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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2018	79024-1286-04	
CONST.	2018	STP-14 (63)	S-1

SWPPP INDEX OF SHEETS

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

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

1. SWPPP REQUIREMENTS (3.0)

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

☒ YES (CHECK ALL THAT APPLY BELOW) OR ☐ NO

- ☒ CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
- ☐ A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
- ☒ HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

1.2. DO THE EPSC PLANS INVOLVE STRUCTURAL DESIGN, HYDRAULIC, HYDROLOGIC OR OTHER ENGINEERING CALCULATIONS FOR EPSC STRUCTURAL MEASURES (E.G. SEDIMENT BASINS) (3.1.1)? YES ☒ NO ☐

IF YES, HAVE THE EPSC PLANS BEEN PREPARED, STAMPED AND CERTIFIED BY A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT? ☒ YES ☐ NO

1.3. DO THE PROJECT STORMWATER OUTFALLS DIRECTLY DISCHARGE INTO THE FOLLOWING (5.4.1)? ☒ YES (CHECK ALL THAT APPLY BELOW) ☐ NO

- ☒ WATERS WITH UNAVAILABLE PARAMETERS (303d FOR SILTATION OR HABITAT ALTERATION)
- ☐ EXCEPTIONAL TENNESSEE WATERS

IF YES TO SECTION 1.3, HAS THE SWPPP TEMPLATE BEEN PREPARED BY AN INDIVIDUAL THAT HAS THE FOLLOWING LICENSING AND/OR CERTIFICATIONS (5.4.1.b)?

☒ YES (CHECK ALL THAT APPLY BELOW) ☐ NO

- ☒ CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC)
- ☐ A TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT
- ☒ HAS SUCCESSFULLY COMPLETED TDEC LEVEL II COURSE

2. SITE DESCRIPTION (3.5.1)

2.1. PROJECT LIMITS (3.5.1.h): REFER TO TITLE SHEET

2.2. PROJECT DESCRIPTION (3.5.1.a):

TITLE: SR-14; FROM SR-385 (PAUL BARRETT PKWY.) TO KERRVILLE-ROSEMARK ROAD
COUNTY: SHELBY
PIN: 100341.02

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) 80-81Y, DRAINAGE MAP SHEET(S) 49-52, 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): 171.6 ACRES

2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 158.6 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: 1B, 2E

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

☒ YES 2007 (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)
Ca–Calloway Silt Loam	D	12.5	.49
Fm–Falaya Silt Loam	D	12.4	.49
GaB2–Grenada Silt Loam, eroded	C	3.5	.49
GaB–Grenada Silt Loam	D	14.5	.55
He–Henry Silt Loam	D	16.4	.55
LoB–Loring Silt Loam	C	0.3	.49
LoB2–Loring Silt Loam, eroded	D	2.6	.55
W–Water	–	1.2	–
Wv–Waverly Silt Loam	D	36.6	.49

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	28.4	17	98	
PERVIOUS	143.2	83	81	
WEIGHTED CURVE NUMBER OR C-FACTOR =			84	

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	51.5	30	98	
PERVIOUS	120.1	70	82	
WEIGHTED CURVE NUMBER OR C-FACTOR =			87	

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 5,9,16,80A, 80E, 81, 81A, 81E, 81H, 81J, 81K, 81M, 81R, 81S, 81U, 81W, 81X, 82M)

3.2. INSTALL STABILIZED CONSTRUCTION EXITS.

3.3. INSTALL PERIMETER PROTECTION WHERE RUNOFF SHEET FLOWS FROM THE SITE.

3.4. INSTALL INITIAL EPSC MEASURES BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CULVERT OR BRIDGE CONSTRUCTION, CUTTING, FILLING, OR ANY OTHER EARTHWORK OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.

3.5. PERFORM CLEARING AND GRUBBING (NOT MORE THAN 14 DAYS PRIOR TO GRADING OR EARTH-MOVING. REFER TO THE STABILIZATION PRACTICES BELOW.).

3.6. REMOVE AND STORE TOPSOIL.

3.7. STABILIZE DISTURBED AREAS WITHIN 14 DAYS OF COMPLETING ANY STAGE AND/OR PHASE OF ACTIVITY.

3.8. INSTALL UTILITIES, STORM SEWERS, CULVERTS AND BRIDGE STRUCTURES.

3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.

3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

3.13. COMPLETE FINAL STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)

3.14. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.

3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

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

4.1. STREAM INFORMATION (3.5.1.j, 3.5.1.k)

4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? ☒ YES ☐ NO

IF YES, THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.

4.1.2. HAVE ANY OF THE RECEIVING STATE WATERS LESS THAN OR EQUAL TO 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY):

- ☒ 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION
- ☒ 303d WITH UNAVAILABLE PARAMETERS FOR HABITAT ALTERATION
- ☐ EXCEPTIONAL TENNESSEE WATERS (ETW)

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.	2018	79024-1286-04	
CONST.	2018	STP-14 (63)	S-2

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

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-1	MISC. TRIB TO BIG CREEK	NO	NO	YES	YES
STR-2	MISC. TRIB TO BIG CREEK	NO	NO	YES	YES
STR-3	MISC. TRIB TO BIG CREEK	NO	NO	YES	YES
STR-4	CROOKED CREEK CANAL	YES	NO	YES	YES
STR-5	CROOKED CREEK CANAL	YES	NO	YES	YES
STR-6	CROOKED CREEK CANAL	YES	NO	YES	YES
STR-7	TRIB. TO CROOKED CREEK CANAL	NO	NO	YES	YES
STR-8	TRIB. TO WEST BEAVER CREEK	YES	NO	YES	YES
STR-9	TRIB. TO WEST BEAVER CREEK	YES	NO	YES	YES
STR-10	TRIB. TO WEST BEAVER CREEK	YES	NO	YES	YES
STR-11	TRIB. TO WEST BEAVER CREEK	NO	NO	YES	YES
STR-12	CROOKED CREEK CANAL	YES	NO	NO	YES

4.1.4. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES REQUIRED FOR WATERS OF THE STATE? (4.1.2, 5.4.2)

☐ YES ☒ 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)
N/A	N/A	N/A

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

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

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

4.2.2. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR WOTUS (EPHEMERAL) DUE TO A USACE PERMIT?

☐ YES ☒ NO

4.3. OUTFALL INFORMATION

4.3.1. OUTFALL TABLE (3.5.1.e). SEE SWPPP SHEET S-8–S-11 FOR OUTFALL INFORMATION.

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

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

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

☒ YES ☐ NO ☐ N/A

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

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

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

OR

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

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

4.4. WETLAND INFORMATION

WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WETLANDS? ☒ YES ☐ NO

IF YES, THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND IN THE WATER QUALITY PERMITS.

WETLAND INFORMATION				
TDOT WETLAND LABEL	FROM STATION LT OR RT	TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)
WTL-1	300+00 RT	303+12.41 RT	0.00	0.09
WTL-2	304+50.76 LT	316+29.92 LT	0.00	1.01
WTL-3	307+24.29 RT	317+37.00 RT	0.00	1.27
WTL-4	325+70.00 RT	355+54.28 RT	0.00	1.49
WTL-5	342+3.33 LT	348+47.27 LT	0.00	1.24
WTL-6	363+61.82 LT	364+60.00 LT	0.00	0.16
WTL-7	457+85.00 RT	466+95.00 LT	0.00	1.50
WTL-8	522+32.00 LT	523+23.34 LT	0.00	0.06
WTL-9	541+17.74 LT	541+63.50 LT	0.00	0.04
WTL-15	8+81.60 LT/RT DONNELL RD RT	1+65.33 LT/RT DONNELL RD RT	0.00	1.70

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) 2D.

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) 1B.

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

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

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

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

☒YES ☐ NO

5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 5-YEAR, 24 HOUR STORM EVENT (3.5.3.3, 5.4.1.a).

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

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

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

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

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

YES ☒ NO ☐ (IF YES, CHECK ONE BELOW)

5.9.1. ☐ PROJECT DISTURBED AREA IS THAN LESS THAN 5 ACRES (MINIMUM OF TWO STAGES OF EPSC PLANS)

5.9.2. ☒ PROJECT DISTURBED AREA IS GREATER THAN 5 ACRES (MINIMUM OF THREE STAGES OF EPSC PLANS)

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

5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (3.5.1.j). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET 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 2A-2A2, 79 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-2A2, 79 (3.5.3.1.n).

5.20. DISCHARGES FROM DEWATERING ACTIVITIES ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS THAT PROVIDE THE LEVEL OF TREATMENT (FILTRATION) NECESSARY TO COMPLY WITH PERMIT REQUIREMENTS. (4.1.4).

5.21. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT.

5.22. DISCHARGES FROM SEDIMENT BASINS AND IMPOUNDMENTS SHALL UTILIZE OUTLET STRUCTURES THAT ONLY WITHDRAW WATER FROM NEAR THE SURFACE OF THE BASIN OR IMPOUNDMENT. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE, WELL- VEGETATED AND/OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT. (4.1.7).

5.23. THE DEWATERING OF WORK AREAS, TRENCHES, FOUNDATIONS, EXCAVATIONS, ETC. THAT HAVE COLLECTED STORMWATER, WATER FROM VEHICLE WASH AREAS, OR GROUNDWATER SHALL BE EITHER HELD IN SETTLING BASINS OR TREATED BY FILTRATION AND/OR CHEMICAL TREATMENT PRIOR TO ITS DISCHARGE. ALL CHEMICAL TREATMENTS MUST BE APPLIED PER SECTION 6 FLOCCULANTS.

5.24. WATER DISCHARGED FROM DEWATERING ACTIVITIES SHALL NOT CAUSE AN OBJECTIONABLE COLOR CONTRAST WITHIN THE RECEIVING NATURAL RESOURCE. WATER MUST BE HELD WITHIN SETTLING BASINS UNTIL IT IS AT LEAST AS CLEAR AS THE RECEIVING WATERS.

5.25. DEWATERING STRUCTURES, SEDIMENT FILTER BAGS, SEDIMENT BASINS AND TRAPS SHALL NOT BE LOCATED CLOSER THAN 30 FEET (60 FEET DESIRABLE VEGETATIVE BUFFER) FOR WATERS WITH UNAVAILABLE PARAMETERS AND EXCEPTIONAL TENNESSEE WATERS AND 15 FEET (30 FEET DESIRABLE VEGETATIVE BUFFER) FOR ALL OTHER FEATURES FROM THE TOP BANK OF A STREAM, WOTUS (EPHEMERAL), WETLAND OR OTHER NATURAL RESOURCE AND SHALL BE PROPERLY DESIGNED PER THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED.

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

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

5.28. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EPSC MEASURES OVER TEMPORARY EPSC MEASURES ON ALL PROJECTS. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER-RUN WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE

5.29. DELAYING THE PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

5.30. A SOIL ANALYSIS SHALL BE PERFORMED PRIOR TO THE APPLICATION OF FERTILIZERS TO ANY PORTION OF THE STE. SOILS SHOULD BE ANALYZED FOR pH, BUFFER VALUE, PHOSPHOROUS, POTASSIUM, CALCIUM AND MAGNESIUM. SOIL SAMPLES SHOULD BE REPRESENTATIVE OF THE AREA FOR WHICH FERTILIZER WILL BE APPLIED. SAMPLE TYPE SHOULD BE COLLECTED AND ANALYZED IN ACCORDANCE WITH THE UT EXTENSION "SOIL TESTING" BROCHURE PB1061. (4.1.5.)

5.31. FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED FROM THE ANALYSES. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.

5.32. STEEP SLOPES SHALL BE TEMPORARILY STABILIZED NOT LATER THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THE SLOPE HAS TEMPORARILY OR PERMANENTLY CEASED. (3.5.3.2).

6. FLOCCULANTS (3.5.3.1.b)

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

IF YES, THE FOLLOWING NOTES APPLY:

6.1. POLYACRYLAMIDES (PAM) SHALL BE OF THE ANIONIC OR NEUTRALLY CHARGED TYPE ONLY. PAM REQUIREMENTS ARE AS FOLLOWS:

6.1.1. CATIONIC PAM IS NOT ALLOWED BECAUSE OF ITS TOXICITY TO FISH AND AQUATIC LIFE.

6.1.2. ANIONIC AND NEUTRALLY CHARGED PAM SHALL MEET THE EPA AND FDA ACRYLAMIDE MONOMER LIMITS OF EQUAL TO OR LESS THAN 0.05% BY WEIGHT ACRYLAMIDE MONOMER.

6.1.3. ANIONIC AND NEUTRALLY CHARGED PAM SHALL HAVE A DENSITY OF 10% TO 55% BY WEIGHT AND A MOLECULAR WEIGHT OF 16 TO 24 MG/MOLES.

6.1.4. PAM MIXTURES SHALL BE NON-COMBUSTIBLE.

6.1.5. PAM SHALL CONTAIN ONLY MANUFACTURER-RECOMMENDED ADDITIVES.

6.2. ALL PHYSICAL AND/OR CHEMICAL TREATMENT WILL BE RESEARCHED, APPLIED IN ACCORDANCE WITH MANUFACTURE'S GUIDELINES AND FULLY DESCRIBED ON THE EPSC PLANS (3.5.3.1.b).

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

6.4. ALL VENDORS AND SUPPLIERS OF FLOCCULANTS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT FOR BOTH ACUTE AND CHRONIC TOXICITY TESTS WHICH VERIFIES THAT THE FLOCCULANT EXHIBITS ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPA REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED.

6.5. DO NOT APPLY FLOCCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF ANY STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCE LOCATED ON OR ADJACENT TO THE CONSTRUCTION SITE. DO NOT APPLY FLOCCULANTS DIRECTLY INTO WATERS CONTAINED WITHIN SEDIMENT PONDS OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY INTO A STREAM, WETLAND, OR OTHER NATURAL WATER RESOURCE. DO NOT APPLY FLOCCULANTS IMMEDIATELY AT A STORMWATER OUTFALL WHERE RUNOFF LEAVES THE PROJECT LIMITS.

6.6. BEFORE FLOCCULANTS CAN BE USED ON A CONSTRUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES MUST BE OBTAINED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE, TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND APPLICATION RATE. SINCE FLOCCULANT EFFICACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION OR DOSAGE RATE. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. DO NOT APPLY EMULSION FORMS OF FLOCCULANTS DIRECTLY TO STORMWATER RUNOFF OR TO STREAMS, WETLANDS, OR OTHER WATER RESOURCES DUE TO SURFACTANT TOXICITY.

6.7. FLOCCULANT POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER. IF APPROVED BY THE MANUFACTURER,

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

FLOCCULANT MAY BE MIXED WITH DRY SILICA SAND, FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS TO AID IN SPREADING. FLOCCULANTS MAY ALSO BE APPLIED WITH A WATER TRUCK OR AS PART OF HYDRO-SEEDING. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.

6.8. MANUFACTURER'S GUIDANCE SHOULD BE FOLLOWED FOR BLOCK, LOG AND SOCK SPACING CONFIGURATIONS. BEFORE FLOCCULANTS CAN BE USED ON A CONSTRUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES MUST BE OBTAINED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE, TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND APPLICATION RATE. SINCE FLOCCULANT EFFICACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION OR DOSAGE RATE.

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? ☐ YES ☒ NO

IF YES, THE FOLLOWING APPLY:

7.1. STORMWATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND TREATED PRIOR TO DISCHARGE.

7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.

7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.

7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.

7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.

7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.

7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.

7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.

7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.

7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:

7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.

7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.

7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

8.1. INSPECTION PRACTICES (3.5.8)

8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE. AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (3.5.8.1.):

8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC "LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.

8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.

8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).

8.1.1.5. SUCCESSFULLY COMPLETED TDEC "LEVEL II – DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.

8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.

8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 "INSPECTOR") (3.5.1.o).

8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.

8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (3.5.8.2.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.

8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (3.5.8.2.a).

8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (3.5.8.2.b).

8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 "INSPECTOR").

8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 7 DAYS OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.e AND 3.5.8.2.f).

8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.

8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET FINAL STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.

8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (3.5.8.2.h).

8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)

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

8.3. MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)

8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (3.5.3.1.b)

8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (3.5.8.2.e).

8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (3.5.3.1.e).

