJ. NO.	45007-3222-14	

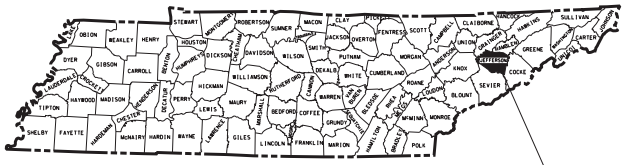
JEFFERSON COUNTY

S.R. 35 (U.S. 411), FROM INTERSECTION OF S.R. 92/DICKEY ROAD
TO GRAPEVINE HOLLOW ROAD

GRADE, DRAIN, BASE, PAVE

CONSTRUCTION

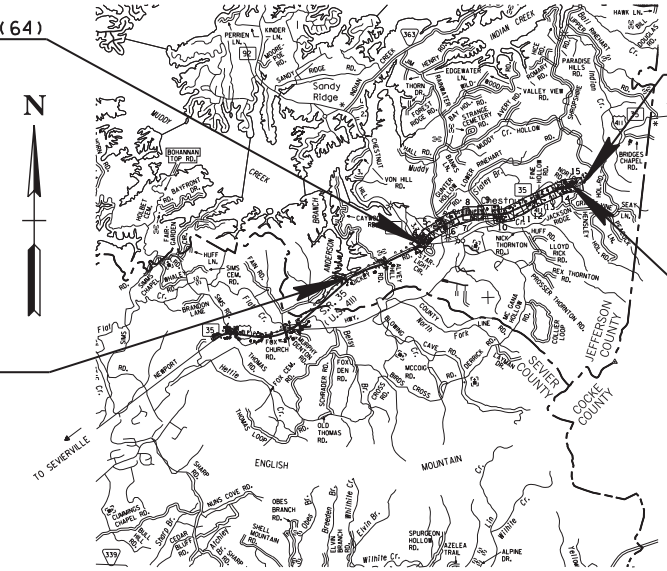
STATE HIGHWAY NO. 35 F.A.H.S. NO. 411



ALL R.O.W. WAS PURCHASED UNDER ADJACENT PROJECT STP/HPP-35(30), 78005-2239-14 & 45007-2216-14

45007-3222-14
BEGIN PROJ. NO. STP-35(64)
STA. 247+30.00 CONST.
N 591692.7323
E 2752695.7992

ADJACENT PROJECT
PIN NO. 101401.01



45007-3220-14
15007-3218-14
ADJACENT PROJECT
PIN NO. 101402.00

NO EXCLUSIONS
NO EQUATIONS

SURVEY
DATE: 2002
UPDATED: DEC. 2016

45007-3222-14
END PROJ. NO. STP-35(64)
STA. 385+45.68 CONST.
N 596518.0283
E 2765264.8594

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

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

DATE:

APPROVED:
JOHN SCHROER, COMMISSIONER

SCALE: 1"= 5280'

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER 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 C.E. MANAGER 2 CHRISTIE BROWN, P.E.

DESIGNED BY VOLKERT, INC.

DESIGNER NATHAN RUSSELL CHECKED BY KRYSTLE BRATTON, P.E.

P.E. NO. 45007-1212-04 (DESIGN)

PIN NO. 101401.02

ROADWAY LENGTH	=2.617 MILES
BRIDGE LENGTH	=0.000 MILES
*BOX BRIDGE LENGTH	=0.076 MILES
PROJECT LENGTH	=2.617 MILES

*NOT INCLUDED IN THE PROJECT LENGTH

TRAFFIC DATA		
ADT (2017):	S.R. 35	5,660
ADT (2037):	S.R. 35	9,860
DHV (2037):	S.R. 35	997
D:	S.R. 35	65-35
T (ADT):	S.R. 35	7%
T (DHV):	S.R. 35	5%
V:	S.R. 35	70 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

6/9/2017 2:28:20 AM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-35(64)	1A

S.R. 35 JEFFERSON COUNTY

45007-3222-14 (CONST.)

INDEX

- SHEETS 33-35 NOT USED
- THE LETTERS "I" & "O" ARE OMITTED FOR CLARITY.

STANDARD ROADWAY DRAWINGS

DWG. NO	REV.	DESCRIPTION
ROADWAY DESIGN STANDARDS		
RD-A-1	12-18-95	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
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
RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-3A	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH DEPRESSED MEDIANS
RD01-TS-3C	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS
RD01-SE-3	10-15-02	RURAL SUPERELEVATION DETAILS
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
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
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD01-SD-5		INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	01-25-16	UNDERDRAIN LATERAL DETAILS
RD-UD-6	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 1:1 & 2:1 SLOPES
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-9	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 6:1 SLOPES
PIPE CULVERTS AND ENDWALLS		
D-PB-1	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
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-PE-30A	10-10-16	30" CONCRETE ENDWALL CROSS DRAN WITH STEEL PIPE GRATE
D-PE-30B		30" CONCRETE ENDWALL CROSS DRAN WITH STEEL PIPE GRATE
D-PE-36A	06-14-13	36" CONCRETE ENDWALL CROSS DRAN WITH STEEL PIPE GRATE
D-PE-36B		36" CONCRETE ENDWALL CROSS DRAN WITH STEEL PIPE GRATE

DWG. NO	REV.	DESCRIPTION
D-PE-42A	06-14-13	42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-42B		42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48A	06-14-13	48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-48B		48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE
D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLS
D-SEW-1A	06-14-13	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE GRATE
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL (2:1 SLOPE, 36" TO 78")
CATCH BASINS AND MANHOLES		
D-JBS-2	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX
D-JBS-3	08-01-12	STANDARD 5'2" X 5'2" SQUARE CONCRETE NO. 3 JUNCTION BOX
D-MH-2	02-02-16	STANDARD MANSONRY & PRECAST NO. 3 MANHOLE
D-MH-3	04-01-14	TYPICAL DESIGN OF LIDS FOR NO. 3 MANHOLE
D-MH-4	08-01-12	STANDARD NO. 3 MANHOLE CASTINGS & 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' X7' SQUARE CONCRETE NO. 3 MANHOLE
D-MH-7	04-01-14	STANDARD 9' X9' SQUARE CONCRETE NO. 3 MANHOLE
D-RF-1	02-02-16	STANDARD PRECAST RISER
ROADWAY AND PAVEMENT APPURTENANCES		
RP-D-15	04-08-16	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-DHG-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
SAFETY DEVICES AND FENCES		
S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-2	10-10-16	SAFETY PLAN AT SIDE ROADS OR PRIVATE DRIVES
S-PL-6	10-10-16	SAFETY PLAN: SAFETY HARDWARE PLACEMENT
S-GR31-1	03-28-17	W-BEAM GUARDRAIL
S-GR31-1A		W-BEAM BARRIER FASTENING HARDWARE
S-GRT-1		TYPE 12 GUARDRAIL TERMINAL (BURIED-IN-BACKSLOPE)
S-GRT-2	03-28-17	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P	10-10-16	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINALS
S-GRT-3	03-28-17	TYPE 21 GUARDRAIL END TERMINAL
S-GRA-1	10-10-16	GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL
S-GRA-1A		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL (ALTERNATIVE)
S-GRA-3	03-28-17	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	03-28-17	IN-LINE GUARDRAIL ANCHOR
S-F-1	05-24-12	HIGH VISIBILITY FENCE

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

INDEX AND STANDARD DRAWINGS

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STANDARD ROADWAY DRAWINGS CONT'D

DWG. NO	REV.	DESCRIPTION
S-RP-2	02-08-16	STANDARD CONCRETE RIGHT-OF-WAY MARKERS
TRAFFIC CONTROL DESIGN		
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-15A	01-30-15	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
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
EROSION PREVENTION AND SEDIMENT CONTROL		
EC-STR-2	08-01-12	SEDIMENT FILTER BAGS
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-8	06-10-14	FILTER SOCK
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-29	08-01-12	PERMANENT SLOPE DRAIN PIPE
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-6	05-06-16	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-7	08-01-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-11	08-01-12	CULVERT PROCTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-12	08-01-12	ROCK SEDIMENT DAM
EC-STR-11A	08-01-12	CULVERT PROCTECTION TYPE 2
EC STR 25	08 01 12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30		INSTREAM DIVERSION (WITHOUT TRAFFIC)
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNELS
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 DIVERSON (DOWNSTREAM)
EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSON (UPSTREAM)
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION

DWG. NO	REV.	DESCRIPTION
STANDARD STRUCTURES DRAWINGS		
STD-17-1		INDEX OF DRAWINGS
STD-17-2		TERMINOLOGY
STD-17-3		GENERAL NOTES
STD-17-4		DESIGN SECTION LIMITS
STD-17-5		TYPICAL SECTION AND DETAILS
STD-17-6		TYPICAL ELEVATIONS
STD-17-7		CURB, RAIL & EDGE BEAM DETAILS – SKEW NOT LESS THAN 45 DEG.
STD-17-8		EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' - 6"
STD-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-12		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-13		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-14		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTION
STD-17-16		WINGWALL DESIGN SECTION
STD-17-17	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-26		EXTENSION DETAILS
STD-17-53		BOX BRIDGE, 1 BARREL AT 8', CLEAR HTS. 6' - 8', 0 – 60' FILL
STD-17-167		SLAB BRIDGE, 3 BARRELS AT 18', CLEAR HTS. 12' - 14', 0 – 60' FILL
STANDARD TRAFFIC OPERATIONS DRAWINGS		
SIGNS		
T-S-6	02-12-91	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS, ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-12	07-02-15	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-20-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	08-17-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-15	07-02-15	GROUND MOUNTED ROADSIDE SIGN AND DETAILS
T-S-15A	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS

DWG. NO	REV.	DESCRIPTION
T-S-17	07-02-15	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-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-23C	07-02-15	BREAKAWAY U-POST SIGN SUPPORTS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-35(64)	1A1

S.R. 35 JEFFERSON COUNTY

45007-3222-14 (CONST.)

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DEPARTMENT OF TRANSPORTATION

STANDARD DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-35(64)	2A

S.R. 35 JEFFERSON COUNTY

45007-3222-14 (CONST.)

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
	202-02.01	REMOVAL OF PIPE (15" CMP, STA. 33+00 SR 92)	L.F.	48
	202-02.02	REMOVAL OF PIPE (24" CMP, STA. 22+61 SR 92)	L.F.	40
	202-02.03	REMOVAL OF PIPE (18" CMP, STA. 31+00 RAINWATER RD)	L.F.	91
	202-02.04	REMOVAL OF PIPE (6" CMP, STA. 277+07)	L.F.	22
	202-02.05	REMOVAL OF PIPE (24" CMP, STA. 307+27)	L.F.	140
	202-02.06	REMOVAL OF PIPE (12" CMP, STA. 312+25)	L.F.	77
	202-02.07	REMOVAL OF PIPE (66" CMP, STA. 33+30 SIA 1)	L.F.	72
	202-02.08	REMOVAL OF PIPE (36" CMP, STA. 350+63)	L.F.	15
	202-02.09	REMOVAL OF PIPE (60"X48" CMP, STA. 365+30)	L.F.	36
	202-02.10	REMOVAL OF PIPE (18" CMP, STA. 367+84)	L.F.	40
	202-02.11	REMOVAL OF PIPE (24" CMP, STA. 371+05)	L.F.	34
	202-02.12	REMOVAL OF PIPE (36" CMP, STA. 380+70)	L.F.	44
(1)	202-13	WATER WELL ABANDONMENT	EACH	2
(2)(3)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	1907560
(4)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	169956
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	50875
	203-06	WATER	M.G.	3543
	204-08	FOUNDATION FILL MATERIAL	C.Y.	177
(5)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	42
(6)	209-02.03	8" TEMPORARY SLOPE DRAIN	L.F.	1629
(6)	209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	90
(6)	209-02.06	15" TEMPORARY SLOPE DRAIN	L.F.	501
(6)	209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	800
(6)(7)	209-03.21	FILTER SOCK (12 INCH)	L.F.	46248
(6)(8)	209-03.22	FILTER SOCK (18 INCH)	L.F.	137690
(6)(9)	209-03.23	FILTER SOCK (24 INCH)	L.F.	15066
	209-05	SEDIMENT REMOVAL	C.Y.	3808
(6)	209-08.02	12" DIA COIR LOG (DESCRIPTION)	L.F.	586
(6)(10)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	107698
(6)	209-08.07	ROCK CHECK DAM PER	EACH	137
(6)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	75
(6)	209-08.09	FILTER SOCK CHECK DAM	EACH	55
(6)(11)	209-09.01	SANDBAGS	BAG	9000
(6)(12)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	18
(6)	209-09.22	POLYACRYLAMIDE POWDER	LB.	416
(6)	209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	1788
(6)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	2106
(6)	209-40.34	CATCH BASIN PROTECTION (TYPE F)	EACH	1
(6)	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	5208
(13)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	120465
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	2369
(14)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	22270
(15)	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	23183
	307-01.02	ASPHALT CEVENT (PG64-22) (BPMB-HM) GRADING A-S	TON	413
	307-01.03	AGGREGATE (BPMB-HM) GRADING A-S MIX	TON	12289
	307-01.05	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	12188
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	221
	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	877
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	105
	411-01.07	ASPHALT CONCRETE MIX (PG64-22) (ACS) GRADING E (SHOULDER)	TON	2715
(16)	411-01.10	ACS MIX(PG64-22) GRADING D	TON	9485
	411-12.01	SCORING SHOULDERS (CONTINUOUS)(16IN WIDTH)	L.M.	0.5
	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS)(16IN WIDTH)	L.M.	5.4

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(17)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	586
(18)	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	34454
(42)	604-15.01	PORTLAND CEMENT GROUT	C.Y.	5
	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	71
	607-03.30	18" PIPE CULVERT	L.F.	116
(19)	607-05.04	24" CONCRETE PIPE CULVERT (CLASS V)	L.F.	392
	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	467
	607-06.04	30" CONCRETE PIPE CULVERT (CLASS V)	L.F.	518
	607-06.30	30" PIPE CULVERT	L.F.	38
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	194
	607-07.30	36" PIPE CULVERT	L.F.	52
	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	251
	607-08.03	42" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	212
(20)	607-08.04	42" CONCRETE PIPE CULVERT (CLASS V)	L.F.	370
	607-08.30	42" PIPE CULVERT	L.F.	44
	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	185
	607-09.30	48" PIPE CULVERT	L.F.	70
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	116
	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	28
	607-41.02	15" SLOPE DRAIN PIPE	L.F.	342
	607-41.03	18" SLOPE DRAIN PIPE	L.F.	640
	607-41.04	24" SLOPE DRAIN PIPE	L.F.	913
	611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	1
	611-01.06	MANHOLES, > 20' - 24' DEPTH	EACH	2
	611-01.07	MANHOLES, > 24' - 28' DEPTH	EACH	1
	611-01.10	MANHOLES, (40' - 44' DEPTH)	EACH	1
	611-02.10	JUNCTION BOX, TYPE 1	EACH	2
	611-02.11	JUNCTION BOX, TYPE 2	EACH	3
	611-02.12	JUNCTION BOX, TYPE 3	EACH	1
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	49
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	1378
	611-07.31	18IN ENDWALL (SIDE DRAIN) 6:1	EACH	10
	611-07.32	24IN ENDWALL (SIDE DRAIN) 6:1	EACH	2
	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
	611-07.62	30IN ENDWALL (CROSS DRAIN) 6:1	EACH	4
	611-07.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-07.64	36IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
	611-07.65	36IN ENDWALL (CROSS DRAIN) 6:1	EACH	1
	611-07.66	42IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-07.69	48IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-07.70	48IN ENDWALL (CROSS DRAIN) 4:1	EACH	3
	611-07.71	48IN ENDWALL (CROSS DRAIN) 6:1	EACH	1
(21)	611-09.01	ADJUSTMENT OF EXISTING CATCHBASIN	EACH	1
	611-39.01	CATCH BASINS, TYPE 39, 0' - 4' DEPTH	EACH	1
	612-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	210
(22)	670-02	CONCRETE DRIVEWAY	S.F.	3354
	703-01	CEMENT CONCRETE DITCH PAVING	C.Y.	21
	705-02.02	SINGLE GUARDRAIL (TYPE 2)	L.F.	9523
	705-04.02	GUARDRAIL TERMINAL (TYPE 12)	EACH	2
	705-04.04	GUARDRAIL TERMINAL (TYPE 21)	EACH	9
(23)	705-04.07	TAN ENERGY ABSORBING TERM (NCHRP 350 TL3)	EACH	13
(6)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	12309
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	98
(6)(24)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	1000
(6)(25)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	18958
(6)(26)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	11956
(6)(27)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	5212

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DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	24970
(41)	710-05	LATERAL UNDERDRAIN	L.F.	3099
(26)	710-06.11	LATERAL UNDERDRAIN ENDWALL (2:1)	EACH	30
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	10
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	11
	710-06-15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	85
(29)	710-10.01	4" PERFORATED PLASTIC PIPE	L.F.	1350
	712-01	TRAFFIC CONTROL	LS	1
(30)	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	570
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	36
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	47
	712-06	SIGNS (CONSTRUCTION)	S.F.	832
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	432
	712-08.03	ARROW BOARDS (TYPE C)	EACH	1
	713-11.01	"U" SECTION STEEL POSTS	LB.	896
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	1877
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	544
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	370
(31)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	716-01.07	TEMPORARY RAISED PAVEMENT MARKER, YELLOW	EACH	31
	716-01.21	Snwplwole Pvmt Mrkrs (Bi-Dir)(1 Color)	EACH	439
	716-01.22	Snwplwole Pvmt Mrkrs (Moro-Dir)(1 Color)	EACH	307
	716-01.23	Snwplwole Pvmt Mrkrs (Bi-Dir)(2 Color)	EACH	63
(32)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	324
(32)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	30
(32)	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	4
	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	13.9
	716-12.05	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.	171
	716-13.01	SPRAY THERMO PVMT MRKNG (50 mil) (4IN LINE)	L.M.	3.3
(33)	716-05.02	PAINTED PAVEMENT MARKINGS(8" BARRIER LINE)	L.F.	11616
(33)	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	11.5
	717-01	MOBILIZATION	LS	1
(34)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	37772
(35)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	37433
(6)(36)	740-11.03	TEMPORARY SEDIMENT TUBE 18IN (DESCRIPTION)	L.F.	137690
(37)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	5532
	801-01.38	SPECIAL WETLAND SEED MIXTURE	UNIT	79
	801-02	SEEDING (WITHOUT MULCH)	UNIT	2123
(38)	801-01.10	SEEDING (WITH BONDED FIBER MATRIX)	UNIT	1305
	801-02.15	FERTILIZER	TON	128
(39)	801-03	WATER (SEEDING & SODDING)	M.G.	1120
	801-09	AGRICULTURAL LIME	TON	450
	802-11.04	ACER SACCHARUM (SUGAR MAPLE 2-5FT CNTNR GRWN)	EACH	12
	802-11.09	CARYA OVATA (SHAGBARK HICKORY 2-5FT CNTNR GRWN)	EACH	12
	802-11.18	LIQUIDAMBER STYRACIFLUA (SWEETGUM 2-5FT CNTNR GRWN)	EACH	12
	802-11.25	PLATANUS OCCIDENTALIS (SYCAMORE 2-5FT CNTNR GRWN)	EACH	12
	802-11.31	QUERCUS FALCATA (SOUTHERN RED OAK 2-5FT CNTNR GRWN)	EACH	12
	802-12.01	ACER NEGUNDO (BOX ELDER SEEDLNG B.R.)	EACH	20
	802-12.18	LIQUIDAMBER STYRACIFLUA (SWEETGUM SEEDLNG B.R.)	EACH	20
	802-12.40	SALIX NIGRA (BLACK WILLOW SEEDLNG B.R.)	EACH	20
	803-01	SODDING (NEW SOD)	S.Y.	21637
(6)	805-01.01	TURF REINFORCEMENT MAT (CLASS I)	S.Y.	7050
	805-01.03	TURF REINFORCEMENT MAT (CLASS III)	S.Y.	5611
	805-01.04	TURF REINFORCEMENT MAT (CLASS IV)	S.Y.	1003
	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	75071
	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	229674
	805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	507
(40)	806-02.03	PROJECT MOWING	CYCLE	4

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
303-01.02	GRANULAR BACKFILL (BRIDGES)	TON	14656
604-02.01	CLASS A CONCRETE (BOX BRIDGES)	C.Y.	7048
604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGES)	LB.	668365

FOOTNOTES

(1) S.R. 35 STA. 347+02+/-, 24+/- RT AND S.R. 35 STA. 378+73+/-, 31+/- LT. IF WELL IS LOCATED DURING CONSTRUCTION, WATER WELL SHALL BE CLOSED BY A LICENSED WELL DRILLER BY BACKFILLING WITH PORTLAND CEMENT THE ENTIRE DEPTH OF THE WELL, AND CLOSED IN ACCORDANCE WITH STATE WELL CLOSURE CONSTRUCTION STANDARDS. WELL CLOSURE REPORTS SHALL BE SUBMITTED TO TDEC DIVISION OF WATER RESOURCES BY THE LICENSED DRILLER.

(2) REFER TO SPECIAL NOTES SHEET 2L2. INCLUDES 17637 CY OF UNDERCUTTING TO BE PAID AS ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). ITEM ALSO INCLUDES REMOVAL OF EXISTING PAVEMENT AS NECESSARY.

(3) INCLUDES 17434 CY FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(4) INCLUDES 2939 TONS FOR FILLING EXISTING WWC-39/EPH-39 AND 154 TONS FOR FILLING EXISTING STR-19 AS SHOWN ON SHEET 13A. INCLUDES 623 TONS FOR SNK-2 TREATMENT, 6238 TONS FOR SNK-3 TREATMENT. INCLUDES 160001 TONS FOR GRADED SOLID ROCK BUTTRESSES AS SPECIFIED IN THE GEOTECH REPORT AND SHEET 43W. ITEM ALSO INCLUDES "KEYSTONE ROCK" AS SHOWN IN SINKHOLE TREATMENT DETAILS ON SHEET 43X

(5) FOR USE AS DIRECTED BY THE ENGINEER.

(6) ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER. SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.

(7) INCLUDES 23124 LF FOR MAINTENANCE REPLACEMENT

(8) INCLUDES 8863 LF FOR MAINTENANCE REPLACEMENT

(9) INCLUDES 7533 LF FOR MAINTENANCE REPLACEMENT

(10) INCLUDES 10416 LF FOR USE ALONG TEMPORARY DIVERSION CHANNELS, 880 LF FOR USE AROUND SEDIMENT FILTER BAGS, & 48200 LF FOR MAINTENANCE REPLACEMENT.

(11) USED FOR STREAM DIVERSIONS AND CULVERT INSTALLATION.

(12) INCLUDES 9 REPLACEMENT SEDIMENT FILTER BAGS.

(13) INCLUDES 11000 TONS FOR MAINTAINING TRAFFIC AND ACCESS TO DRIVES DURING CONSTRUCTION.

(14) TO BE USED FOR EROSION PREVENTION AND SEDIMENT CONTROL. ITEM ALSO TO BE USED FOR SINKHOLE TREATMENT, EMBANKMENT SPRING DRAIN AND GRADED SOLID ROCK BUTTRESSES AS SPECIFIED IN GEOTECH REPORT. INCLUDES 98 TONS FOR USE WITH SEDIMENT FILTER BAGS, 46 TONS FOR CULVERT PROTECTION TYPE 1, 27 TONS FOR CULVERT PROTECTION TYPE 2, 24 TONS FOR SNK-2 TREATMENT, 1956 TONS FOR SNK-3 TREATMENT, 1523 TONS FOR EMBANKMENT SPRING DRAIN AND 19523 TONS FOR GRADED SOLID ROCK BUTTRESS.

(15) INCLUDES 4600 TONS FOR GRADE ADJUSTMENT BETWEEN NORTON ROAD AND EXISTING SR 35.

(16) INCLUDES 2100 TONS FOR MAINTENANCE OF TRAFFIC.

(17) INCLUDES 36 CY FOR ENERGY DISSIPATORS.

(18) INCLUDES 1718 LBS FOR ENERGY DISSIPATORS.

(19) INCLUDES SPECIAL DESIGN FOR CROSS DRAIN AT STA. 307+27.

(20) INCLUDES SPECIAL DESIGN FOR CROSS DRAIN AT STA. 258+78.

(21) INCLUDES CATCH BASIN LOCATED AT STA. 382+59.

(22) 40' BUS. ENT. S.R. 92 STA. 33+00 RT.

(23) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING 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 ON THE MANUFACTURER'S DRAWING.

(24) FOR TEMPORARY CONTRUCTION ENTRANCES.

(25) INCLUDES 360 TONS FOR CULVERT PROTECTION TYPE 1, 2501 TONS FOR DITCH LINING, 3321 TONS FOR TEMPORARY SLOPE DRAINS, AND 12775 TONS FOR DIVERSION CHANNELS.

(26) INCLUDES 676 TONS FOR RIPRAP PADS, 6786 TONS FOR DITCH LINING AND 1186 FOR PERMANENT SLOPE DRAINS.

(27) INCLUDES 50 TONS FOR RIP RAP PADS AND 5162 TONS FOR DITCH LINING.

(28) INCLUDES 14 FOR EMBANKMENT SPRING DRAIN OUTLETS AS SHOWN IN THE GEOTECH REPORT AND ON SHEET 43W.

(29) FOR USE WITH EMBANKMENT SPRING DRAIN AS SHOWN IN THE GEOTECH REPORT AND ON SHEET 43W.

(30) INCLUDES RELOCATION AND INSTALLATION FOR EACH PHASE OF THE CONSTRUCTION SEQUENCE.

(31) INCLUDES REMOVAL OF ALL EXISTING SIGNS AS DIRECTED BY THE ENGINEER.

(32) CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PERFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.

(33) FOR TRAFFIC CONTROL.

(34) INCLUDES 15296 SY FOR DITCH LINING, 714 SY FOR CULVERT PROTECTION TYPE 1, 504 SY FOR CULVERT PROTECTION TYPE 2, 586 SY FOR CONSTRUCTION ENTRANCES, 1198 FOR USE WITH RIP RAP PADS, 18497 SY FOR DIVERSION CHANNELS, AND 877 SY FOR USE WITH SEDIMENT FILTER BAGS.

(35) TO BE USED FOR FILLING EXISTING STR-19 & WWC-39/EPH-39 AS SHOWN ON SHEET 13A, EMBANKMENT SPRING DRAINS, SINKHOLE TREATMENT AND GRADED SOLID ROCK BUTTRESSES AS SPECIFIED IN GEOTECH REPORT. INCLUDES 2933 SY FOR FILLING EXISTING WWC-39/EPH-39, 252 SY FOR FILLING EXISTING STR-19, 5213 SY FOR EMBANKMENT SPRING DRAIN, 18 SY FOR SNK-2 TREATMENT, 201 SY FOR SNK-3 TREATMENT, AND 31989 SY FOR GRADED SOLID ROCK BUTTRESS AS SHOWN ON THE CROSS SECTIONS.

(36) INCLUDES 68845 LF FOR MAINTENANCE REPLACEMENT

(37) TO BE USED WITH TURF REINFORCEMENT MAT CLASS 1 AND FOR EPSC PHASING THROUGHOUT PROJECT.

(38) FOR USE WITH EROSION CONTROL BLANKET ON SLOPES 3:1 OR STEEPER.

(39) INCLUDES 550 GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.

(40) ITEM INCLUDES LITTER AND TRASH REMOVAL. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE COST OF ITEM NO. 806-02.03, PROJECT MOWING, CYCL.

(41) INCLUDES 2100 LF FOR USE WITH EMBANKMENT SPRING DRAIN.

(42) FOR SEALING OF WELLS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-35(64)	2A1

S.R. 35 JEFFERSON COUNTY

45007-3222-14 (CONST.)

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-35(64)	2L

S.R. 35 JEFFERSON COUNTY

45007-3222-14 (CONST.)

GENERAL NOTES

GRADING

(1) ANY AREA THAT IS DISTURBED OUTSIDE LIMITS OF CONSTRUCTION DURING THE LIFE OF THIS PROJECT SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.

(2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.

(3) THE CONTRACTOR SHALL NOT DISPOSE OF ANY MATERIAL EITHER ON OR OFF STATE-OWNED R.O.W. IN A REGULATORY FLOOD WAY AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(4) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04 AND/OR 203-07. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.

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

(6) ITEM NO. 801-02.01 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

(7) ITEM NO. 801-01, SEEDING (WITH MULCH), SHALL BE USED WHERE EROSION CONTROL BLANKET OR SOD ARE NOT APPLIED.

(8) ITEM NO. 801-02, SEEDING (WITHOUT MULCH) AND EROSION CONTROL BLANKET , SHALL BE PLACED AT LOCATIONS SHOWN ON THE PLANS AS WELL AS LOCATIONS DIRECTED BY THE ENGINEER.

GUARDRAIL

(9) THE CONTRACTOR SHALL NOT REMOVE ANY SECTIONS OF EXISTING GUARDRAIL TO REWORK SHOULDERS OR FLATTEN SLOPES UNTIL THE ENGINEER CONCURS IN THE NECESSITY OF REMOVAL DUE TO CONSTRUCTION REQUIREMENTS AND THE APPROPRIATE WARNING DEVICES ARE INSTALLED. THE PROPOSED GUARDRAIL, INCLUDING ANY ANCHOR SYSTEM, SHALL BE INSTALLED QUICKLY TO MINIMIZE TRAFFIC EXPOSURE TO ANY HAZARD. NO PAYMENT WILL BE MADE FOR A SECTION OF PROPOSED GUARDRAIL, INCLUDING ANCHORS, UNTIL IT IS COMPLETE IN PLACE.

(10) IF ANY APPROACH END OF A SECTION OF GUARDRAIL OR BRIDGE RAIL MUST TEMPORARILY BE LEFT INCOMPLETE AND EXPOSED TO TRAFFIC, THE CONTRACTOR SHALL USE TWO (2) TEMPORARY BARRICADES OR DRUMS WITH TYPE A LIGHTS AND ROUNDED END ELEMENTS AS MINIMUM MEASURES TO PROTECT TRAFFIC FROM THE HAZARD OF AN EXPOSED END. ALL COST OF FURNISHING AND INSTALLING A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL.

(11) GUARDRAIL IS TO BE COMPLETE IN PLACE BEFORE THE MAINLINE ROADWAY IS OPENED TO TRAFFIC.

DRAINAGE

(12) THE CONTRACTOR SHALL SHAPE DITCHES TO THE SPECIFIED DESIGN. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(13) EXCAVATION FOR PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT WILL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT OF PIPE.

(14) CULVERT EXCAVATION FOR CONCRETE BOX OR SLAB TYPE CULVERTS OR BRIDGES WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN THE COST OF OTHER ITEMS.

(15) THE CUTTING OF INLET AND OUTLET DITCHES WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER WILL BE MEASURED AND PAID FOR AS ITEM NO. 203-01 ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED).

(16) WHERE A CULVERT (PIPE, SLAB OR BOX) IS MOVED TO A NEW LOCATION OTHER THAN THAT SHOWN ON THE PLANS, INCREASING OR DECREASING THE AMOUNT OF CULVERT EXCAVATION, NO INCREASE OR DECREASE IN THE AMOUNT OF PAYMENT WILL BE MADE DUE TO SUCH CHANGE.

(17) DURING CONSTRUCTION OF DRAINAGE STRUCTURES ALL COST ASSOCIATED WITH MAINTAINING THE FLOW OF WATER AND TRAFFIC AT THESE STRUCTURES, DURING THE PHASED CONSTRUCTION OF THIS PROJECT ARE TO BE INCLUDED IN THE UNIT PRICE OF THE DRAINAGE STRUCTURES AND TRAFFIC CONTROL ITEMS.

(18) ALL EXISTING PIPES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER THAT ARE TO BE LEFT IN PLACE AND ABANDONED MUST BE BACKFILLED AND PLUGGED. ALL COST FOR THIS WORK SHALL BE INCLUDED IN ITEM NO. 204-08.01, BACKFILL MATERIAL (FLOWABLE FILL), PER C.Y.

FENCING

(19) THE CONTRACTOR SHALL GIVE THE AFFECTED PROPERTY OWNERS TWO WEEKS NOTICE PRIOR TO CUTTING FENCES.

MISCELLANEOUS

(20) ALL DETOUR, ACCESS, SERVICE AND FRONTAGE ROADS SHALL BE CONSTRUCTED WITH A MINIMUM OF ONE (1) COURSE OF BASE MATERIAL BEFORE TRAFFIC IS INTERRUPTED ON EXISTING ROADS.

(21) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES WHERE AND AS DIRECTED BY THE ENGINEER.

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

ROAD CLOSURE

(23) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXMATE DURATION OF THE CONSTRUCTION. THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

PAVEMENT MARKINGS

TEMPORARY PAVEMENT MARKING ON INTERMEDIATE LAYERS

(24) TEMPORARY PAVEMENT LINE MARKINGS ON INTERMEDIATE LAYERS OF PAVEMENT SHALL BE REFLECTIVE TAPE OR REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAYS WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.20, PAINTED PAVEMENT MARKING (6" LINE), L.M.

(25) WIDE (8 INCH) TEMPORARY PAVEMENT MARKING LINE WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02 PAINTED PAVEMENT MARKING (8" BARRIER LINE), LIN. FT.

FINAL PAVEMENT MARKING

(26) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

(27) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 4" SPRAY THERMOPLASTIC (60 mil) INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-13.01, SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(28) THE PAVEMENT MARKING ON THE TEMPORARY TIE FOR THE CENTERLINE AND EDGELINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO.716-05.20, PAINTED PAVEMENT MARKING (6IN LINE), LIN. M.

(29) BEFORE OPENING THE TEMPORARY TIE TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01, TRAFFIC CONTROL, LUMP SUM.

PAVEMENT

PAVING

(30) THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE DIRECTION OF TRAFFIC.