8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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): RIPRAP, SOD, AND TURF REINFORCEMENT MATTING WILL BE USED FOR DITCH LININGS AND AT THE OUTLET AND INLET OF DRAINAGE STRUCTURES TO REDUCE STORMWATER VELOCITIES AND PREVENT EROSION. EROSION CONTROL BLANKET WILL BE APPLIED TO SLOPES TO REDUCE EROSION UNTIL PERMANENT STABILIZATION IS ACHIEVED.

10.3. OTHER ITEMS NEEDING CONTROL (3.5.5)

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

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

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (3.5.5.b)

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

10.5. HAZARDOUS WASTE (3.5.5.c) (7.9)

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

10.6. SANITARY WASTE (3.5.5.b)

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

10.7. OTHER MATERIALS

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

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

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (3.5.9)

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

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

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

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

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

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

☐ YES ☒ NO

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

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

12.1. SPILL PREVENTION (3.5.5.c)

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

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

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

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

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

12.2.2. HAZARDOUS MATERIALS

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

12.3. PRODUCT SPECIFIC PRACTICES

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

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

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

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

12.4. SPILL MANAGEMENT

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

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

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

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

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

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

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

12.4.7. IF A SPILL OCCURS THE CONTRACTOR'S SITE SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT CONSTRUCTION ENGINEER AND/OR PROJECT ENGINEER. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

12.4.8. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. SPILL RESPONSE EQUIPMENT SHALL BE INSPECTED AND MAINTAINED BY THE CONTRACTOR AS NECESSARY TO REPLACE ANY MATERIALS USED IN SPILL RESPONSE ACTIVITIES.

12.5. SPILL NOTIFICATION (5.1)

WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO, OR MORE THAN A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD:

12.5.1. THE TDOT PROJECT ENGINEER IS RESPONSIBLE FOR NOTIFYING THE REGIONAL PROJECT DEVELOPMENT OFFICE (E.G. TRANSPORTATION ENVIRONMENTAL STUDIES SPECIALIST) AS SOON AS HE OR SHE HAS KNOWLEDGE OF THE DISCHARGE.

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

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

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

13. RECORD-KEEPING

13.1. REQUIRED RECORDS

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

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

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

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

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

13.1.7. COPY OF REQUIRED SOIL ANALYSIS

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

13.2. RAINFALL MONITORING PLAN (3.5.3.1.o):

13.2.1. EQUIPMENT

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

13.2.2. LOCATION

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

13.2.3. METHODS

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

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

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

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

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

13.3. KEEPING PLANS CURRENT (3.4)

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

13.3.2. THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.

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

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

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

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

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

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

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

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

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.	2018	79024-1286-04	
CONST.	2018	STP-14 (63)	S-7

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.

Carma H. Smith

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

Carma H. Smith

PRINTED NAME

Assistant Director of Environmental Division

TITLE

6/21/2018

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.	2018	79024-1286-04	
CONST.	2018	STP-14 (63)	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
1-2	OUT-1		302+80 RT	1	1.40	1.40		N/A	STR-1	
1	OUT-2		316+22 LT	4	1.10			N/A	STR-3	
1	OUT-3		316+55 LT	4	2.60			N/A	STR-3	
1		OUT-3A	323+81 LT	3	4.90			N/A	WWC-2	
1		OUT-3B	327+96 LT	1	2.70			N/A	WWC-2	
1		OUT-3C	331+46 LT	1	3.30			N/A	WWC-2	
1-3	OUT-4		319+09 RT	2	12.6*	12.6*	12.6*	N/A	STR-3	*8.8 UNDISTURBED DIVERSION
1		OUT-4A	321+10 RT	3	11.2*			N/A	STR-3	*8.6 UNDISTURBED DIVERSION
2-3		OUT-4B	323+33 RT	12		11.2*	11.2*	N/A	STR-3	*8.6 UNDISTURBED
1	OUT-6		381+78 LT	1	1.50			N/A	WWC-6	
1	OUT-7		367+69 RT	5	4.60			N/A	STR-4	
1	OUT-8		393+45 RT	3	4.50			N/A	OFF ROW	
1-3	OUT-9		395+30 LT	3	1.50	0.30	0.30	N/A	WWC-7	
1	OUT-10		404+83 LT	2	4.30			N/A	OFF ROW	
1-3	OUT-11		409+00 LT	2	2.40	3.00	3.00	N/A	OFF ROW	
1-3	OUT-12		425+00 LT	1	15.9*	19.3**	19.3**	N/A	WWC-8	*11.7 UNDISTURBED; **9.1 UNDISTURBED INCLUDES SUB-OUTFALL
1		OUT-12A	423+59 RT	1	4.4*			N/A	WWC-8	*2.8 UNDISTURBED
2-3		OUT-12A	423+74 LT	5		1.70	1.70	N/A	WWC-8	
1		OUT-12B	423+93 RT	1	4.8*			N/A	WWC-8	*4.8 UNDISTURBED
2-3		OUT-12B	424+50 CL	3		1.40	1.40	N/A	WWC-8	
1		OUT-12C	424+35 RT	1	4.90*			N/A	WWC-8	*4.0 UNDISTURBED
2-3		OUT-12C	423+78 RT	1		3.80	3.80	N/A	WWC-8	
2-3		OUT-12D	424+09 RT	2		1.80	0.10	N/A	WWC-8	
2-3		OUT-12E	424+90 LT	1		0.20	0.20	N/A	WWC-8	
2-3		OUT-12F	425+28 LT	3		1.30	1.30	N/A	WWC-8	
3		OUT-12G	424+79 RT	3			1.70	N/A	WWC-8	
1-3	OUT-13		433+90 RT	1	15.2*	18.4**	18.4**	N/A	OFF ROW	*15.2 UNDISTURBED; **14.3 UNDISTURBED INCLUDES SUB-OUTFALL
1		OUT-13A	434+07 RT	1	0.90			N/A	OFF ROW	
2-3		OUT-13A	433+72 RT	1		0.10	0.10	N/A	OFF ROW	
1		OUT-13B	434+15 RT	1	2.80			N/A	OFF ROW	
2-3		OUT-13B	434+08 RT	1		1.50	1.50	N/A	OFF ROW	
2-3		OUT-13C	434+50 CL	33		1.20	1.20	N/A	OFF ROW	
2-3		OUT-13D	434+30 LT	1		1.30	1.30	N/A	OFF ROW	
1-3	OUT-14		447+24 RT	3	13.9*	12.5**	12.5**	N/A	WWC-9	*11.4 UNDISTURBED; **8.0 UNDISTURBED INCLUDES SUB-OUTFALL
1		OUT-14A	447+10 LT	1	1.20			N/A	WWC-9	
2-3		OUT-14A	447+15 RT	4		0.50	0.50	N/A	WWC-9	
1		OUT-14B	447+62 LT	1	1.30			N/A	WWC-9	
2-3		OUT-14B	447+41 RT	3		1.20	1.20	N/A	WWC-9	

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.	2018	79024-1286-04	
CONST.	2018	STP-14 (63)	S-9

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
2-3		OUT-14C	447+13 LT	4		0.50	0.50	N/A	WWC-9	
2-3		OUT-14D	448+00 CL	4		0.60	0.60	N/A	WWC-9	
2-3		OUT-14E	447+40 LT	8		1.60	1.60	N/A	WWC-9	
1-3	OUT-15		15+00 RT DONNELL RD	4	3.50	34.3*	34.3*	N/A	STR-12	*24.2 UNDISTURBED, INCLUDES SUB-OUTFALLS
2-3		OUT-15C	10+00 RT DONNELL RD RT	7		4.4*	4.4*	N/A	STR-12	*3.4 UNDISTURBED
1-3	OUT-16		14+65 LT DONNELL RD	4	1.90	0.90	0.90	N/A	STR-12	
1-2	OUT-17		34+57 RT MILLINGTON-ARLINGTON RD	3	2.60	2.60		N/A	WTL-15	
1-3	OUT-18		37+73 LT MILLINGTON-ARLINGTON RD	1	1.30	1.30	1.30	N/A	OFF ROW	
1	OUT-19		463+04 LT	1	3.20			N/A	WTL -7	
1-3	OUT-20		472+25 RT	1	6.3*	12.6**	12.6**	N/A	OFF ROW	*4.4 UNDISTURBED; **11.3 UNDISTURBED INCLUDES SUB-OUTFALLS
1		OUT-20A	472+16 CL	1	1.10			N/A	OFF ROW	
1		OUT-20B	472+68 CL	1	0.50			N/A	OFF ROW	
1		OUT-20C	472+41 CL	1	4.4*			N/A	OFF ROW	*4.4 UNDISTURBED
2-3		OUT-20D	472+54 LT	2		0.40	0.40	N/A	OFF ROW	
2-3		OUT-20E	472+80 LT	2		0.50	0.50	N/A	OFF ROW	
2-3		OUT-20F	472+60 RT	9		0.40	0.40	N/A	OFF ROW	
1-3	OUT-21		479+76 RT	1	17.6*			N/A	OFF ROW	*13.1 UNDISTURBED
1		OUT-21A	479+76 RT	1	0.90			N/A	OFF ROW	
1		OUT-21B	479+53 CL	1	3.2*			N/A	OFF ROW	*2.1 UNDISTURBED
1		OUT-21C	479+93 CL	1	10.4*			N/A	OFF ROW	*7.9 UNDISTURBED
1		OUT-21D	485+10 CL	1	3.9*			N/A	OFF ROW	*3.1 UNDISTURBED
2-3		OUT-21E	479+55 RT	3		0.60	0.60	N/A	OFF ROW	
2-3		OUT-21F	480+00 RT	3		1.00	1.00	N/A	OFF ROW	
2-3		OUT-21G	479+75 LT	6		3.20	3.20	N/A	OFF ROW	
2-3		OUT-21H	479+96 LT	7		2.70	2.70	N/A	OFF ROW	REFERRED TO AS 20"I" IN STAGE 3
2-3		OUT-21"I"	480+50 CL	3		1.50	1.50	N/A	OFF ROW	
1-3	OUT-22		488+53 RT	2	23.8*	25.4**	26.3**	N/A	WWC-11	*20.6 UNDISTURBED; **15.6 UNDISTURBED
1		OUT-22A	488+18 LT	2	0.20			N/A	WWC-11	
1		OUT-22B	488+64 LT	2	3.00			N/A	WWC-11	
2-3		OUT-22C	488+33 LT	3		0.30	0.30	N/A	WWC-11	
2-3		OUT-22D	488+63 LT	4		3.80	3.80	N/A	WWC-11	
2-3		OUT-22E	488+32 RT	5		2.00	2.00	N/A	WWC-11	
2-3		OUT-22F	488+67 RT	3		3.70	4.60	N/A	WWC-11	
1-3	OUT-23		516+00 LT	1	14.8*	14.5**	14.5**	N/A	ROW	*12.2 UNDISTURBED; **11.5 UNDISTURBED
1		OUT-23A	515+13 LT	1	1.1*			N/A	ROW	*0.5 UNDISTURBED
1-2		OUT-23B	515+87 RT	1	9.6*	9.6*		N/A	ROW	*9.1 UNDISTURBED
3		OUT-23B	515+ 59 RT	2			0.70	N/A	ROW	
1-3		OUT-23C	516+48 RT	1	3.2*	2.9**	0.50	N/A	ROW	*2.6 UNDISTURBED; **2.4 UNDISTURBED
2-3		OUT-23D	514+08 LT	9		1.10	1.10	N/A	ROW	
2-3		OUT-23E	515+80 LT	10		0.30	0.30	N/A	ROW	

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.	2018	79024-1286-04	
CONST.	2018	STP-14 (63)	S-10

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
2-3		OUT-23F	516+10 LT	7		0.60	0.60	N/A	ROW	
3		OUT-23G	516+56 RT	1			5.8*	N/A	ROW	*5.7 UNDISTURBED
3		OUT-23H	516+65 RT	1			3.2*	N/A	ROW	*2.6 UNDISTURBED
3		OUT-23J	515+81.70 CL	1			0.2	N/A	ROW	REFERRED TO AS 23F
1	OUT-24		524+00 LT	1	14.90*			N/A	WTL-8	*10.4 UNDISTURBED
1		OUT-24A	528+19 LT	1	0.50			N/A	WTL-8	
1		OUT-24-B	529+10 LT	1	3.8*			N/A	WTL-8	*1.1 UNDISTURBED
1		OUT-24C	527+57 RT	1	10.3*			N/A	WTL-8	*9.3 UNDISTURBED
1-3	OUT-25		65+94 RT ROSEMARK RD	2	1.70	1.70	1.70	N/A	ROW	
1-3	OUT-26		542+62 RT	1	4.70	4.80	4.80	N/A	WTL-9	
1	OUT-27		453+89 RT	2	7.1*			N/A	WWC-10	*3.9 UNDISTURBED
1		OUT-27A	454+15 RT	1	1.70			N/A	WWC-10	
1		OUT-27B	455+13 LT	1	4.9*			N/A	WWC-10	*3.9 UNDISTURBED
2-3	OUT-28		364+93 LT	4		3.30	4.90	N/A	STR-4	
2		OUT-28A	354+50 CL	4		1.20		N/A	STR-4/WTL-5	
2		OUT-28B	351+50 CL	4		0.60		N/A	STR-4/WTL-5	
2-3	OUT-30		404+83 LT	3		4.10	4.10	N/A	OFF ROW	
2-3	OUT-32		3+74 RT DONNELL RD RT	2		0.10	0.10	N/A	WTL-15	
2-3	OUT-33		37+50 RT MILLINGTON-ARLINGTON RD	4		0.30	0.30	N/A	OFF ROW	
1-3	OUT-36		95+17 RT ROSEMARK RD	2	0.10	0.20	0.20	N/A	OFF ROW	
1-3	OUT-37		95+17 LT ROSEMARK RD	2	0.10	0.10	0.10	N/A	OFF ROW	
2-3	OUT-38		551+85 RT	3		41.2*	41.2*	N/A	WWC-13	*35.7 UNDISTURBED
2-3		OUT-38A	551+41 LT	4		1.60	1.60	N/A	WWC-13	
2-3		OUT-38B	551+92 LT	1		3.5*	3.5*	N/A	WWC-13	*2.4 UNDISTURBED
2-3		OUT-38C	551+65 RT	3		2.00	2.00	N/A	WWC-13	
2-3		OUT-38D	551+87 RT	2		0.80	0.80	N/A	WWC-13	
1	OUT-39		558+95 LT	5	1.50			N/A	WWC-14	
1	OUT-40		558+86 RT	3	0.90			N/A	WWC-14	
1	OUT-41		559+50 LT	1	1.60			N/A	WWC-14	
1	OUT-42		568+55 LT	3	0.80			N/A	OFF ROW	
2-3	OUT-43		315+22 LT	4		2.30	2.30	N/A	STR-3	
2-3	OUT-44		315+65 LT	3		8.40*	8.40*	N/A	STR-3	*INCLUDES SUB-OUTFALLS
2-3		OUT-44A	321+50 CL	4		0.80	0.80	N/A	STR-3	
2-3		OUT-44B	323+65 CL	3		0.40	0.40	N/A	STR-3	
2-3		OUT-44C	328+27 LT	4		3.50	10.6*	N/A	STR-3	*6.6 UNDISTURBED/DIVERTED
2-3		OUT-44D	328+50 CL	4		0.80	0.80	N/A	STR-3	
2-3	OUT-45		15+00 LT RICKS RD	2		0.10	0.10	N/A	ROW	
2-3	OUT-46		365+79 LT	5		8.6*	8.6*	N/A	STR-4	*INCLUDES SUB-OUTFALLS
2-3		OUT-46A	370+68 CL	5		0.40	0.40	N/A	STR-4	
2-3		OUT-46B	380+00 CL	6		2.40	2.40	N/A	STR-4	
2-3		OUT-46C	383+20 LT	12		1.90	1.90	N/A	STR-4	

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.	2018	79024-1286-04	
CONST.	2018	STP-14 (63)	S-11

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-47		457+91 RT	1	7.40*			N/A	WTL-7	*INCLUDES SUB-OUTFALLS
1		OUT-47A	457+91 LT	1	3.70			N/A	WTL-7	
1		OUT-47B	460+51 LT	1	3.70			N/A	WTL-7	
2-3	OUT-48		378+51 RT	2		4.50	4.50	N/A	STR-4	
2-3	OUT-49		393+76 RT	5		4.10	4.10	N/A	OFF ROW	
2-3		OUT-49A	393+45 CL	4		1.60	1.60	N/A	OFF ROW	
2-3	OUT-50		454+16 RT	1		14.3*	14.3*	N/A	WWC-10	*12.4 UNDISTURBED, INCLUDES SUB-OUTFALLS
2-3		OUT-50A	455+00 LT	9		0.40	0.40	N/A	WWC-10	
2-3		OUT-50B	455+31 LT	6		1.30	1.30	N/A	WWC-10	
2-3		OUT-50C	455+49 CL	3		0.80	0.80	N/A	WWC-10	
2-3	OUT-51		454+39 RT	5		11.9*	11.8*	N/A	WWC-10	*6.3 UNDISTURBED
2-3		OUT-51A	463+15 RT	3		0.80	0.80	N/A	WWC-10	
2-3		OUT-51B	462+84 LT	6		3.2*	3.2*	N/A	WWC-10	*2.6 UNDISTURBED
2-3		OUT-51C	463+16 LT	8		4*	4*	N/A	WWC-10	*2.8 UNDISTURBED
2-3		OUT-51D	462+65 CL	3		1.20	1.20	N/A	WWC-10	
2-3	OUT-53		523+63 LT	1		43.1*	43.1*	N/A	WWC-12	*32.2 UNDISTURBED/DIVERTED
2-3		OUT-53A	523+50 LT	1		0.70	0.70	N/A	WWC-12	
2-3		OUT-53B	523+75 LT	2		2.40	2.40	N/A	WWC-12	
2-3		OUT-53C	523+69.50 CL	1		0.90	0.90	N/A	WWC-12	
2-3		OUT-53D	523+58 RT	2		1.50	1.50	N/A	WWC-12	
2-3		OUT-53E	64+00 LT ROSEMARK RD	1		19.8*	19.8*	N/A	WWC-12	*19.7 UNDISTURBED
2-3		OUT-53F	525+95 CL	1		1.30	1.30	N/A	WWC-12	REFERRED TO AS 54F IN STAGE 3
2-3		OUT-53G	525+54 RT	2		10.2*	10.2*	N/A	WWC-12	*8.4 UNDISTURBED/DIVERTED
2-3		OUT-53H	532+58 LT	1		2.0*	2.0*	N/A	WWC-12	*1.1 UNDISTURBED; REFERRED TO AS 543H IN STAGE 3
3		OUT-53"I"	64+00 RT ROSEMARK RD	4			0.20	N/A	WWC-12	
2-3	OUT-54		559+03 RT	2		1.10	1.10	N/A	WWC-14	
2-3	OUT-55		559+19 LT	3		1.30	1.30	N/A	WWC-14	
2-3	OUT-56		559+90 LT	1		1.20	1.20	N/A	WWC-14	
2-3	OUT-57		568+24 RT	5		18.0*	18.0*	N/A	OFF ROW	*17.8 UNDISTURBED
3	OUT-58		302+00 RT	3			5.9*	N/A	STR-1	* 4.2 UNDISTURBED
3		OUT-58A	300+50 CL	3			1.30	N/A	STR-1	
3	OUT-59		316+25 CL	2			0.40	N/A	STR-3	
3	OUT-60		316+47 RT	3			0.50	N/A	STR-3	
3	OUT-61		317+27 RT	2			0.40	N/A	STR-3	
3	OUT-62		347+50 CL	7			1.50	N/A	WTL-5	
3	OUT-63		559+32 CL	1			0.50	N/A	WWC-14	

OUTFALLS 5, 29, 31, 34, 35, AND 52 ARE NOT USED. ALL UNUSED FIELDS WITHIN THE OUTFALL TABLE ARE TO BE SHADED, HATCHED, OR REMOVED TO INDICATE THEIR NON-USAGE.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

Index Of Sheets

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2-2L	TYPICAL SECTIONS & DETAIL SHEETS
3-3"I"	PROPERTY MAPS & ACQUISITION TABLES
4-16, 16D,17-41	PRESENT LAYOUTS
5C,16C,17C, 21C-23C,25C,28C, 32C,33C,39C,40C	R.O.W. DETAIL SHEETS
4A-16A, 16E,17A-41A	PROPOSED LAYOUTS
4B-41B	PROFILES
5D,9C,38C	HAUL ROAD LAYOUT AND PROFILE
42-42MM	SIDE ROAD & DRIVEWAY PROFILES
43-43E	DRAINAGE MAPS
44-54,54A,55-91	CULVERT SECTIONS
92-110,92A-110A	EROSION AND SEDIMENT CONTROL PLANS
92B-110B	PROPOSED CONTOURS
111-446	ROADWAY CROSS SECTIONS

SHEET NUMBERS 397-399 ARE OMITTED

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

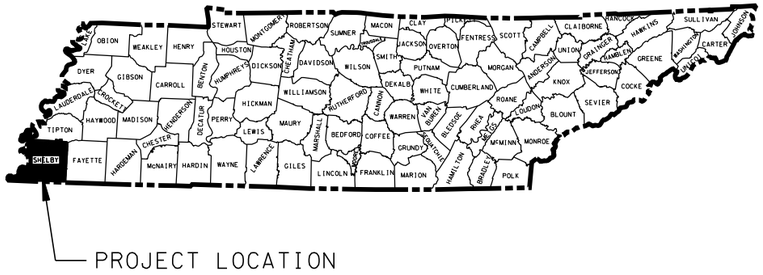
SHELBY COUNTY

STATE ROUTE 14
FROM STATE ROUTE 385 (PAUL BARRET PKWY.)
TO TIPTON COUNTY LINE
R.O.W.

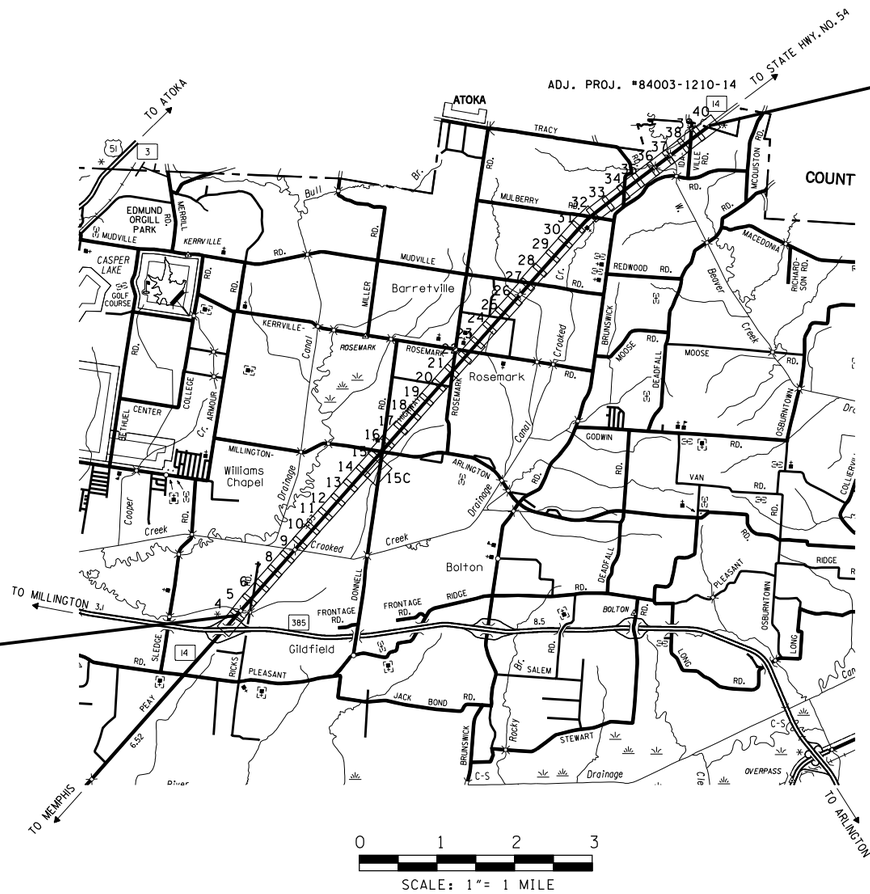
STATE HIGHWAY NO. 14 F.A.H.S. NO. 14

TENN.	YEAR	SHEET NO.
	2007	1
FED. AID PROJ. NO.	STP-14(43)	
STATE PROJ. NO.	79024-2290-14	

REV. 10-2-08: OMIT CROSS SECTION SHEET NUMBERS 397-399 FOR REMOVAL OF McCALA ROAD RIGHT.



79024-2290-14
END PROJECT NO. STP-14(43) (R.O.W.)
STA. 771+55.00



N

0 1 2 3
SCALE: 1"= 1 MILE

79024-2290-14
BEGIN PROJECT NO. STP-14(43) (R.O.W.)
STA. 305+71.30

R.O.W. LENGTH 8.823 MILES

NO EXCLUSIONS
NO EQUATIONS

FOR R.O.W. ONLY

LARRY BRIAN LEE — REGISTERED ENGINEER — AGRICULTURE — FORMERLY — NO. 107296 — STATE OF TENNESSEE

APPROVED: Paul D. Degges
CHIEF ENGINEER

DATE:

APPROVED: Gerald McCarley
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 MARCH 1, 2006 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT

TDOT MANAGER 1 LARRY JORDAN

DESIGNED BY PALMER ENGINEERING COMPANY

DESIGNER BRIAN LEE, P.E.

P.E. NO. 79024-1286-04

PIN NO. 100341.00

TRAFFIC DATA	
ADT (2008)	9,300
ADT (2028)	14,880
DHV (2028)	1,786
D	70 - 30
T (ADT)	7 %
T (DHV)	5 %
V	70 MPH

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

8/19/2009 3:51:53 PM
G:\Jobs\SHI4\design\CONST\title_sht_files\SHI401.sht

Index Of Sheets
SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2018	1
FED. AID PROJ. NO.	STP-14(63)	
STATE PROJ. NO.	79022-3233-14	

REV. 10/02/08 : OMIT CROSS SECTION SHEET NUMBERS 397-399 FOR REMOVAL OF McCALA ROAD RIGHT.

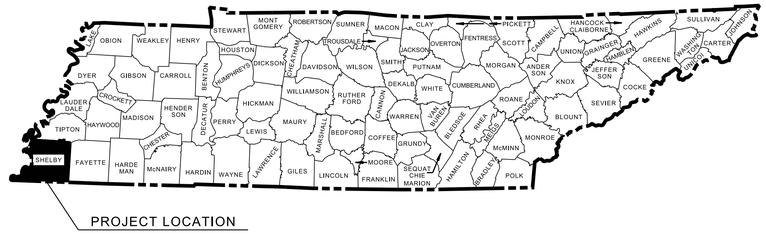
SHELBY COUNTY

STATE ROUTE 14
(AUSTIN PEAY HWY.), FROM SR 385 TO EAST
OF KERRVILLE-ROSEMARK ROAD (IA)

CONSTRUCTION

GRADE, DRAIN, PAVE, BRIDGE, SIGN, & SIGNAL

STATE HIGHWAY NO. 14 F.A.H.S. NO. 14



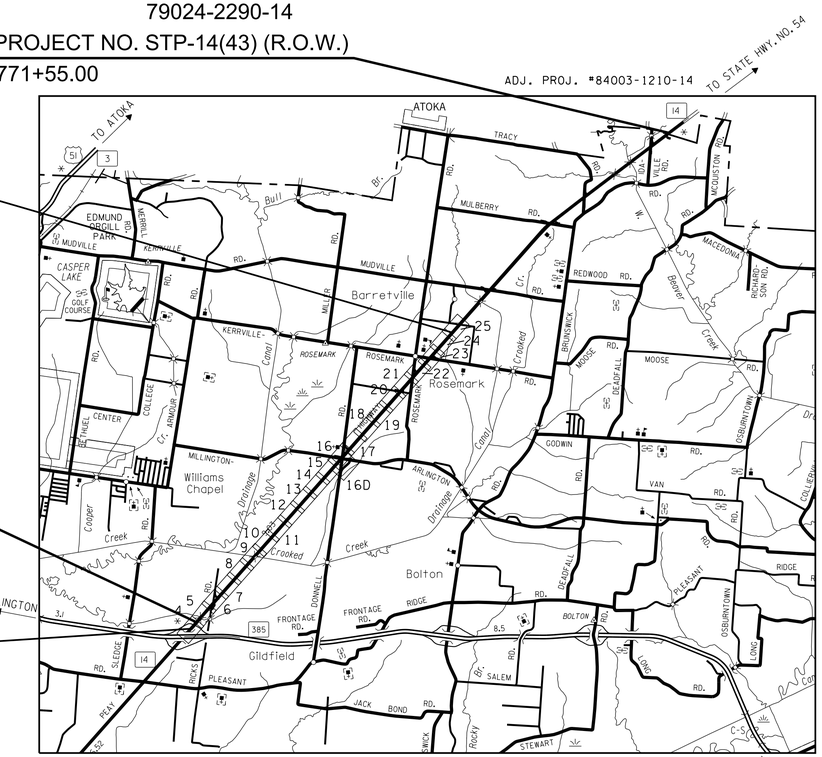
BRIDGE ID. # 79SR0140041 79SR0140042 79SR0140043 79SR0140044

79024-2290-14
END PROJECT NO. STP-14(43) (R.O.W.)
STA. 771+55.00

79022-3233-14
END PROJECT NO. STP-14(63) CONSTRUCTION
STA. 568+47.52
N 397815.1921 E 846468.1713

79024-2290-14
BEGIN PROJECT NO. STP-14(43) (R.O.W.)
STA. 305+71.30

79022-3233-14
BEGIN PROJECT NO. STP-14(63) CONSTRUCTION
STA. 300+00.00
N 377659.0007 E 828735.0871



SCALE: 1"= 1 MILE

0 1 2 3

NO EXCLUSIONS

BRIDGES TO BE CONSTRUCTED UNDER TRAFFIC

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: DENNIS MOULTRIE, P.E.
DESIGNED BY : PALMER ENGINEERING COMPANY
DESIGNER : BRIAN LEE, P.E. CHECKED BY TODD KEMP, P.E.
P.E. NO. 79024-1286-04
PIN NO. 100341.02

ROADWAY LENGTH	4.998 MILES
BRIDGE LENGTH	0.077 MILES
BOX BRIDGE LENGTH	0.000 MILES ▲
PROJECT LENGTH	5.075 MILES

▲ Not included in the project length.

SURVEY 03-11-03	TRAFFIC DATA	
UPDATE 06-19-18	ADT (2018)	11,000
UPDATE 08-21-17	ADT (2038)	13,200
	DHV (2038)	1,584
	D	65 - 35
	T (ADT)	5 %
	T (DHV)	3 %
	V	70 MPH

STATE PLANE COORDINATES ARE BASED ON GPS MEASUREMENTS OBTAINED 01-18-02 USING GEOID 99 MODEL AND DATUM ADJUSTMENT FACTOR OF 1.00003

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

6/4/2018 5:27:27 PM
G:\Jobs\SH14\Const_PIN-100341-02\001.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	1A
CONST.	2018	STP-14(63)	1A

ROADWAY INDEX

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD ROADWAY DRAWINGS	1A1
STANDARD TRAFFIC OPERATIONS & STRUCTURE DRAWINGS	1A2
PROJECT COMMITMENTS	1B
ESTIMATED BRIDGE QUANTITIES AND BRIDGE INDEX	2, 2-1, 2-2
ESTIMATED ROADWAY QUANTITIES	2A – 2A2
ESTIMATED SIGNAL QUANTITIES AND SPECIAL NOTES	2A3
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B – 2B14
GENERAL NOTES	2C – 2C2
SPECIAL NOTES	2D
TABULATED QUANTITIES	2E – 2E6
DETAIL SHEETS	2F – 2F4
RIGHT-OF-WAY NOTES and UTILITY OWNERS	3
PROPERTY MAP(S) AND RIGHT-OF-WAY ACQUISITION TABLE(S)	3A – 3G
PRESENT LAYOUT(S)	4 – 16,
	16D,17 -25
RIGHT OF WAY DETAILS	5A,16A–
	17A,21A-
	23A, 25A
PROPOSED LAYOUT(S)	4A, 5B,
	6A – 15A,
	16B,16E,
	17B,18A-
	20A, 21B-
	23B,24A,
	25B
PROPOSED PROFILE(S)	4B, 5C, 6B
	-15B, 16C
	-17C, 18B
	- 20B, 21C
	-23C, 24B,
	25C
SIDE ROADS PROFILE(S)	26 – 31
HAUL ROAD PROFILE	32
PRIVATE DRIVE AND FIELD ENTRANCE PROFILE(S)	33 – 48
DRAINAGE MAP(S)	49 – 52
CULVERT SECTION(S)	53 – 78
EROSION PREVENTION & SEDIMENT CONTROL PLANS	79, 80,
	80A- 82Y
TRAFFIC CONTROL PLANS	83, 83A,
	84, 84A-
	84K, 85,
	85A- 85K
SIGNING AND PAVEMENT MARKING PLAN(S)	86 – 108
SIGN SCHEDULE SHEET(S)	109 –118
PROPOSED SIGNAL LAYOUT(S)	119, 119A
	- 119H
ROADWAY CROSS SECTIONS	120 – 260
SIDE ROAD CROSS SECTIONS	261 – 297
GEOTECHNICAL PLANS	G1 – G50
NATURAL STREAM DESIGN PLAN INDEX	NS-1
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX	S-1

NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED IN NUMBERING OF SHEETS.