(31) THE CONTRACTOR SHALL ATTACH A DEVICE TO THE SCREED OF THE PAVER SUCH THAT MATERIAL IS CONFINED AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A CONSOLIDATED WEDGE-SHAPE PAVEMENT EDGE OF APPROXIMATELY 25 TO 30 DEGREES AS IT LEAVES THE PAVER (MEASURED FROM A LINE PARALLEL TO THE PAVEMENT SURFACE.) THE DEVICE SHALL MEET THE REQUIREMENTS THAT ARE CURRENTLY SET FORTH IN SPECIAL PROVISION 407SE.

GRADED SOLID ROCK

(32) THE ROCK FILL (GRADED SOLID ROCK) MATERIAL SHALL CONSIST OF SOUND, NON-DEGRADABLE LIMESTONE OR SANDSTONE WITH A MAXIMUM SIZE OF 3'-0". AT LEAST 50% (BY WEIGHT) OF THE ROCK SHALL BE UNIFORMLY DISTRIBUTED BETWEEN 1'-0" AND 3'-0" IN DIAMETER, AND NO GREATER THAN 10% (BY WEIGHT) SHALL BE LESS THAN 2" IN DIAMETER. THE MATERIAL SHALL BE ROUGHLY EQUIDIMENSIONAL; THIN, SLABBY MATERIALS WILL NOT BE ACCEPTED. THE CONTRACTOR SHALL BE REQUIRED TO PROCESS THE MATERIAL WITH AN ACCEPTABLE MECHANICAL MEANS (A SCREENING PROCESS CAPABLE OF PRODUCING THE REQUIRED GRADATION). THE ROCK SHALL BE APPROVED BY A REPRESENTATIVE OF THE DIVISION OF MATERIALS AND TESTS BEFORE USE.

(33) THIS GRADED SOLID ROCK MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING FIVE FEET IN DEPTH.

SIGNING

(34) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUTOUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND. THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL EXTRUDED PANEL SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE, AS OUTLINED IN THE STANDARD SPECIFICATIONS. ALL SHIELDS ON GUIDE SIGNS SHALL BE DEMOUNTABLE AND ATTACHED TO THE SIGN FACE AS OUTLINED IN THE STANDARD SPECIFICATIONS.

(35) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE LENGTHS WERE COMPUTED FROM THE CROSS-SECTIONS CONTAINED IN THE CONSTRUCTION PLANS. IN THE EVENT THE SUPPORT LENGTHS ARE 2 FEET SHORTER OR LONGER THAN SHOWN ON THE PLANS, THE ENGINEER SHALL VERIFY THE SUPPORT TYPE WITH THE ROADWAY DESIGN DIVISION, SIGNING AND MARKING SECTION, TELEPHONE NO. (615)-741-0982. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.

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NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

6/8/2017
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-35(64)	2L1

S.R. 35 JEFFERSON COUNTY

45007-3222-14 (CONST.)

GENERAL NOTES CON'T

SIGNING CON'T

(36) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.

(37) AFTER THE SIGN LOCATIONS HAVE BEEN STAKED, BUT PRIOR TO ORDERING ANY MATERIAL FOR THE SUPPORTS, THERE SHALL BE A FIELD INSPECTION AND APPROVAL BY THE REGIONAL CONSTRUCTION OFFICE.

(38) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS (3 SETS) OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. THE LAYOUT DRAWINGS SHALL BE SENT TO THE ROADWAY DESIGN DIVISION, SIGNING AND MARKING SECTION, SUITE 1200, J. K. POLK BUILDING, NASHVILLE, TN 37243-1402.

(39) ALL SIGNS MARKED 'TO BE REMOVED' ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

(40) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.

(41) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS, EXCEPT THAT CUT-OUT DIRECT APPLIED COPY SHALL BE USED ON ALL FLAT SHEET SIGNS WITH A GREEN BACKGROUND, OR BROWN BACKGROUND.

(42) THE LENGTHS OF ALL SIGN SUPPORTS SHOWN ON THE SIGN SCHEDULE ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ERECTION.

(43) THE LETTERS, DIGITS, ARROWS, BORDERS, AND ALPHABET ACCESSORIES ON ALL FLAT SHEET SIGNS SHALL BE APPLIED BY SILK SCREENING PROCESS.

TRAFFIC CONTROL DIRECTIONAL SIGNING

(44) WHEN EXISTING "TOURIST ORIENTED DIRECTIONAL SIGNS" (TODS) ARE ON NON-ACCESS CONTROLLED CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS IN FULL VIEW TO THE MOTORING PUBLIC DURING ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING THESE "TODS" AND TEMPORARY SUPPORTS ARE TO BE PAID FOR UNDER ITEM NO. 712-01, TRAFFIC CONTROL. LUMP SUM AS DIRECTED BY THE ENGINEER. NEW SUPPORTS AND SIGN FACE FOR FINAL LOCATION WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

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

(46) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.

(47) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.

(48) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

(49) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 30 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(50) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

(51) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

(52) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

EROSION PREVENTION AND SEDIMENT CONTROL

NATURAL RESOURCES

(53) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EPSC MEASURES TO PROTECT NATURAL RESOURCES AND WATER QUALITY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EPSC MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG NATURAL RESOURCES IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS, WETLANDS OR OTHER NATURAL FEATURES IN ACCORDANCE WITH TDOT STANDARDS. EPSC MEASURES SHALL BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(54) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.

(55) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.

(56) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, SHALL BE ONLY AS DEPICTED ON THE CONSTRUCTION PLANS AND/OR AS SO SPECIFIED IN THE WATER QUALITY PERMITS, IF APPLICABLE. ANY DISCREPANCIES BETWEEN PLANS AND PERMITS SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT RESPONSIBLE PARTY AS SOON AS POSSIBLE. ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN AFTER RECEIVING THE APPROVAL OF THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION.

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

(58) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, WHICH CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER MATERIALS USED FOR ALL TEMPORARY FILLS SHALL BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO PREEXISTING ELEVATIONS. ALL TEMPORARY CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. EC-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (E.G. BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK OR THE APPROPRIATE USE OF BARGES AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

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

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

(61) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS BEFORE ALL CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

SPECIES

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

INSPECTION, MAINTENANCE & REPAIR

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

PERMITS, PLANS & RECORDS

(64) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO ARCHAEOLOGY, ECOLOGY, HISTORICAL, HAZARDOUS MATERIALS, AIR AND NOISE, TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM FEDERAL, STATE AND/OR LOCAL AGENCIES REGARDING ANY MATERIAL AND STAGING AREAS AND THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS TO BE USED. ANY SUCH PERMITS SHALL BE SUPPLIED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO THE USE OF THE PERMITTED AREA(S).

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

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

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

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

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UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

6/9/2017
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	STP-35(64)	2L2

S.R. 35 JEFFERSON COUNTY

45007-3222-14 (CONST.)

GENERAL NOTES CON'T

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

(69) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER AND CONSTRUCTION WASTES FROM ENTERINGWATERS OF THE STATE/U.S. THESE MATERIALS SHALL BE REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFFSITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EPSC SHALL BE REMOVED FROM THE SITE.

(70) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION. APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED.

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

(72) WHEEL WASH WATER SHALL BE COLLECTED AND ALLOWED TO SETTLE OUT SUSPENDED SOLIDS PRIOR TO DISCHARGE. WHEEL WASH WATER SHALL NOT BE DISCHARGED DIRECTLY INTO ANY STORMWATER SYSTEM ORSTORMWATER TREATMENT SYSTEM.

(73) IF PORTABLE SANITARY FACILITIES ARE PROVIDED ON CONSTRUCTION SITES, SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNTS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY REGULATIONS THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF SANITARY WASTE.

(74) ONLY CONSTRUCTION PRODUCTS NEEDED SHALL BE STORED ONSITE BY THE CONTRACTOR. THE CONTRACTOR SHALL STORE ALL MATERIALS UNDER COVER AND IN APPROPRIATE CONTAINERS. PRODUCTS MUST BE STORED IN ORIGINAL CONTAINERS AND LABELED. MATERIAL MIXING SHALL BE CONDUCTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE CONTRACTOR'S RESPONSIBLE PARTY SHALL INSPECT MATERIALS STORAGE AREAS REGULARLY TO ENSURE PROPER USE AND DISPOSAL.

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

(76) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FORUSE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURERS INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

(77) ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN A MANNER WHICH IS COMPLIANT WITH LOCAL OR STATE REGULATIONS. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES, AND THE INDIVIDUAL DESIGNATED AS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED. THE CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO DISPOSE OF HAZARDOUS MATERIAL.

(78) OPEN BURNING IS PROHIBITED UNLESS IT IS SPECIFICALLY ALLOWED BY LAW. IF ALLOWED, NATURAL VEGETATION, TREES, AND UNTREATED LUMBER SHALL BE THE ONLY MATERIALS THAT CAN BE OPEN BURNED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE STATE AND LOCAL PERMITS PRIOR TO ANY BURNING.

(79) DISPOSAL OF ONSITE VEGETATION AND TREES BY CHIPPING THEM INTO MULCH IS PREFERABLE TO OPEN BURNING. THIS MULCH MAY BE USED AS ANONSITE SOIL STABILIZATION MEASURE WHERE APPROPRIATE.

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

SUPPORT ACTIVITIES

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

SPECIAL NOTES

GRADING

(1) THE GRADING TABULATIONS AND RESULTING EARTHWORK ASSOCIATED BID QUANTITIES WERE PREPARED UTILIZING AVAILABLE GEOTECHNICAL INFORMATION AND/OR REPORTS PREPARED FOR THIS PROJECT. THIS INFORMATION IS PROVIDED FOR GENERAL INFORMATION AND ESTIMATION GUIDANCE ONLY.

(2) BORING DEPICTIONS SHOWN ON THE FOUNDATION DATA SHEETS, SOILS SHEETS, PLANS, AND CROSS-SECTIONS INDICATE SOIL AND ROCK CONDITIONS AT THE SPECIFIC BORING LOCATIONS. ANY SOIL PROFILE AND/OR ROCK LINE IS INTERPRETIVE BASED ON THE JUDGMENT OF THE GEOTECHNICAL ENGINEER/GEOLOGIST. THE TRANSITION BETWEEN BORINGS AND LAYERS MAY VARY SIGNIFICANTLY DEPENDING ON THE GEOLOGIC FORMATIONS ENCOUNTERED.

(3) TO ASSIST IN BID PREPARATION FOR EARTHWORK AND FOUNDATION CONSTRUCTION, DETAIL ROCK AND SOIL DESCRIPTION AND ON SOME PROJECTS, ROCK CORE SAMPLES ARE AVAILABLE FOR INSPECTION AT THE MATERIALS AND TESTS HEADQUARTERS AT 6601 CENTENNIAL BOULEVARD, NASHVILLE, TN OR AT THE TDOT REGION 1 BUILDING IN KNOXVILLE, TN.

(4) THE CONTRACTOR SHALL UTILIZE ALL INFORMATION PROVIDED IN THE PLANS, CROSS-SECTIONS AND CONTRACT DOCUMENTS INCLUDING ANY SPECIAL PROVISIONS AS WELL AS UTILIZING HIS PAST EXPERIENCE WITH PROJECTS OF SIMILAR NATURE, SCOPE AND LOCATION IN PREPARATION OF HIS BID FOR EARTHWORK ITEMS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND PROVIDE EQUIPMENT AND MEANS NECESSARY TO CONDUCT THE EXCAVATION ACTIVITIES IN ACCORDANCE WITH PLANS AND SPECIFICATIONS.

(5) EARTHWORK IS PAID FOR UNDER ITEM 203-01, ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED). NO ADDITIONAL PAYMENT WILL BE MADE FOR EARTHWORK QUANTITIES BASED SOLELY ON A CLAIM THAT THE QUANTITIES SHOWN IN THE GRADING TABULATION OR ELSEWHERE IN THE PLANS ARE INACCURATE WITH RESPECT TO THE TYPE OF MATERIALS ENCOUNTERED DURING CONSTRUCTION EXCEPT AS PROVIDED FOR BY SECTION 104.02 IN THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR AS AMENDED IN SUPPLEMENTAL SPECIFICATIONS.

(6) PERFORM A WATER WELL SURVEY PRIOR TO CONSTRUCTION, NOTING FOR EACH WELL THE LOCATION, TYPE AND DEPTH OF WELL CONSTRUCTION, AND DEPTH TO WATER.

DEGRADABLE ROCK

(1) MATERIAL EXCAVATED FROM THE SEVIER SHALE FORMATION SHALL BE TREATED AS DEGRADABLE ROCK. DEGRADABLE ROCK SHALL BE PLACED IN EMBANKMENTS IN ACCORDANCE WITH PARAGRAPH C OF SECTION 205.04 OF THE TDOT STANDARD SPECIFICATIONS AS FOLLOWS:

A. COMPACT DEGRADABLE ROCK FOR USE IN EMBANKMENT WITH AN APPROVED TAMPING-FOOT ROLLER IN CONJUNCTION WITH A STATIC TAMPING-FOOT ROLLER. THE MINIMUM WEIGHT FOR THE STATIC TAMPING-FOOT ROLLER SHALL BE 60,000 POUNDS. THE MINIMUM COMPACTION EFFORT, AS RATED BY THE MANUFACTURER, FOR THE VIBRATORY TAMPING-FOOT ROLLER SHALL BE 55,000 POUNDS. SUBMIT ROLLER SPECIFICATIONS TO THE ENGINEER FOR APPROVAL BEFORE USE.

B. PLACE DEGRADABLE ROCK IN 10-INCH MAXIMUM LOOSE LIFTS, AND PROVIDE A MINIMUM OF THREE PASSES WITH THE STATIC ROLLER AND TWO PASSES WITH THE VIBRATORY ROLLER. THE ENGINEER MAY DIRECT ADDITIONAL PASSES WITH EITHER OR BOTH ROLLERS UNTIL SATISFACTORY BREAKDOWN AND COMPACTION IS ACCOMPLISHED. DO NOT PLACE DEGRADABLE ROCK IN THE TOP 5 FEET OF AN EMBANKMENT UNLESS APPROVED BY THE ENGINEER.

C. IF EMBANKMENT COMPOSED OF DEGRADABLE ROCK DOES NOT CONTAIN SUFFICIENT MOISTURE TO COMPACT PROPERLY, THE ENGINEER WILL REQUIRE THE CONTRACTOR TO APPLY WATER IN SUFFICIENT QUANTITIES TO ACHIEVE APPROXIMATE OPTIMUM MOISTURE FOR THE PARTICULAR MATERIAL INVOLVED. UNIFORMLY MIX THE ADDED WATER WITH THE MATERIAL FOR THE ENTIRE DEPTH OF THE LIFT BY BLADING, DISCING, OR OTHER APPROVED METHODS.

EROSION PREVENTION AND SEDIMENT CONTROL

ENVIRONMENTAL

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

ECOLOGY

(2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.

(3) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.

(4) ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

SCOPE OF WORK

(1) THIS PROJECT INCLUDES THE GRADING, DRAINAGE, BASE AND PAVEMENT FOR S.R. 35 TO LINES AND GRADES AS INDICATED BY THE T.D.C.T. SUPERVISOR.

(2) CONSTRUCTION OF DITCHES, INSTALLATION OF GUARDRAIL, APPLICATION OF EROSION PREVENTION AND SEDMENT CONTROL DEVISES AND TRAFFIC CONTROL DEVISES, PAVEMENT MARKINGS, SEEDING, AND SIGNS AS DIRECTED BY THE T.D.O.T. SUPERVISOR.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, SPECIAL NOTES, AND SCOPE OF WORK

6/9/2017
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R.O.W. ACQUISITION TABLE

TRACT NO.	PROPERTY OWNERS	COUNTY RECORDS: TAX MAP NO.	PARCEL NO.	DEED DOCUMENT REFERENCE: BK.	PAGE	TOTAL AREA ACRES: LEFT	RIGHT	TOTAL	AREA TO BE ACQUIRED ACRES: LEFT	RIGHT	TOTAL	AREA REMAINING ACRES: LEFT	RIGHT	EASEMENT (SQUARE FEET): PERM. DRAINAGE	SLOPE	CONST.
57	GORDON SMELCER	96	34	IB 523	98	0.942		0.942				0.942				
58	RAY SMELCER	96	54	168	59	36.000		36.000	0.260		0.260	35.740				
59	SARAH HOURIHAN-TAYLOR	97	13.01	374	311		5.800	5.800		0.251	0.251		5.549			
60	J. R. & B. FAYE FISH	97	8.04	370	311	0.135		0.135	0.124		0.124	440 S.F.				
61	ROBERT & MARGARET LEE	97	4	584	619	174.780		174.780	3712 S.F.		3712 S.F.	174.695				
~~62~~	~~JACK WADE GREEN~~	97	8.02	406	33	2.300		2.300				2.300				
63	CAS LEWIS	97	13	117	202		5.800	5.800		386 S.F.	386 S.F.		5.791			
64	BUSH BROTHERS & COMPANY	97	60	366	408	939 S.F.	9.747	9.769	939 S.F.	0.373	0.395		9.374			
64A	BUSH BROTHERS & COMPANY	97	60	366	408		25.899	25.899		0.192	0.192		25.707			
64B	BUSH BROTHERS & COMPANY	97	60	366	408	44.556	78.076	122.632	21.045	8.142	29.187	23.511	69.934			
64C	BUSH BROTHERS & COMPANY	97	60	366	408	73.197	46.739	119.936	20.434	15.052	35.486	52.763	31.687			
64D	BUSH BROTHERS & COMPANY	97	60	366	408	32 S.F.	128.369	128.369	32 S.F.	0.596	0.597		127.773			
~~64E~~	~~BUSH BROTHERS & COMPANY~~	97	60	366	408		147.395	147.395					147.395			
65	JANICE BANKS & RONNIE BANKS	97	8.01	128	141	0.746		0.746	0.256		0.256	0.490				
65A	BOBBY BANKS	97	8	111	604	1.220		1.220	1413 S.F.		1413 S.F.	1.188				
66	BLAINE THORNTON	97	9	108	528	7.193	3.307	10.500	1.536	1.910	3.446	5.657	1.397			
67	BUSH BROTHERS & COMPANY	97	12	104	343		1.500	1.500		993 S.F.	993 S.F.		1.477			
68	BUSH BROTHERS & COMPANY	97	10	410	470	8.679	2.544	11.223	1.124	0.867	1.991	7.555	1.677			
~~68A~~	~~BUSH BROTHERS & COMPANY~~	97	10	410	470		0.277	0.277					0.277			
69	THOMAS L. & DORIS M. CAVIN & JAMES A. ABBOTT	97	67	87	660	30.520		30.520	1.007		1.007	29.513				
70	DAVID L. GRIFFIN	97	69.01	200	407		0.501	0.501		0.362	0.362		0.139			
71	BETTY BROOKS FRENCH	97	70	394	114	1.297	1.870	3.167	1.103	1.115	2.218	0.194	0.755			
72	HESTER BROOKS HOLT	97	71	309	168	0.318	0.483	0.801	0.318	0.483	0.801					
73	EVELYN BROOKS & HOLLAND D. REESE	97	72	340	353	0.796	2064 S.F.	0.843	0.569	2064 S.F.	0.617	0.226				
74	ALLEN HILL	97	95	97	496	2.164		2.164	0.173		0.173	1.991				
																0.248 AC (11)
74A	ALLEN HILL	97	95	97	496	6.621	23.515	30.136	5.840	6.841	12.681	0.781	16.674			
75	MARSHALL HILL & GEORGE B. HILL	97	78	97	499	23.092		23.092 (12)	2.321		2.321	20.771				
75A	CHRISTINA & RAYMOND RICK	97	78.01	599	298	0.930		0.930	0.209		0.209	0.721				
76	MARSHALL S. & DELLA W. HILL	97	79	135	400	0.542		0.542	0.348		0.348	0.194				
77	ALETHA GAIL CODY	97	94.02	866	207	0.385	8.585	8.970 (12)	0.385	2.819	3.204		5.766			
77A	DARLENE WILSON	97	94.01	866	201	0.119	8.671	8.790	0.119	1.414	1.533		7.257			
78	MARSHA HILL & LARRY A. HAYES, JR.	97	80	382	636	0.482		0.482	0.375		0.375	0.107				
~~79~~	~~JOHNNY H. & JIMMY E. HANCE W/IRA HILL~~	97	90	356	33	2.803	2.844	5.647				2.803	2.844	10		
	~~HANCE LIFE ESTATE~~															
~~79A~~	~~JOHNNY H. & JIMMY E. HANCE W/IRA HILL~~	97	90	356	33		22.353	22.353					22.353			
	~~HANCE LIFE ESTATE~~															
80	PETER & DORINDA SEVARINO	31	3	1523	259		4.500	4.500		0.387	0.387		4.113			
81	JAMES P. & NAOMI RUSSELL	96	22.01	183	493	0.238	1297 S.F.	0.268	0.238	1297 S.F.	0.268					
8003 (14)	AMOS & MARY LETHCO	30	47	180	142		0.406	0.406		0.406	0.406					
8003A (14)	AMOS & MARY LETHCO	30	47	180	142	0.171		0.171	0.171		0.171					
8032 (14)	BERTIE WELLS	101	13	257	269	0.810		0.810	0.810		0.810					
8034 (14)	LESLIE KENT ROSENBERGER & JANET LEE ROESENBERGER	101	12	378	24	0.363	0.226	0.589	0.363	0.226	0.589					
8038 (14)	JEANNE THORTON	96	23	IB 523	360		1.250	1.250		1.250	1.250					
8060 (14)	J. R. & B. FAYE FISH	97	8.04	370	311	440 S.F.		440 S.F.	440 S.F.		440 S.F.					
8070 (14)	DAVID L. GRIFFIN	97	69.01	200	407		0.139	0.139		0.139	0.139					
8071 (14)	BETTY BROOKS FRENCH	97	70	394	114	0.194	0.755	0.949	0.194	0.755	0.949					
8073 (14)	EVELYN BROOKS & HOLLAND D. REESE	97	72	340	353	0.226		0.226	0.226		0.226					

(11) FOR CONSTRUCTION OF DRAINAGE STRUCTURE

(12) THE TOTAL AREA IS LESS THE R.O.W. TO BE TAKEN IN PROJ. NO. STP-35(23).

(14) UNECONOMIC REMAINDER.

DISTURBED AREA	
IN BETWEEN SLOPE LINES	102.79 (AC)
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	9.16 (AC)
TOTAL DISTURBED AREA	111.95 (AC)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	3F
CONST.	2017	STP-35(64)	3G

S.R. 35 SEVIER/JEFFERSON COUNTIES

78005-2239-14/45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 02/12/07: CHANGED OWNER NAME TRACT NOS. 65, 69 & 80. ADDED TRACT NO. 75A. CHANGED BOOK & PAGE TRACT NO. 80. MODIFIED TOTAL AREA TRACT NOS. 75. & 81. MODIFIED AREA TO BE ACQUIRED TRACT NOS. 64B, 64C, 66, 68, 74A, 75, 76 & 81. MODIFIED AREA REMAINING TRACT NOS. 64B, 64C, 66, 68, 74A, 75A, 77 & 81. ADDED CONST. ESMT. TRACT NO. 75. ADDED FOOTNOTES 11 & 12.

REV. 06/22/07: ADDED UNECONOMIC REMAINDERS. TRACT NOS. 8060, 8070, 8071 & 8073.

REV. 09/18/12: ADDED UNECONOMIC REMAINDERS. TRACT NOS. 8003, 8003A, 8032, 8034 & 8038. REVISED PROPERTY OWNER TRACT NO. 77. ADDED TRACT NO. 77A. REVISED TOTAL AREAS LT, RT & TOTAL, AREAS TO BE ACQUIRED LT, RT & TOTAL AND AREA REMAINING RT, TRACT NO. 77.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

RIGHT-OF-WAY ACQUISITION TABLE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	36
CONST.	2017	STP-35(64)	18

S.R. 35 JEFFERSON COUNTY

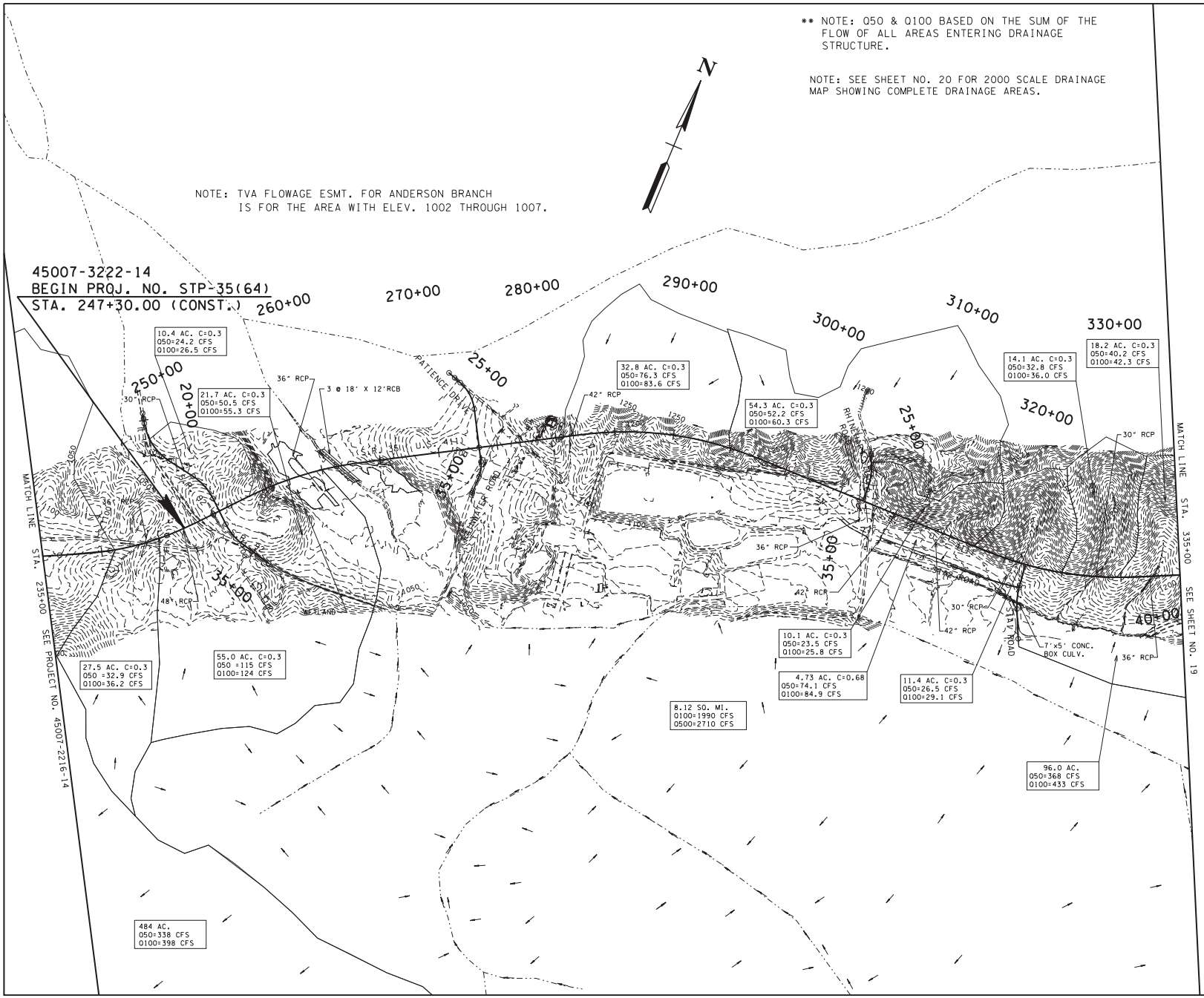
45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

** NOTE: Q50 & Q100 BASED ON THE SUM OF THE FLOW OF ALL AREAS ENTERING DRAINAGE STRUCTURE.

NOTE: SEE SHEET NO. 20 FOR 2000 SCALE DRAINAGE MAP SHOWING COMPLETE DRAINAGE AREAS.

NOTE: TVA FLOWAGE ESMT. FOR ANDERSON BRANCH IS FOR THE AREA WITH ELEV. 1002 THROUGH 1007.

45007-3222-14
BEGIN PROJ. NO. STP-35(64)
STA. 247+30.00 (CONST.)



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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 235+00 TO STA. 335+00

SCALE: 1"=400'

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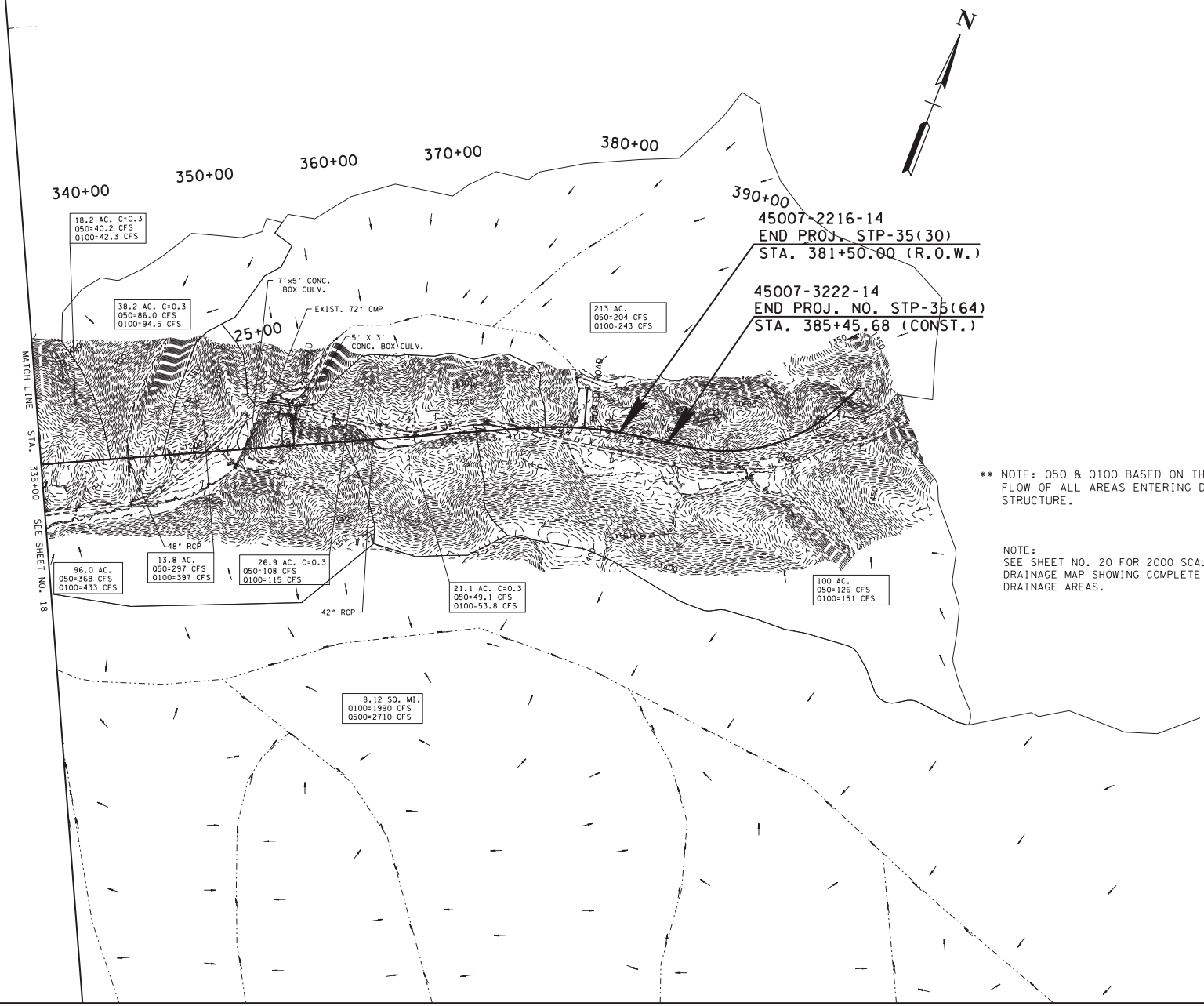
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	37
CONST.	2017	STP-35(64)	19

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)



** NOTE: Q50 & Q100 BASED ON THE SUM OF THE FLOW OF ALL AREAS ENTERING DRAINAGE STRUCTURE.

NOTE:
SEE SHEET NO. 20 FOR 2000 SCALE DRAINAGE MAP SHOWING COMPLETE DRAINAGE AREAS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA. 335+00 TO END

SCALE: 1"=400'

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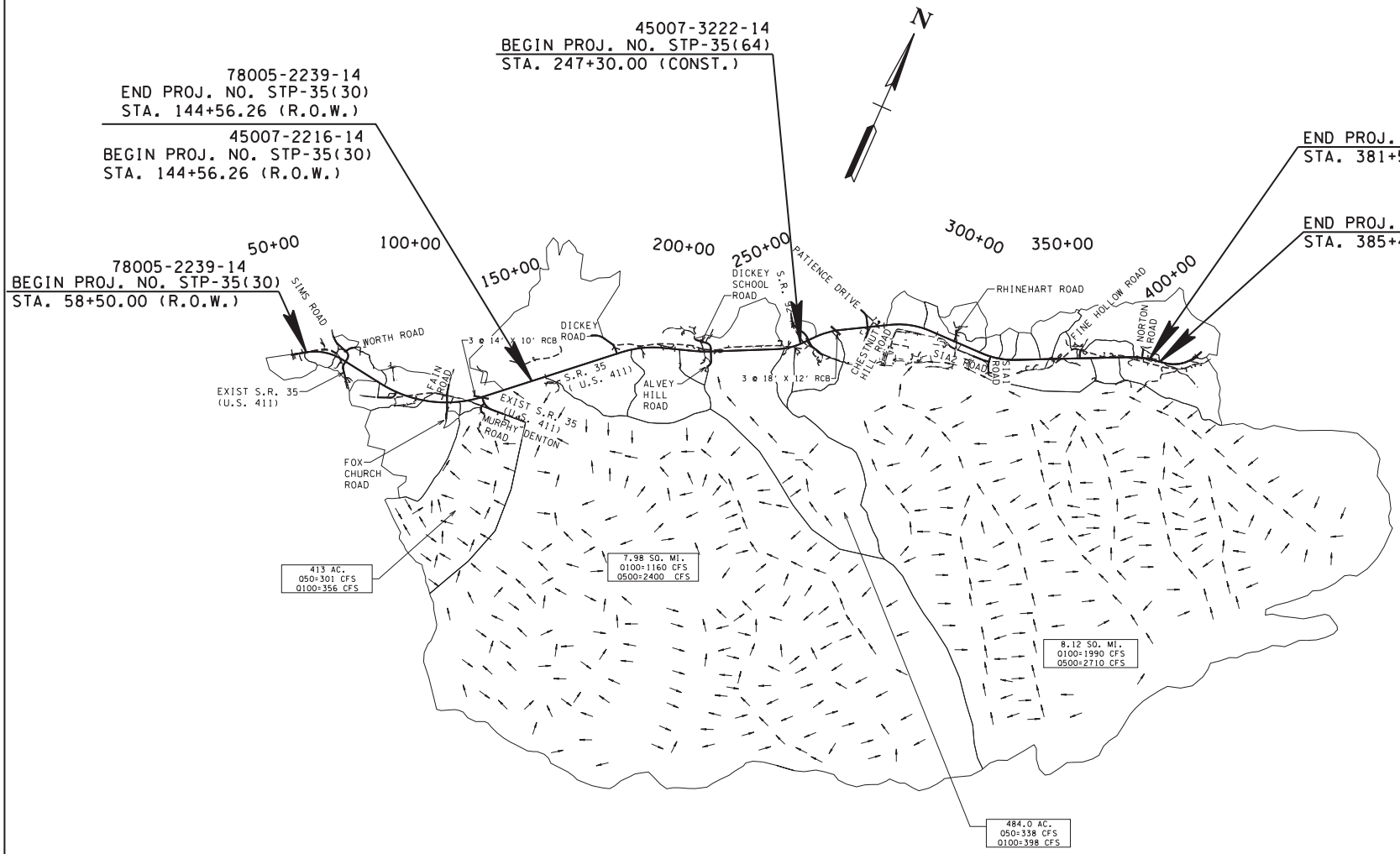
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	38
CONST.	2017	STP-35(64)	20

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)



NOTE:
SEE SHEET NOS 18 & 19 FOR 400 SCALE DRAINAGE MAPS.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

BEGIN TO END

SCALE: 1"=2000'

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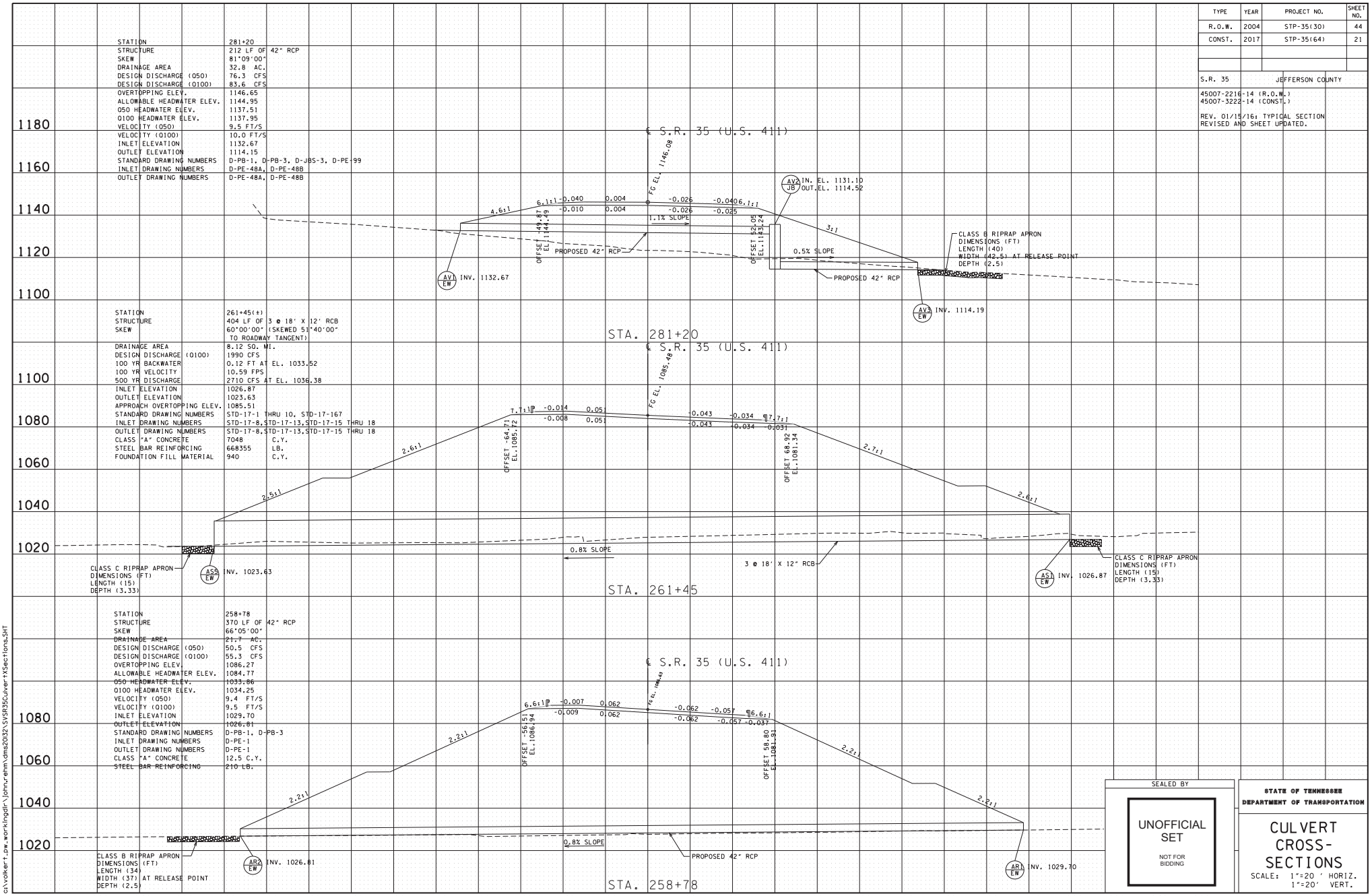
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	44
CONST.	2017	STP-35(64)	21
S.R. 35		JEFFERSON COUNTY	

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.



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DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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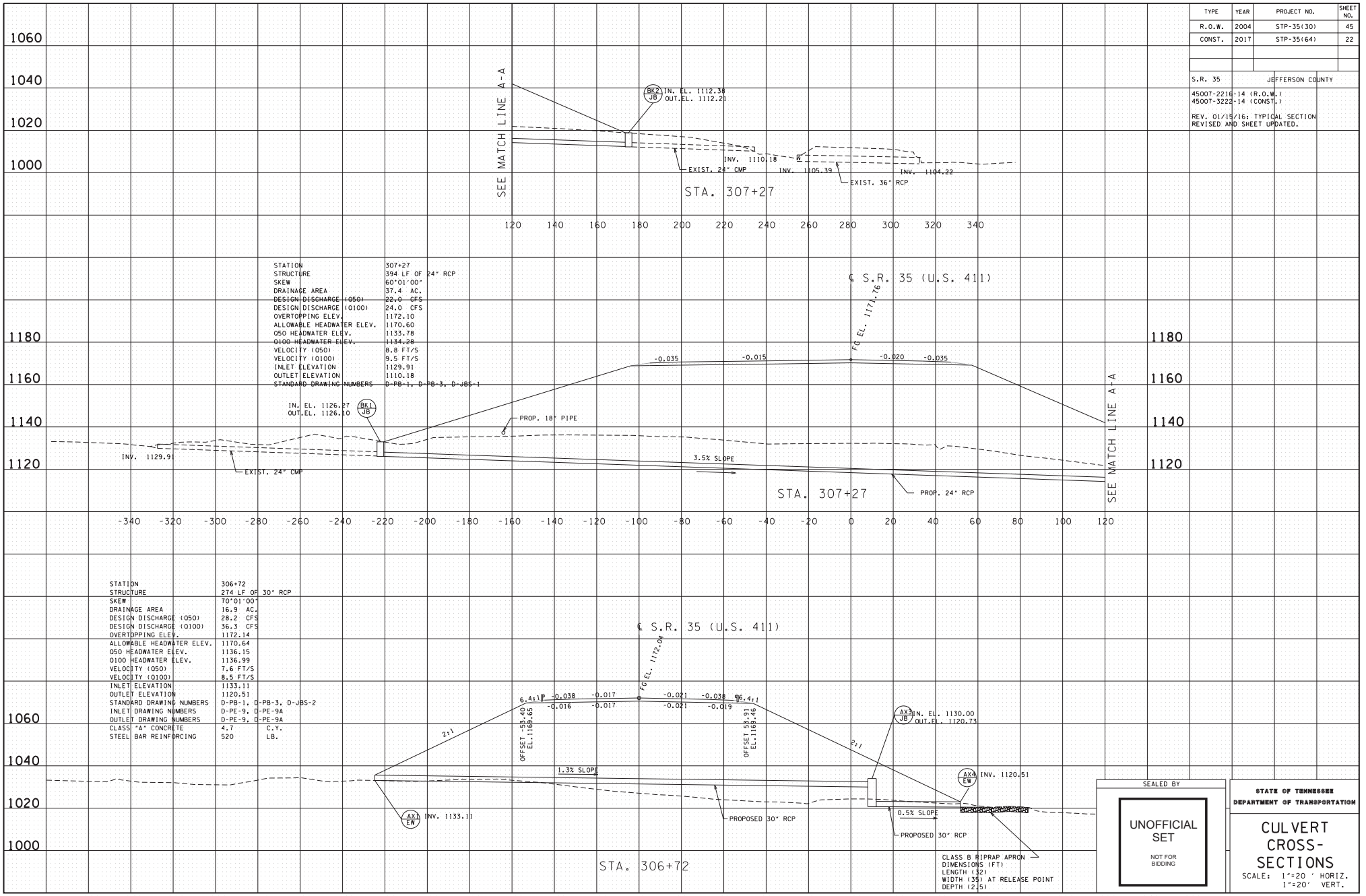
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	45
CONST.	2017	STP-35(64)	22
S.R. 35		JEFFERSON COUNTY	

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.



STATION	307+27
STRUCTURE	394 LF OF 24" RCP
SKEW	60°01'00"
DRAINAGE AREA	37.4 AC.
DESIGN DISCHARGE (Q50)	22.0 CFS
DESIGN DISCHARGE (Q100)	24.0 CFS
OVERTOPPING ELEV.	1172.10
ALLOWABLE HEADWATER ELEV.	1170.60
Q50 HEADWATER ELEV.	1133.78
Q100 HEADWATER ELEV.	1134.28
VELOCITY (Q50)	8.8 FT/S
VELOCITY (Q100)	9.5 FT/S
INLET ELEVATION	1129.91
OUTLET ELEVATION	1110.18
STANDARD DRAWING NUMBERS	D-PB-1, D-PB-3, D-JBS-1

STATION	306+72	
STRUCTURE	274 LF OF 30" RCP	
SKEW	70°01'00"	
DRAINAGE AREA	16.9 AC.	
DESIGN DISCHARGE (Q50)	28.2 CFS	
DESIGN DISCHARGE (Q100)	36.3 CFS	
OVERTOPPING ELEV.	1172.14	
ALLOWABLE HEADWATER ELEV.	1170.64	
Q50 HEADWATER ELEV.	1136.15	
Q100 HEADWATER ELEV.	1136.99	
VELOCITY (Q50)	7.6 FT/S	
VELOCITY (Q100)	8.5 FT/S	
INLET ELEVATION	1133.11	
OUTLET ELEVATION	1120.51	
STANDARD DRAWING NUMBERS	D-PB-1, D-PB-3, D-JBS-2	
INLET DRAWING NUMBERS	D-PE-9, D-PE-9A	
OUTLET DRAWING NUMBERS	D-PE-9, D-PE-9A	
CLASS "A" CONCRETE	4.7	C.Y.
STEEL BAR REINFORCING	520	LB.

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CULVERT CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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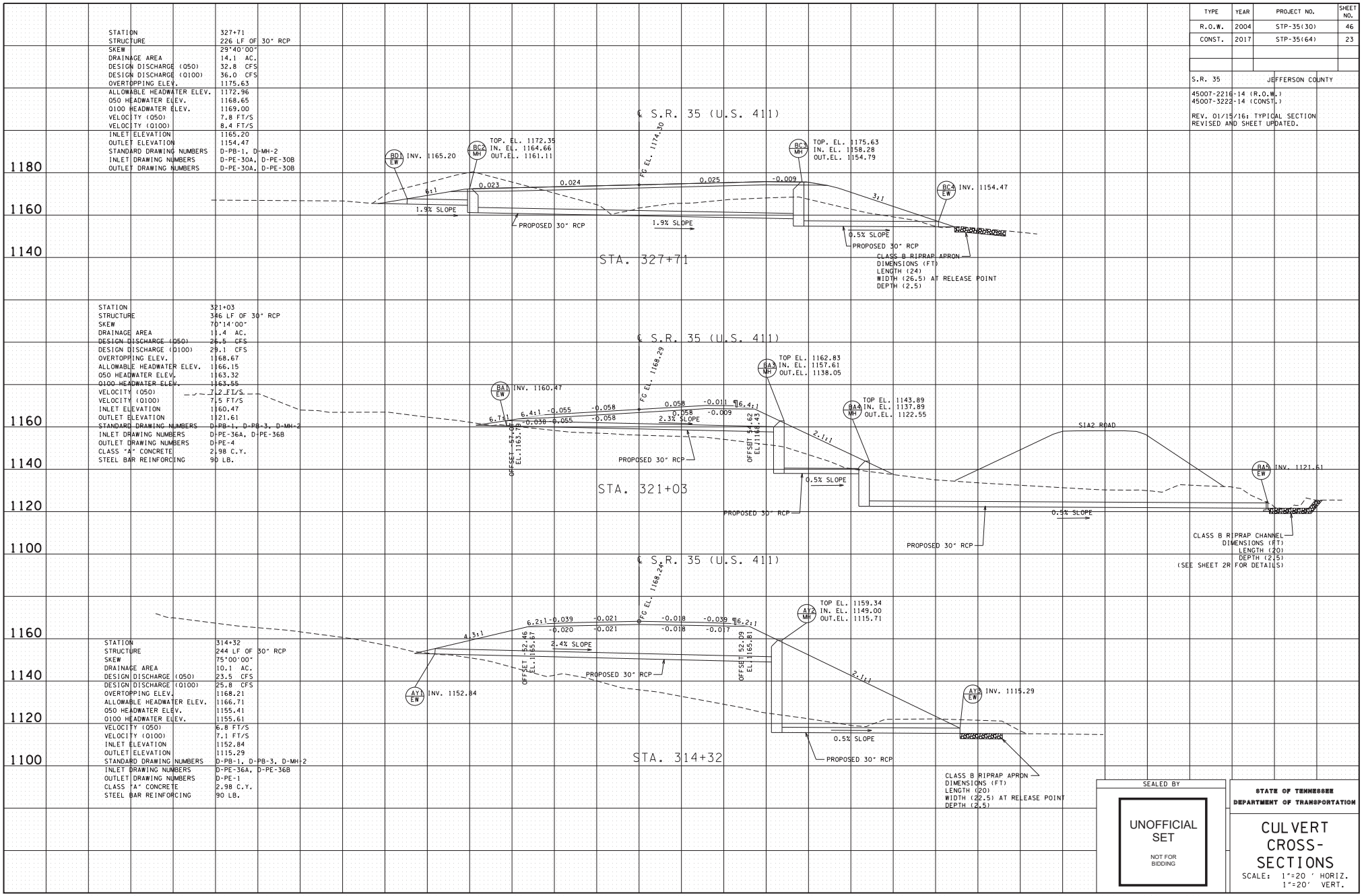
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	46
CONST.	2017	STP-35(64)	23
S.R. 35		JEFFERSON COUNTY	

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.



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DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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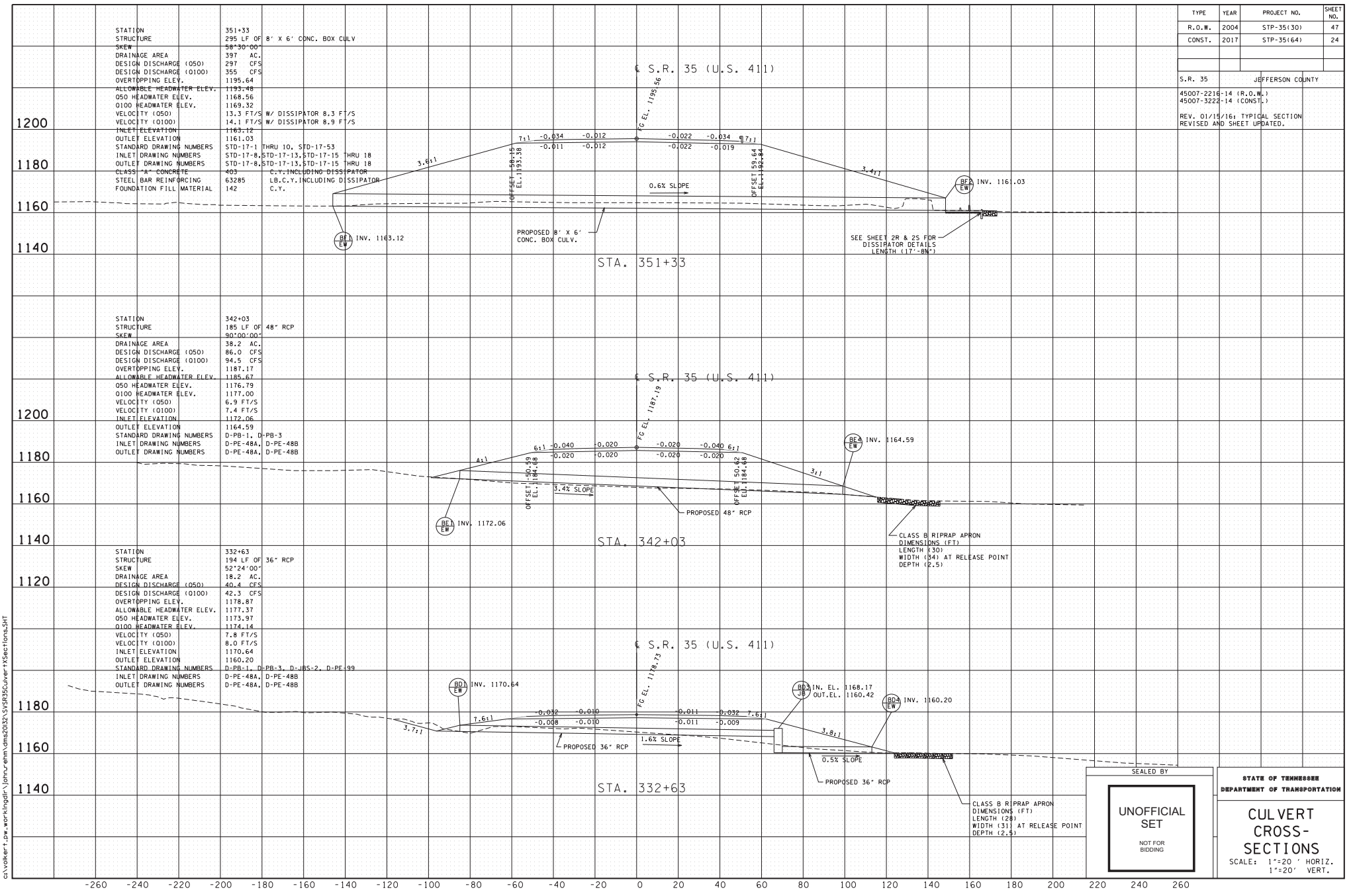
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	47
CONST.	2017	STP-35(64)	24
S.R. 35	JEFFERSON COUNTY		

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16; TYPICAL SECTION REVISED AND SHEET UPDATED.



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CULVERT CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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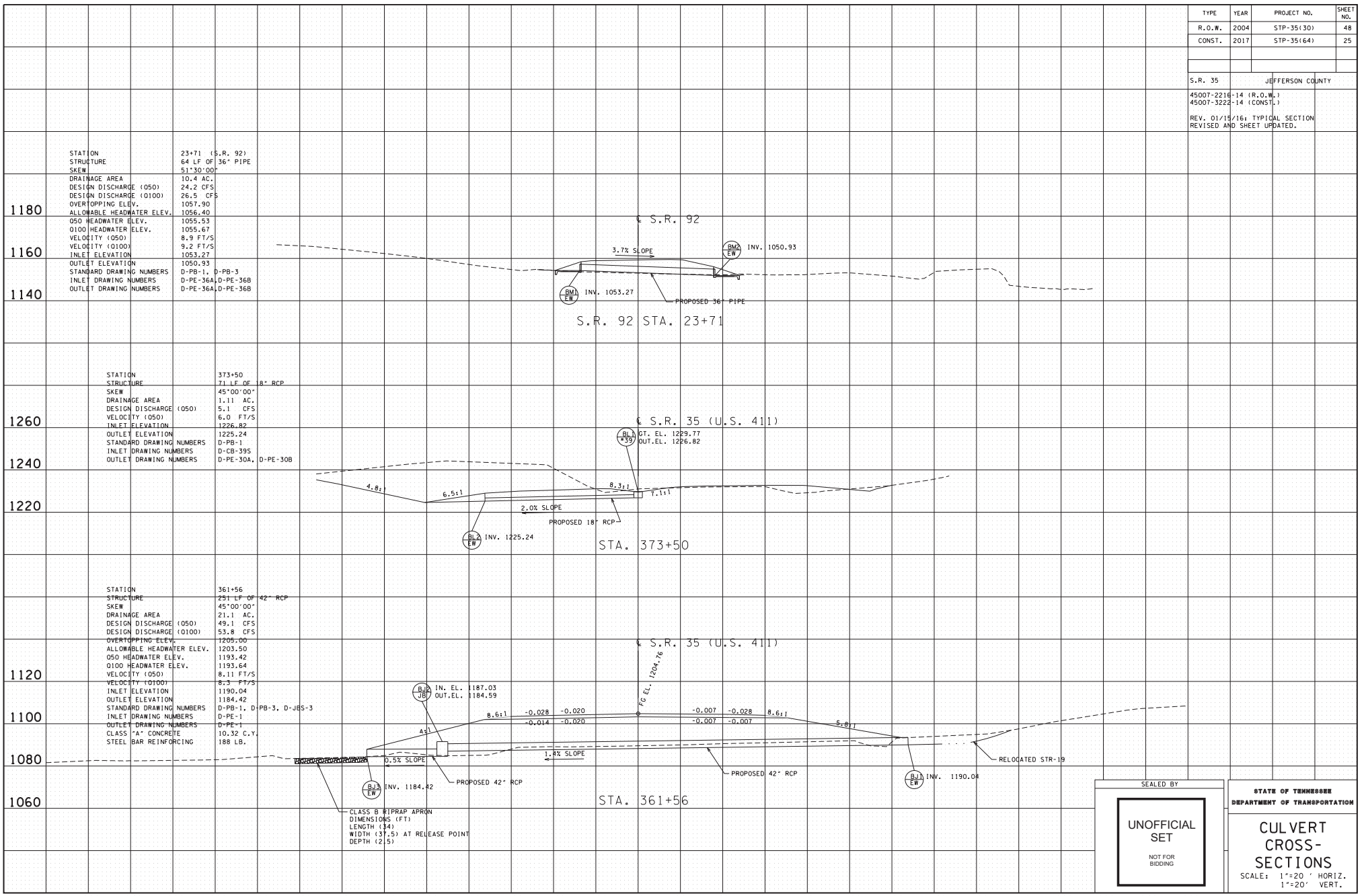
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	48
CONST.	2017	STP-35(64)	25
S.R. 35		JEFFERSON COUNTY	

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16; TYPICAL SECTION REVISED AND SHEET UPDATED.



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DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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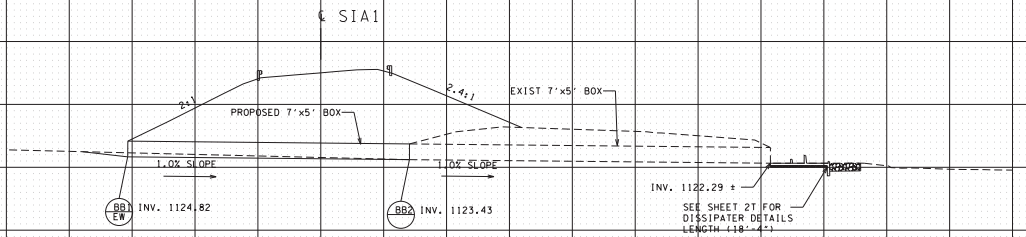
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	52
CONST.	2017	STP-35(64)	26
S.R. 35		JEFFERSON COUNTY	

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

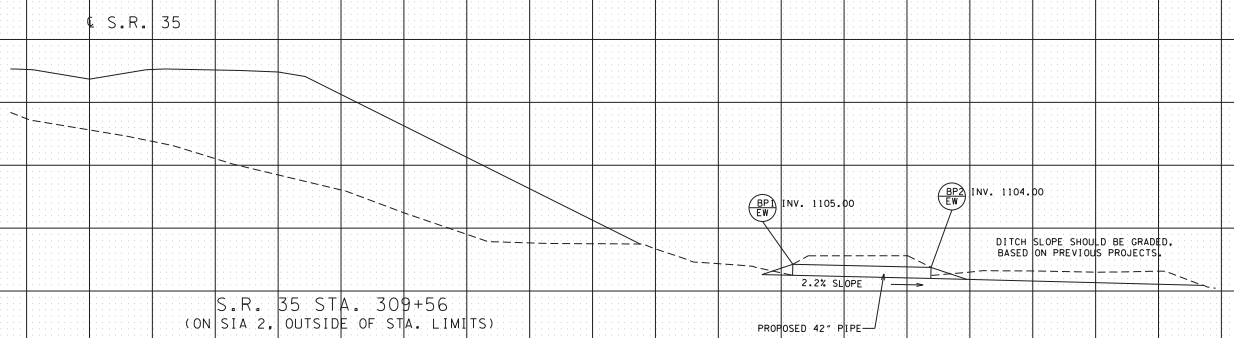
SIA1 STA. 33+33

STATION	33+33 (SIA1)
STRUCTURE	90 LF OF 7' X 5' CONC. BOX CULV.
SKEW	65°00'00"
DRAINAGE AREA	545 AC.
DESIGN DISCHARGE (Q50)	368 CFS
DESIGN DISCHARGE (Q100)	433 CFS
OVERTOPPING ELEV.	1149.17
ALLOWABLE HEADWATER ELEV.	1147.67
Q50 HEADWATER ELEV.	1131.91
Q100 HEADWATER ELEV.	1133.49
VELOCITY (Q50)	15.9 FT/S W/ DISSIPATER 8.3 FT/S
VELOCITY (Q100)	16.6 FT/S W/ DISSIPATER 8.7 FT/S
INLET ELEVATION	1124.32
OUTLET ELEVATION	1122.29
STANDARD DRAWING NUMBERS	STD-17-1 THRU 10, STD-17-26
INLET DRAWING NUMBERS	STD-17-8,STD-17-11STD-17-15 THRU 18
OUTLET DRAWING NUMBERS	
CLASS "A" CONCRETE	127.2 C.Y. INCLUDING DISSIPATOR
STEEL BAR REINFORCING	19451 LB. INCLUDING DISSIPATOR
FOUNDATION FILL MATERIAL	35 C.Y.



S.R. 35 STA. 309+56 (ON SIA 2, OUTSIDE OF STA. LIMITS)

STATION	309+56 (250'± RT.)
STRUCTURE	44 LF OF 42" PIPE
SKEW	90°00'00"
DRAINAGE AREA	26.2 AC.
DESIGN DISCHARGE (Q50)	74.1 CFS
DESIGN DISCHARGE (Q100)	84.9 CFS
OVERTOPPING ELEV.	1112.00
ALLOWABLE HEADWATER ELEV.	1110.50
Q50 HEADWATER ELEV.	1109.71
Q100 HEADWATER ELEV.	1110.42
VELOCITY (Q50)	7.7 FT/S
VELOCITY (Q100)	8.8 FT/S
INLET ELEVATION	1105.00
OUTLET ELEVATION	1104.00
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-PE-42A,D-PE-42B
OUTLET DRAWING NUMBERS	D-PE-42A,D-PE-42B



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CULVERT CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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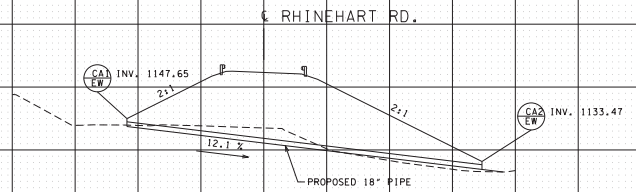
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	53
CONST.	2017	STP-35(64)	27
S.R. 35		JEFFERSON COUNTY	

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

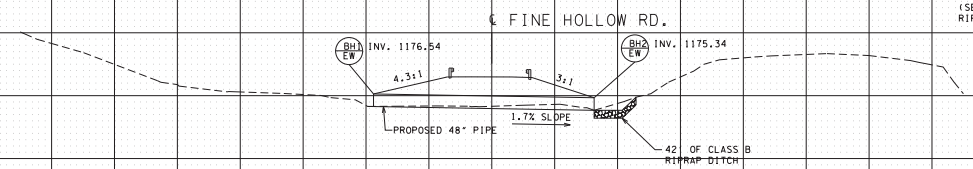
REV. 01/15/16; TYPICAL SECTION REVISED AND SHEET UPDATED.

STATION	28+50 (RHINEHART RD.)
STRUCTURE	116 LF OF 18" PIPE
SKEW	90°00'00"
DRAINAGE AREA	1.5 AC.
DESIGN DISCHARGE (Q50)	2.7 CFS
DESIGN DISCHARGE (Q100)	2.9 CFS
OVERTOPPING ELEV.	1155.17
ALLOWABLE HEADWATER ELEV.	1153.67
Q50 HEADWATER ELEV.	1148.54
Q100 HEADWATER ELEV.	1148.58
VELOCITY (Q50)	1.5 FT/S
VELOCITY (Q100)	1.6 FT/S
INLET ELEVATION	1147.65
OUTLET ELEVATION	1133.47
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-PE-4
OUTLET DRAWING NUMBERS	D-PE-4
CLASS "A" CONCRETE	2.32 C.Y.
STEEL BAR REINFORCING	80 LB.



RHINEHART RD. STA. 28+50

STATION	27+70 (FINE HOLLOW RD.)
STRUCTURE	70 LF OF 48" PIPE
SKEW	65°00'00"
DRAINAGE AREA	47.9 AC.
DESIGN DISCHARGE (Q50)	108 CFS
DESIGN DISCHARGE (Q100)	115 CFS
OVERTOPPING ELEV.	1185.76
ALLOWABLE HEADWATER ELEV.	1183.26
Q50 HEADWATER ELEV.	1182.15
Q100 HEADWATER ELEV.	1182.53
VELOCITY (Q50)	10.5 FT/S
VELOCITY (Q100)	11.0FT/S
INLET ELEVATION	1176.54
OUTLET ELEVATION	1175.34
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-PE-1
OUTLET DRAWING NUMBERS	D-PE-1
CLASS "A" CONCRETE	13.20 C.Y.
STEEL BAR REINFORCING	200 LB.



FINE HOLLOW RD. STA. 27+70

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CULVERT CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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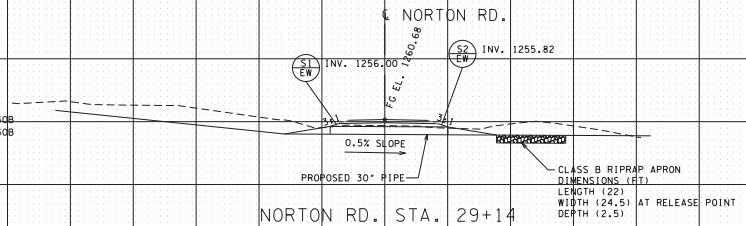
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	54
CONST.	2017	STP-35(64)	28
S.R. 35	JEFFERSON COUNTY		

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

STATION	29+14 (NORTON RD.)
STRUCTURE	38 LF OF 30" PIPE
SKEW	90°00'00"
DRAINAGE AREA	6.7 AC.
DESIGN DISCHARGE (Q50)	26.7 CFS
DESIGN DISCHARGE (Q100)	30.0 CFS
OVERTOPPING ELEV.	1260.68
ALLOWABLE HEADWATER ELEV.	1259.38
Q50 HEADWATER ELEV.	1258.93
Q100 HEADWATER ELEV.	1259.18
VELOCITY (Q50)	7.2 FT/S
VELOCITY (Q100)	7.6 FT/S
INLET ELEVATION	1256.00
OUTLET ELEVATION	1255.82
STANDARD DRAWING NUMBERS	D-PB-1
INLET DRAWING NUMBERS	D-PE-30A,D-PE-30B
OUTLET DRAWING NUMBERS	D-PE-30A,D-PE-30B



NORTON RD. STA. 29+14

1280
1260
1240

-260 -240 -220 -200 -180 -160 -140 -120 -100 -80 -60 -40 -20 0 20 40 60 80 100 120 140 160 180 200 220 240 260

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CULVERT CROSS-SECTIONS

SCALE: 1"=20' HORIZ.
1"=20' VERT.

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EPSC NOTES

STREAMS, WETLANDS & BUFFER ZONES

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., PIER FOOTING, RIP-RAP PLACEMENT, 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 SECTON 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.