Footnotes:

① Haul Road profiles follow Side Road profiles in the sheet numbering sequence.

STANDARD ROADWAY DRAWINGS

ROADWAY DESIGN STANDARDS

DWG.	REV.	DESCRIPTION
RD-TP-1	09-26-16	STANDARD ROADWAY DRAWINGS TITLE SHEET
RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-8	09-15-17	STANDARD LEGEND FOR NATURAL STREAM DESIGN
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-7	10-15-02	DESIGN STANDARDS 2-LANE HIGHWAY WITH CONTINUOUS 2-WAY LEFT-TURN LANE
RD01-SE-2	10-15-02	URBAN SUPERELEVATION DETAILS
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-3		INTERSECTION SIGHT DISTANCE 2-LANE 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-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

DWG.	REV.	DESCRIPTION
D-PB-1	03-16-17	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PO-1	05-27-01	STANDARD OVAL & FLAT BASE CONCRETE CULVERT PIPE
D-PE-18A	01-06-15	18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-18B		18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24A	07-05-17	24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24B		24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-30A	10-10-16	30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-30B		30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-36A	06-14-13	36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-36B		36" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-42A	06-14-13	42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-42B		42" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-48A	06-14-13	48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-48B		48" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLS (FOR 3:1, 4:1 & 6:1 SLOPES)
D-SEW-1A	03-16-17	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE GRATE FOR 15" THRU 48" PIPES - 6:1 SLOPE
D-SEW-12D	06-14-13	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 15" AND 18" PIPES 12:1 SLOPE
SD-MSE-1		SIDE DRAIN MITERED END SECTION
D-PE-4	10-10-16	STRAIGHT CONCRETE ENDWALL

CATCH BASINS AND MANHOLES

DWG.	REV.	DESCRIPTION
D-CB-12SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-38S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 38 CATCH BASIN
D-CB-39RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 39 CATCH BASIN
D-CB-39S	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 39 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-JBS-1	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 1 JUNCTION BOX
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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

IB-17-09, 12, 13 &14

6/5/2018 4:06:46 PM
G:\Jobs\SH14\Const_PIN-100341-02\001A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	1A1
CONST.	2018	STP-14(63)	1A1

STANDARD ROADWAY DRAWINGS

NATURAL STREAM DESIGN

D-NSD-29	09-15-17	CONSTRUCTED ALLUVIAL RIFFLE
D-NSD-33	09-15-17	COIR FIBER EROSION CONTROL BLANKET AND COIR FIBER ROLLS
D-NSD-34	09-15-17	LIVE STAKES AND LIVE SILTATION
D-NSD-37		SPECIAL NOTES FOR NATURAL STREAM DESIGN

ROADWAY AND PAVEMENT APPURTENANCES

RP-D-15	04-08-16	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-DHO-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
RP-I-5	12-18-96	EXAMPLES OF STREET & ALLEY INTERSECTIONS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS

SAFETY DESIGN 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 SIDEROADS OR PRIVATE DRIVES
S-PL-3	10-10-16	SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-5	10-10-16	SAFETY PLAN FOR BRIDGE ENDS IN MEDIANS
S-PL-6	10-10-16	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-PL-6A	07-05-17	SAFETY PLAN SAFETY HARDWARE PLACEMENT IN MEDIAN
S-GR31-1	03-28-17	W-BEAM GUARDRAIL
S-GR31-1A		W-BEAM BARRIER FASTENING HARDWARE
S-GRC-1	10-10-16	GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRT-2	03-28-17	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P	07-05-17	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRT-3	03-28-17	TYPE 21 GUARDRAIL END TERMINAL
S-GRA-3	07-05-17	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	07-05-17	IN-LINE GUARDRAIL ANCHOR
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-F-10	11-15-17	STANDARD RIGHT-OF-WAY STOCK FENCE
S-F-10A	11-15-17	STANDARD RIGHT-OF-WAY STOCK FENCE WITH TIMBER POSTS
S-F-10C	11-15-17	RIGHT-OF-WAY FENCE AT BRIDGES AND BOX CULVERTS
S-FG-11	11-15-17	STANDARD STOCK FENCE GATE
S-FG-20	11-15-17	EXAMPLES OF WATER GATES AND WATER CROSSINGS
S-RP-2	02-08-16	STANDARD CONCRETE RIGHT-OF-WAY MARKERS

DESIGN - TRAFFIC CONTROL

T-M-1	07-05-17	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-05-17	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-M-16	01-30-15	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-PBR-1	03-16-17	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	03-16-17	DETAIL FOR FLEXIBLE DELINEATORS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-05-17	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-12	03-05-17	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS
T-WZ-20	12-18-99	GEOMETRIC MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	03-16-17	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-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-8	06-10-14	FILTER SOCK
EC-STR-11	03-16-17	CULVERT PROTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-29	08-01-12	PERMANENT SLOPE DRAIN PIPE
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-32	08-01-12	TEMPORARY DIVERSION CULVERTS
EC-STR-33	08-01-12	SUSPENDED PIPE DIVERSION (DOWNSTREAM)
EC-STR-33A	08-01-12	SUSPENDED PIPE DIVERSION (UPSTREAM)
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-38	08-01-12	FLOATING TURBIDITY CURTAIN
EC-STR-40		CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-42		CATCH BASIN FILTER ASSEMBLY (TYPE 2)
EC-STR-42A		CATCH BASIN FILTER ASSEMBLY (TYPE 2) SLIPCOVER DETAILS
EC-STR-44		CATCH BASIN FILTER ASSEMBLY (TYPE 4)
EC-STR-44A		CATCH BASIN FILTER ASSEMBLY (TYPE 4) SLIPCOVER DETAILS

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

IB-17-09, 12, 13 &14

6/4/2018 5:31:47 PM
G:\Jobs\SH14\Const_PIN-100341-02\001A1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-14(63)	1A2

STANDARD TRAFFIC OPERATIONS DRAWINGS

DWG.	REV.	DESCRIPTION
SIGNS		
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	07-10-17	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-11-17	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-18	02-14-14	END OF ROADWAY AND DEAD END SIGNS, AND METAL BARRICADES (TYPE III)
T-S-19	07-11-17	STANDARD STEEL SIGN SUPPORTS
T-S-20	07-11-17	SIGN DETAILS
T-S-23C	07-02-15	BREAKAWAY POST SIGN SUPPORTS
SIGNALS		
T-SG-1	06-27-16	WOOD POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-2	06-27-16	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3A	06-27-16	ALTERNATE DETECTION DETAILS
T-SG-5	06-27-16	CONTROLLER CABINET DETAILS
T-SG-6		PEDESTRIAN SIGNAL DETAILS
T-SG-7	07-11-17	SIGNAL HEAD ASSEMBLIES
T-SG-7A		TYPICAL SIGNAL HEAD PLACEMENT APPROACHES WITH NO THROUGH MOVEMENTS
T-SG-7D		TYPICAL SIGNAL HEAD PLACEMENT TWO-LANE APPROACHES
T-SG-7G		TYPICAL SIGNAL HEAD PLACEMENT THREE-LANE APPROACHES
T-SG-9	07-11-17	DETAILS OF CANTILEVER SIGNAL SUPPORT
T-SG-9A	07-12-17	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	07-11-17	MAST ARM POLE AND STRAIN POLES FOUNDATION DETAILS
T-SG-11	07-12-17	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	07-12-17	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
LIGHTING AND UTILITY POLES		
T-FO-2		FIBER OPTIC UNDERGROUND ENTRANCE DETAILS
T-FO-4		FIBER OPTIC PULL BOX, CABINET & POLE DETAILS

STANDARD STRUCTURE DRAWINGS

DWG.	REV.	DESCRIPTION
BOX CULVERTS (Previous)		
STD-15-1	11-06-08	INDEX OF DRAWINGS AND TERMINOLOGY
STD-15-2	03-28-08	GENERAL NOTES
STD-15-3	02-28-03	DESIGN SECTION LIMITS
STD-15-4	12-07-01	TYPICAL SECTION AND DETAILS
STD-15-5	02-28-03	TYPICAL ELEVATION
STD-15-6	03-28-08	CURB AND RAIL DETAILS SKEW NOT LESS THAN 45 DEG.
STD-15-7	03-02-02	STANDARD EDGE BEAM DETAILS FOR FILLS GREATER THAN 3' - 8"
STD-15-8	12-07-01	INTERIOR WALL END TREATMENTS
STD-15-9	02-28-03	TYPICAL WINGWALL DETAILS AND NOTES
STD-15-10	11-06-08	WINGWALL DIMENSIONS AND QUANTITIES
STD-15-13		WINGWALL DESIGN SECTION
STD-15-14	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-15-15		BACKFILL AND DRAINAGE DETAILS
STD-15-16A		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET
STD-15-20		WARPED SLOPE DETAIL
STD-15-22	02-28-03	EXTENSION DETAILS
STD-15-23	12-07-01	EXTENSION DETAILS FOR SCOURED OUTLET
STD-15-24	12-07-01	END SECTION DETAILS
STD-15-25	11-01-10	PRECAST BOX CULVERT DETAILS
STD-15-27		PRECAST BOX CULVERT DETAILS
STD-15-57		BOX BRIDGE, 2 BARRELS AT 8', CLEAR HTS. 5' - 8', 0 - 60' FILL
LRFD BOX CULVERTS		
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-17-9		INTERIOR WALL END TREATMENTS
STD-17-10		TYPICAL WINGWALL DETAILS AND NOTES
STD-17-12		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-15		WINGWALL & SPECIAL RETAINING WALL DESIGN SECTIONS
STD-17-16		WINGWALL DESIGN SECTION
STD-17-17	06-01-11	BACKFILL AND DRAINAGE DETAILS
STD-17-18		BACKFILL DETAILS
STD-17-23		SIDEWALK AND MISCELLANEOUS DETAILS
STD-17-24		WARPED SLOPE DETAIL
STD-17-29		PRECAST BOX CULVERT DETAILS
STD-17-51	05-01-14	BOX BRIDGE, 1 BARREL AT 6', CLEAR HTS. 3' - 6', 0 - 60' FILL

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD TRAFFIC OPERATIONS & STRUCTURE DRAWINGS

IB-17-09

6/4/2018 5:33:17 PM
G:\Jobs\SH114\Const_PIN-100341-02\001A2.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-14(63)	1B

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION
EDEC001	ENVIRONMENTAL DIVISION, ECOLOGY	CLIFF SWALLOW AND BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG OR ADULTS) WILL NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 3. FROM AUGUST 1 TO APRIL 14, THE NESTS MAY BE REMOVED OR DESTROYED, AND MEASURES MAY BE IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (E.G., CLOSING OFF THE AREAS USING NETTING).	STR-3 (315+95.16) STR-4 (365+00.00)
EDHZ002	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	AN ASBESTOS CONTAINING MATERIAL (ACM) SURVEY WAS CONDUCTED ON BRIDGE NO. 79SR0140043, SR-14 OVER CROOKED CREEK (79-SR014-31.20). NO ACM WAS DETECTED. NO SPECIAL ACCOMMODATIONS FOR DEMOLITION AND DISPOSAL ARE ANTICIPATED FOR THESE STRUCTURES AND THE MATERIAL CAN BE DEPOSITED IN A C&D LANDFILL. PRIOR TO THE DEMOLITION OR REHABILITATION OF ANY STRUCTURE (BRIDGE OR BUILDING), THE CONTRACTOR IS REQUIRED TO SUBMIT THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS STANDARD 10-DAY NOTICE OF DEMOLITION TO THE TENNNESSEE DIVISION OF AIR POLLUTION CONTROL (STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTIONS 107.21 AND 202.03).	STR-4 (365+00.00)
EDHZ001	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	TO MINIMIZE THE RISK TO CONSTRUCTION WORKERS, TDOT IS COMMITED TO THE REMOVAL OF ASBESTOS-CONTAINING MATERIALS (ACM) FROM BRIDGES THAT ARE BEING DEMOLISHED, REHABILITATED OR REPAIRED. BRIDGE NO. 79SR0140041, SR-14 OVER BRANCH (79-SR014-30.27) HAS ACM IN THE DECK DRAINS. ABATEMENT OF THIS MATERIAL SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. ACM ABATEMENT SHOULD BE COMPLETED PRIOR TO ANY DEMOLITION ACTIVITIES. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCS 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT OR DEMOLITION.	STR-3 (315+95.16)