POLYACRYLAMIDE

(1) ENSURE POLYACRYLAMIDE (PAM) EMULSIONS AND POWDERS ARE OF THE ANIONIC TYPE AND MEET THE FOLLOWING REQUIREMENTS:

- A. MEETS THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR GREATER THAN 0.005% ACRYLAMIDE MONOMER
- B. HAS A DENSITY OF 10% TO 15% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLE.
- C. MIXTURE IS NON-COMBUSTIBLE.
- D. CONTAINS ONLY MANUFACTURER'S RECOMMENDED ADDITIVES.

(2) PAM SHALL BE MIXED AND APPLIED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET REQUIREMENTS AND THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USES CONFORMING TO ALL FEDERAL, STATE, AND LOCAL LAWS, RULES, AND REGULATIONS.

(3) ALL VENDORS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT WHICH VERIFIES 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. CATIONIC FORMS OF PAM ARE NOT ALLOWED UNDER THIS SECTION DUE TO HIGH LEVELS OF TOXICITY TO AQUATIC ORGANISMS. PAM EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS DUE TO SURFACTANT TOXICITY. THE CONTRACTOR MUST SEEK THE APPROVAL OF THE EPSC DESIGN ENGINEER AND TDOT IF CHITOSAN S PROPOSED FOR USE ON THIS PROJECT.

(4) ALL VENDORS AND SUPPLIERS OF PAM, PAM MIX, OR PAM BLENDS SHALL SUPPLY WRITTEN "SITE SPECIFIC" TESTING RESULTS DEMONSTRATING A PERFORMANCE OF 95% OR GREATER REDUCTION OF NTU OR TSS FROM STORMWATER DISCHARGES.

(5) EMULSION BATCHES SHALL BE MIXED FOLLOWING RECOMMENDATIONS OF THE TESTING LABORATORY THAT DETERMINES THE PROPER PRODUCT AND RATE TO MEET SITE REQUIREMENTS. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. EMULSIONS SHALL NEVER BE APPLIED DIRECTLY TO STORMWATER RUNOFF OR RIPARIAN WATERS.

(6) PAM POWDER MAY BE APPLIED BY A HAND OR MECHANICAL SPREADER MIXING PAM POWDER WITH DRY SILICA SAND WILL AID IN SPREADING.

(7) PREMIXING OF PAM POWDER INTO FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS IS ALLOWED WHEN SPECIFIED IN THE DESIGN PLAN. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

(8) PAM LOGS OR BLOCKS SHALL BE APPLIED FOLLOWING SITE TESTING RESULTS TO ENSURE PROPER PLACEMENT AND PERFORMANCE AND SHALL MEET OR EXCEED STATE AND FEDERAL WATER QUALITY REQUIREMENTS.

ENVIRONMENTAL

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	55
CONST.	2017	STP-35(64)	29

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) NOTES

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ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTON	UNIT	QUANTITY
209-02.03	8" TEMPORARY SLOPE DRAIN	L.F.	1629
209-02.05	12' TEMPORARY SLOPE DRAIN	L.F.	90
209-02.06	15' TEMPORARY SLOPE DRAIN	L.F.	501
209-02.07	18' TEMPORARY SLOPE DRAIN	L.F.	800
209-03.21	FILTER SOCK (12 INCH)	L.F.	46248
209-03.22	FILTER SOCK (18 INCH)	L.F.	17726
209-03.23	FILTER SOCK (24 INCH)	L.F.	15066
209-05	SEDIMENT REMOVAL	C.Y.	3808
209-06.02	12' DIA COIR LOG (DESCRIPTION)	L.F.	586
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	107698
209-08.07	ROCK CHECK DAM PER	EACH	137
209-08.08	ENHANCED ROCK CHECK DAM	EACH	75
209-08.09	FILTER SOCK CHECK DAM	EACH	55
209-09.01	SANDBAGS	BAG	9000
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	9
209-09.21	POLYACRYLAMIDE GEL LOGS	EACH	160
209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	1788
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	2106
209-40.34	CATCH BASIN PROTECTION (TYPE E)	EACH	1
209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	5208
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	171
707-08.11	HIGH-VISIBILITY CONSTRUCTIONFENCE	L.F.	12309
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	400
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	16457
740-10.03	GEOTEXTILE (TYPE III)(EROSIONCONTROL)	S.Y.	21278
740-11.03	TEMPORARY SEDIMENT TUBE 18IN (DESCRIPTION)	L.F.	137690
801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	5532
801-01.36	SPECIAL WETLAND SEED MIXTURE	UNIT	79
801-02	SEEDING (WITHOUT MULCH)	UNIT	2123
801-01.10	SEEDING (WITH BONDED FIBER MATRIX)	UNIT	1306
801-02.15	FERTILIZER	TON	128
801-03	WATER (SEEDING & SODDING)	M.G.	1120
805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	75071
805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	229674
805-12.03	EROSION CONTROL BLANKET (TYPE III)	S.Y.	507

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
TTTTTTTTT	TEMPORARY BERM	EC-STR-27
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
* HVF * HVF	HIGH VISIBILITY FENCE	S-F-1
	RIPRAP	EC-STR-27
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	EC-STR-7
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
E	CATCH BASIN PROTECTION (TYPE E)	EC-STR-19
SFB * BJS * BJS * SFB	SEDIMENT FILTER BAG	EC-STR-2
	TEMPORARY SLOPE DRAIN	EC-STR-27
	TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM	EC-STR-27
	PERMANENT SLOPE DRAIN PIPE (SHOW SIZE)	EC-STR-29
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
	SAND BAG BERM	EC-STR-33
	SAND BAG BERM	EC-STR-33
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	55A
CONST.	2017	STP-35(64)	29A

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES AND LEGEND

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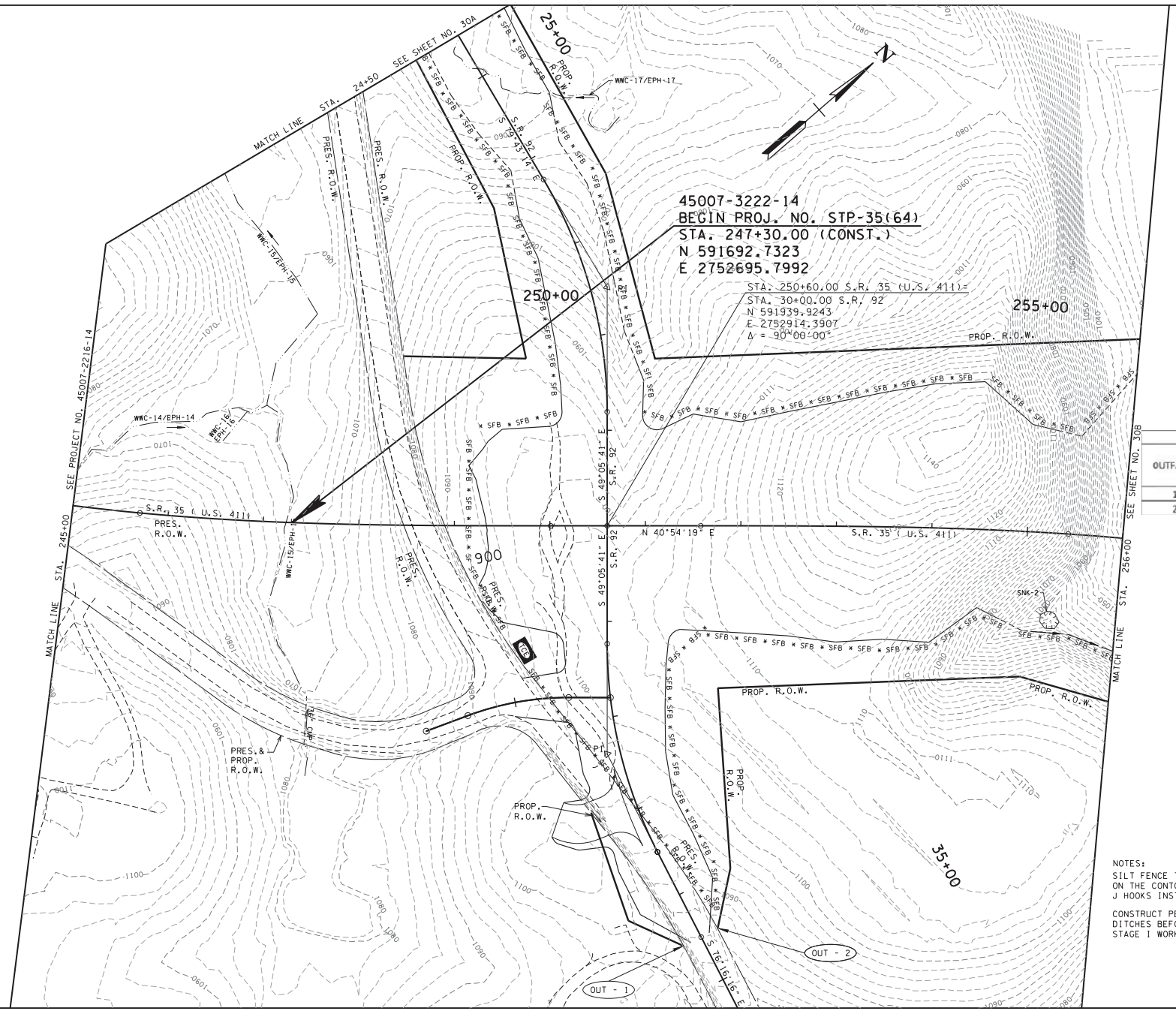

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56T
CONST.	2017	STP-35(64)	30

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. SILT FENCE RT. REM. CHECK DAMS RT. & LT. MOD. SLOPE DRAIN STA. 254+00 RT. ADDED SILT SCREEN STA. 249+75.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

STAGE 1 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC) OFFSITE RUN-ON	SLOPE (%)
1	0.2		3.2
2	1.4		8

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NOTES:

SILT FENCE THAT IS NOT SHOWN ON THE CONTOURS SHALL HAVE J HOOKS INSTALLED.

CONSTRUCT PERMANENT INTERCEPTOR DITCHES BEFORE ANY OTHER STAGE I WORK IS PERFORMED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.245+00 TO STA.256+00

SCALE: 1"= 50'

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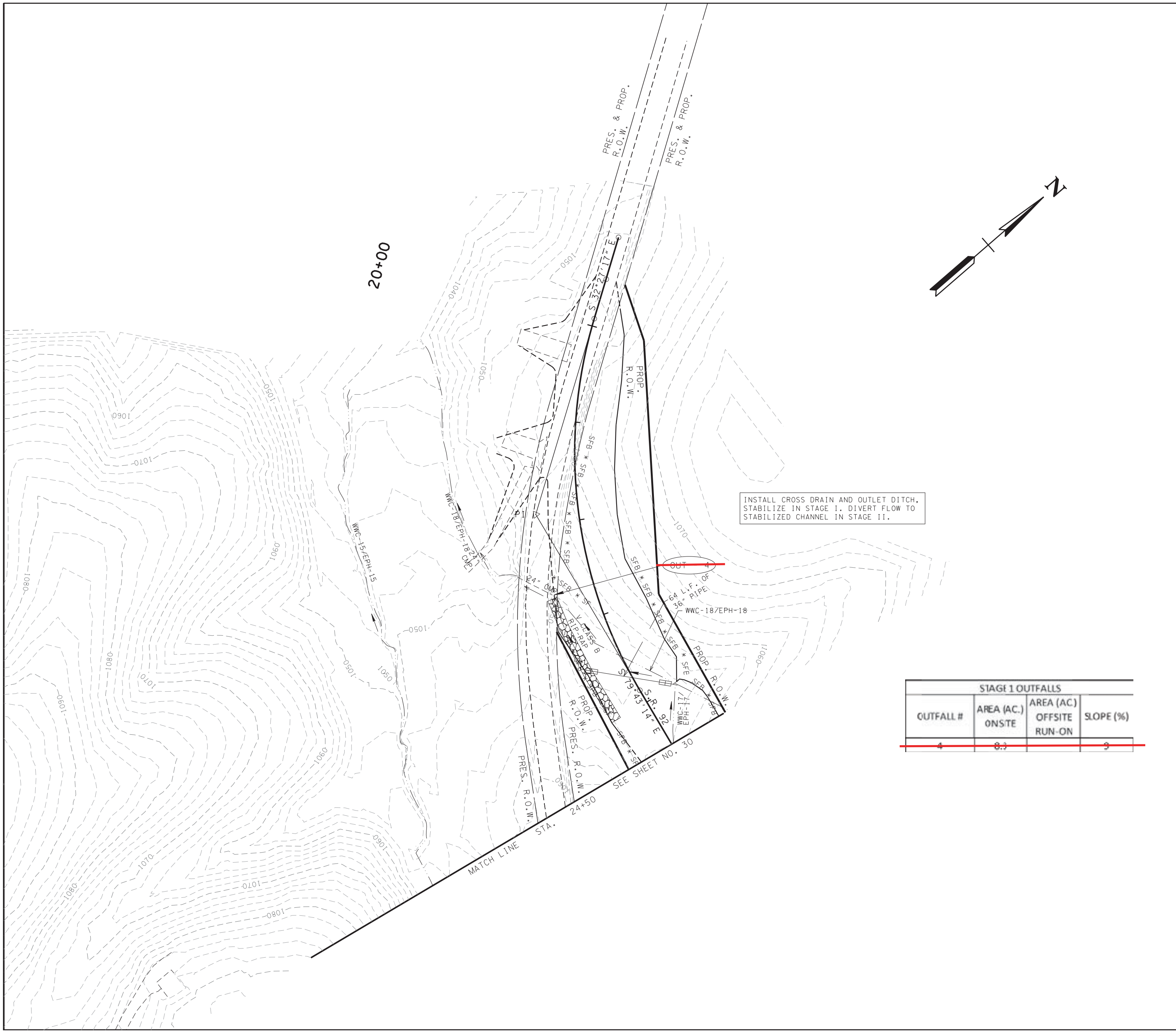
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56U
CONST.	2017	STP-35(64)	30A

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. SILT FENCE RT. REM. CHECK DAMS LT. REM. SLOPE DRAIN STA. 20+00 LT. S.R. 92.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.



STAGE 1 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC) OFFSITE RUN-ON	SLOPE (%)
4	8.)		3

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

S.R. 92
STA. 19+50 TO STA. 24+50
SCALE: 1"= 50'

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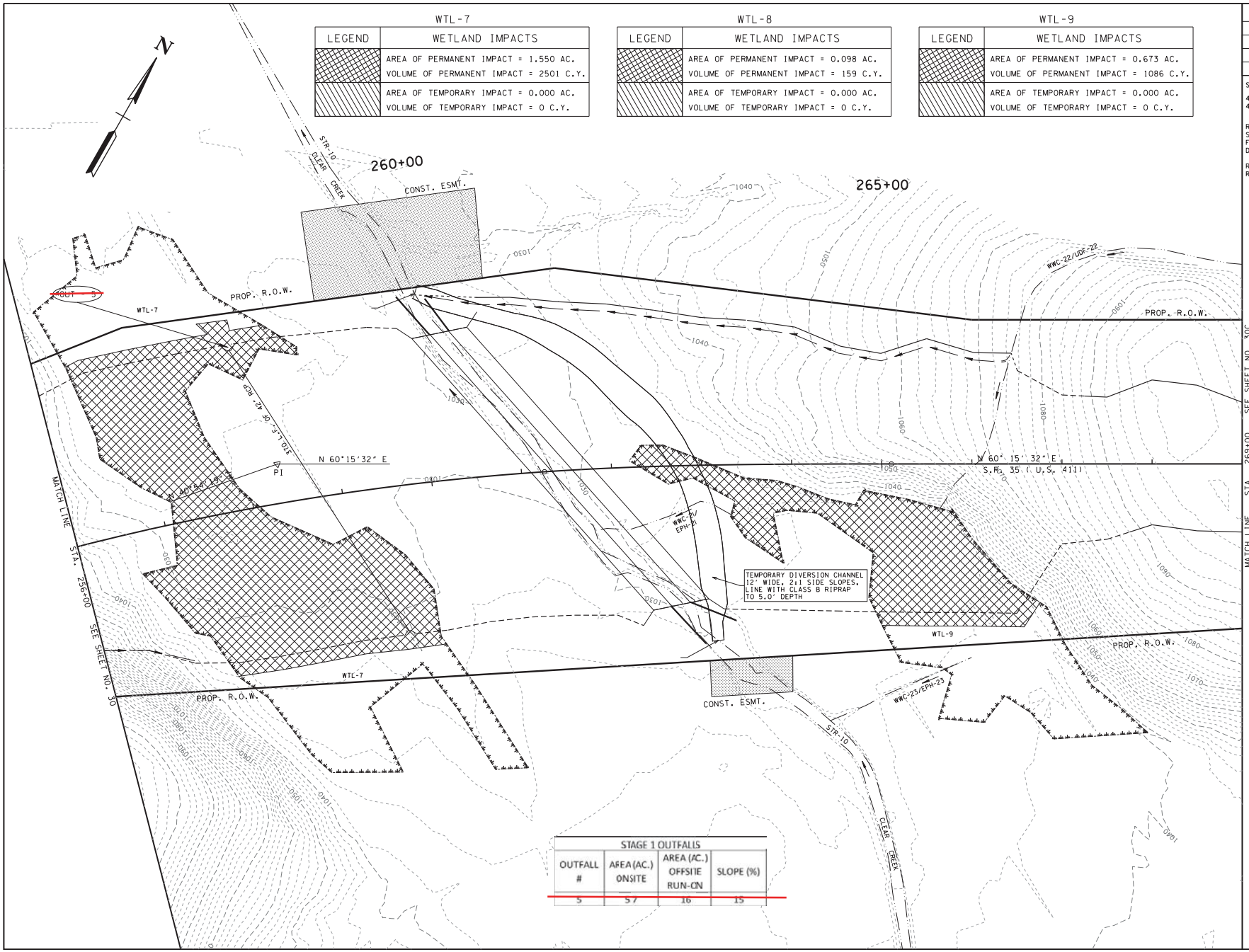

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56V
CONST.	2017	STP-35(64)	30B

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. SILT FENCE RT. REM. CHECK DAM RT. ADDED DIVERSION CHANNEL FOR CLEAR CREEK.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.256+00 TO STA.269+00

SCALE: 1"= 50'

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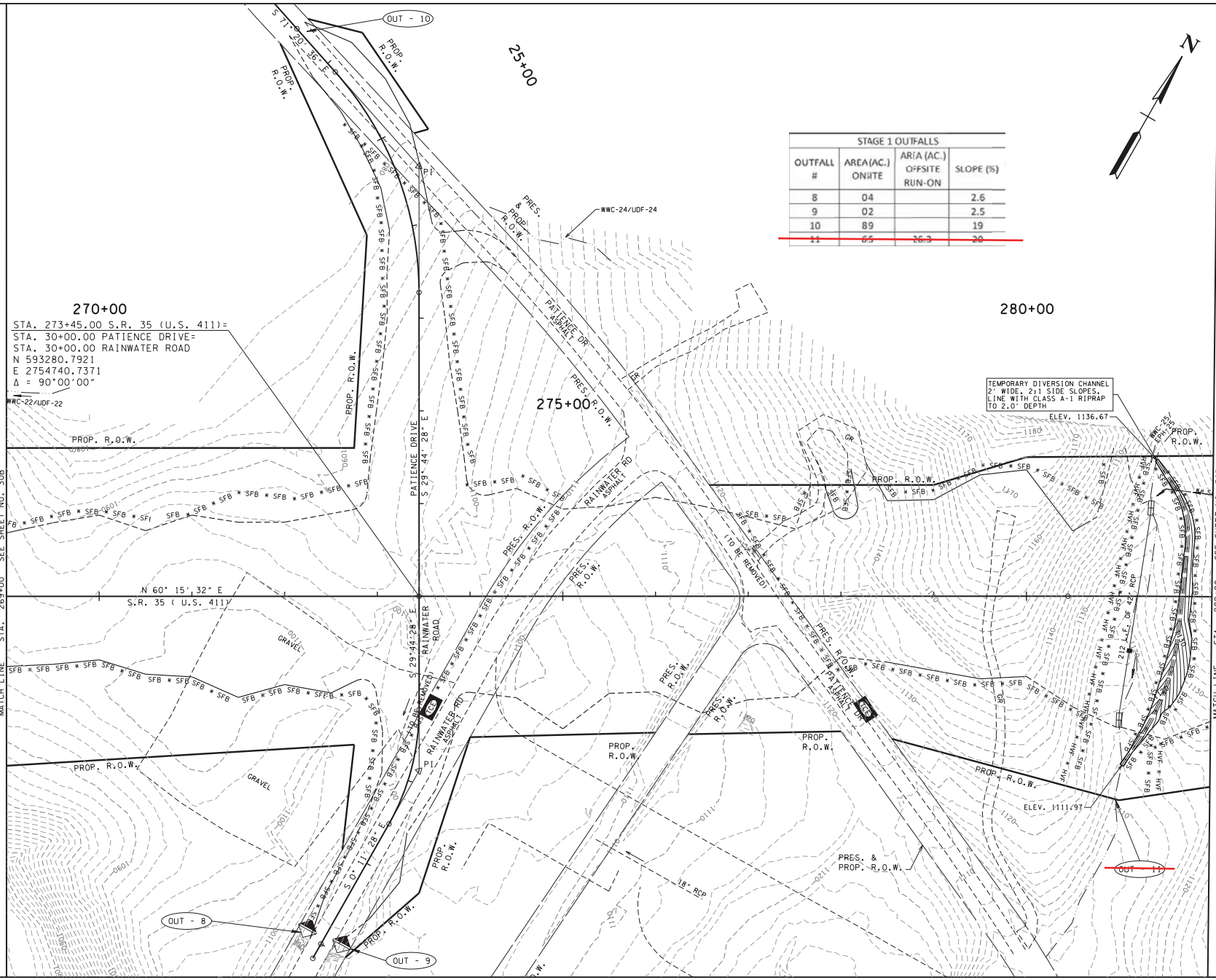

STAGE 1 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
8	04		2.6
9	02		2.5
10	89		19
~~11~~	~~65~~	~~26.3~~	~~20~~

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56W
CONST.	2017	STP-35(64)	30C

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. SILT FENCE RT. & LT. REM. CHECK DAMS RT. MOD. SLOPE DRAIN STA. 23+50 RT. PATIENCE DR. & STA. 33+75 RT. RAINWATER RD. REM. SLOPE DRAIN STA. 278+00 LT. ADDED SILT SCREEN STA. 274+25.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.269+00 TO STA.282+00

SCALE: 1"= 50'

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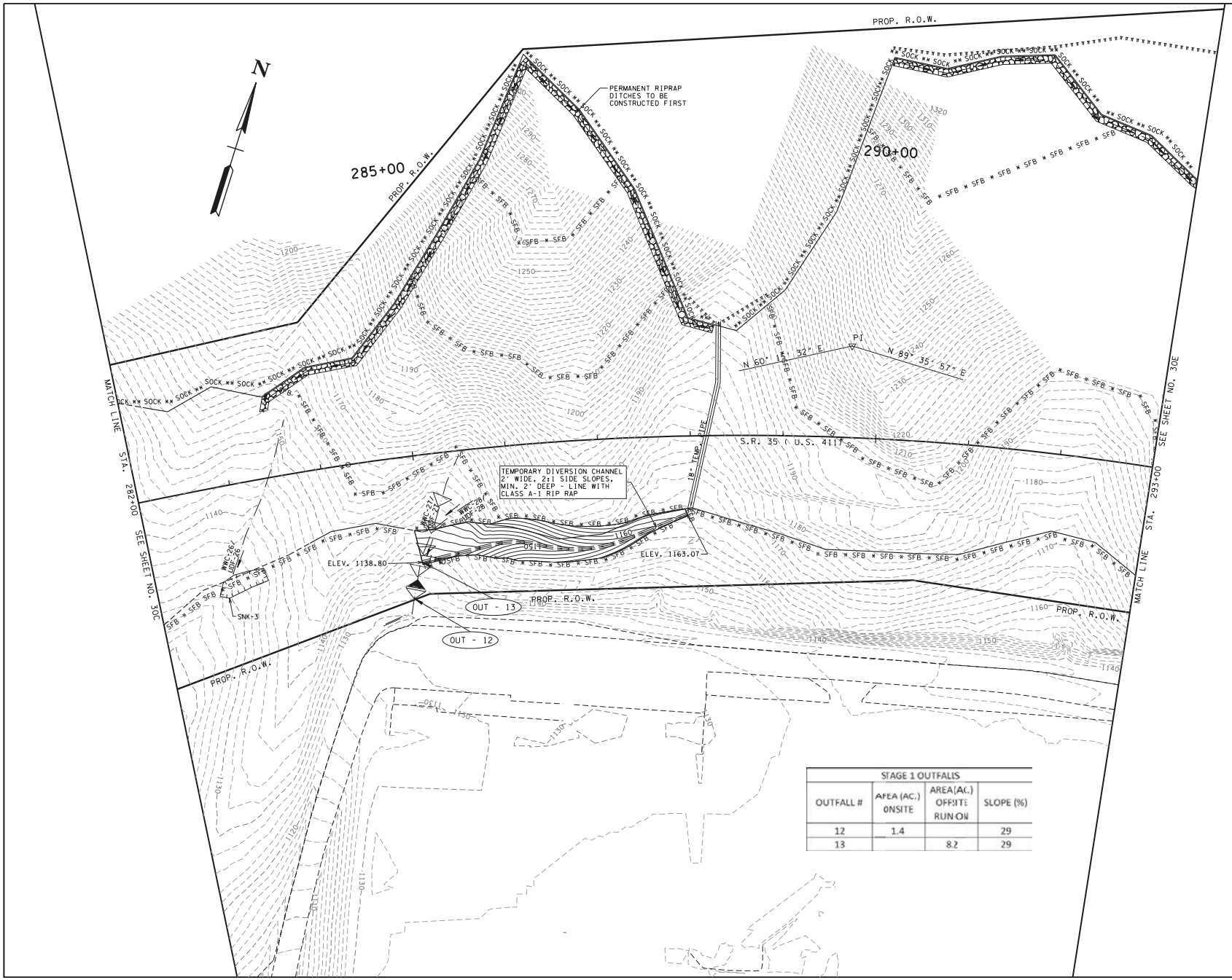

STAGE 1 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA(AC.) OFFSITE RUNOFF	SLOPE (%)
12	1.4		29
13		8.2	29

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56X
CONST.	2017	STP-35(64)	30D

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. CHECK DAMS RT. & LT. ADDED SED. TRAP STA. 282+75 LT. ADDED COIR LOGS LT.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.282+00 TO STA.293+00

SCALE: 1"= 50'

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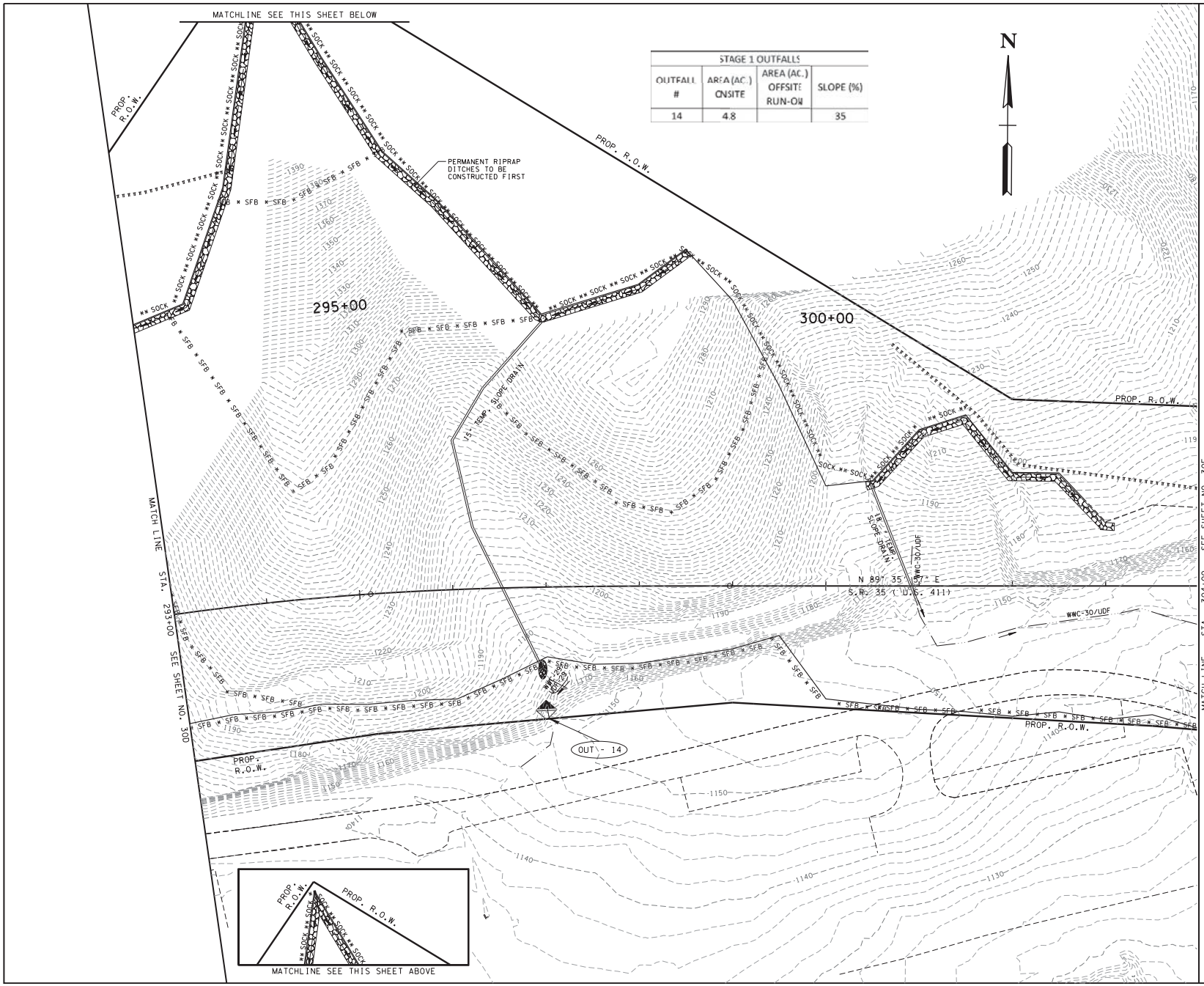

STAGE 1 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
14	4.8		35

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56Y
CONST.	2017	STP-35(64)	30E

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. REM. CHECK DAMS RT. & LT. ADDED COIR LOGS LT.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.293+00 TO STA.304+00

SCALE: 1"= 50'

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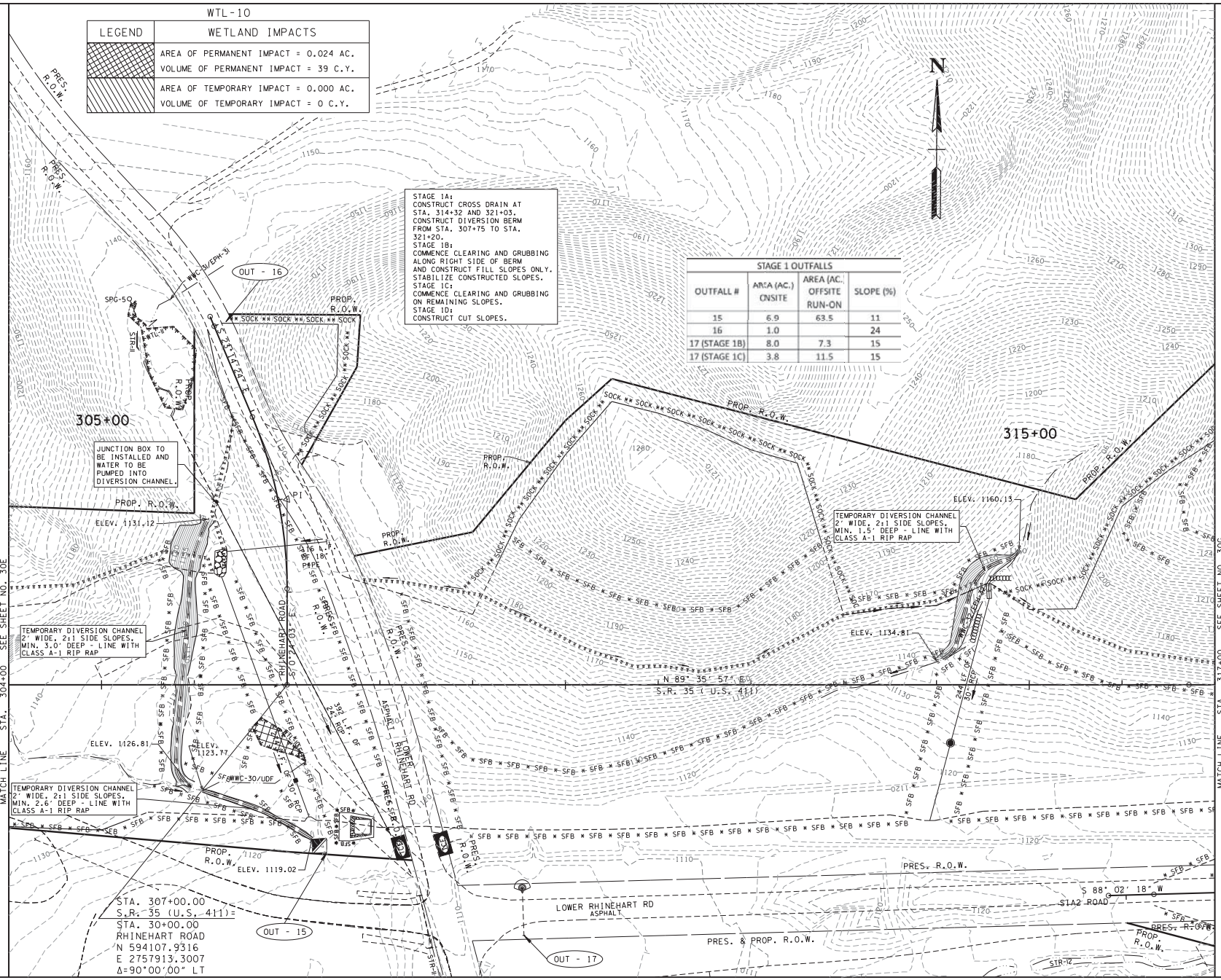