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

6/4/2018 5:34:49 PM
G:\Jobs\SH14\Const_PIN-100341-02\001B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-I 4(63)	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	1
	201-01	CLEARING AND GRUBBING	LS	1
(2)	202-02	REMOVAL OF STRUCTURE COMPONENTS & OBSTRUCTIONS	LS	1
(1)	202-02.01	REMOVAL OF PIPE (18" RCP, S.R. 14 - 405+82.68)	L.F.	74
(1)	202-02.02	REMOVAL OF PIPE (24" CMP, RICKS RD. RT. - 13+50+/- RT)	L.F.	88
(1)	202-02.03	REMOVAL OF PIPE (18" RCP, S.R. 14 - 409+83.21)	L.F.	75
(1)	202-02.04	REMOVAL OF PIPE (30" RCP, S.R. 14 - 447+33.40)	L.F.	67
(1)	202-02.05	REMOVAL OF PIPE (24" RCP, MILLINGTON/ARLINGTON RD LT - 29+81.91)	L.F.	90
(1)	202-02.06	REMOVAL OF PIPE (36" RCP, S.R. 14 - 462+10.79)	L.F.	66
(1)	202-02.07	REMOVAL OF PIPE (30" RCP, S.R. 14 - 479+75.68)	L.F.	61
(1)	202-02.08	REMOVAL OF PIPE (30" RCP, S.R. 14 - 488+40.41)	L.F.	67
(1)	202-02.09	REMOVAL OF PIPE (30" RCP, S.R. 14 - 499+42.67)	L.F.	67
(1)	202-02.10	REMOVAL OF PIPE (18" CMP, S.R. 14 - 516+00.00 RT)	L.F.	30
(1)	202-02.11	REMOVAL OF PIPE (36" RCP, S.R. 14 - 523+71.26)	L.F.	98
(1)	202-02.12	REMOVAL OF PIPE (18" CMP,McCALA RD TURNAROUND - 199+57.39)	L.F.	30
(1)	202-02.13	REMOVAL OF PIPE (24" RCP, S.R. 14 - 542+56.02)	L.F.	61
(1)	202-02.14	REMOVAL OF PIPE (15" RCP, S.R. 14 - 545+53.83 LT)	L.F.	61
(1)	202-02.15	REMOVAL OF PIPE (4' X 3' RCBC, S.R. 14 - 551+81.56)	L.F.	71
(1)	202-02.16	REMOVAL OF PIPE (30" RCP, S.R. 14 - 559+04.96)	L.F.	67
(28)	202-04.01	REMOVAL OF STRUCTURES (4' X 14' FOOTBRIDGE, S.R. 14 - 454+23.13 RT)	LS	1
(9)(14)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	137669
(7)(10)(14)	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	TON	60169
(14)	203-03	BORROW EXCAVATION (UNCLASSIFIED)	C.Y.	814778
	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	44155
	203-05	UNDERCUTTING	C.Y.	34177
(5)	203-50	CONSTRUCTION OF HAUL ROAD	LS	1
	204-08	FOUNDATION FILL MATERIAL	C.Y.	59
	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	73
(3)	209-03.23	FILTER SOCK (24 INCH)	L.F.	246
(23)	209-03.31	STREAM MITIGATION-COCONUT FIBER ROLLS	L.F.	160
(3)	209-05	SEDIMENT REMOVAL	C.Y.	5854
(3)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	53985
(3)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	31068
(3)	209-08.07	ROCK CHECK DAM PER	EACH	57
(3)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	168
	209-08.09	FILTER SOCK CHECK DAM	EACH	8
(3)	209-09.01	SANDBAGS	BAG	2656
(3)(4)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	2
(3)(4)	209-09.04	SEDIMENT FILTER BAG (15' X 10')	EACH	2
(3)	209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	254
(3)(11)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	258
(33)	209-20.04	POLYETHYLENE SHEETING (10 MIL.)	S.Y.	27
	209-40.33	CATCH BASIN PROTECTION(TYPE D)	EACH	19
(3)	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	40
(3)	209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	7
(3)	209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	2
(3)	209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	312
(3)	209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	439
(13)	302-01.01	HYDRATED LIME	TON	6625
	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	1124
(26)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	1969
(33)	303-10.02	MINERAL AGGREGATE (SIZE 2)	TON	35
	411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	10
	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	10
	411-12.03	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
A	203-06	WATER	MG	4775
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	342455
	303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING (DESCRIPTION)	TON	4310
	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	749
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	9463
	307-01.20	ASP. CONC. MIX(PG64-22) (BPMB-HM) GR. A-S	TON	199
	307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON	26982
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	40003
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	21486
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	413
(29)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	1475
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	179
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	4247
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	2163
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	12041
B	203-06	WATER	M.G.	3742
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	136345
	303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING (DESCRIPTION)	TON	4310
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	9463
	307-01.20	ASP. CONC. MIX(PG64-22) (BPMB-HM) GR. A-S	TON	199
	307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON	26982
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	40003
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	21486
	309-01.01	MINERAL AGGREGATE (A-CBC)	TON	64809
	309-01.02	PORTLAND CEMENT (A-CBC)	TON	2502
	309-02	BITUMINOUS MATERIAL (A-CBC)	TON	174
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	413
(29)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	1475
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	179
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	4247
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	2163
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	12041
D	203-06	WATER	M.G.	3971
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	174160
	303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING (DESCRIPTION)	TON	4310
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	9463
	307-01.20	ASP. CONC. MIX(PG64-22) (BPMB-HM) GR. A-S	TON	199
	309-01.01	MINERAL AGGREGATE (A-CBC)	TON	64809
	309-01.02	PORTLAND CEMENT (A-CBC)	TON	2502
	309-02	BITUMINOUS MATERIAL (A-CBC)	TON	174
	313-03	TREATED PERMEABLE BASE	S.Y.	179077
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	127
(29)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	475
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	47
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	4247
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	2163
	501-01.02	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 9"	S.Y.	179077
E	203-06	WATER	M.G.	5026
	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	376076
	303-02	MINERAL AGGREGATE, TYPE B BASE, GRADING (DESCRIPTION)	TON	4310
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	9463
	307-01.20	ASP. CONC. MIX(PG64-22) (BPMB-HM) GR. A-S	TON	199
	313-03	TREATED PERMEABLE BASE	S.Y.	179077
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	127
(29)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	475
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	47
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	4247
	411-01.10	ACS MIX(PG64-22) GRADING D	TON	2163
	501-01.02	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 9"	S.Y.	179077

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

6/5/2018 3:38:50 PM
G:\Jobs\SH14\Const_PIN-100341-02\002A.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-14(63)	2A1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	217
	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	42738
(36)	606-24.12	TEMPORARY SHEET PILES	S.F.	1283
(30)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	3476
(30)	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	390
(30)	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	849
(30)	607-06.07	36" PIPE CULVERT (JACKED-IN-PLACE)	L.F.	338
(30)	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	770
(30)	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	94
(30)	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	L.F.	164
	607-16.01	23"X 14" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	24
	607-16.06	45"X 29" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	146
	607-39.02	18" PIPE CULVERT (SIDE DRAIN)	L.F.	1978
	607-39.03	24" PIPE CULVERT (SIDE DRAIN)	L.F.	526
	607-39.04	30" PIPE CULVERT (SIDE DRAIN)	L.F.	136
	607-39.05	36" PIPE CULVERT (SIDE DRAIN)	L.F.	60
(15)	610-07.03	18" PIPE DRAIN (BRIDGE DRAIN)	L.F.	134
	611-02.10	JUNCTION BOX, TYPE 1	EACH	2
	611-02.11	JUNCTION BOX, TYPE 2	EACH	5
	611-02.12	JUNCTION BOX, TYPE 3	EACH	2
	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	2
	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	90
	611-07.31	18IN ENDWALL (SIDE DRAIN)	EACH	2
	611-07.32	24IN ENDWALL (SIDE DRAIN)	EACH	2
	611-07.34	36IN ENDWALL (SIDE DRAIN)	EACH	2
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	7
	611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	15
	611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	3
	611-07.57	24IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
	611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	3
	611-07.59	24IN ENDWALL (CROSS DRAIN) 6:1	EACH	1
	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	4
	611-07.61	30IN ENDWALL (CROSS DRAIN) 4:1	EACH	5
	611-07.62	30IN ENDWALL (CROSS DRAIN) 6:1	EACH	1
	611-07.63	36IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-07.64	36IN ENDWALL (CROSS DRAIN) 4:1	EACH	12
	611-07.65	36IN ENDWALL (CROSS DRAIN) 6:1	EACH	3
	611-07.67	42IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
	611-07.68	42IN ENDWALL (CROSS DRAIN) 6:1	EACH	1
	611-07.70	48IN ENDWALL (CROSS DRAIN) 4:1	EACH	2
	611-07.71	48IN ENDWALL (CROSS DRAIN) 6:1	EACH	2
	611-07.73	18IN ENDWALL (MEDIAN DRAIN)	EACH	16
	611-38.01	CATCH BASINS, TYPE 38, 0' - 4' DEPTH	EACH	21
	611-38.02	CATCH BASINS, TYPE 38, > 4' - 8' DEPTH	EACH	1
	611-39.01	CATCH BASINS, TYPE 39, 0' - 4' DEPTH	EACH	5
	611-39.02	CATCH BASINS, TYPE 39, > 4' - 8' DEPTH	EACH	2
	611-39.03	CATCH BASINS, TYPE 39, > 8' - 12' DEPTH	EACH	1
	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	104
	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	24
	621-03.04	30" TEMPORARY DRAINAGE PIPE	L.F.	104
	621-03.05	36" TEMPORARY DRAINAGE PIPE	L.F.	14
	621-03.06	42" TEMPORARY DRAINAGE PIPE	L.F.	30
	701-02	CONCRETE DRIVEWAY	S.F.	15630
	703-01	CEMENT CONCRETE DITCH PAVING	C.Y.	64

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	269
	705-06.01	W BEAM GR (TYPE 2) MASH TL3	L.F.	3019
	705-06.10	GR TERMINALTRAILING END (TYPE 13) MASH TL3	EACH	4
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	12
	705-06.30	GR TERMINAL (TYPE 21) MASH TL2	EACH	2
(16)	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	39
	706-01	GUARDRAIL REMOVED	L.F.	1218
	707-03.01	STOCK FENCE	L.F.	4284
	707-03.02	END, BRACED LINE, CORNER POST ASSEMBLY (STOCK FENCE)	EACH	16
(12)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	21551
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	EACH	86
(15)	709-01.01	RUBBLE STONE RIP-RAP	C.Y.	13
(3)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	650
(6)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	6193
(26)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	4807
	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	249
(23)	709-05.81	ROCK RIFFLES	LS	1
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	53219
	710-05	LATERAL UNDERDRAIN	L.F.	6942
	710-06.11	LATERAL UNDERDRAIN ENDWALL (2:1)	EACH	1
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	42
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	117
	710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	107
(33)	710-10.02	6" PERFORATED PLASTIC PIPE	L.F.	79
	712-01	TRAFFIC CONTROL	LS	1
(32)	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	50145
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	107
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	94
	712-05.03	WARNING LIGHTS (TYPE C)	EACH	50
	712-06	SIGNS (CONSTRUCTION)	S.F.	1667
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	164
	712-08.03	ARROW BOARD (TYPE C)	EACH	2
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y.	1
	713-01.02	STEEL BAR REINFORCEMENT (FOUNDATION FOR SIGN SUPPORTS)	LB.	101
	713-02.15	FLEXIBLE DELINEATOR (YELLOW)	EACH	42
	713-02.26	CONCRETE BARRIER/PARAPET DELINEATOR	EACH	566
	713-02.27	CONCRETE BARRIER/PARAPET DELINEATOR (BI-DIRECTIONAL)	EACH	514
	713-05	STEEL HOLLOW SQUARE POST (BREAKAWAY) SIGN SUPPORTS	LB.	149
	713-11.01	"U" SECTION STEEL POSTS	LB.	1474
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	10116
	713-11.21	P POST SLIP BASE	EACH	303
	713-11.22	U POST SLIP BASE	EACH	59
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	2867
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	519
	713-14	EXTRUDED ALUMINUM PANEL SIGNS	S.F.	36
	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	1
	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	4
(23)	713-16.20	SIGNS (PROTECTED AREA)	EACH	3
	716-01.07	TEMPORARY RAISED PAVEMENT MARKER,YELLOW	EACH	44
	716-01.21	Snwplwble Pvmt Mrkrs (Bi-Dir)(1 Color)	EACH	126
	716-01.22	Snwplwble Pvmt Mrkrs (Mono-Dir)(1 Color)	EACH	59

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

6/5/2018 3:40:13 PM
G:\Jobs\SH14\Const_PIN-100341-02\002A1.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-14(63)	2A2

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	716-01.23	Snwplwble Pvmt Mrkrs (Bi-Dir)(2 Color)	EACH	740
	716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	336
(18)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	1140
(18)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	579
(18)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	20
	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	12
	716-04.04	PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)	L.F.	456
	716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	2
(37)	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	L.M.	5
(27)	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	30448
(27)	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	531
(27)	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	16
(17)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	31
	716-12.03	ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	1975
	716-13.01	SPRAY THERMO PVMT MRKNG (60 mil) (4IN LINE)	L.M.	3
	716-13.02	SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	L.M.	1
	717-01	MOBILIZATION	LS	1
(3)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	10990
(7)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	66571
(3)	740-11.04	TEMPORARY SEDIMENT TUBE 20IN	L.F.	115864
(34)	801-01	SEEDING (WITH MULCH)	UNIT	1220
(21)(34)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	4779
(31)	801-01.30	COVER CROP SEED MIX (RIPZN/FLPL) W/MULCH	UNIT	26
(22)	801-02	SEEDING (WITHOUT MULCH)	UNIT	336
(19)	801-03	WATER (SEEDING & SODDING)	M.G.	3260
	801-07	SEED (SUPPLEMENTAL APPLICATION)	LB.	275
(35)	801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	TON	2
(24)	802-02.30	CUTTINGS: SALIX NIGRA (18 IN-24 IN LENGTH)	EACH	146
(24)	802-02.31	CUTTINGS: SALIX SERICEA (18 IN-24 IN LENGTH)	EACH	146
(25)	802-11.01	ACER NEGUNDO (BOX ELDER 2-5FT CNTNR GRWN)	EACH	17
(25)	802-11.16	FRAXINUS PENNSYLVANICA (GREEN ASH 2-5FT CNTNR GRWN)	EACH	17
(25)	802-11.18	LIQUIDAMBER STYRAIFLUA (SWEETGUM 2-5FT CNTNR GRWN)	EACH	17
(25)	802-11.39	QUERCUS RUBRA (NORTHERN RED OAK 2-5FT CNTNR GRWN)	EACH	17
(25)	802-11.44	ULMUS AMERICANA (AMERICAN ELM 2-5FT CNTNR GRWN)	EACH	44
	803-01	SODDING (NEW SOD)	S.Y.	266076
	805-01.03	TURF REINFORCEMENT MAT (CLASS III)	S.Y.	4846
(3)	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	29799
(23)	805-12.08	700 GRAM COIR FIBER EROSION BLANKET	S.Y.	2804
(20)	806-02.03	PROJECT MOWING	CYCL.	10

(1) SALVAGE SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
(2) INCLUDES REMOVAL OF THE FOLLOWING PIPE: 24" AT 542+56.02
(3) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATION FOR MAINTENANCE REPLACEMENT.
(4) QUANTITY INCLUDES ONE REPLACEMENT BAG FOR EACH LOCATION SHOWN IN EPSC PLANS.
(5) ITEM NO. 203-50 SHALL INCLUDE GEOTEXTILE (TYPE IV), BORROW EXCAVATION (GRADED SOLID ROCK) OR MACHINED RIP-RAP (CLASS A-1, CLASS B, OR CLASS C), MINERAL AGGREGATE (SIZE 57) AND TEMPORARY DRAINAGE PIPE (IF APPLICABLE). THE MINERAL AGGREGATE INCLUDES AN ADDITIONAL TEN (10) PERCENT FOR MAINTENANCE.
(6) INCLUDES 5196 TONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(7) FOR USE IN FILLING EXISTING PONDS, AND STABILIZING UNDERCUT AREAS
(8) SEE LOW FLOW CHANNEL STD. DWG. STD-15-16A FOR DETAILS.
(9) 93 C.Y. FOR EPSC, 2364 C.Y. FOR STR-1 NATURAL STREAM DESIGN, AND 26,220 C.Y. FOR TOPSOIL FROM FILL AREAS.
(10) ALL QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(11) TO BE USED FOR LINING DIVERSION CHANNELS AND COVERING OF EXCAVATED MATERIAL STOCKPILES.
(12) SEE EPSC SPECIAL NOTES, SHEET 79.
(13) SEE PG. 23 OF SOILS REPORT FOR DETAILS
(14) SEE GRADING SPECIAL NOTES ON SHEET 2D.
(15) STANDARD DRAWING STD-1-7 (OR STD-1-11) IS TO BE USED FOR BURIAL OF THE OUTLET PIPE AND FOR END TREATMENT DETAILS.
(16) 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.
(17) CONTRACTOR SHALL USE THE RIBBON METHOD FOR APPLICATION.
(18) THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
(19) INCLUDES 478 THOUSAND GALLONS FOR EROSION PREVENTION AND SEDIMENT CONTROL.
(20) 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.
(21) INCLUDES 51 UNITS FOR STR-1 NATURAL STREAM DESIGN
(22) INCLUDES 26 UNITS FOR STR-1 NATURAL STREAM DESIGN
(23) FOR NATURAL STREAM DESIGN STR-1
(24) INCLUDES 109 EA FOR STR-1 NATURAL STREAM DESIGN AND 37 EA FOR STR-2
(25) INCLUDES 12 EA FOR STR-1 NATURAL STREAM DESIGN AND 5 EA FOR STR-2
(26) INCLUDES 620 TONS OF 303-10.01 & 4230 TONS OF 709-05.08 FOR BRIDGES PER TDOT STRUCTURES
(27) FOR TEMPORARY MARKINGS FOR TRAFFIC CONTROL AND FOR STRIPING ON INTERMEDIATE PAVEMENT LAYERS.
(28) RELOCATE FOOTBRIDGE AS DIRECTED BY THE ENGINEER.
(29) ITEM TO BE USED AS DIRECTED BY THE ENGINEER.
(30) THE BEDDING MATERIAL SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE CULVERT.
(31) FOR NATURAL STREAM DESIGN.
(32) 24,447 L.F. USED FOR PHASE 1 AND 25,698 L.F. USED FOR PHASE 2 TRAFFIC CONTROL.
(33) USED IN BOX CULVERT WINGWALL CONSTRUCTION
(34) THE COST OF FERTILIZER AND LIME USED IN INITIAL SEED BED PREPARATION IS TO BE INCLUDED IN COST OF THE SEEDING. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
(35) THE COST OF ANY NECESSARY LIME TO BE IN CONJUNCTION WITH SUPPLEMENTAL FERTILIZER IS TO BE INCLUDED IN THE COST OF THE SUPPLEMENTAL FERTILIZER. SEE SECTION 801 OF TDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
(36) FOR TRAFFIC CONTROL. QUANTITY SHOWN IS ONLY THE ABOVE GROUND PORTION.
(37) INCLUDES 3 MILES FOR TEMPORARY MARKING FOR TRAFFIC CONTROL AND FOR STRIPING ON INTERMEDIATE PAVEMENT LAYERS & 2 MILES FOR FINAL PAVEMENT MARKINGS.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

6/5/2018 3:41:44 PM
G:\Jobs\SH14\Const_PIN-100341-02\002A2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-I 4(63)	2C

GENERAL NOTES

GRADING

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

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

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

SEEDING AND SODDING

(1) 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.