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56AA
CONST.	2017	STP-35(64)	30F

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. SILT FENCE LT. ADDED CHECK DAMS RT. REM. CHECK DAMS LT. REM. SLOPE DRAIN STA. 304+30 LT. ADDED SILT SCREEN STA. 306+75. ADDED RIPRAP STA. 315+00 LT. MOVED RIPRAP FROM STA. 26+25 RT. TO STA. 26+25 LT. RHINEHART RD.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.304+00 TO STA.317+00

SCALE: 1"= 50'

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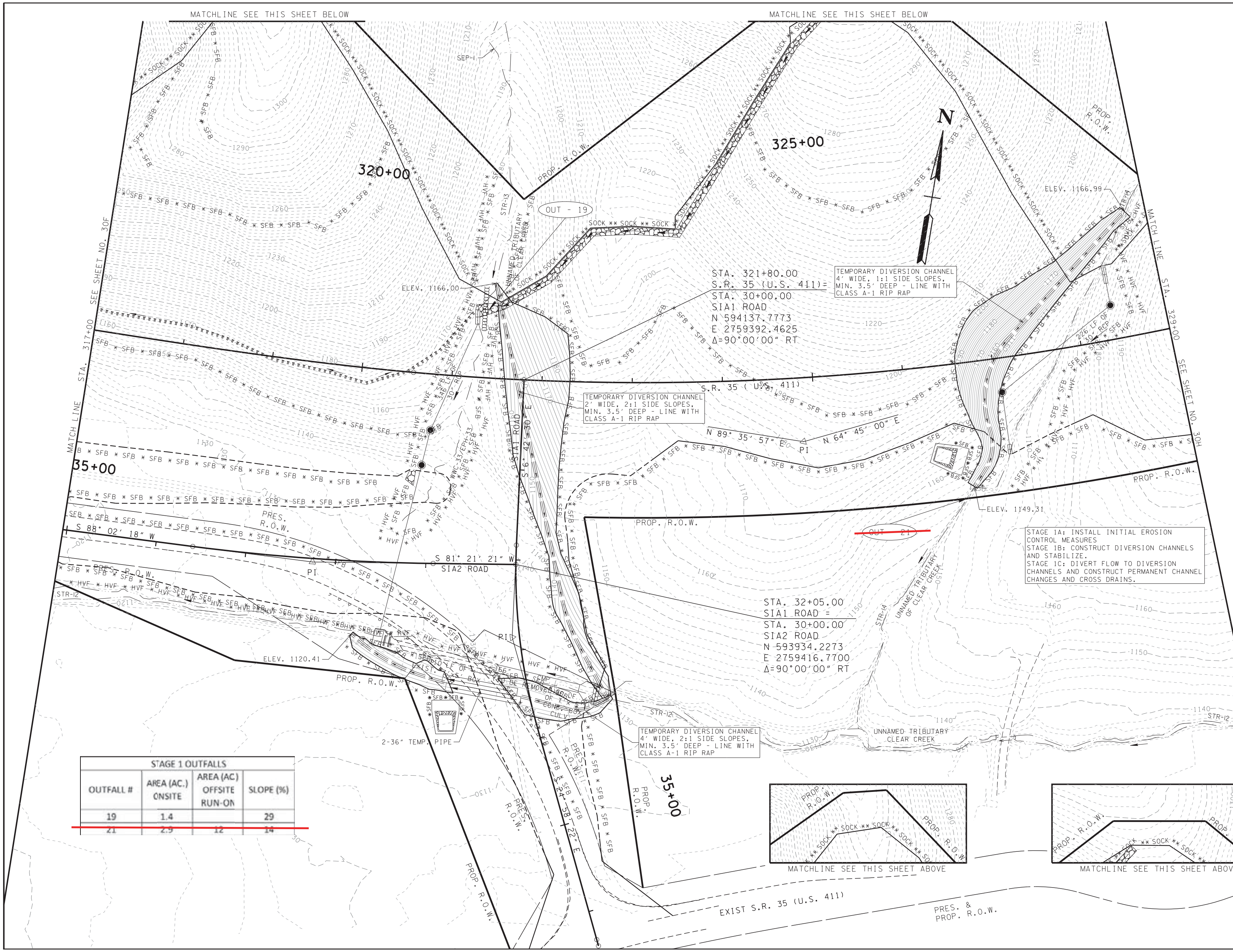
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56AB
CONST.	2017	STP-35(64)	30G

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. SILT FENCE RT. MOD. BERM LT. REM. CHECK DAMS RT. & LT. MOD. SLOPE DRAINS. LT. ADDED SLOPE DRAINS STA. 36+60 LT. SIA2 RD. & STA. 35+00 LT. SIA1 RD. ADDED SLIT SCREEN STA. 321+00 LT. & 322+50. ADDED 48" TEMP. PIPES RT. SIA1 RD. ADDED COIR LOGS LT. ADDED DIVERSION CHANNEL FOR UNNAMED TRIBUTARY OF CLEAR CREEK. ADDED SAND BAGS STA. 33+50 LT. SIA1 RD.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.



STAGE 1 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
19	1.4		29
~~21~~	~~2.9~~	~~12~~	~~14~~

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.317+00 TO STA.329+00

SCALE: 1"= 50'

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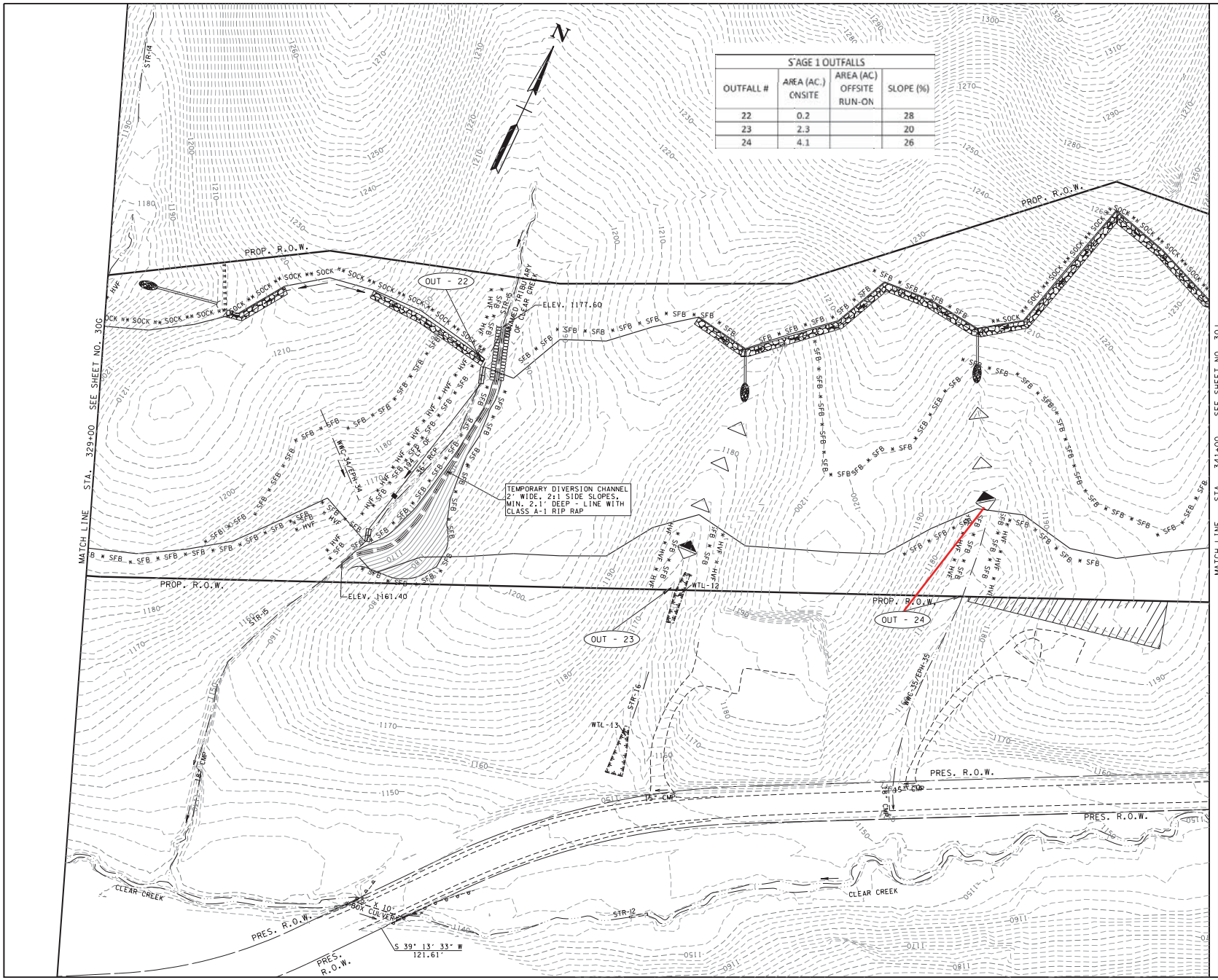

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56AC
CONST.	2017	STP-35(64)	30H

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. CHECK DAMS LT. REM. CHECK DAMS RT. MOD. SLOPE DRAINS LT.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.329+00 TO STA.341+00

SCALE: 1"= 50'

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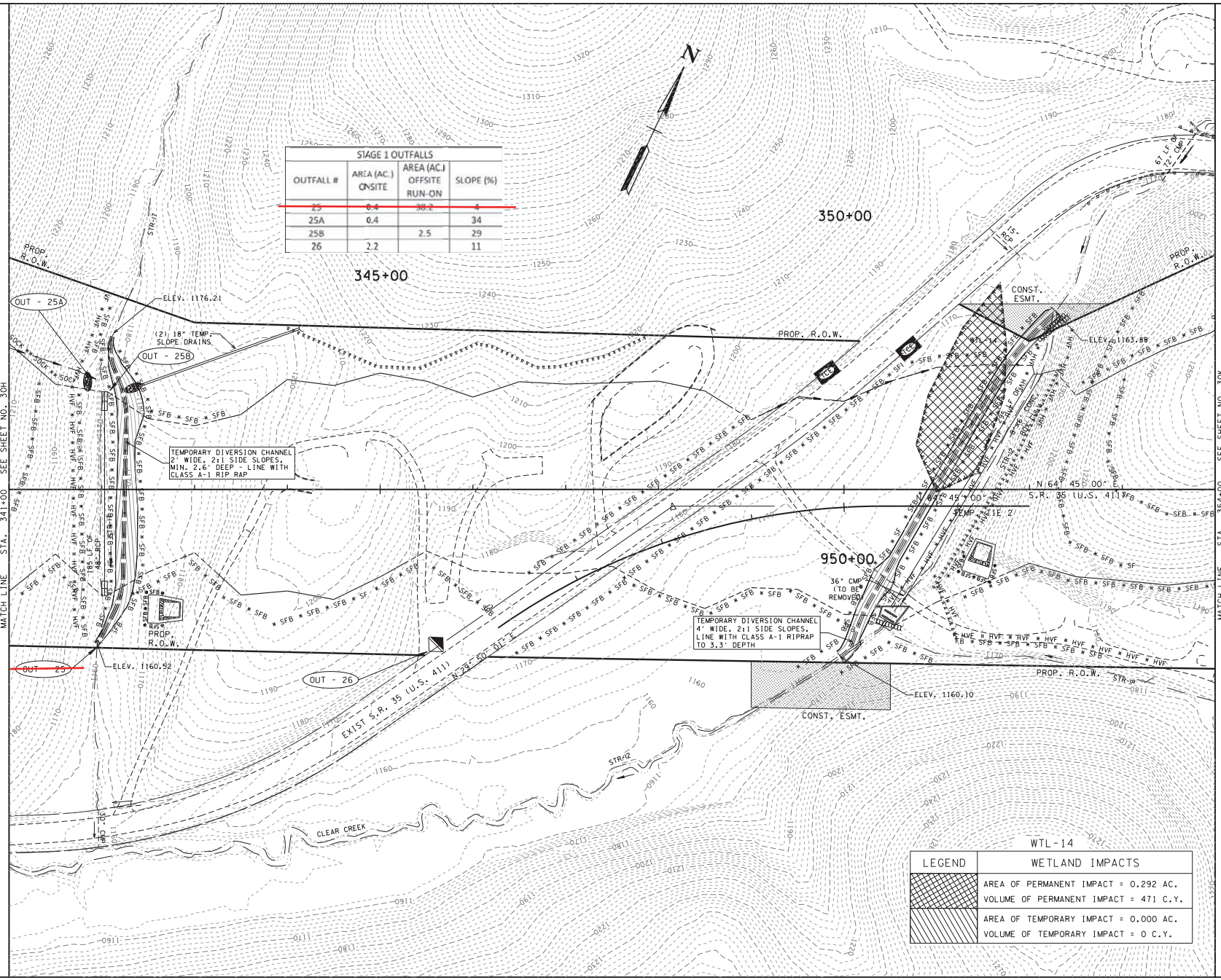

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56AD
CONST.	2017	STP-35(64)	30J

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. SILT FENCE RT. & LT. MOD. BERM LT. REM. CHECK DAMS RT. & LT. MOD. SLOPE DRAIN STA. 346+00 LT. ADDED DIVERSION CHANNEL FOR UNAMED TRIBUTARY OF CLEAR CREEK.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.341+00 TO STA.354+00

SCALE: 1"= 50'

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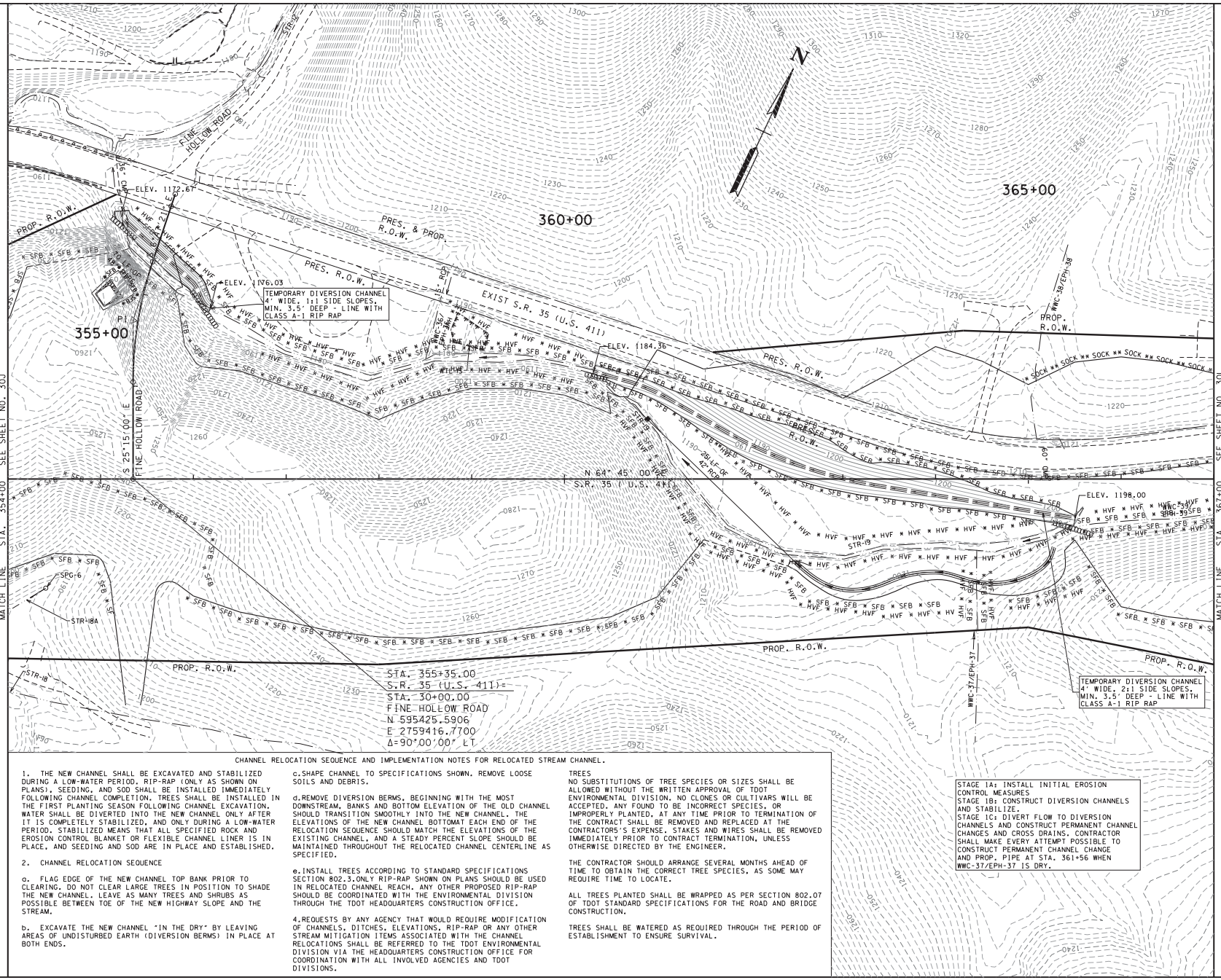

CHANNEL RELOCATION SEQUENCE AND IMPLEMENTATION NOTES FOR RELOCATED STREAM CHANNEL.

1. THE NEW CHANNEL SHALL BE EXCAVATED AND STABILIZED DURING A LOW-WATER PERIOD. RIP-RAP (ONLY AS SHOWN ON PLANS), SEEDING, AND SOD SHALL BE INSTALLED IMMEDIATELY FOLLOWING CHANNEL COMPLETION. TREES SHALL BE INSTALLED IN THE FIRST PLANTING SEASON FOLLOWING CHANNEL EXCAVATION. WATER SHALL BE DIVERTED INTO THE NEW CHANNEL ONLY AFTER IT IS COMPLETELY STABILIZED, AND ONLY DURING A LOW-WATER PERIOD. STABILIZED MEANS THAT ALL SPECIFIED ROCK AND EROSION CONTROL BLANKET OR FLEXIBLE CHANNEL LINER IS IN PLACE, AND SEEDING AND SOD ARE IN PLACE AND ESTABLISHED.

2. CHANNEL RELOCATION SEQUENCE

a. FLAG EDGE OF THE NEW CHANNEL TOP BANK PRIOR TO CLEARING. DO NOT CLEAR LARGE TREES IN POSITION TO SHADE THE NEW CHANNEL. LEAVE AS MANY TREES AND SHRUBS AS POSSIBLE BETWEEN TOE OF THE NEW HIGHWAY SLOPE AND THE STREAM.

b. EXCAVATE THE NEW CHANNEL "IN THE DRY" BY LEAVING AREAS OF UNDISTURBED EARTH (DIVERSION BERMS) IN PLACE AT BOTH ENDS.

c. SHAPE CHANNEL TO SPECIFICATIONS SHOWN. REMOVE LOOSE SOILS AND DEBRIS.

d. REMOVE DIVERSION BERMS, BEGINNING WITH THE MOST DOWNSTREAM, BANKS AND BOTTOM ELEVATION OF THE OLD CHANNEL SHOULD TRANSITION SMOOTHLY INTO THE NEW CHANNEL. THE ELEVATIONS OF THE NEW CHANNEL BOTTOMAT EACH END OF THE RELOCATION SEQUENCE SHOULD MATCH THE ELEVATIONS OF THE EXISTING CHANNEL, AND A STEADY PERCENT SLOPE SHOULD BE MAINTAINED THROUGHOUT THE RELOCATED CHANNEL CENTERLINE AS SPECIFIED.

e. INSTALL TREES ACCORDING TO STANDARD SPECIFICATIONS SECTION 802.3.ONLY RIP-RAP SHOWN ON PLANS SHOULD BE USED IN RELOCATED CHANNEL REACH. ANY OTHER PROPOSED RIP-RAP SHOULD BE COORDINATED WITH THE ENVIRONMENTAL DIVISION THROUGH THE TDOT HEADQUARTERS CONSTRUCTION OFFICE.

4. REQUESTS BY ANY AGENCY THAT WOULD REQUIRE MODIFICATION OF CHANNELS, DITCHES, ELEVATIONS, RIP-RAP OR ANY OTHER STREAM MITIGATION ITEMS ASSOCIATED WITH THE CHANNEL RELOCATIONS SHALL BE REFERRED TO THE TDOT ENVIRONMENTAL DIVISION VIA THE HEADQUARTERS CONSTRUCTION OFFICE FOR COORDINATION WITH ALL INVOLVED AGENCIES AND TDOT DIVISIONS.

TREES

NO SUBSTITUTIONS OF TREE SPECIES OR SIZES SHALL BE ALLOWED WITHOUT THE WRITTEN APPROVAL OF TDOT ENVIRONMENTAL DIVISION. NO CLONES OR CULTIVARS WILL BE ACCEPTED. ANY FOUND TO BE INCORRECT SPECIES, OR IMPROPERLY PLANTED, AT ANY TIME PRIOR TO TERMINATION OF THE CONTRACT SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. STAKES AND WIRES SHALL BE REMOVED IMMEDIATELY PRIOR TO CONTRACT TERMINATION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHOULD ARRANGE SEVERAL MONTHS AHEAD OF TIME TO OBTAIN THE CORRECT TREE SPECIES, AS SOME MAY REQUIRE TIME TO LOCATE.

ALL TREES PLANTED SHALL BE WRAPPED AS PER SECTION 802.07 OF TDOT STANDARD SPECIFICATIONS FOR THE ROAD AND BRIDGE CONSTRUCTION.

TREES SHALL BE WATERED AS REQUIRED THROUGH THE PERIOD OF ESTABLISHMENT TO ENSURE SURVIVAL.

STAGE 1A: INSTALL INITIAL EROSION CONTROL MEASURES
STAGE 1B: CONSTRUCT DIVERSION CHANNELS AND STABILIZE.
STAGE 1C: DIVERT FLOW TO DIVERSION CHANNELS AND CONSTRUCT PERMANENT CHANNEL CHANGES AND CROSS DRAINS. CONTRACTOR SHALL MAKE EVERY ATTEMPT POSSIBLE TO CONSTRUCT PERMANENT CHANNEL CHANGE AND PROP. PIPE AT STA. 361+56 WHEN WWC-37/EPH-37 IS DRY.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56AE
CONST.	2017	STP-35(64)	30K

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. SILT FENCE LT. REM. SILT FENCE RT. MOD. BERM RT. & LT. MOD. CHECK DAMS RT. & LT. MOD. SLOPE DRAINS LT. REM. SILT SCREEN STA. 362+50 RT. ADDED SED. TRAP STA. 366+30 RT. REM. SED. FILTER BAG STA. 27+50 RT. FINE HOLLOW RD.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.354+00 TO STA.367+00

SCALE: 1"= 50'

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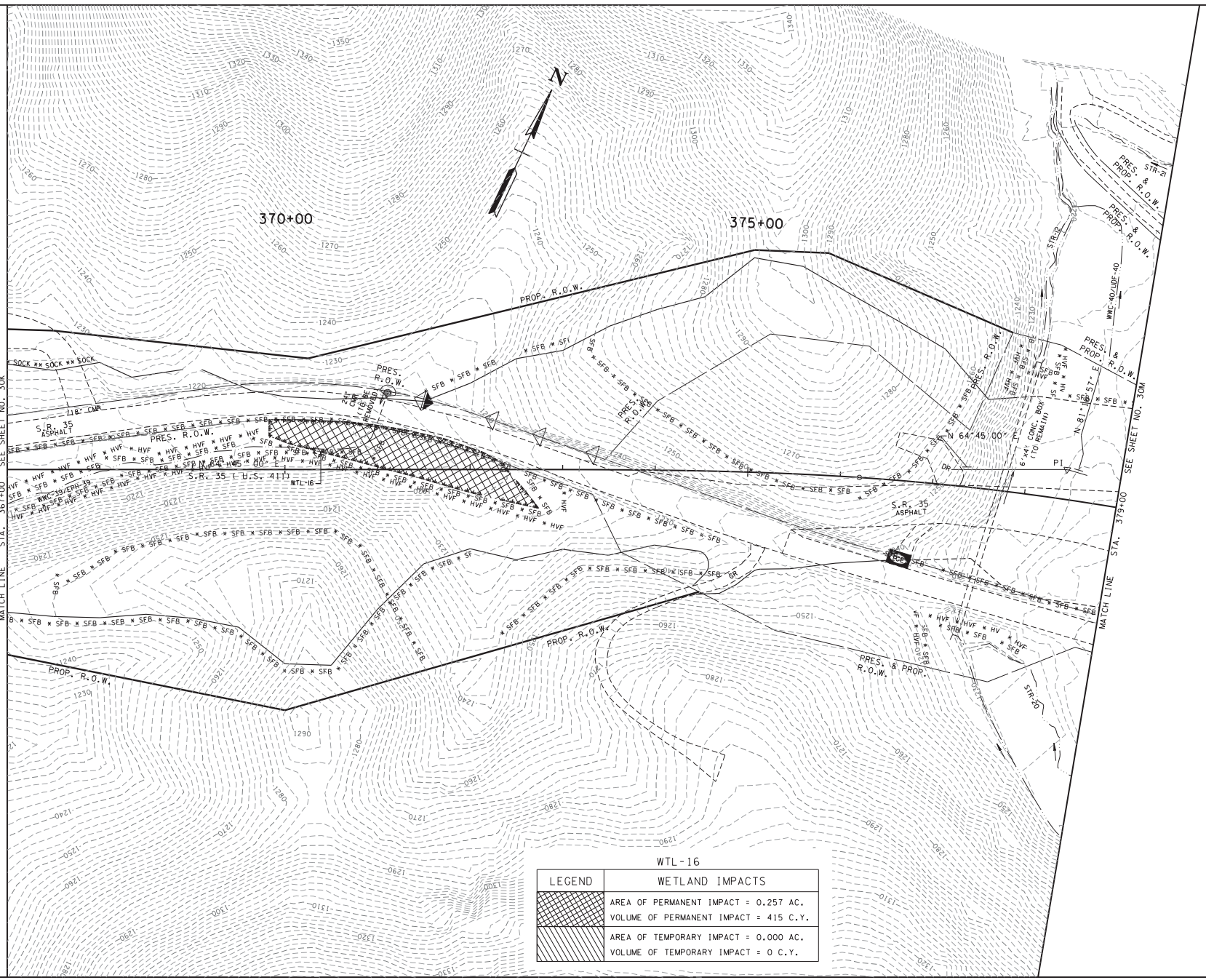

WTL-16

LEGEND	WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.257 AC. VOLUME OF PERMANENT IMPACT = 415 C.Y.
	AREA OF TEMPORARY IMPACT = 0.000 AC. VOLUME OF TEMPORARY IMPACT = 0 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56AF
CONST.	2017	STP-35(64)	30L

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. SILT FENCE RT. REM. SILT FENCE LT. MOD. BERM RT. & LT. MOD. SLOPE DRAINS RT. & LT.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.367+00 TO STA.379+00

SCALE: 1"= 50'

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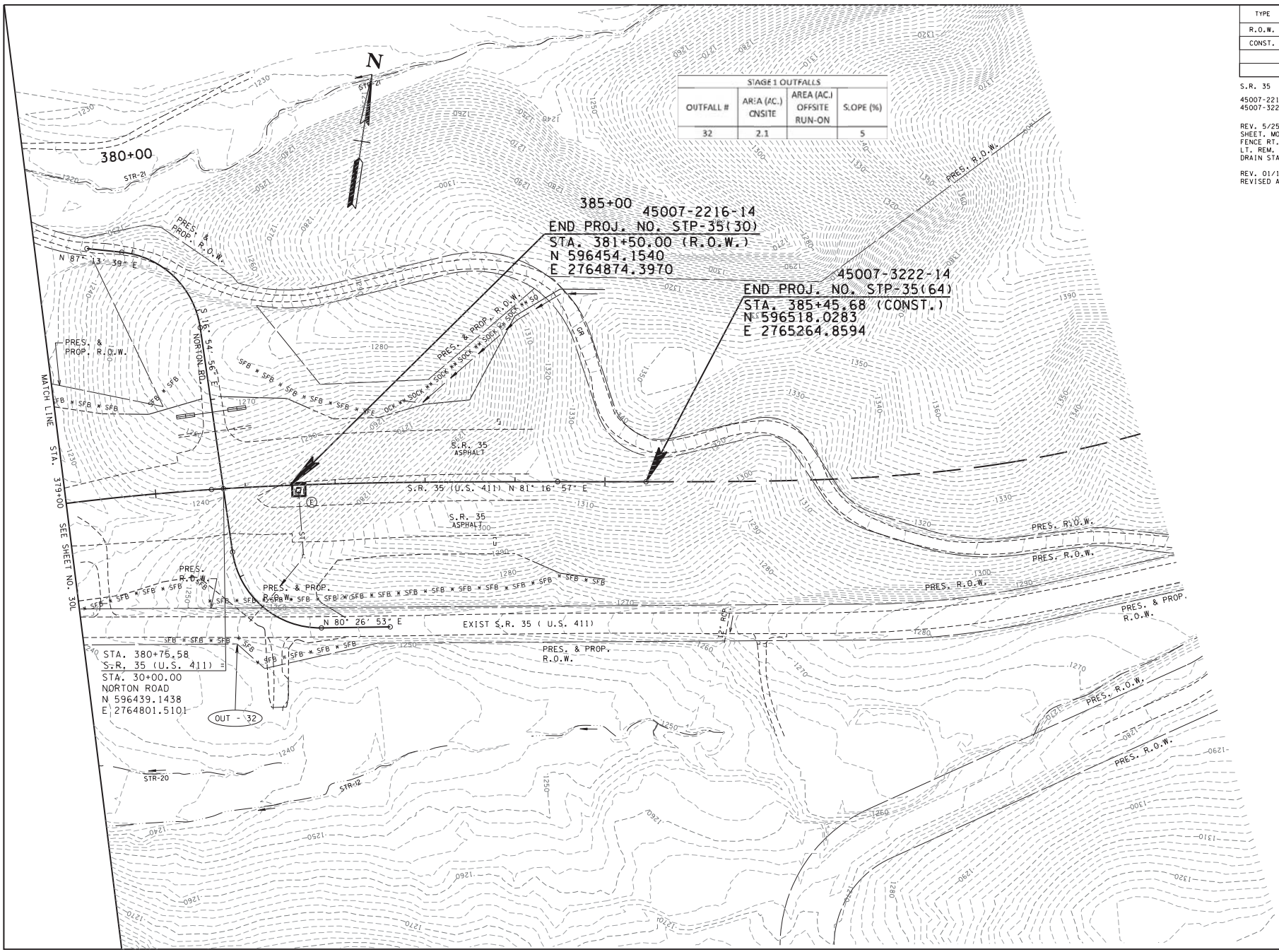

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	56AG
CONST.	2017	STP-35(64)	30M

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET, MOD. CB PROTECTION, MOD. SILT FENCE RT. REM. SILT FENCE LT. MOD. BERM LT. REM. CHECK DAMS RT. & LT. REM. SLOPE DRAIN STA. 381+50 LT. & STA. 383+50 LT.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

SEALED BY

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE I

STA.379+00 TO STA.391+00

SCALE: 1"= 50'

31

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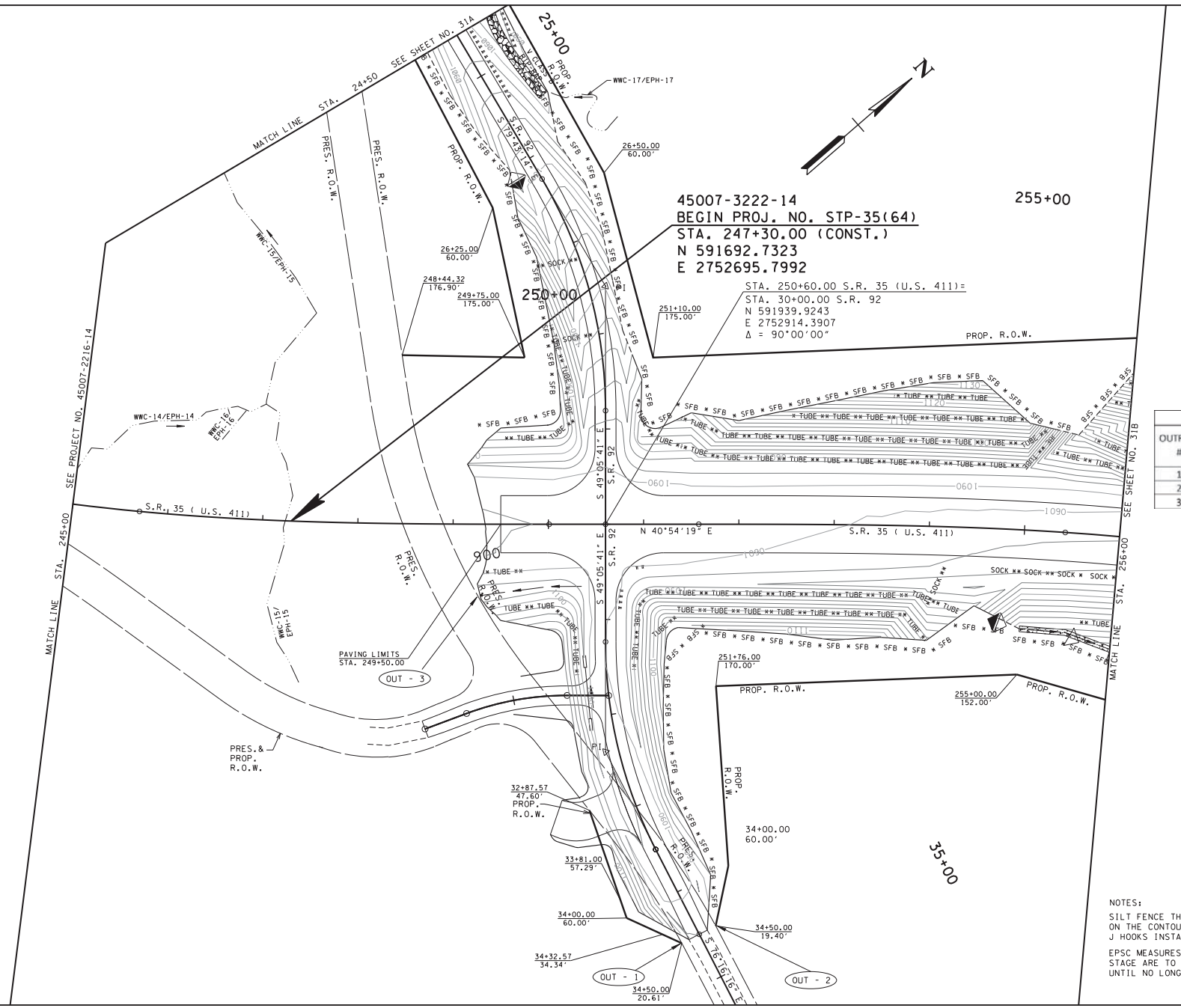

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57T
CONST.	2017	STP-35(64)	31

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	S.OPE (%)
1	0.2		3.2
2	1.4		8
3	0.7		1

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NOTES:

SILT FENCE THAT IS NOT SHOWN ON THE CONTOURS SHALL HAVE J HOOKS INSTALLED.