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

GUARDRAIL

(1) THE 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.

(2) 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 TEMPORARY BARRICADES OR DRUMS WITH TYPE “A” LIGHTS TO DELINEATE GUARDRAIL END AND A TEMPORARY ROUNDED END ELEMENT SHALL BE INCLUDED IN THE COST OF THE PROPOSED GUARDRAIL END TERMINAL.

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

DRAINAGE

(1) 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.

(2) 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 (PIPE CULVERTS, STORM SEWERS, CONDUITS, ALL OTHER CULVERTS AND MINOR STRUCTURES).

(3) 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.

(4) 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).

(5) 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.

(6) 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.

(7) ALL EXISTING PIPES AS SHOWN ON 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), C.Y.

FENCING

(1) LOCATION OF THE FENCE SHALL BE ONE FOOT INSIDE THE RIGHT-OF-WAY EXCEPT WHERE SHOWN ON THE PLANS.

(2) FENCES SHALL BE TURNED IN AT DRAINAGE STRUCTURES, STOCK PASSES AND BRIDGES WHERE DIRECTED BY THE ENGINEER SO AS TO ABUT WINGWALLS AND/OR ABUTMENTS.

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

MISCELLANEOUS

(1) 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.

(2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.

(3) 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

(1) 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 APPROXIMATE 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 MARKINGS ON INTERMEDIATE LAYERS

(1) 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. 716-05.01, PAINTED PAVEMENT MARKING (4” LINE), L.M.

(2) 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.

(3) 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. 716-05.02, PAINTED PAVEMENT MARKING (8” BARRIER LINE), L.F.

FINAL PAVEMENT MARKING

(4) 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.

(5) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 8” 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. 716-12.03, ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE), L.F. 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.

(6) 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.

(7) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6” 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. 716-13.02, SPRAY THERMO PVMT MRKNG (60 mil) (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.

(8) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S WORK. SHORT, UNMARKED SECTIONS SHALL NOT BE ALLOWED. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.01, PAINTED PAVEMENT MARKING (4IN LINE), L.M.

(9) PERMANENT PAVEMENT LINE MARKINGS SHALL BE REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY’S 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 (6IN LINE), L.M.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(10) THE PAVEMENT MARKING ON THE LANE SHIFT FOR CENTERLINE, EDGELINES, AND LANE LINES 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 , L.M.

(11) 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.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

IB-17-11

6/4/2018 5:38:34 PM
G:\Jobs\SH141\Const_PIN-100341-02\002C.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-I 4(63)	2C1

GENERAL NOTES

PAVEMENT

PAVING

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

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

(3) 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.

RESURFACING

(4) WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.

(5) ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.

(6) PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL ONE FOOT OF WIDTH PER ONE INCH DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.

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

GRADED SOLID ROCK

(1) 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.

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

SIGNING

(1) 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.

(2) 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 TRAFFIC OPERATIONS DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802. THE CONTRACTOR SHALL VERIFY ALL SUPPORT LENGTHS AT THE SITE PRIOR TO ORDERING MATERIAL.

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

(4) 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.

(5) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC OPERATIONS DIVISION, SIGNING SECTION (TDOT.TrafficOps@TN.GOV) FOR REVIEW. ONE PDF SET OF THE LAYOUT DRAWINGS SHALL BE SENT TO THE REGIONAL SIGN DESIGNER FOR REVIEW.

(6) 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.

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

(8) 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.

(9) 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.

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

TRAFFIC CONTROL DIRECTIONAL SIGNING

(1) 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. 712-06 , AS DIRECTED BY THE ENGINEER. NEW SUPPORTS AND SIGN FACE FOR FINAL LOCATION WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.

SIGNALIZATION

(2) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.

(3) EQUIPMENT AND INSTALLATION SHALL COMPLY WITH THE TDOT "SPECIAL PROVISIONS REGARDING SECTION 730M-TRAFFIC SIGNALS."

(4) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE (CITY OR COUNTY) AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE SHELBY COUNTY PUBLIC WORKS DEPARTMENT.

(5) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.

(6) AN ADVANCE FLASH OPERATION PERIOD IS REQUIRED TO MAKE MOTORISTS AWARE OF THE PRESENCE OF NEW SIGNAL HEADS. NEW SIGNAL HEADS SHALL BE PUT IN FLASH OPERATION FOR MINIMUM OF SEVEN (7) CALENDAR DAYS UP TO FOURTEEN (14) CALENDAR DAYS PRIOR TO ACTIVATION OF NORMAL TRAFFIC SIGNAL OPERATION. OTHER FLASH OPERATION TIME PERIODS MAY BE CONSIDERED UPON WRITTEN APPROVAL FROM THE REGIONAL TRAFFIC ENGINEER.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

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

(2) 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.

(3) 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.

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

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

(6) 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.

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

(8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

EROSION PREVENTION AND SEDIMENT CONTROL

NATURAL RESOURCES

(9) 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.

(10) 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.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

IB-17-11

6/4/2018 5:40:24 PM
G:\Jobs\SH14\Const_PIN-100341-02\002C1.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-I 4(63)	2C2

GENERAL NOTES

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

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

(13) 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.

(14) 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.

(15) 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.

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

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

SPECIES

(18) 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.

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

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

INSPECTION, MAINTENANCE & REPAIR

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

PERMITS, PLANS & RECORDS

(22) 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).

(23) 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.

(24) 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.

(25) 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.

(26) 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.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

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

(28) 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.

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

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

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

(32) 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.

(33) 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.

(34) ALL PAINT CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL BE DISPOSED OF ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS AND APPLICABLE STATE AND LOCAL REGULATIONS.

(35) 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.

(36) 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.

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

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

SUPPORT ACTIVITIES

(39) 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.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

IB-17-11

6/4/2018 5:42:14 PM
G:\Jobs\SH14\Const_PIN-100341-02\002C2.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-14(63)	2D

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.

EXCAVATION

(1) 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.

DEMOLITION

DEMOLITION OF BUILDINGS

(1) IF THE ASBESTOS SURVEY AND ABATEMENT IS NOT PART OF THE ON TRACT, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE TDOT HAZARDOUS MATERIALS OFFICE TO VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED FOR ANY BUILDING TO BE REMOVED. IN THE CASE THAT NO SURVEY HAS BEEN COMPLETED THE CONTRACTOR SHALL COORDINATE WITH THE HAZARDOUSE MATERIAL OFFICE IN SCHEDULING A SURVEY.

(2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT SHALL BE COMPLETED PRIOR TO ANY DEMOLITION ACTIVITIES FOR BUILDINGS INCLUDED IN THE PROJECT. ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.

(3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT.

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

(1) IF THE CONTRACTOR SHALL VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATIONS ACTIVITIES (NOT INCLUDING ASPHALT MILLING OR OVERLAY).

(2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATION OF BRIDGE(S).

ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.

(3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT.

HISTORICAL

(1) THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVING AND COORDINATING WITH THE TDOT REGIONAL SIGN SHOP FOR STORING HISTORIC MARKER(S). AT THE TIME THE MARKER(S) IS TAKEN DOWN, LINDA WYNN WITH THE TENNESSEE HISTORICAL COMMISSION SHOULD BE NOTIFIED AT (615)-770-1093. AT THE END OF CONSTRUCTION, MARKER(S) WILL BE RESET BY THE SIGN SHOP AT THE DIRECTION OF THE REGIONAL TRAFFIC ENGINEER. IF THE MARKER CANNOT BE RESET OUTSIDE OF THE CLEAR ZONE, THE REGIONAL TRAFFIC ENGINEER WILL CONTACT THE TENNESSEE HISTORIC COMMISSION AND RETURN THE MARKER(S).

SIGNALIZATION

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

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) CLIFF SWALLOW AND BARN SWALLOW NESTS, EGGS, OR BIRDS (YOUNG AND ADULTS) WILL NOT BE DISTURBED BETWEEN APRIL 15 AND JULY 31. FROM AUGUST 1 TO APRIL 14, NESTS CAN BE REMOVED OR DESTROYED, AND MEASURES IMPLEMENTED TO PREVENT FUTURE NEST BUILDING AT THE SITE (E.G, CLOSING OFF AREA USING NETTING).

PROJECT COMMITMENTS

(4) SEE PROJECT COMMITMENTS, SHEET 1B, FOR DETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

IB-17-11
6/4/2018 5:43:51 PM
G:\Jobs\SH14\Const_PIN-100341-02\002D.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	5
CONST.	2018	STP-14(63)	5

REV. 5-06-09: COMBINED TRACT 2 TO TRACT 1 AND REMOVED PERM. DRAIN. ESMT. OFF NEW TRACT 1.

S.R. 14 M.L.C.L.
CURVE SC100
PI 305+17.58
N 378,046.3737
E 829,078.3586
Δ 2° 50' 15" (LT)
D 0° 30' 00"
R 11,459.16
L 567.53
T 283.82

E.B. S.R. 14
PI 806+03.70
N 378,097.7207
E 829,150.2619
Δ 2° 50' 15" (LT)
D 0° 30' 00"
R 11,459.16
L 567.50
T 283.81
SE R.C.
DESIGN SPEED 70 MPH

GPS 79-14-23
N 378326.3784
E 829249.0241
EL. 288.19
12" W
36.6' EW
114.5'
CP-S23
EXIST. S.R. 14 (ASP.)

GPS 79-14-23A
N 379010.2183
E 829859.9418
EL. 288.46
9.7'
RW
GPS 79-14-23A
CP-S123
43.3'
EXIST. S.R. 14 (ASP.)
RW

TRACT NO. (3)
FIRST TENNESSEE NATIONAL BANK ASSOC.
TRUSTEE OF BETTY JANE THOMPSON
INTER VIVOS TRUST

WETLAND AREAS WITHIN THE PROPOSED FILL/CUT AREAS SHOULD BE UNDERCUT APPROXIMATELY 3' TO REMOVE THE SOFT SATURATED MATERIAL AS DIRECTED BY THE ENGINEER AND PLACE BACK 3' OF GRADED SOLID ROCK WRAPPED WITH TYPE IV GEOTEXTILE FABRIC. SEE CROSS SECTIONS AND GEOTECH REPORT FOR MORE INFORMATION.

NOTE:
CONSTRUCT PROPOSED DITCH STA. 315+50 TO STA. 318+80. TIE EXISTING DITCH STA. 319+33 TO PROPOSED DITCH STA. 318+80 PRIOR TO CONSTRUCTING HAUL ROAD.

TRACT NO. (1)
STATE OF TENNESSEE

310 79022-2290-14
BEGIN PROJ. NO. STP-14(43) (R.O.W.)
STA. 305+71.30
N 378089.8364
E 829110.2314

315

810

POND
TRIBUTARY TO BIG CREEK
CULTIVATED
STR-2
STR-3
PT 308+01.29
PT 907+19.35
W.B.C.L. STA. 909+98.91
M.L.C.L. STA. 310+00 - 24' LT.
N 378437.9217
E 829361.3839
DETAIL CRANE PAD
SCALE = 1.5X
40'
40'
10' R
22'
END HAUL ROAD
STA. 7+00.00
N 378898.4267
E 829700.2595
END HAUL ROAD
STA. 12+90.00
N 378976.4606
E 829778.6096
PROPOSED 42' X 150' 3 SPAN, 45°SKEW CONCRETE GIRDER BRIDGE
WOODS
WETL-2
WETLAND
CUT
FILL
CRANE PAD
END PROP. BR.
STA. 317+26.01
N 51° 08' 38" W
N 40° 21' 20" E
S 40° 51' 24" W
WWC-2
EB STA. 317+50.25
4" PLASTIC
INV-286.16
OUTLET DITCH
4" PLASTIC
INV-284.81
4" PLASTIC
INV-285.40 CONC. DITCH
CP-S23
N 38° 42' 30" E
PERM. WETLAND IMPACT
50'R
24'+/-
EXIST. S.R. 14 (ASP.)
EXISTING GUARDRAIL TO BE REMOVED
2 @ 150.5' = 8' X 8' RCBC
EW 4" PLASTIC
INV-287.25
4" PLASTIC
INV-285.33
MAIN RD. STA. 5+00.00 =
M.L.C.L. STA. 314+08.08 -0.30' LT.
N 378735.5914
E 829629.5814
BEGIN PROP. BR.
STA. 315+76.63
BB STA. 316+00.24
BEGIN PROP. BR.
STA. 316+24.01
END PROP. BR.
STA. 317+74.64
N 41° 30' 53" E
EXIST. BRIDGE @ LM 30.24 5 SPAN BRIDGE ON CONCRETE BENTS WITH CONCRETE DECK #79SR0140041
GPS 79-14-23A
N 379010.2183
E 829859.9418
EL. 288.46
PROPOSED 42' X 150' 3 SPAN, 45°SKEW CONCRETE GIRDER BRIDGE
EXIST. BRIDGE TO BE REMOVED
34.5' X 142.5'
MATCH LINE STA. 305+00.00 SEE SHEET NO. 4
MATCH LINE STA. 318+00.00 SEE SHEET NO. 6
SEE SHEET 5A R.O.W. DETAIL SHEET FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY
EARTH BERM
TRIBUTARY TO BIG CREEK
WWC-1
E.B.C.L. STA. 810+01.08
M.L.C.L. STA. 310+00 - 24' RT.
N 378407.9047
E 829398.8403
PERM. WETLAND IMPACT
WTL-3
313+70.42
PC 5+00.27
20'R
TRACT NO. (1)
STATE OF TENNESSEE
CLYDE H. ELDER, JR.
TRACT NO. (3)
FIRST TENNESSEE NATIONAL BANK ASSOC.
TRUSTEE OF BETTY JANE THOMPSON
INTER VIVOS TRUST
HAUL ROAD 1
CURVE DC46
PI 5+51.60
N 378,767.9624
E 829,589.4006
Δ 91° 29' 58" (RT)
D 114° 35' 30"
R 50.00
L 79.85
T 51.33
S.R. 14 M.L.C.L.
CURVE SC101
PI 316+51.12
N 378,931.0126
E 829,787.2958
Δ 2° 48' 23" (RT)
D 0° 30' 00"
R 11,459.16
L 561.30
T 280.71
SE R.C.
DESIGN SPEED 70 MPH
HAMLETT R. DOBBINS
MARITAL TRUST
P/T
TBM #2
INV-276.33
INV-276.06
24" CMP
RICKS RD. (ASP.)
EXIST. BRIDGE @ LM 79-59-1.98 3 SPAN ON CONCRETE BENTS WITH CONCRETE DECK

LEGEND	WETLAND IMPACTS (WTL-2)
	AREA OF PERMANENT IMPACT = 1.010 AC.
	VOLUME OF PERMANENT IMPACT = 1630 C.Y.
LEGEND	WETLAND IMPACTS (WTL-3)
	AREA OF PERMANENT IMPACT = 1.272 AC.
	VOLUME OF PERMANENT IMPACT = 2052 C.Y.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 305+00 TO STA. 318+00

SCALE: 1"= 50'

6/4/2018 6:21:06 PM
G:\Jobs\SH14\Const_PIN-100341-02\005.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	9
CONST.	2018	STP-14(63)	9

REV. 6-03-08: ADD STATION AND OFFSET FLAGS AT STA. 365+34.19 OFFSET 132.36' & STA. 365+54.47 OFFSET 97.74'. CHANGED TR. 14 TO TR. 13.

WETLAND AREAS WITHIN THE PROPOSED FILL/CUT AREAS SHOULD BE UNDERCUT APPROXIMATELY 3' TO REMOVE THE SOFT SATURATED MATERIAL AS DIRECTED BY THE ENGINEER AND PLACE BACK 3' OF GRADED SOLID ROCK WRAPPED WITH TYPE IV GEOTEXTILE FABRIC. SEE CROSS SECTIONS AND GEOTECH REPORT FOR MORE INFORMATION.

NOTE:
CONSTRUCT PROPOSED DITCH STA. 365+50 TO STA. 369+50. TIE EXISTING DITCH STA. 370+00 TO PROPOSED DITCH STA. 369+50 PRIOR TO CONSTRUCTING HAUL ROAD.