EPSC MEASURES FROM PREVIOUS STAGE ARE TO REMAIN IN PLACE UNTIL NO LONGER NEEDED.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.245+00 TO STA.256+00

SCALE: 1"= 50'

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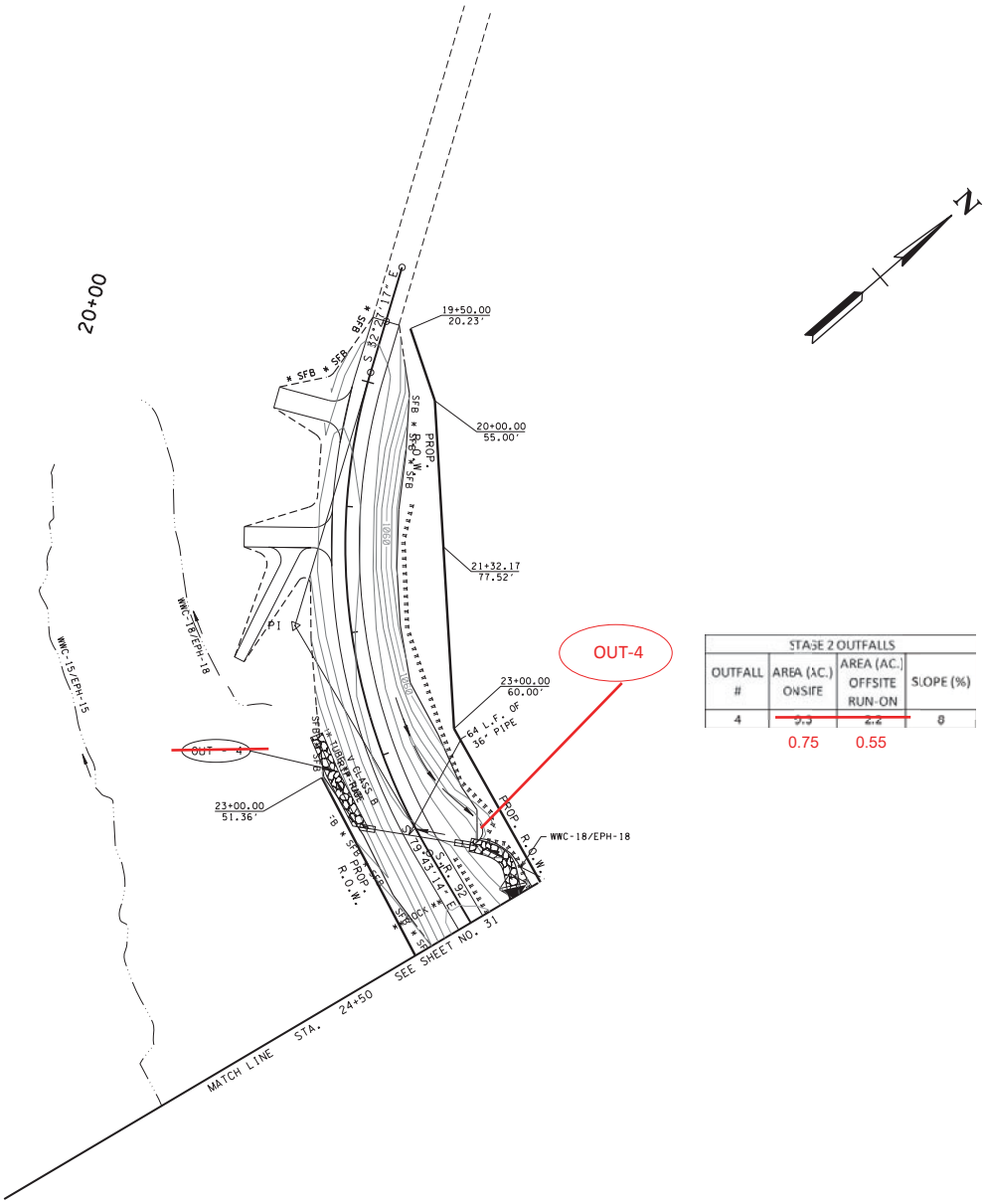
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57U
CONST.	2017	STP-35(64)	31A

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.



STAGE 2 OUTFALLS

OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
4	0.75	0.55	8

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

S.R. 92
STA. 19+50 TO STA. 24+50
SCALE: 1"= 50'

6/9/2017
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WTL-7

LEGEND	WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 1.550 AC.
	VOLUME OF PERMANENT IMPACT = 2501 C.Y.
	AREA OF TEMPORARY IMPACT = 0.000 AC.
	VOLUME OF TEMPORARY IMPACT = 0 C.Y.

WTL-9

LEGEND	WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.673 AC.
	VOLUME OF PERMANENT IMPACT = 1086 C.Y.
	AREA OF TEMPORARY IMPACT = 0.000 AC.
	VOLUME OF TEMPORARY IMPACT = 0 C.Y.

STAGE 2 OUTFALLS

OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
5	5.7	16	1
5A	2.4	2.8	2
5B	3.3		5
6	3.7		8
7	1.4	5.5	7

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57V
CONST.	2017	STP-35(64)	31B

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. SILT FENCE RT. REM. CHECK DAM RT. ADDED DIVERSION CHANNEL FOR CLEAR CREEK.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.256+00 TO STA.269+00

SCALE: 1"= 50'

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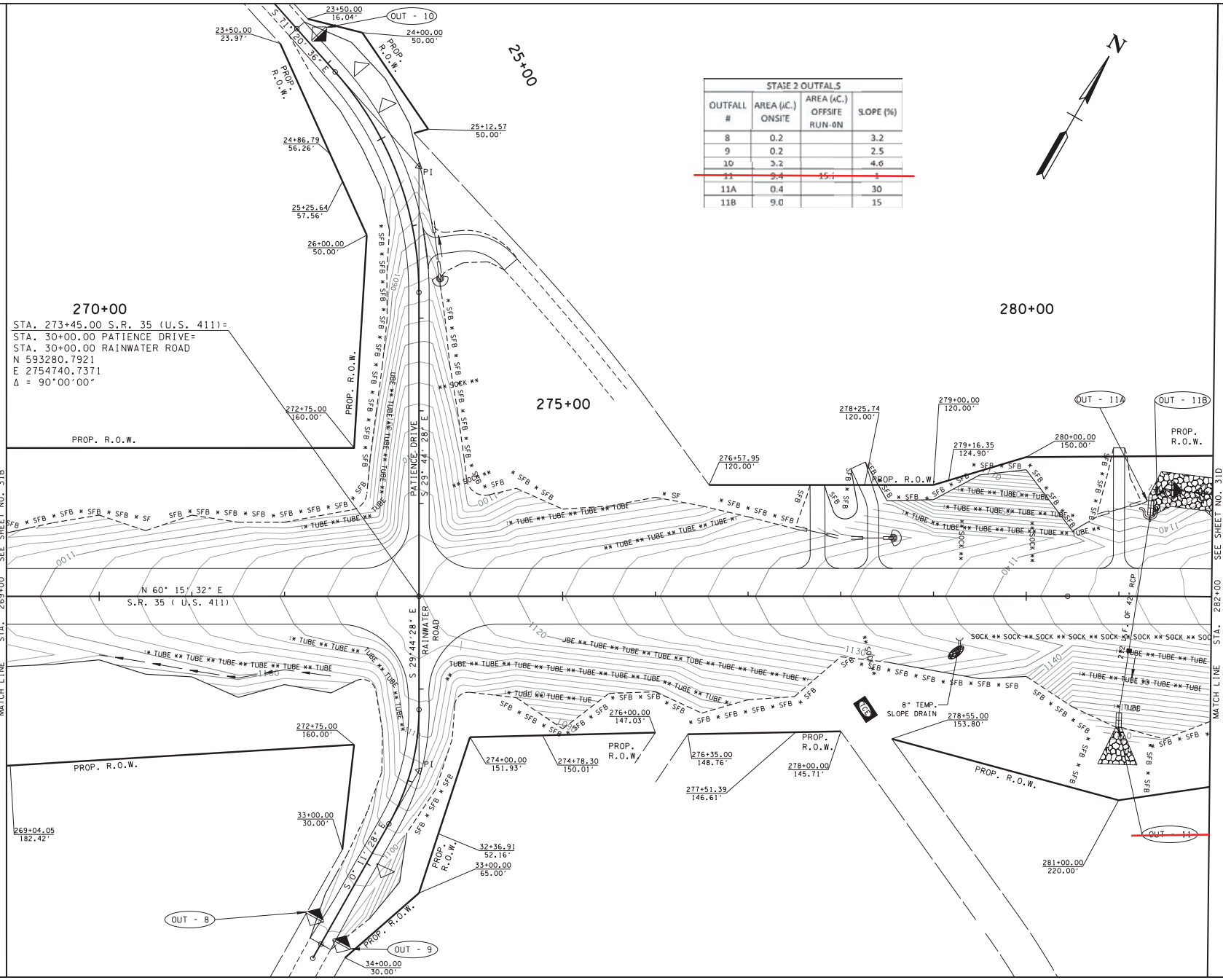

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
8	0.2		3.2
9	0.2		2.5
10	3.2		4.6
11	9.4	15.1	1
11A	0.4		30
11B	9.0		15

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57W
CONST.	2017	STP-35(64)	31C

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.269+00 TO STA.282+00

SCALE: 1"= 50'

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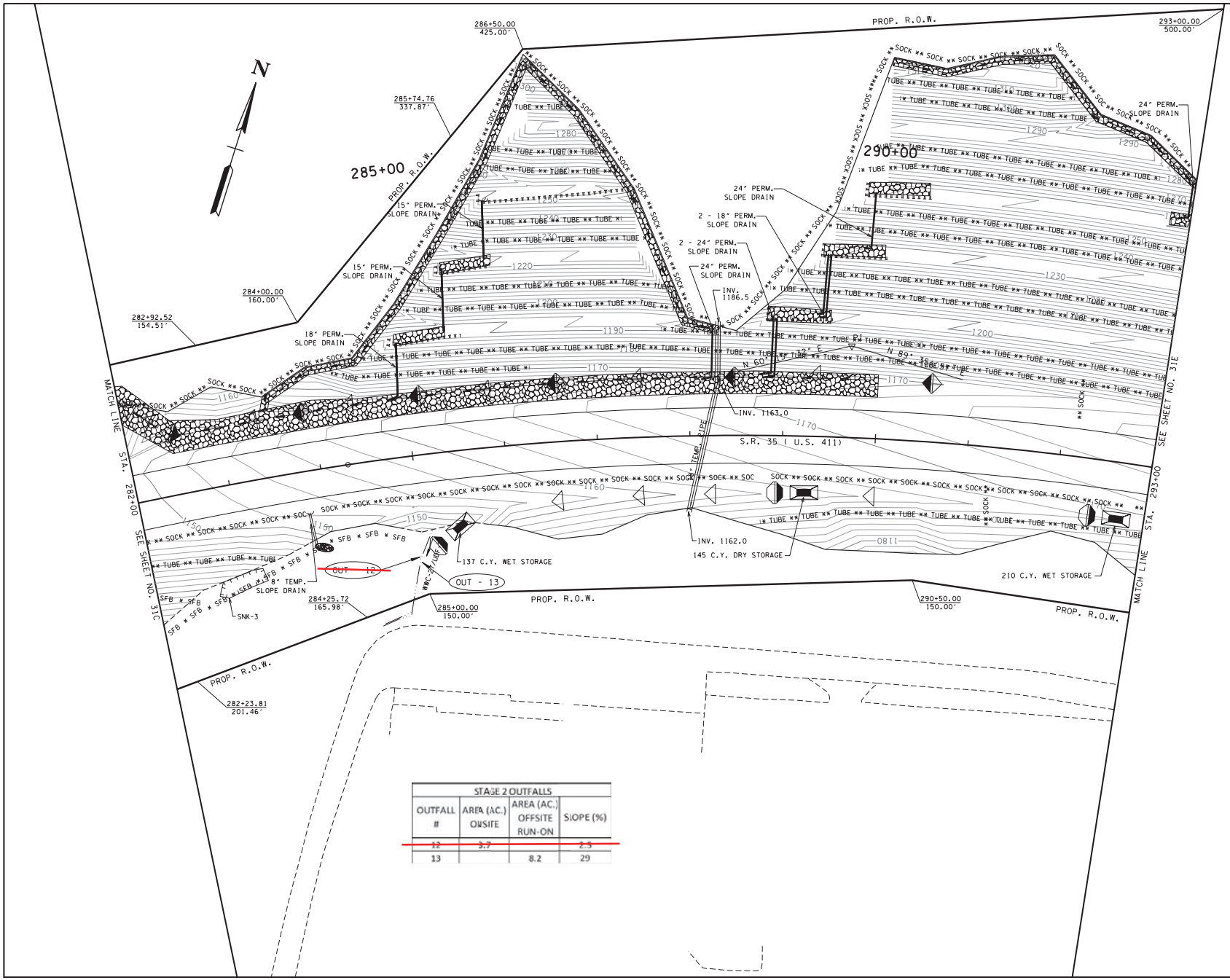

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
~~12~~	~~3.7~~		~~2.5~~
13		8.2	29

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57X
CONST.	2017	STP-35(64)	31D

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.282+00 TO STA.293+00

SCALE: 1"= 50'

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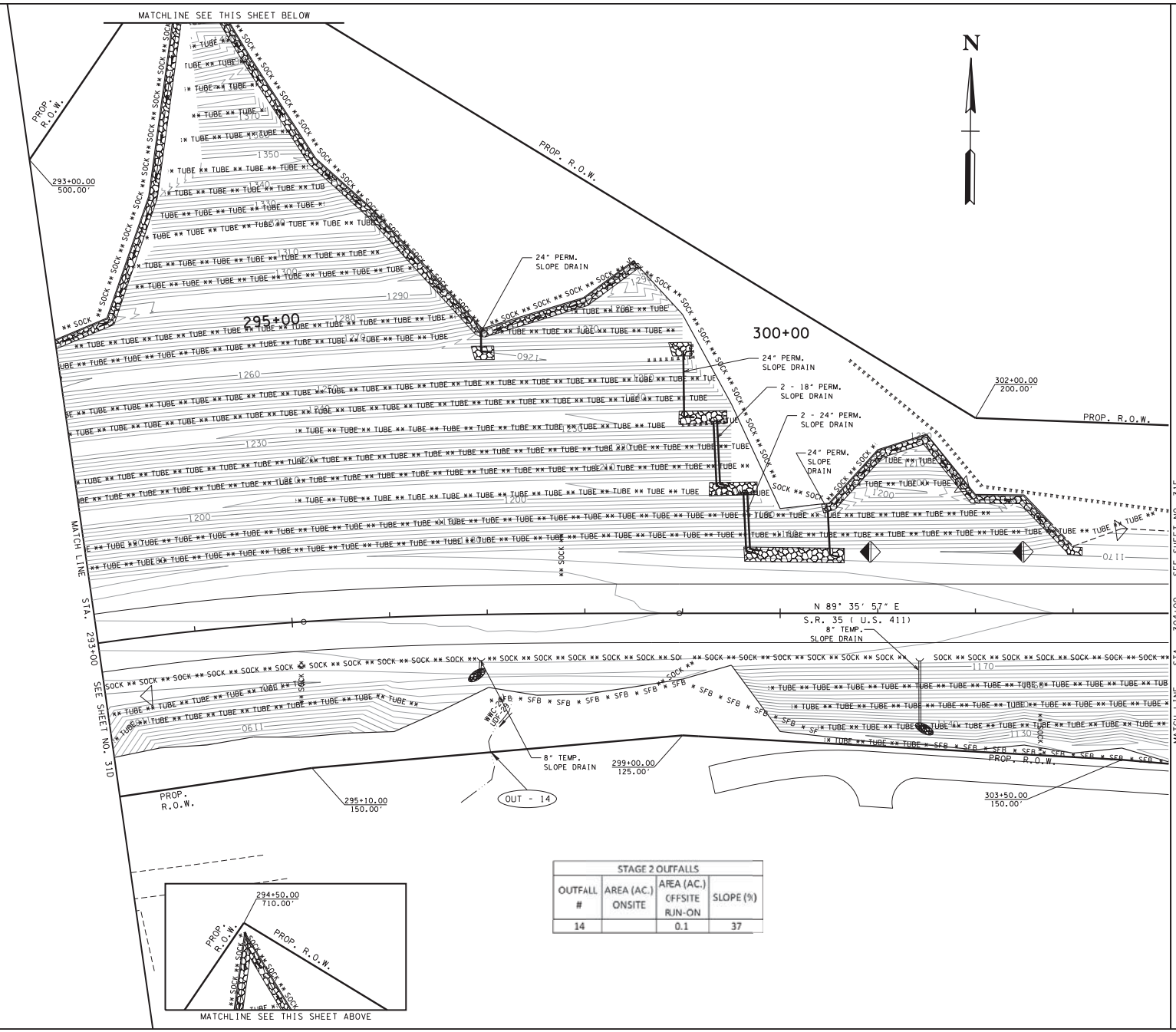

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
14		0.1	37

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57Y
CONST.	2017	STP-35(64)	31E

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.293+00 TO STA.304+00

SCALE: 1"= 50'

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WTL-10

LEGEND	WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.024 AC. VOLUME OF PERMANENT IMPACT = 39 C.Y.
	AREA OF TEMPORARY IMPACT = 0.000 AC. VOLUME OF TEMPORARY IMPACT = 0 C.Y.

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
15	10.1	42.1	2
~~15A~~	~~8.4~~		~~7~~
~~15B~~	~~1.8~~		~~2~~
15C	2.0		50
16	1.0		14
17	3.1	36.3	3
17A	2.8		41
17B	0.3		19
~~18~~		~~34.7~~	~~2~~

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57AA
CONST.	2017	STP-35(64)	31F

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

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UNOFFICIAL SET

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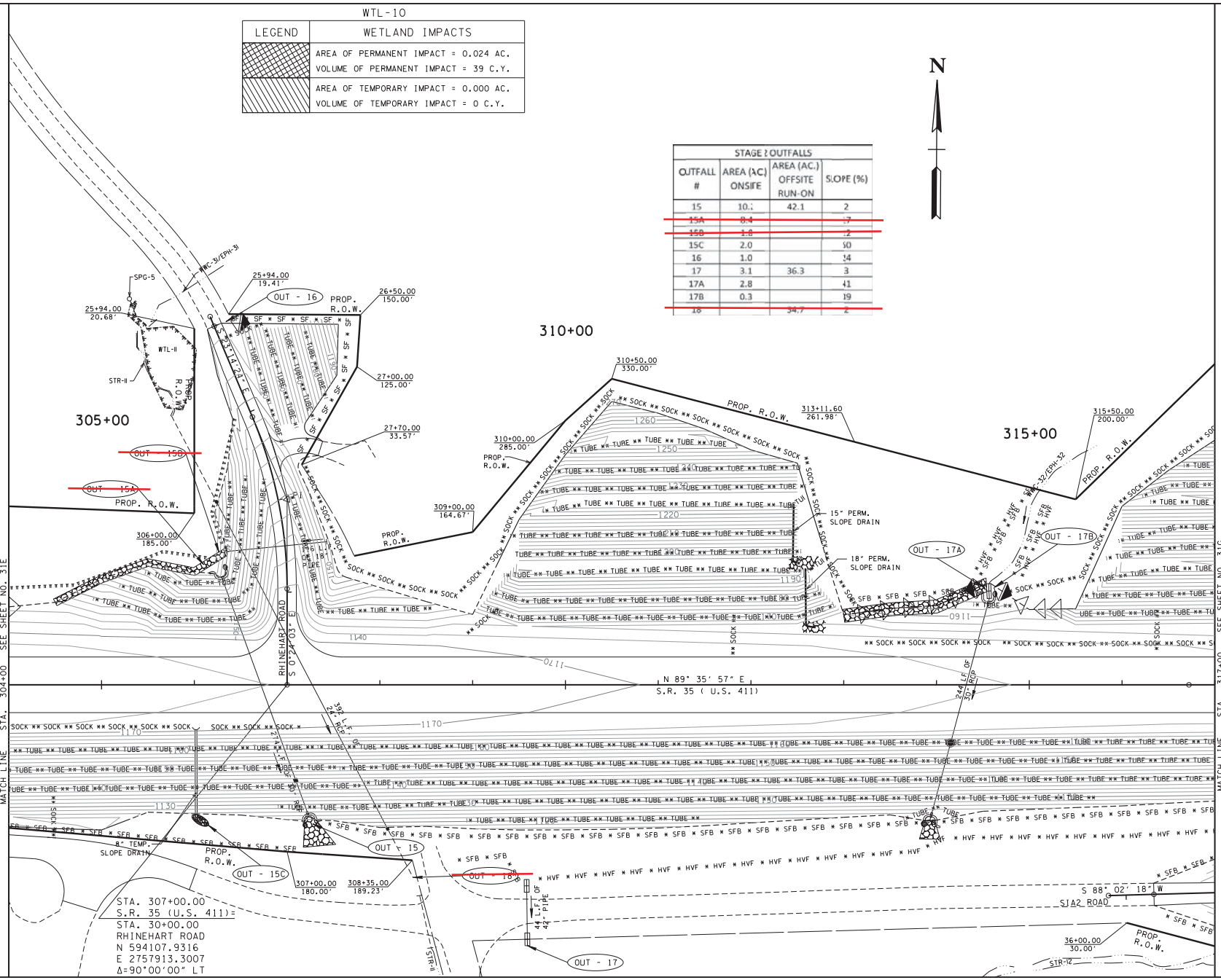
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.304+00 TO STA.317+00

SCALE: 1"= 50'



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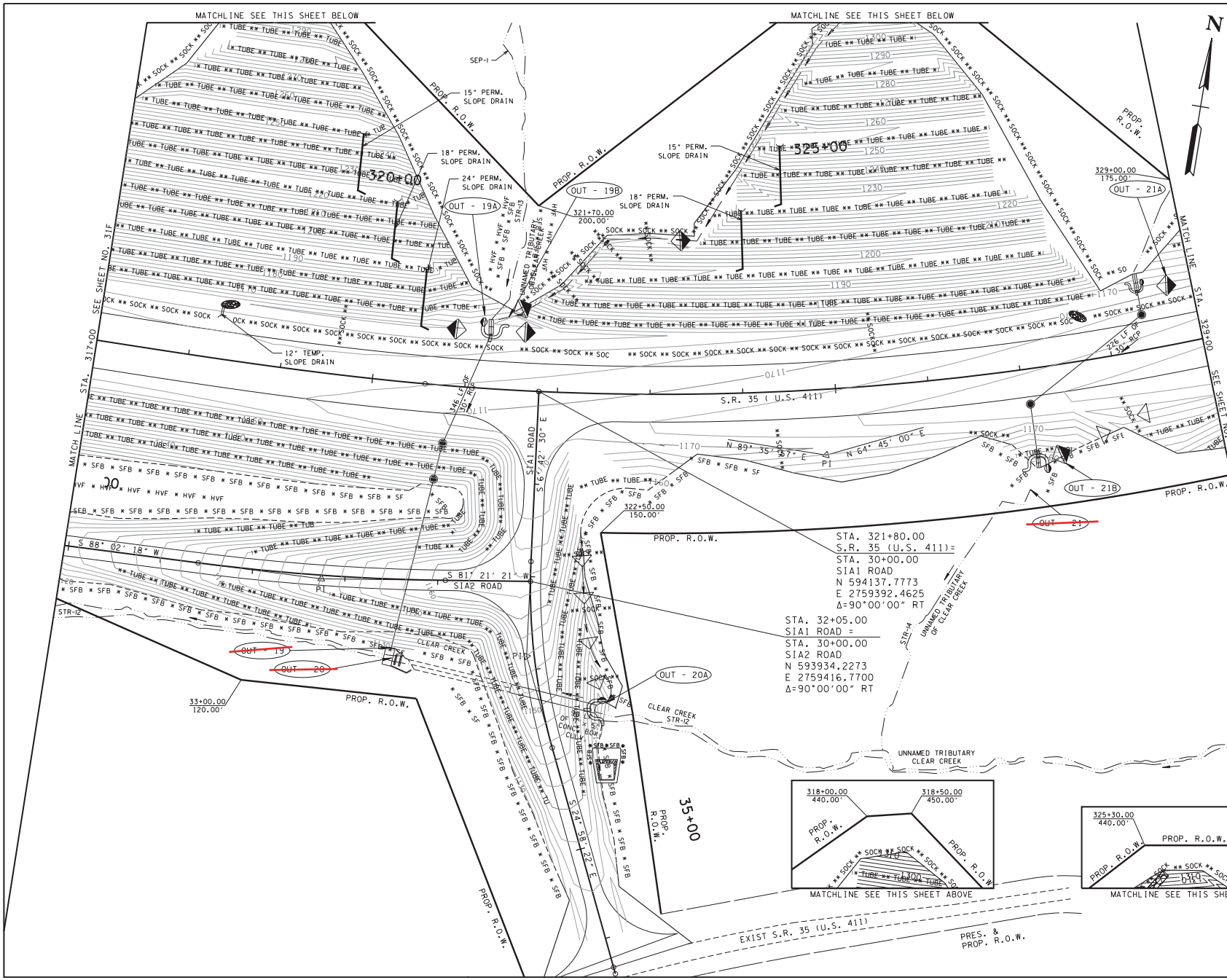

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57AB
CONST.	2017	STP-35(64)	31G

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

STAGE 2 OUTFALLS

OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
19	7.7	7.3	2
19A	3.6		18
19B	4.1		17
20	1.7	94.3	1
20A	1.7		12
21	2.2	11.8	1
21A	1.7		7
21B	0.5		12

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NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.317+00 TO STA.329+00

SCALE: 1"= 50'

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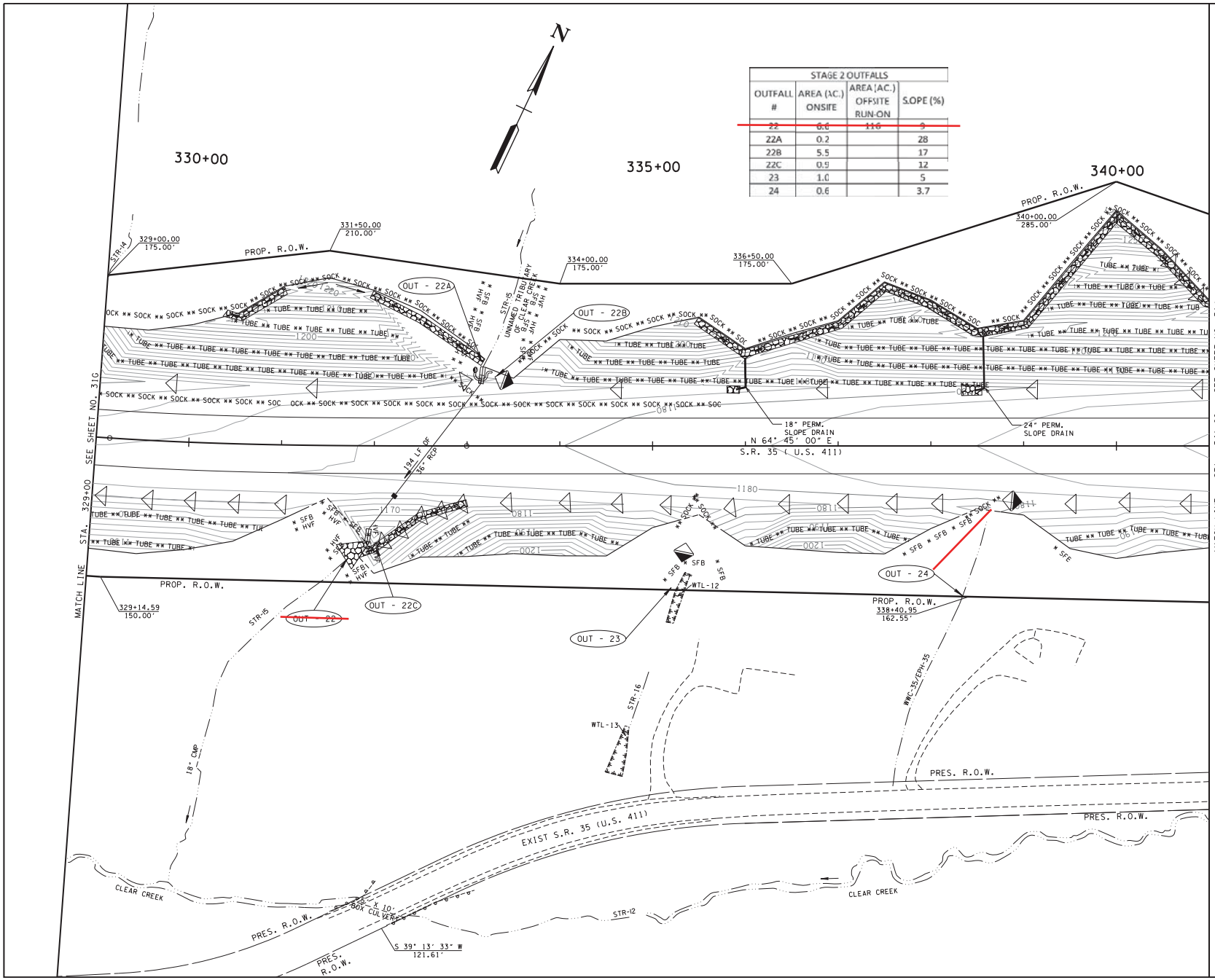

STAGE 2 OUTFALLS

OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
~~22~~	~~0.6~~	~~116~~	~~9~~
22A	0.2		28
22B	5.5		17
22C	0.9		12
23	1.0		5
24	0.6		3.7

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57AC
CONST.	2017	STP-35(64)	31H

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

SEALED BY

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.329+00 TO STA.341+00

SCALE: 1"= 50'

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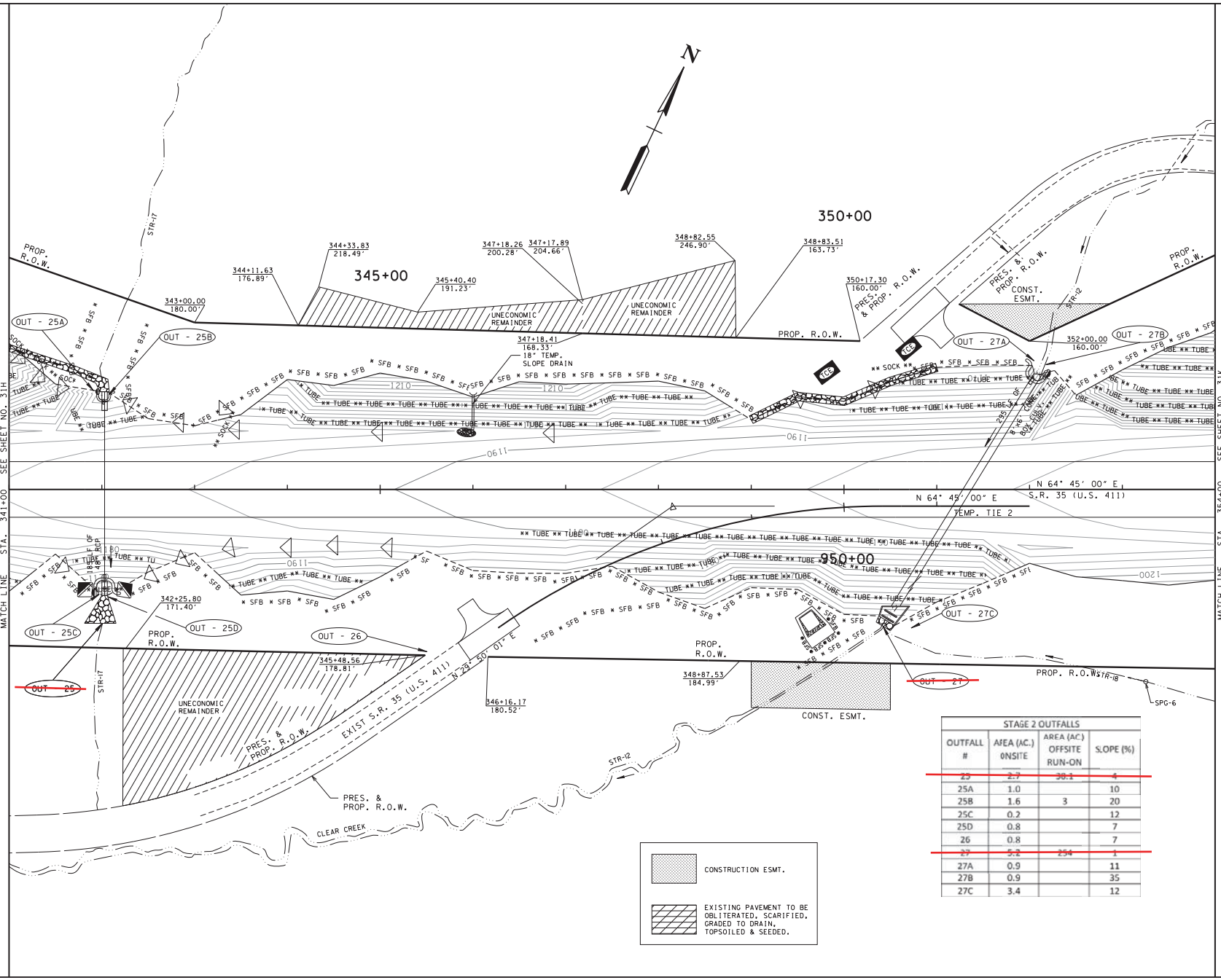

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
~~25~~	~~2.7~~	~~30.1~~	~~4~~
25A	1.0		10
25B	1.6	3	20
25C	0.2		12
25D	0.8		7
26	0.8		7
~~27~~	~~5.2~~	~~254~~	~~1~~
27A	0.9		11
27B	0.9		35
27C	3.4		12

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57AD
CONST.	2017	STP-35(64)	31J

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

SEALED BY

UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.341+00 TO STA.354+00

SCALE: 1"= 50'

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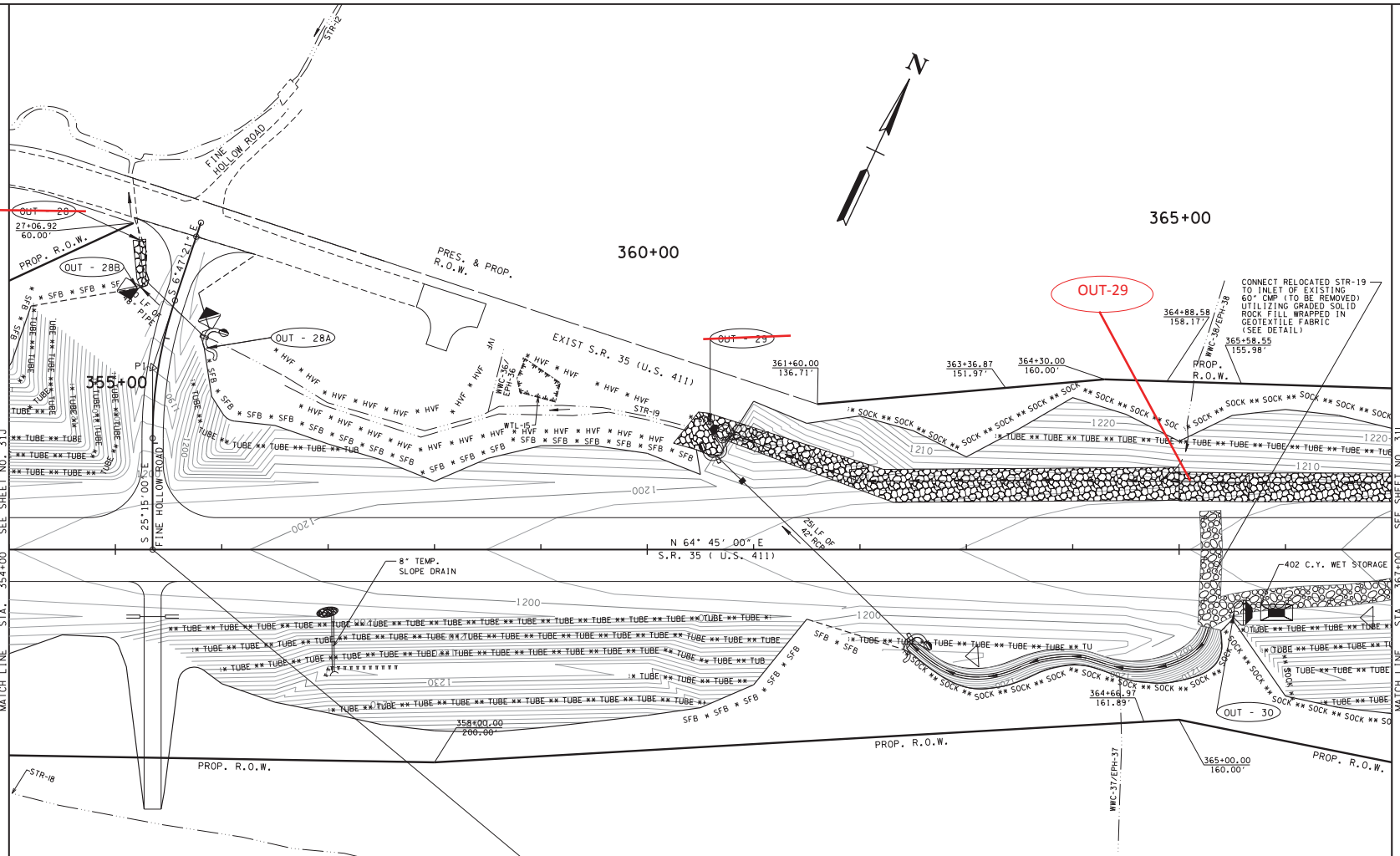

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
28	1.7	24.8	8
28A	1.3		40
28B	0.4		45
29	4.4 ~~5.4~~	~~14.8~~ 8.1	9
30	3.2	7.8	2

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57AE
CONST.	2017	STP-35(64)	31K

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

SEALED BY

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.354+00 TO STA.367+00

SCALE: 1"= 50'

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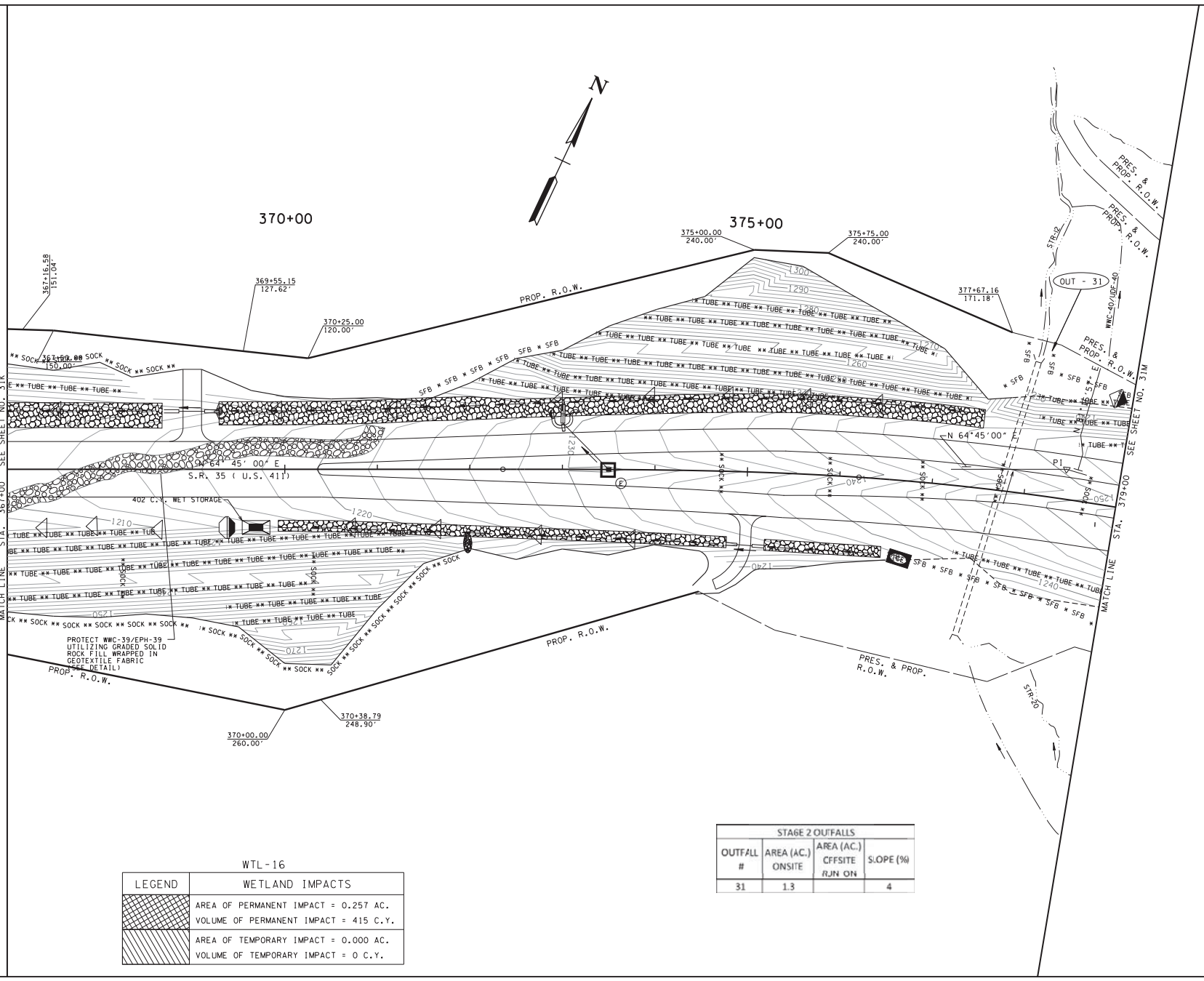

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57AF
CONST.	2017	STP-35(64)	31L

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

WTL-16

LEGEND	WETLAND IMPACTS
	AREA OF PERMANENT IMPACT = 0.257 AC. VOLUME OF PERMANENT IMPACT = 415 C.Y.
	AREA OF TEMPORARY IMPACT = 0.000 AC. VOLUME OF TEMPORARY IMPACT = 0 C.Y.

STAGE 2 OUTFALLS

OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN ON	SLOPE (%)
31	1.3		4

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UNOFFICIAL SET

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.367+00 TO STA.379+00

SCALE: 1"= 50'

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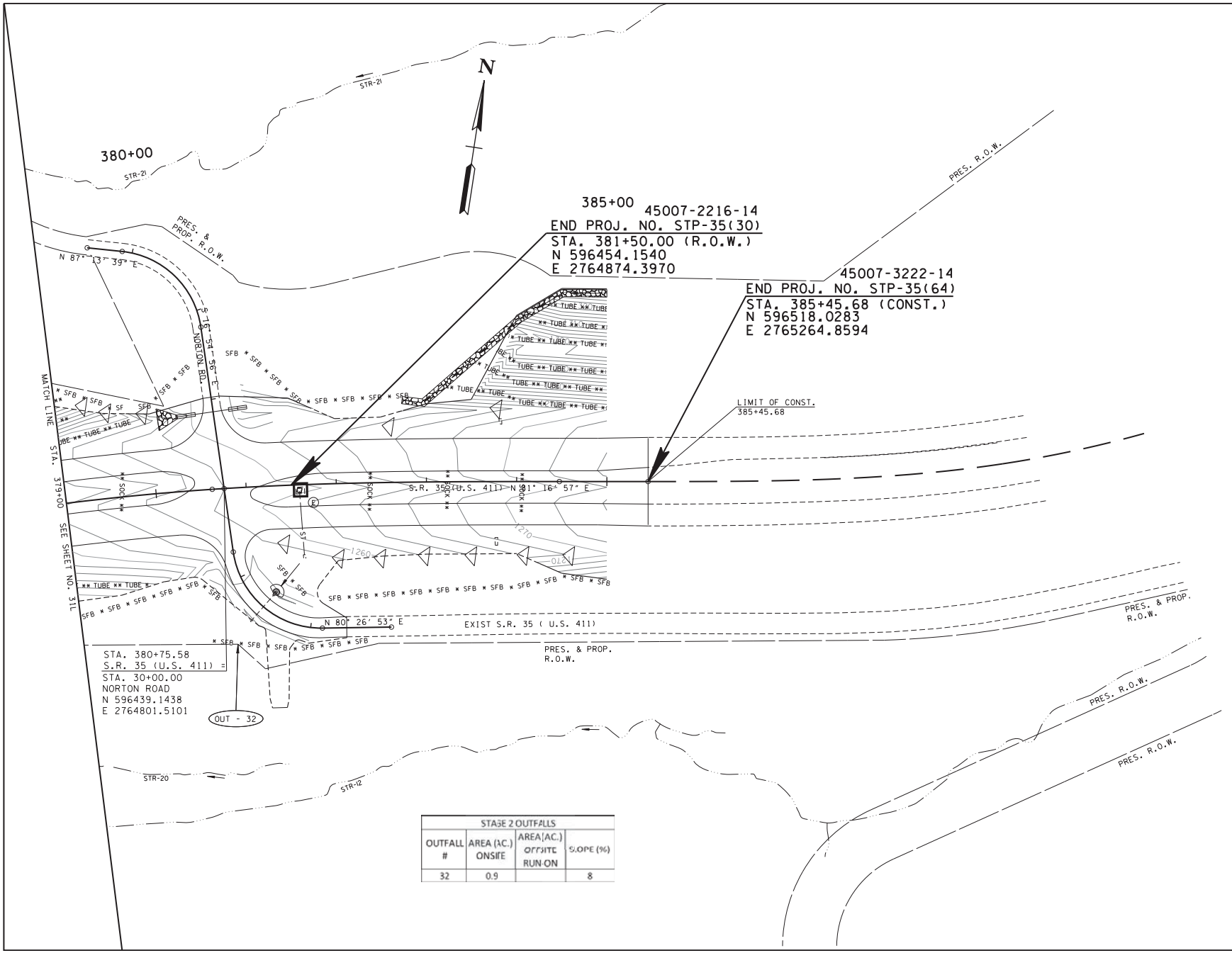

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
32	0.9		8

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	57AG
CONST.	2017	STP-35(64)	31M

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET ADDED.

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE II

STA.379+00 TO STA.391+00

SCALE: 1"= 50'

6/9/2017
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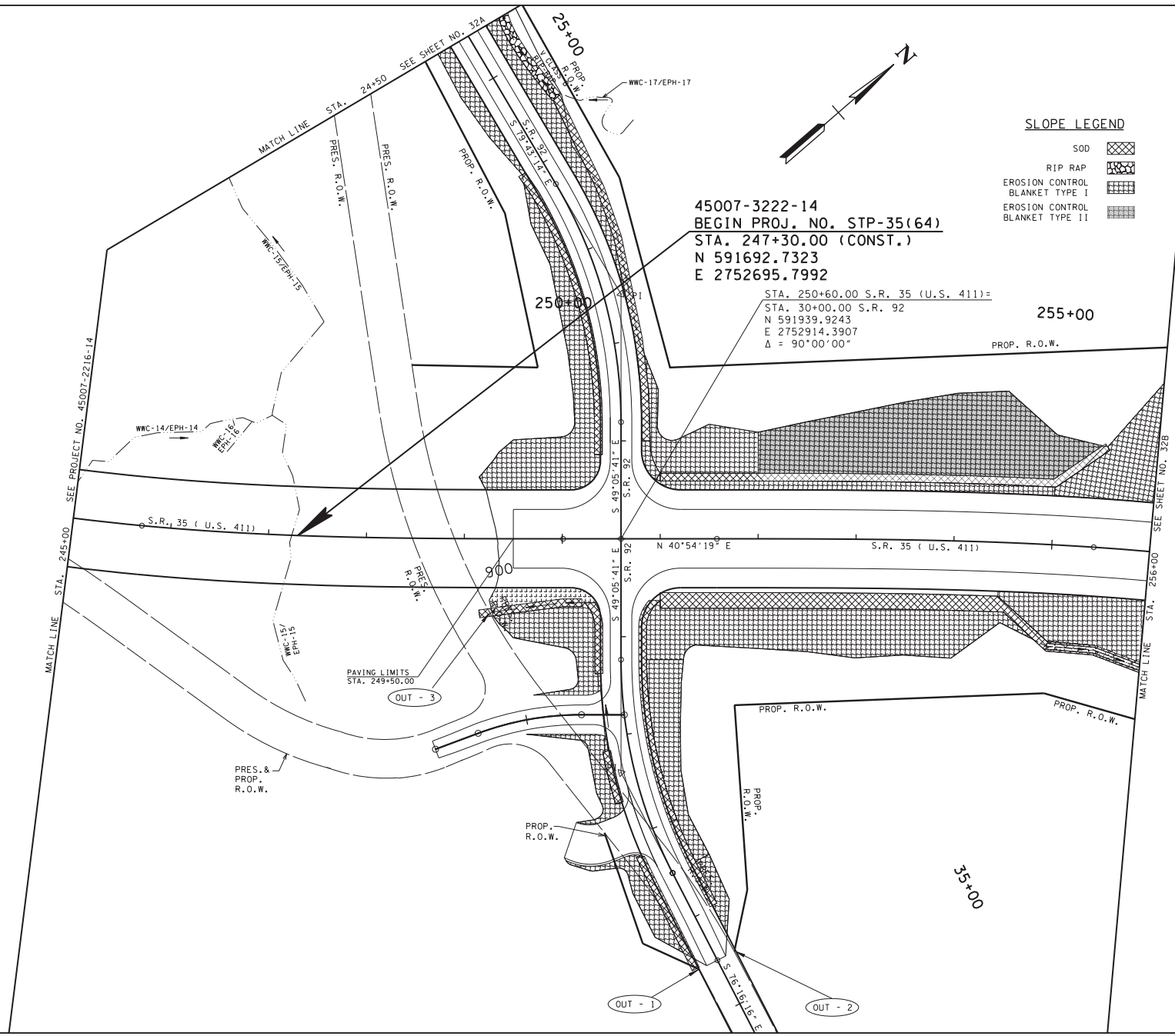

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58T
CONST.	2017	STP-35(64)	32

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
1	0.2		3.2
2	1.4		8
3	0.7		1

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.245+00 TO STA.256+00

SCALE: 1"= 50'

6/9/2017
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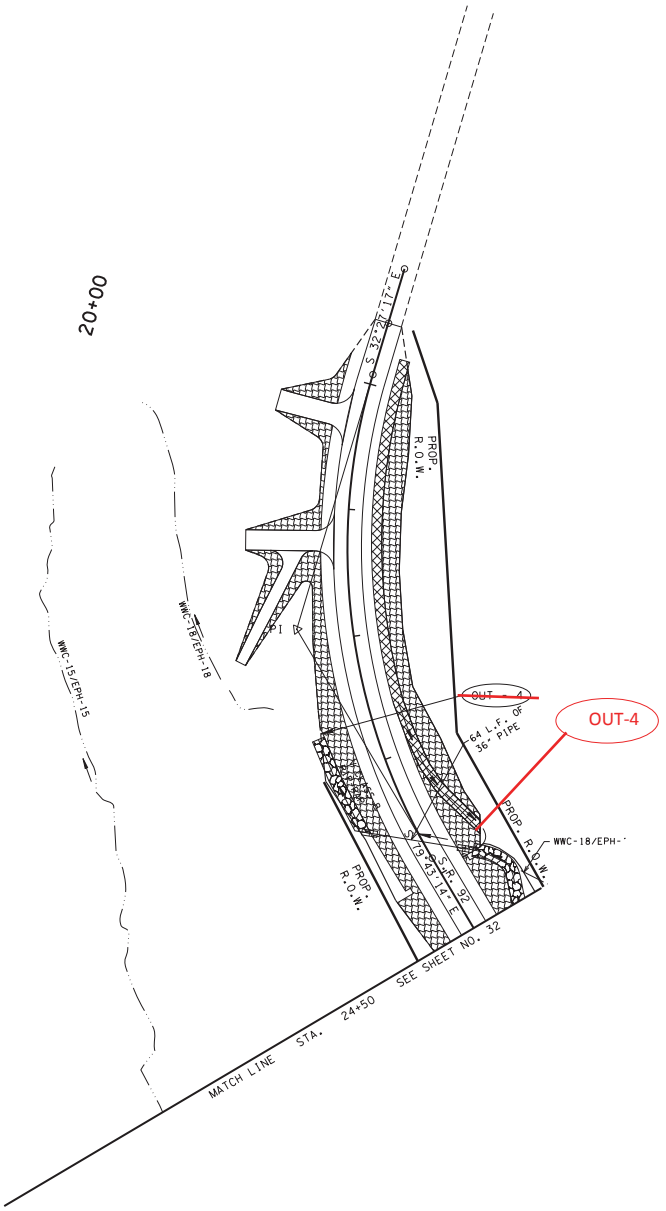
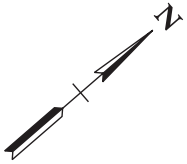
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58U
CONST.	2017	STP-35(64)	32A

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.





STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
4	9.3	2.2	8
	0.75	0.55	

SLOPE LEGEND

- SOD
- RIP RAP
- EROSION CONTROL BLANKET TYPE I
- EROSION CONTROL BLANKET TYPE II

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

S.R. 92
STA. 19+50 TO STA. 24+50
SCALE: 1"= 50'

6/9/2017
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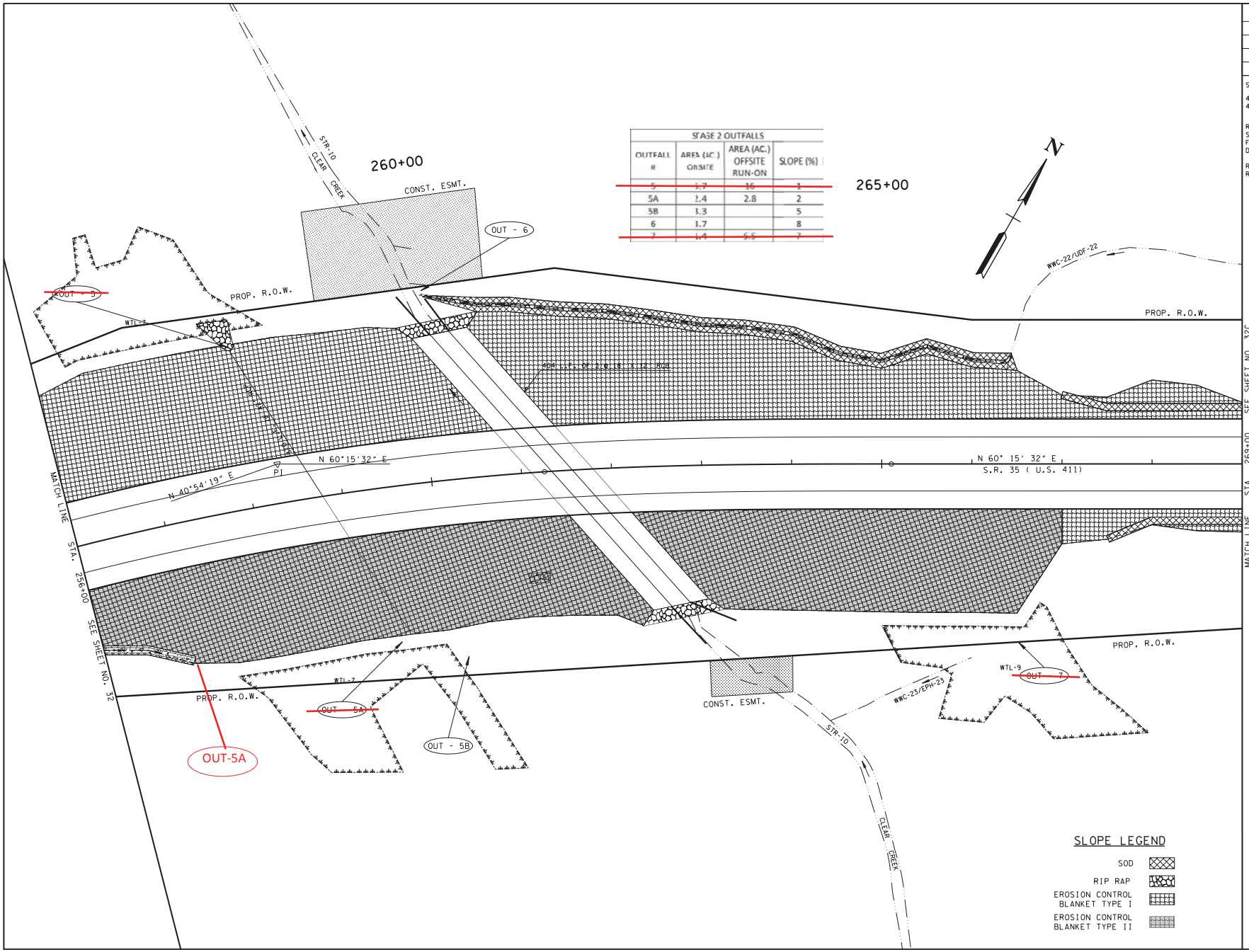

STAGE 2 OUTFALLS

OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
~~5~~	~~5.7~~	~~16~~	~~1~~
5A	2.4	2.8	2
5B	3.3		5
6	3.7		8
~~7~~	~~1.4~~	~~5.5~~	~~7~~

SLOPE LEGEND

- SOD
- RIP RAP
- EROSION CONTROL BLANKET TYPE I
- EROSION CONTROL BLANKET TYPE II

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58V
CONST.	2017	STP-35(64)	32B

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 5/25/06: ADDED CONTOURS TO THIS SHEET. MOD. CB PROTECTION. MOD. SILT FENCE RT. REM. CHECK DAM RT. ADDED DIVERSION CHANNEL FOR CLEAR CREEK.

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.256+00 TO STA.269+00

SCALE: 1"= 50'

6/9/2017
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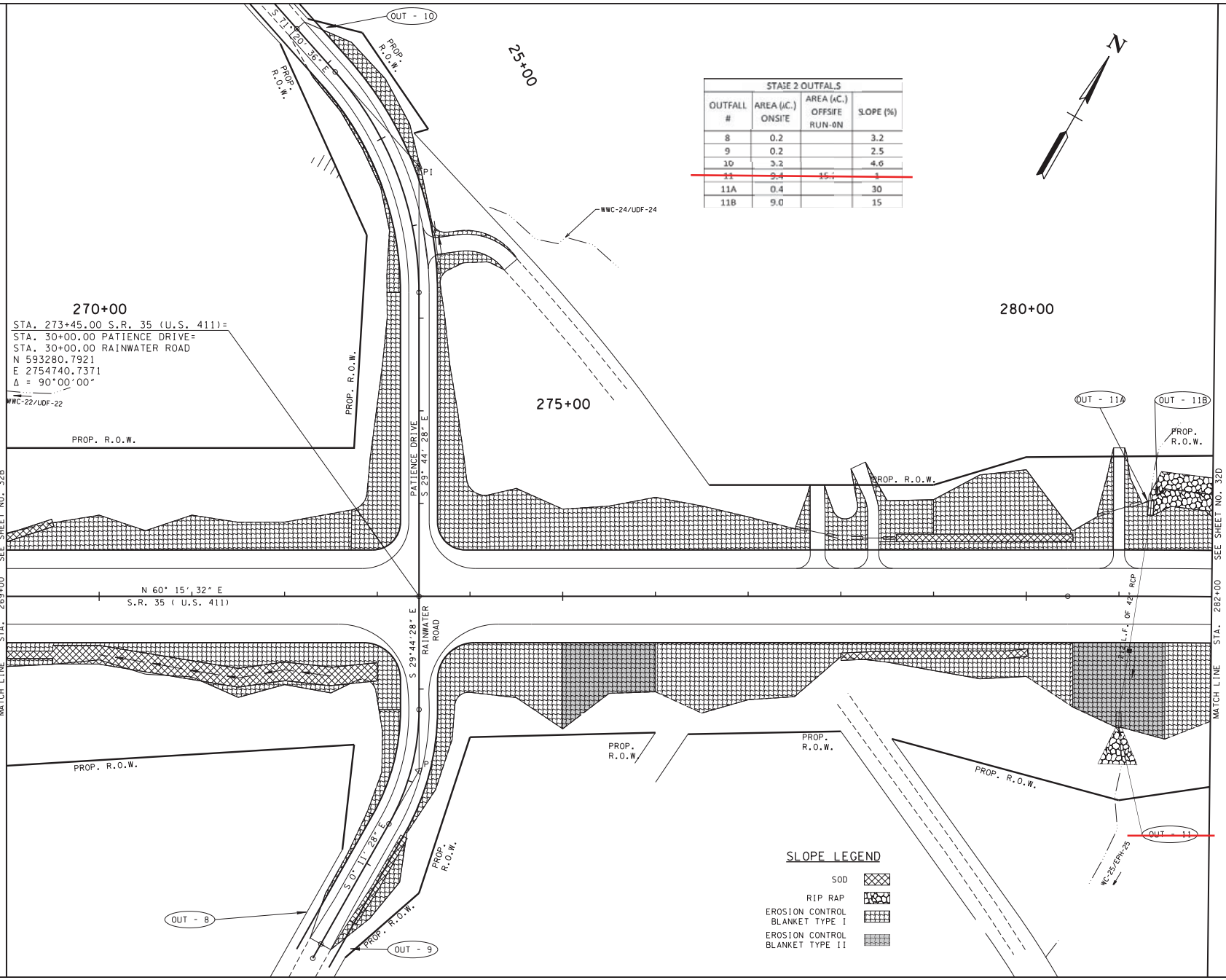

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58W
CONST.	2017	STP-35(64)	32C

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.269+00 TO STA.282+00

SCALE: 1"= 50'

6/9/2017
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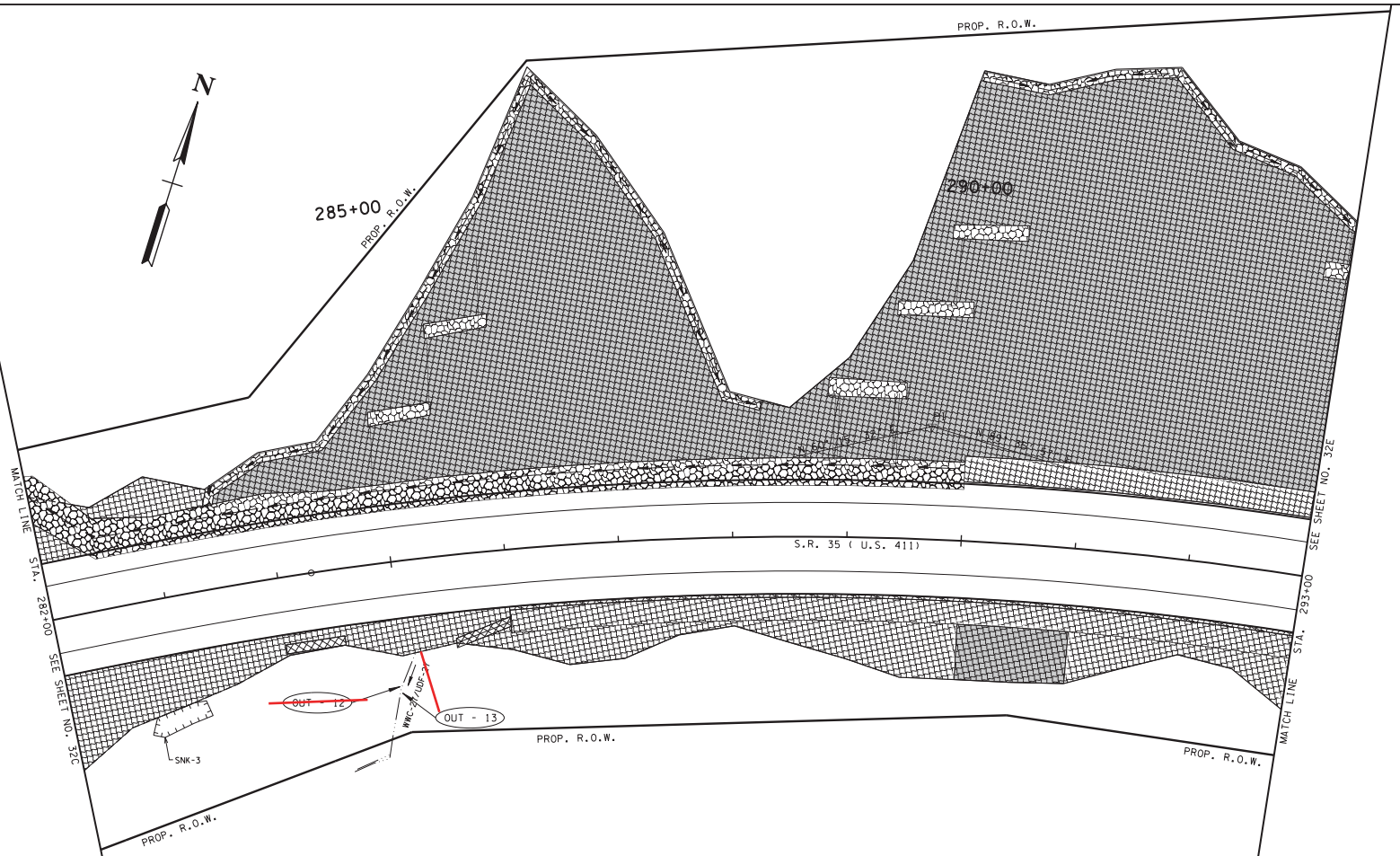

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
~~12~~	~~3.7~~		~~2.5~~
13		8.2	29

SLOPE LEGEND

- SOD
- RIP RAP
- EROSION CONTROL BLANKET TYPE I
- EROSION CONTROL BLANKET TYPE II

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58X
CONST.	2017	STP-35(64)	32D

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.282+00 TO STA.293+00

SCALE: 1"= 50'