TRACT NO. (11)
JOHN W. III AND SHARON (WIFE) McCALL

TRACT NO. (13)
SNEED BROTHERS (PSO)

TRACT NO. (10)
BERYL O. PENNINGTON

TRACT NO. (12)
HAMLETT R. DOBBINS MARITAL TRUST

TRACT NO. (13)
SNEED BROTHERS (PSO)

HAUL ROAD 3
CURVE DC505
PI 15+50.03
N 382,486.3899
E 832,882.8511
Δ 90° 00' 00" (RT)
D 114° 35' 30"
R 50.00
L 78.54
T 50.00

HAUL ROAD 4
CURVE DC502
PI 20+50.62
N 382,909.4579
E 833,257.3354
Δ 90° 00' 00" (LT)
D 114° 35' 30"
R 50.00
L 78.54
T 50.00

END HAUL ROAD
STA. 16+61.63
N 382586.0234
E 832971.0451

END HAUL ROAD
STA. 22+30.00
N 382759.0717
E 833124.2160

HAUL RD. STA. 15+00.00 =
M.L.C.L. STA. 363+65.00 - 11.39' RT.
N 382453.2294
E 832920.3129

HAUL RD. STA. 20+00.00 =
M.L.C.L. STA. 369+30.00 - 11.97' RT.
N 382875.9063
E 833295.2389

CP-S27
GPS 79-14-27
N 382244.6790
E 832779.0853
EL. 288.41

CP-S28
GPS 79-14-28
N 382869.8047
E 833279.5689
EL. 290.04

EXISTING GUARDRAIL TO BE REMOVED

EXIST. BRIDGE @ LM 31.00 7 SPAN BRIDGE ON CONCRETE BENTS WITH CONCRETE DECK #79SR0140043

EXIST. BRIDGE TO BE REMOVED 30' X 214'

TBM #3 PROPOSED DUAL 42" X 255'-2"± 5 SPAN, 55° SKEW CONCRETE GIRDER BRIDGE

EXIST. S.R. 14 (ASP.)

PROP. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

PERM. WETLAND IMPACT

WETLAND FILL

CRANE PAD

DETAIL CRANE PAD SCALE = 1.5X

BEGIN PROP. BR. STA. 365+18.62 WTL-6

BEGIN PROP. BR. STA. 365+52.23

END PROP. BR. STA. 367+73.78

END PROP. BR. STA. 368+07.39

PC 15+00.03

PC 20+00.62

BB STA. 365+35.42

EB STA. 367+90.58

CROOKED CREEK

T.V.A. ESMT.

STR-4

ELEV. = 334.79
TEMP = 22°-15°
10-17-02

WOODS

CULTIVATED

FILL

CUT

GRAVEL

BARB WIRE

ABANDONED HOUSE

POND

PND-1

MAPLE

10" MAPLE

FENCE CORNER

LEGEND | WETLAND IMPACTS (WTL-6)
AREA OF PERMANENT IMPACT = 0.159 AC.
VOLUME OF PERMANENT IMPACT = 257 C.Y.

MATCH LINE STA. 357+00.00 SEE SHEET NO. 8

MATCH LINE STA. 370+00.00 SEE SHEET NO. 10

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 357+00 TO STA. 370+00

SCALE: 1"= 50'

6/4/2018 6:22:09 PM
G:\Jobs\SH14\Const_PIN-100341-02\009.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	16
CONST.	2018	STP-14(63)	16

REV. 6-03-08: CHANGED OWNERS NAME TR. 23 FROM GRAVES C. & FRANCIS M. (WIFE) LEGGETT TO LEGGETT FAMILY PARTNERSHIP, L.P.

WETLAND AREAS WITHIN THE PROPOSED FILL/CUT AREAS SHOULD BE UNDERCUT APPROXIMATELY 3' TO REMOVE THE SOFT SATURATED MATERIAL AS DIRECTED BY THE ENGINEER AND PLACE BACK 3' OF GRADED SOLID ROCK WRAPPED WITH TYPE IV GEOTEXTILE FABRIC. SEE CROSS SECTIONS AND GEOTECH REPORT FOR MORE INFORMATION.

LEGEND	WETLAND IMPACTS (WTL-7)
	STA. 457+85 TO 462+15 RT. AREA OF PERMANENT IMPACT = 0.146 AC. VOLUME OF PERMANENT IMPACT = 236 C.Y.
	STA. 460+45 TO 463+50 LT. AREA OF PERMANENT IMPACT = 1.176 AC. VOLUME OF PERMANENT IMPACT = 1898 C.Y.
	STA. 465+10 TO 466+95 LT. AREA OF PERMANENT IMPACT = 0.176 AC. VOLUME OF PERMANENT IMPACT = 284 C.Y.
	TOTAL AREA OF PERMANENT IMPACT = 1.498 AC. TOTAL VOLUME OF PERMANENT IMPACT = 2418 C.Y.

450

E 838250 N 389250

GPS 79-14-38
N 389342.6723
E 839074.8138
EL. 309.48
CP-S38

GPS 79-14-38

64.3'

Δ65.1'

TRACT NO. (19)
BERNADINE TAYLOR GOSHORN, ET AL

LIMIT OF CONST. 25+00.00

POT 25+00.00
N 389404.7690
E 838454.9847

E 838500

N 389000

STA. 454+62.00 M.L.C.L.=
STA. 30+00.00 S.R. 205
(MILLINGTON-ARLINGTON ROAD) LT. & RT.
N 389278.4975
E 838934.5792

455

S.R. 205 LT.
MILLINGTON ARLINGTON RD.
CURVE DC3
PI 28+42.84
N 389,348.6143
E 838,793.1905
Δ 16° 57' 01" (RT)
D 19° 00' 00"
R 301.56
L 89.21
T 44.93
SE 0.040 FT/FT
DESIGN SPEED 30 MPH

TRACT NO. (20)
BURDINE PEPPERS

TRACT NO. (21)
TRUSTEES OF & FOR THE GREENWOOD A.M.E. CHURCH

TRACT NO. (28)
TRUSTEES OF THE GREENWOOD A.M.E. CHURCH

TRACT NO. (22)
AUSTIN PEAY PARTNERS

460

TRACT NO. (27)
AUSTIN PEAY PARTNERS
GRASS

K.C. JR. AND DORIS (WF) ARNETT

TRACT NO. (18A)
CITY OF MEMPHIS

E 838750

CULTIVATED

MILLINGTON ARLINGTON RD.
CURVE DC4
PI 32+19.98
N 389,180.7641
E 839,131.6563
Δ 30° 38' 04" (LT)
D 19° 00' 00"
R 301.56
L 161.23
T 82.59
SE 0.040 FT/FT
DESIGN SPEED 30 MPH
TRANS. LENGTH 110

TRACT NO. (23)
LEGGETT FAMILY PARTNERSHIP, LP

TRACT NO. (31)
JAMES I. FREUDENBERG
TRACT NO. (25)
RAY L. AND DOROTHY M.(WF.) WHITE

TRACT NO. (26)
NEW DEVELOPMENT LLC
TRACT NO. (24)
NEW DEVELOPMENT LLC

CONTACT TDOT REGION 4 HIGHWAY MARKING REGARDING BLUE STAR MEMORIAL HIGHWAY SIGN PRIOR TO BEGINNING CONSTRUCTION

SCARIFY, ADD TOPSOIL & SEED

DONNELL RD. (ASP.)

PERM. WETLAND IMPACT

EXISTING PIPE TO BE PLUGGED

EXISTING PIPE TO BE REMOVED

EXISTING PIPE TO REMAIN

EXIST. S.R. 14 (ASP.)

APPROX. LOCATION OUTLET
ELEV. UNKNOWN

SIGN "BLUE STAR MEMORIAL HWY. TRIBUTE TO ARMED FORCES"

WOODEN BRIDGE

CONC. PICNIC TABLE

TBM #17

WWC-10

CANOPY OVER GAS PUMPS

UNDERGROUND GAS TANK OPENINGS

SHELL/ SUBWAY I-S-BL

BLOCK WALL

TS 34+80.16 SHED

I-S-F RES.

TANK 1A-10000 GAL. GAS TANK
TANK 2A-5000 GAL. GAS TANK
TANK 2B-5000 GAL. DIESEL TANK
I.D. NUMBER 9-792730

CURTAIN DRAIN

1-S-B RES.

SHED

WELL

GREENWOOD AME CHURCH

S 7° 49' 47" W
194.93'

S 7° 28' 40" W
97.68'
460+76.50
255.66'
S 9° 02' 25" E
49.23'

N 41° 24' 55" E

S 68° 37' 21" E

N 85° 44' 35" E

SEE SHEET NO. 15

SEE SHEET NO. 17

MATCH LINE STA. 448+00.00 SEE SHEET NO. 15

MATCH LINE STA. 461+00.00 SEE SHEET NO. 17

MATCH LINE STA. 35+00.00 SEE SHEET NO. 16D

SEE SHEET 16A R.O.W. DETAIL SHEET FOR BEARINGS & DISTANCES AND STATIONS & OFFSETS ON R.O.W. & PROPERTY

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

PRESENT LAYOUT

STA. 448+00 TO STA. 461+00

SCALE: 1"= 50'

6/4/2018 6:23:15 PM
G:\Jobs\SH14\Const_PIN-100341-021016.sht

DRAINAGE DATA FOR PIPE
STATION: 300+50.00
PROPOSED STRUCTURE:
#38-S C.B. 94' OF 18" RCP

INLET	285.00	ELEV.
OUTLET	281.00	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	1.31	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	19	%
DISCHARGE (Q50)	5.48	CFS
DISCHARGE (Q100)	5.91	CFS
VELOCITY (Q50)	9.92	FT/S
VELOCITY (Q100)	10.26	FT/S

DRAINAGE DATA FOR PIPE
STATION: 304+89.85
PROPOSED STRUCTURE:
2 AT 8' X 8' RCBC

INLET	274.50	ELEV.
OUTLET	274.00	ELEV.
SKEW	76° 21' 23" RT	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	18.9	SQ. MI.
TERRAIN	FLAT	
IMPERVIOUS AREA	4	%
DISCHARGE (Q50)	108.00	CFS
DISCHARGE (Q100)	207.40	CFS
VELOCITY (Q100)	0.84	FT/S

DRAINAGE DATA FOR PIPE
STATION: 310+50.00
PROPOSED STRUCTURE:
#38-S C.B. 114' OF 18" RCP

INLET	287.50	ELEV.
OUTLET	276.75	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	0.42	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	26	%
DISCHARGE (Q50)	2.35	CFS
DISCHARGE (Q100)	2.59	CFS
VELOCITY (Q50)	8.60	FT/S
VELOCITY (Q100)	9.20	FT/S

DRAINAGE DATA FOR PIPE
STATION: 311+70.00
PROPOSED STRUCTURE:
#38-S C.B. 128' OF 18" RCP

INLET	288.58	ELEV.
OUTLET	287.49	ELEV.
SKEW	0°	DEG.
FLOW	BACK TO AHEAD	
DRAINAGE AREA	0.07	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	43	%
DISCHARGE (Q50)	0.35	CFS
DISCHARGE (Q100)	0.37	CFS
VELOCITY (Q50)	1.00	FT/S
VELOCITY (Q100)	1.10	FT/S

DRAINAGE DATA FOR PIPE
STATION: 313+00.00
PROPOSED STRUCTURE:
#38-S C.B. 110' OF 18" RCP

INLET	287.37	ELEV.
OUTLET	276.12	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	0.18	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	25	%
DISCHARGE (Q50)	0.79	CFS
DISCHARGE (Q100)	0.84	CFS
VELOCITY (Q50)	8.80	FT/S
VELOCITY (Q100)	8.90	FT/S

DRAINAGE DATA FOR BRIDGE
STATION: 316+75.00
PROPOSED STRUCTURE:
BRIDGE

INLET	N/A	ELEV.
OUTLET	N/A	ELEV.
SKEW	45° RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	18.9	SQ. MI.
TERRAIN	FLAT	
IMPERVIOUS AREA	5	%
DISCHARGE (Q100)	2126.00	CFS

DRAINAGE DATA FOR PIPE
STATION: 321+50.00
PROPOSED STRUCTURE:
#38-S C.B. 114' OF 18" RCP

INLET	287.50	ELEV.
OUTLET	276.15	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	0.77	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	29	%
DISCHARGE (Q50)	1.15	CFS
DISCHARGE (Q100)	1.22	CFS
VELOCITY (Q50)	9.00	FT/S
VELOCITY (Q100)	9.20	FT/S

DRAINAGE DATA FOR PIPE
STATION: 323+65.00
PROPOSED STRUCTURE:
#38-S C.B. @ 6' RT. 122' OF 18" RCP

INLET	289.76	ELEV.
OUTLET	276.70	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	0.42	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	40	%
DISCHARGE (Q50)	1.91	CFS
DISCHARGE (Q100)	2.03	CFS
VELOCITY (Q50)	2.65	FT/S
VELOCITY (Q100)	2.70	FT/S

DRAINAGE DATA FOR PIPE
STATION: 328+50.00
PROPOSED STRUCTURE:
#38-S C.B. 120' OF 18" RCP

INLET	291.26	ELEV.
OUTLET	277.80	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	0.77	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	17	%
DISCHARGE (Q50)	3.16	CFS
DISCHARGE (Q100)	3.35	CFS
VELOCITY (Q50)	10.70	FT/S
VELOCITY (Q100)	11.10	FT/S

DRAINAGE DATA FOR PIPE
STATION: 11+53.67
PROPOSED STRUCTURE:
140' OF 30" RCP

INLET	277.6	ELEV.
OUTLET	277	ELEV.
SKEW	58°37'12" RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	11.6	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	8	%
DISCHARGE (Q50)	16.29	CFS
DISCHARGE (Q100)	18.50	CFS
VELOCITY (Q50)	5.90	FT/S
VELOCITY (Q100)	6.10	FT/S

DRAINAGE DATA FOR PIPE
STATION: 18+76.00
PROPOSED STRUCTURE:
144' OF 30" RCP

INLET	277.55	ELEV.
OUTLET	277.14	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	6.1	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	21	%
DISCHARGE (Q50)	9.50	CFS
DISCHARGE (Q100)	10.75	CFS
VELOCITY (Q50)	2.60	FT/S
VELOCITY (Q100)	2.90	FT/S

79024-2290-14
BEGIN PROJECT STP-14(43) (R.O.W.)
STA. 305+71.30
N 378089.8364
E 829110.2314

79022-3233-14
BEGIN PROJECT STP-14(63) (CONST.)
PHASE 2 STA. 900+00.00 =
19.97' LT. STA. 300+00.00 M.L.C.L.
N 377672.2452
E 828720.1410

79022-3233-14
BEGIN PROJECT STP-14(63) (CONST.)
PHASE 2 STA. 800+00.00 =
19.76' RT. STA. 300+00.00 M.L.C.L.
N 377645.8955
E 828749.8760