6/9/2017
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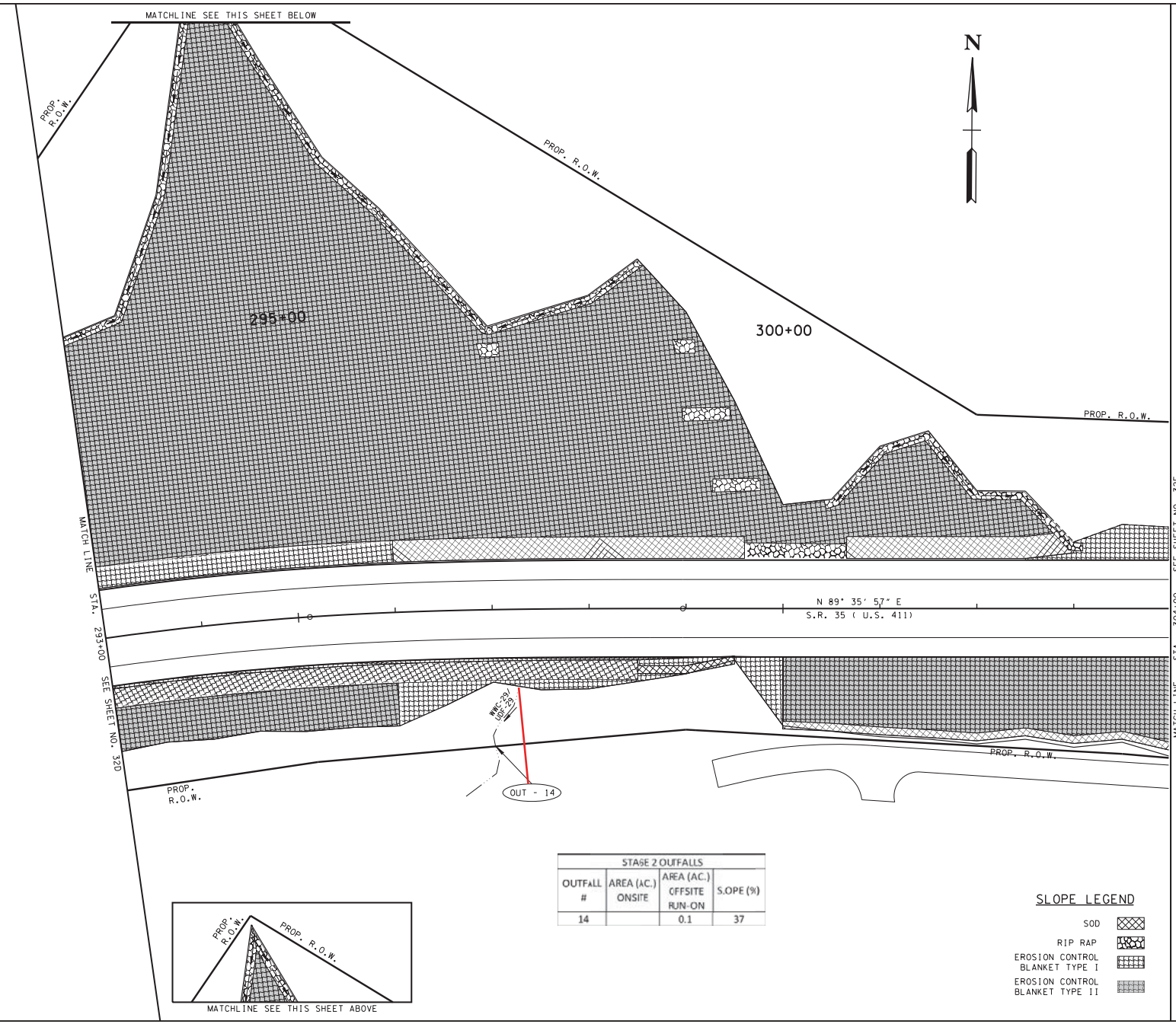

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
14		0.1	37

SLOPE LEGEND

- SOD
- RIP RAP
- EROSION CONTROL BLANKET TYPE I
- EROSION CONTROL BLANKET TYPE II

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58Y
CONST.	2017	STP-35(64)	32E

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.293+00 TO STA.304+00

SCALE: 1"= 50'

6/9/2017
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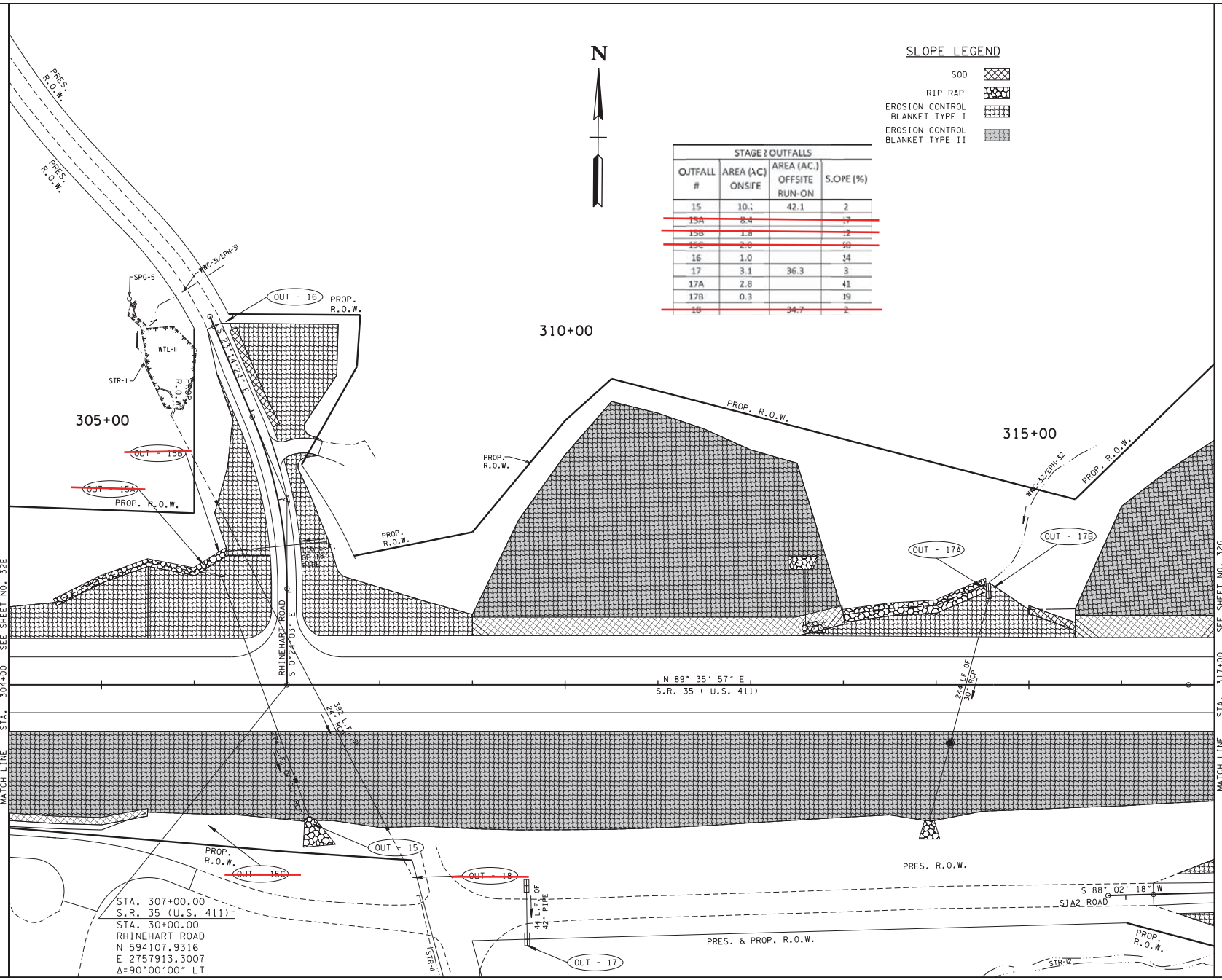

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58AA
CONST.	2017	STP-35(64)	32F

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.304+00 TO STA.317+00

SCALE: 1"= 50'

6/9/2017
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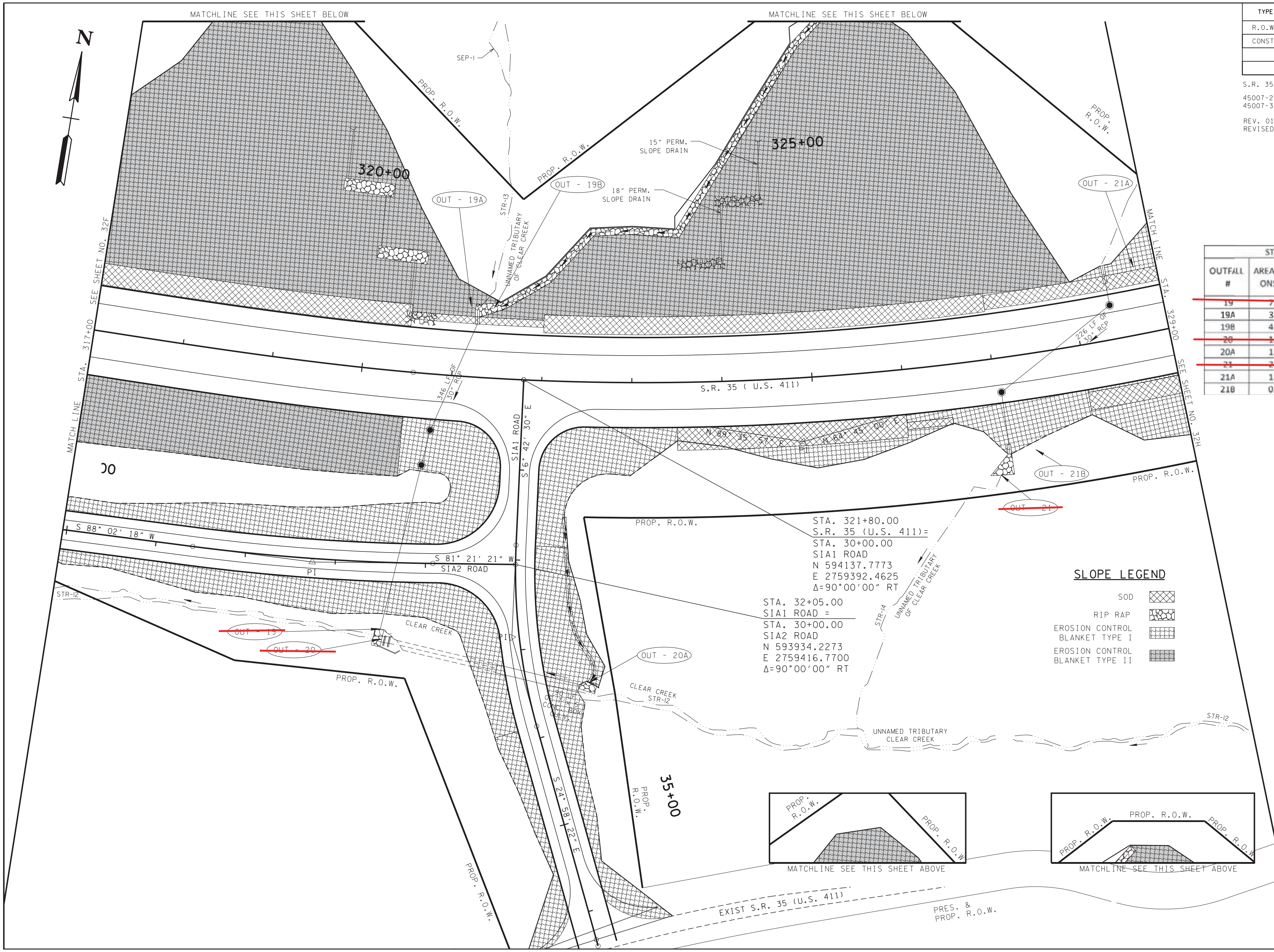
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58AB
CONST.	2017	STP-35(64)	32G

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.



STAGE 2 OUTFALLS

OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
~~19~~	~~7.7~~	~~7.3~~	~~2~~
19A	3.6		18
19B	4.1		17
~~20~~	~~1.7~~	~~94.3~~	~~1~~
20A	1.7		12
~~21~~	~~2.2~~	~~11.8~~	~~1~~
21A	1.7		7
21B	0.5		12

SLOPE LEGEND

SOD

RIP RAP

EROSION CONTROL BLANKET TYPE I

EROSION CONTROL BLANKET TYPE II

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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.317+00 TO STA.329+00
SCALE: 1"= 50'

6/9/2017
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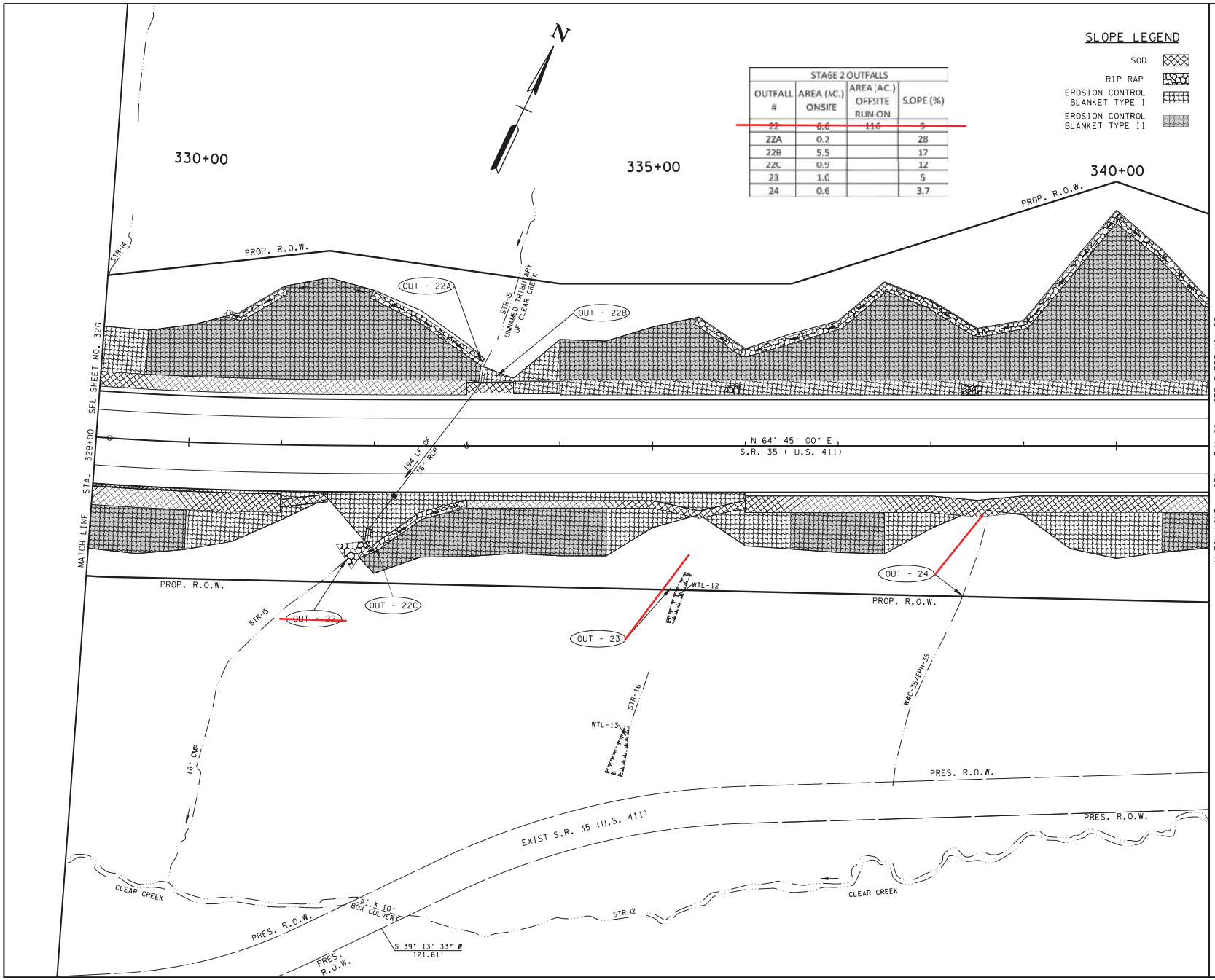

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
~~22~~	~~0.6~~	~~116~~	~~9~~
22A	0.2		28
22B	5.5		17
22C	0.9		12
23	1.0		5
24	0.6		3.7

SLOPE LEGEND

- SOD
- RIP RAP
- EROSION CONTROL BLANKET TYPE I
- EROSION CONTROL BLANKET TYPE II

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58AC
CONST.	2017	STP-35(64)	32H

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.329+00 TO STA.341+00

SCALE: 1"= 50'

6/9/2017
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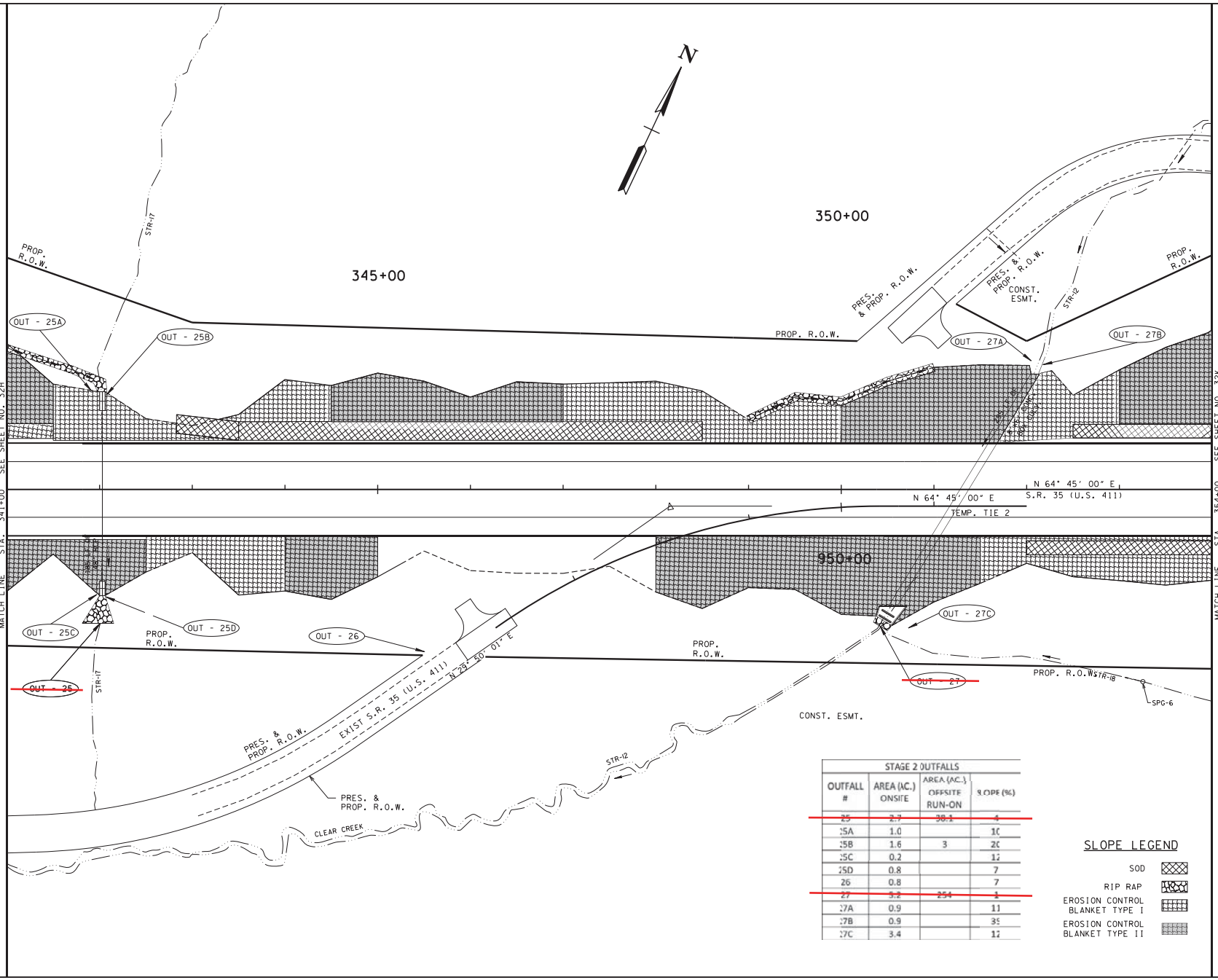

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
~~25~~	~~2.7~~	~~38.1~~	~~4~~
25A	1.0		10
25B	1.6	3	20
25C	0.2		12
25D	0.8		7
26	0.8		7
~~27~~	~~3.2~~	~~254~~	~~1~~
27A	0.9		11
27B	0.9		35
27C	3.4		12

SLOPE LEGEND

- SOD
- RIP RAP
- EROSION CONTROL BLANKET TYPE I
- EROSION CONTROL BLANKET TYPE II

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58AD
CONST.	2017	STP-35(64)	32J

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.341+00 TO STA.354+00

SCALE: 1"= 50'

6/9/2017
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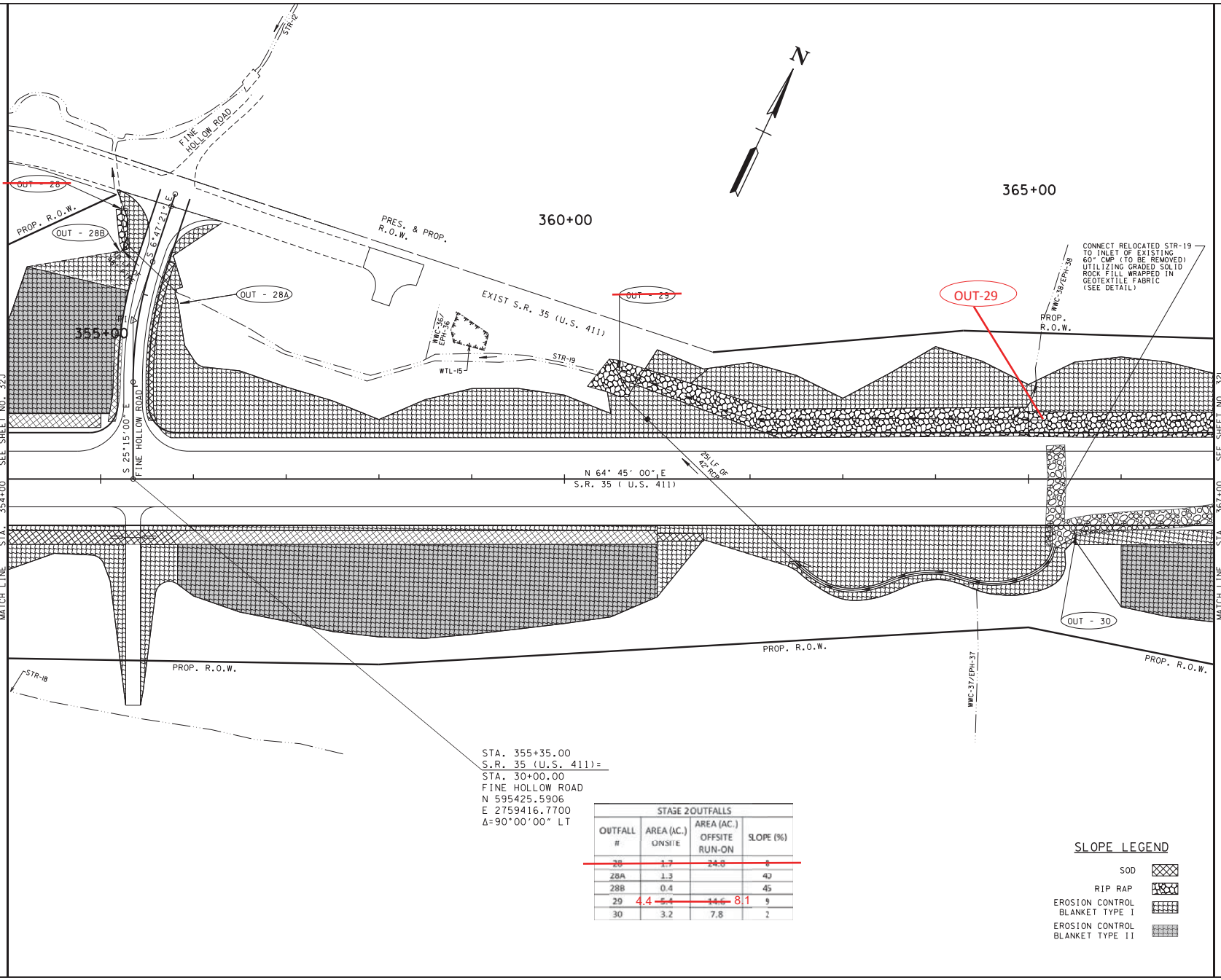

STA. 355+35.00
S.R. 35 (U.S. 411)=
STA. 30+00.00
FINE HOLLOW ROAD
N 595425.5906
E 2759416.7700
Δ=90°00'00" LT

STAGE 2 OUTFALLS

OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
~~28~~	~~1.7~~	~~24.8~~	~~8~~
28A	1.3		40
28B	0.4		45
~~29~~	4.4 ~~5.4~~	~~14.6~~ 8.1	9
30	3.2	7.8	2

SLOPE LEGEND

- SOD
- RIP RAP
- EROSION CONTROL BLANKET TYPE I
- EROSION CONTROL BLANKET TYPE II

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58AE
CONST.	2017	STP-35(64)	32K

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.354+00 TO STA.367+00

SCALE: 1"= 50'

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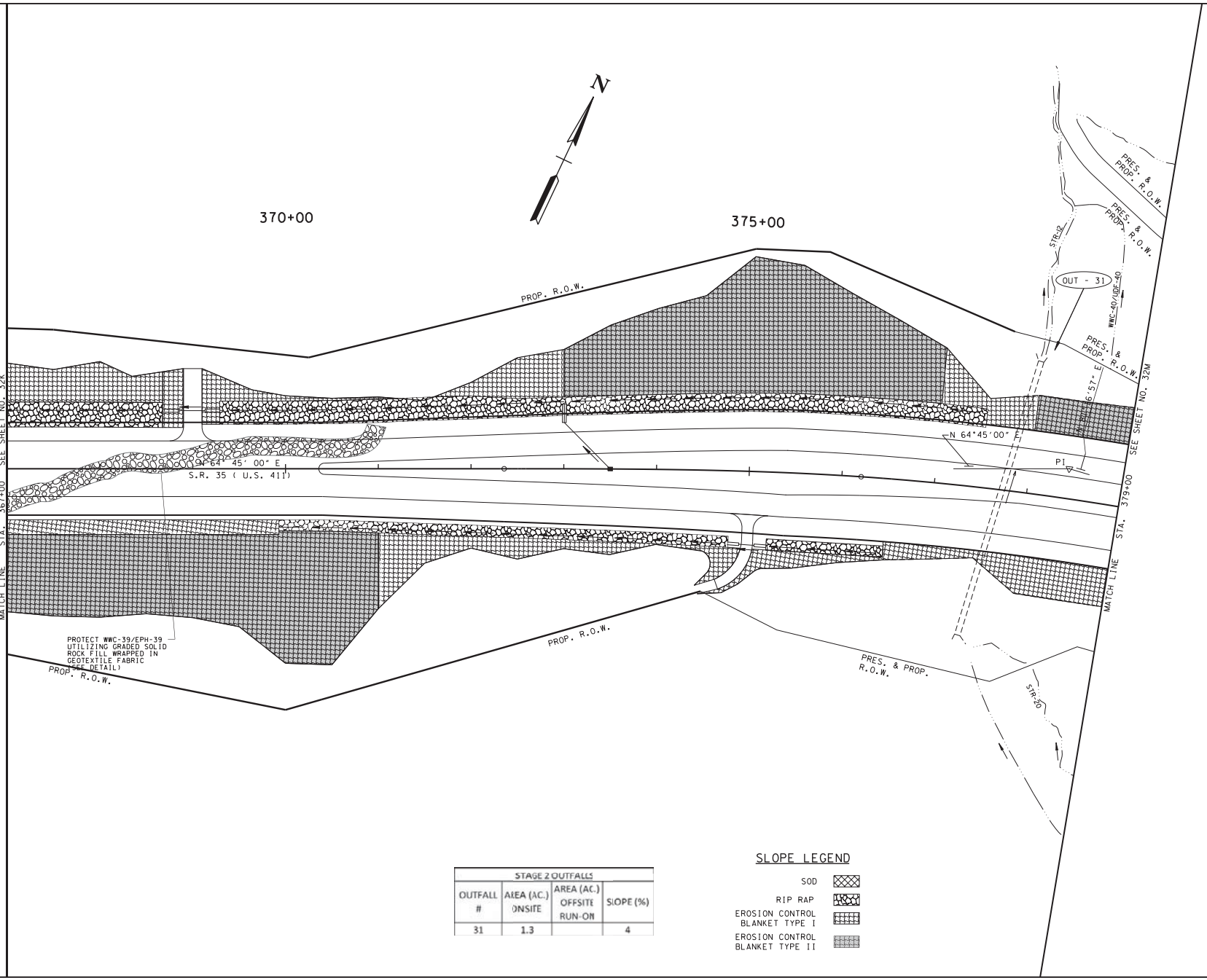

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
31	1.3		4

SLOPE LEGEND

- SOD
- RIP RAP
- EROSION CONTROL BLANKET TYPE I
- EROSION CONTROL BLANKET TYPE II

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58AF
CONST.	2017	STP-35(64)	32L

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.367+00 TO STA.379+00

SCALE: 1"= 50'

6/9/2017
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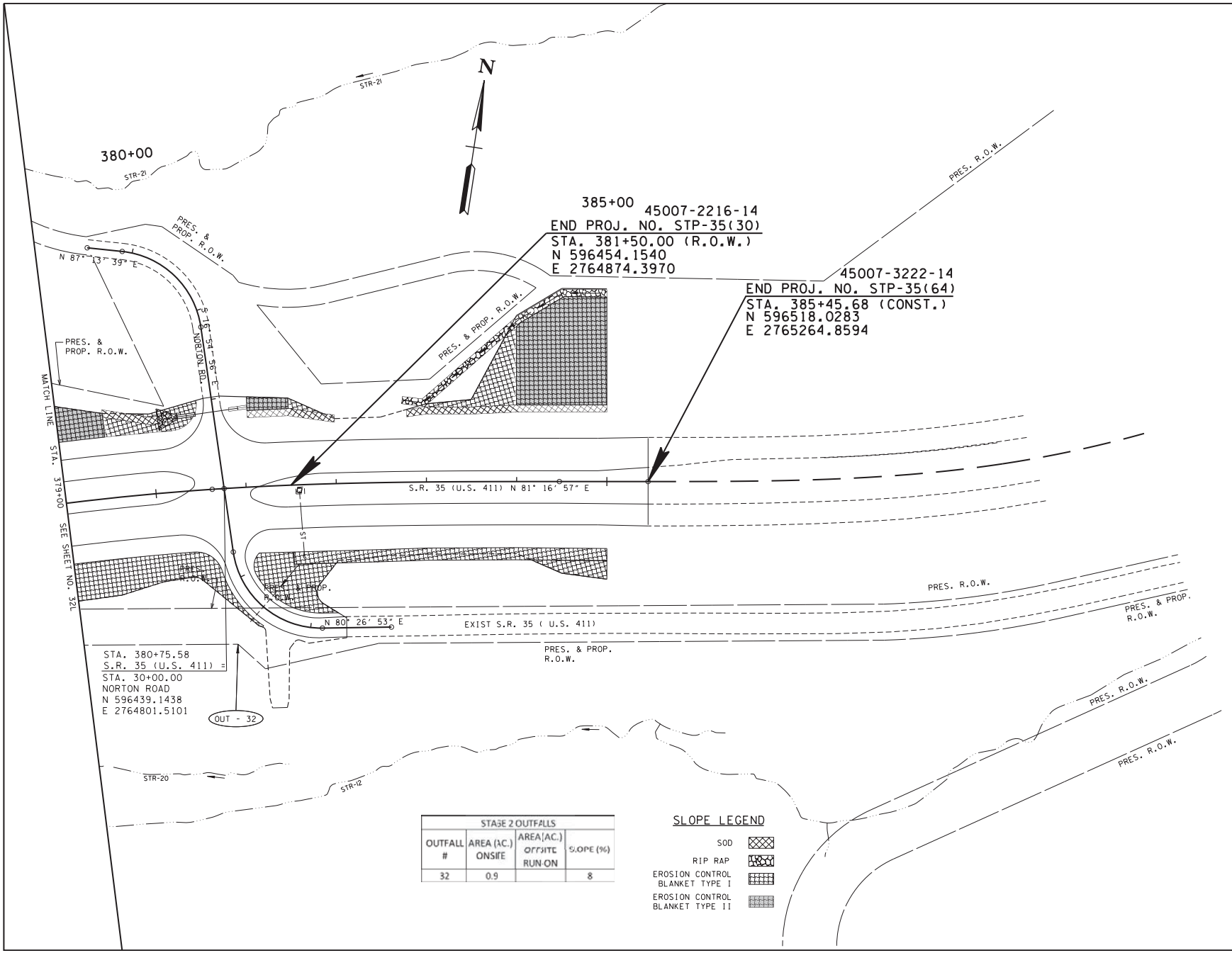

STAGE 2 OUTFALLS			
OUTFALL #	AREA (AC.) ONSITE	AREA (AC.) OFFSITE RUN-ON	SLOPE (%)
32	0.9		8

SLOPE LEGEND

- SOD
- RIP RAP
- EROSION CONTROL BLANKET TYPE I
- EROSION CONTROL BLANKET TYPE II

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2004	STP-35(30)	58AG
CONST.	2017	STP-35(64)	32M

S.R. 35 JEFFERSON COUNTY

45007-2216-14 (R.O.W.)
45007-3222-14 (CONST.)

REV. 01/15/16: TYPICAL SECTION REVISED AND SHEET UPDATED.

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN STAGE III

STA.379+00 TO STA.391+00

SCALE: 1"= 50'

6/9/2017
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