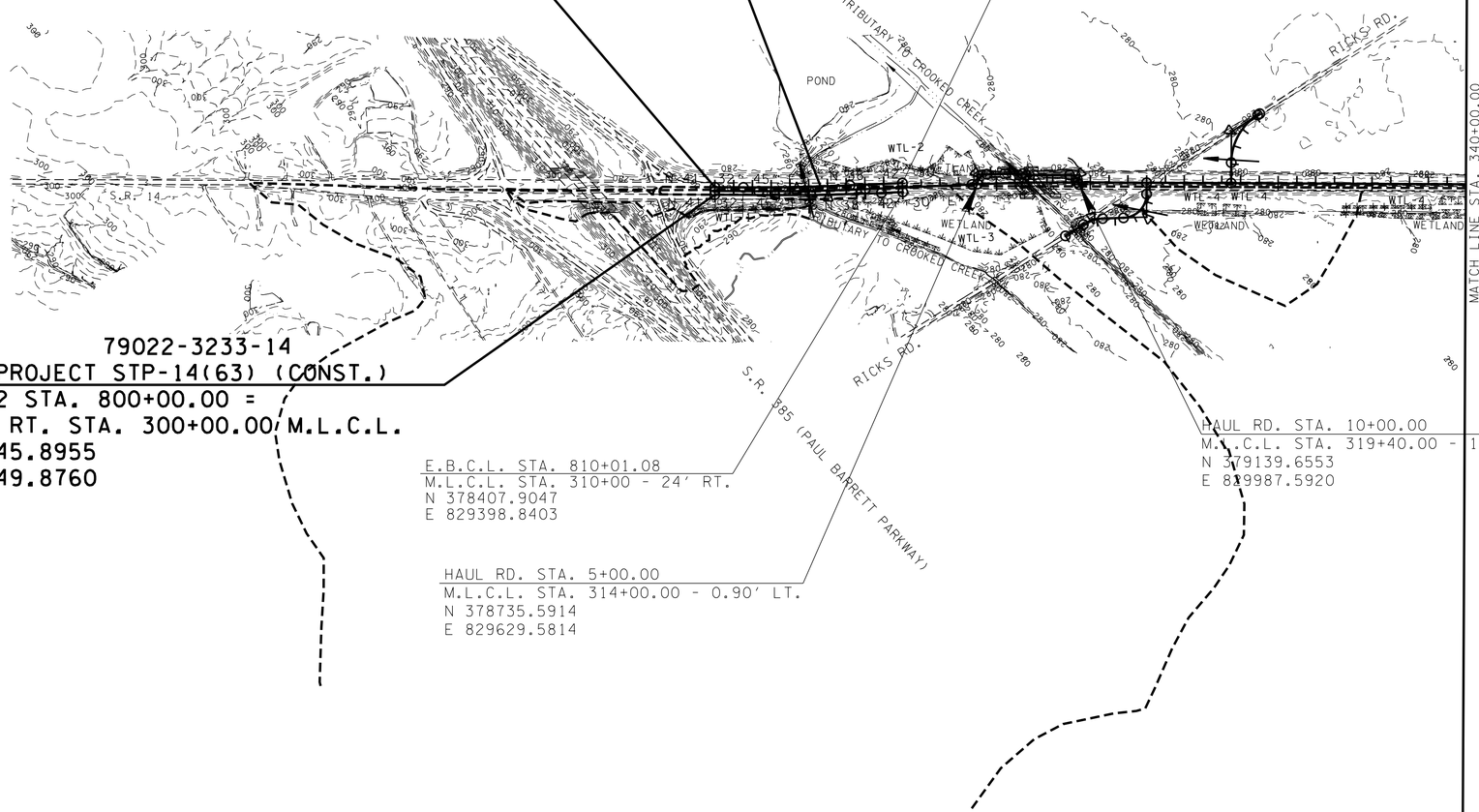
300 305 310 315 320 325 330 335 340

W.B.C.L. STA. 909+98.91
M.L.C.L. STA. 310+00 - 24' LT.
N 378437.9217
E 829361.3839

E.B.C.L. STA. 810+01.08
M.L.C.L. STA. 310+00 - 24' RT.
N 378407.9047
E 829398.8403

HAUL RD. STA. 5+00.00
M.L.C.L. STA. 314+00.00 - 0.90' LT.
N 378735.5914
E 829629.5814

HAUL RD. STA. 10+00.00
M.L.C.L. STA. 319+40.00 - 11.69' RT.
N 379139.6553
E 829987.5920



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	43
CONST.	2018	STP-14(63)	49

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

B.O.P. TO STA.340+00
SCALE: 1"=400'

6/5/2018 9:51:36 AM
G:\Jobs\SH14\Const_PIN-100341-02\049.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	43A
CONST.	2018	STP-14(63)	50

DRAINAGE DATA FOR PIPE
STATION: 347+50.00
PROPOSED STRUCTURE:
#38-S C.B. 104' OF 18" RCP

INLET	287.26	ELEV.
OUTLET	281.85	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	1.49	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	16	%
DISCHARGE (Q50)	4.03	CFS
DISCHARGE (Q100)	4.25	CFS
VELOCITY (Q50)	10.10	FT/S
VELOCITY (Q100)	10.30	FT/S

DRAINAGE DATA FOR PIPE
STATION: 351+50.00
PROPOSED STRUCTURE:
#38-S C.B. 98' OF 18" RCP

INLET	285.45	ELEV.
OUTLET	281.80	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	0.65	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	18	%
DISCHARGE (Q50)	2.04	CFS
DISCHARGE (Q100)	2.16	CFS
VELOCITY (Q50)	6.60	FT/S
VELOCITY (Q100)	6.80	FT/S

DRAINAGE DATA FOR PIPE
STATION: 354+50.00
PROPOSED STRUCTURE:
#39-S C.B. 102' OF 18" RCP

INLET	286.75	ELEV.
OUTLET	281.75	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	1.2	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	17	%
DISCHARGE (Q50)	2.36	CFS
DISCHARGE (Q100)	2.54	CFS
VELOCITY (Q50)	7.60	FT/S
VELOCITY (Q100)	7.90	FT/S

DRAINAGE DATA FOR BRIDGE
STATION: 366+55.00
PROPOSED STRUCTURE:
BRIDGE

INLET	N/A	ELEV.
OUTLET	N/A	ELEV.
SKEW	55° RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	18.9	SQ. MI.
TERRAIN	FLAT	
IMPERVIOUS AREA	5	%
DISCHARGE (Q100)	4400.00	CFS

DRAINAGE DATA FOR PIPE
STATION: 370+68.00
PROPOSED STRUCTURE:
#38-S C.B. 126' OF 18" RCP

INLET	291.29	ELEV.
OUTLET	277.44	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	0.41	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	15	%
DISCHARGE (Q50)	1.43	CFS
DISCHARGE (Q100)	1.51	CFS
VELOCITY (Q50)	6.20	FT/S
VELOCITY (Q100)	6.50	FT/S

DRAINAGE DATA FOR PIPE
STATION: 380+00.00
PROPOSED STRUCTURE:
#39-S C.B. 94' OF 18" RCP

INLET	286.00	ELEV.
OUTLET	283.00	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	2.42	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	16	%
DISCHARGE (Q50)	5.43	CFS
DISCHARGE (Q100)	7.30	CFS
VELOCITY (Q50)	10.20	FT/S
VELOCITY (Q100)	10.60	FT/S

DRAINAGE DATA FOR PIPE
STATION: 393+45.00
PROPOSED STRUCTURE:
#39-S C.B. 104' OF 18" RCP

INLET	292.25	ELEV.
OUTLET	285.50	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	1.6	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	15	%
DISCHARGE (Q50)	4.38	CFS
DISCHARGE (Q100)	4.92	CFS
VELOCITY (Q50)	11.10	FT/S
VELOCITY (Q100)	11.70	FT/S

DRAINAGE DATA FOR PIPE
STATION: 405+87.00
PROPOSED STRUCTURE:
89' OF 30" RCP
#2 J.B. @ 9.31' LT. 94' OF 30" RCP

INLET	295.85	ELEV.
OUTLET	291.00	ELEV.
SKEW	90°	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	5.6	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	11	%
DISCHARGE (Q50)	15.80	CFS
DISCHARGE (Q100)	17.14	CFS
VELOCITY (Q50)	11.12	FT/S
VELOCITY (Q100)	11.33	FT/S

DRAINAGE DATA FOR PIPE
STATION: 409+92.00
PROPOSED STRUCTURE:
93' OF 24" RCP
#1 J.B. 82' OF 24" RCP

INLET	297.25	ELEV.
OUTLET	292.93	ELEV.
SKEW	80°27'40" RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	2.5	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	13	%
DISCHARGE (Q50)	7.59	CFS
DISCHARGE (Q100)	8.33	CFS
VELOCITY (Q50)	8.52	FT/S
VELOCITY (Q100)	8.73	FT/S

DRAINAGE DATA FOR PIPE
STATION: 420+50.00
PROPOSED STRUCTURE:
#38-S C.B. 78' OF 18" RCP

INLET	292.19	ELEV.
OUTLET	291.80	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	1.31	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	21	%
DISCHARGE (Q50)	3.18	CFS
DISCHARGE (Q100)	3.54	CFS
VELOCITY (Q50)	4.30	FT/S
VELOCITY (Q100)	4.40	FT/S

DRAINAGE DATA FOR PIPE
STATION: 424+50.00
PROPOSED STRUCTURE:
73' OF 24" RCP
#38-S C.B. 12' OF 24" RCP

INLET	290.96	ELEV.
OUTLET	290.62	ELEV.
SKEW	90° RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	6.25	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	16	%
DISCHARGE (Q50)	16.24	CFS
DISCHARGE (Q100)	16.95	CFS
VELOCITY (Q50)	5.17	FT/S
VELOCITY (Q100)	5.40	FT/S

DRAINAGE DATA FOR PIPE
STATION: 424+50.00
PROPOSED STRUCTURE:
#1 J.B. 62' OF 24" RCP

INLET	290.50	ELEV.
OUTLET	290.07	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	8.94	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	16	%
DISCHARGE (Q50)	22.17	CFS
DISCHARGE (Q100)	23.61	CFS
VELOCITY (Q50)	7.06	FT/S
VELOCITY (Q100)	7.52	FT/S

DRAINAGE DATA FOR PIPE
STATION: 434+00.00
PROPOSED STRUCTURE:
146' OF 45"x 29" HORZ. OVAL CONC. PIPE CULV.

INLET	298.43	ELEV.
OUTLET	297.70	ELEV.
SKEW	81°51'34" LT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	17.4	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	5	%
DISCHARGE (Q50)	31.35	CFS
DISCHARGE (Q100)	33.07	CFS
VELOCITY (Q50)	4.91	FT/S
VELOCITY (Q100)	5.06	FT/S

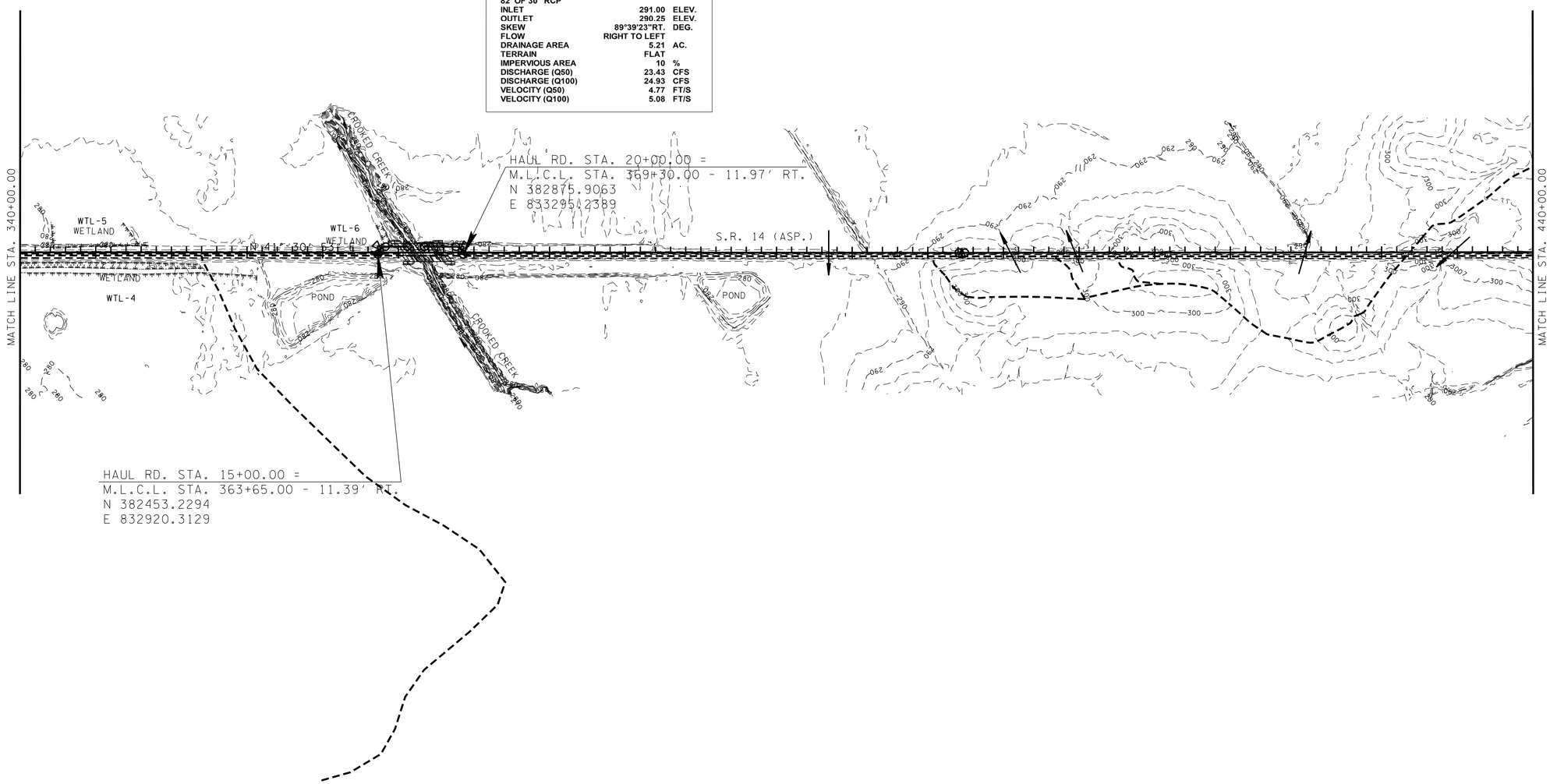
DRAINAGE DATA FOR PIPE
STATION: 434+50.00
PROPOSED STRUCTURE:
#38-S C.B. 80' OF 18" RCP

INLET	298.08	ELEV.
OUTLET	297.82	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	1.15	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	75	%
DISCHARGE (Q50)	4.41	CFS
DISCHARGE (Q100)	4.44	CFS
VELOCITY (Q50)	3.85	FT/S
VELOCITY (Q100)	3.95	FT/S

340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440

DRAINAGE DATA FOR PIPE
STATION: 423+92.56
PROPOSED STRUCTURE:
17' OF 30" RCP
82' OF 30" RCP

INLET	291.00	ELEV.
OUTLET	290.25	ELEV.
SKEW	89°39'23"RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	5.21	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	10	%
DISCHARGE (Q50)	23.43	CFS
DISCHARGE (Q100)	24.93	CFS
VELOCITY (Q50)	4.77	FT/S
VELOCITY (Q100)	5.08	FT/S



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.340+00 TO STA.440+00

SCALE: 1"=400'

6/4/2018 6:36:08 PM
G:\Jobs\SH14\Const_PIN-100341-02\050.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	43B
CONST.	2018	STP-14(63)	51

REV. 10-02-08: REMOVED SIDE RD. AT STA. 514+60 RT. AND ADDED TURNAROUND. REMOVED OR ADJUSTED DRAINAGE NOTES IN THIS AREA.

REV. 10-25-10: MOVED MEDIAN DRAIN FROM STA. 490+60 TO STA. 487+58.

DRAINAGE DATA FOR PIPE
STATION: 448+00.00
PROPOSED STRUCTURE:
#38-S C.B. 82' OF 18" RCP

INLET	302.00	ELEV.
OUTLET	301.25	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	0.63	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	81	%
DISCHARGE (Q50)	2.70	CFS
DISCHARGE (Q100)	2.90	CFS
VELOCITY (Q50)	5.10	FT/S
VELOCITY (Q100)	5.20	FT/S

DRAINAGE DATA FOR PIPE
STATION: 454+64.69
PROPOSED STRUCTURE:
182' OF 36" RCP

INLET	303.38	ELEV.
OUTLET	302.48	ELEV.
SKEW	67°47'05" LT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	15	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	9	%
DISCHARGE (Q50)	22.68	CFS
DISCHARGE (Q100)	24.30	CFS
VELOCITY (Q50)	4.90	FT/S
VELOCITY (Q100)	5.10	FT/S

DRAINAGE DATA FOR PIPE
STATION: 455+50.00
PROPOSED STRUCTURE:
#38-S C.B. 86' OF 18" RCP

INLET	305.00	ELEV.
OUTLET	304.57	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	0.78	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	100	%
DISCHARGE (Q50)	5.24	CFS
DISCHARGE (Q100)	5.55	CFS
VELOCITY (Q50)	4.20	FT/S
VELOCITY (Q100)	4.30	FT/S

DRAINAGE DATA FOR PIPE
STATION: 31+30.00
PROPOSED STRUCTURE:
84' OF 36" RCP

INLET	302.8	ELEV.
OUTLET	302.4	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	18.42	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	8	%
DISCHARGE (Q50)	32.73	CFS
DISCHARGE (Q100)	34.90	CFS
VELOCITY (Q50)	7.70	FT/S
VELOCITY (Q100)	7.80	FT/S

DRAINAGE DATA FOR PIPE
STATION: 462+65.00
PROPOSED STRUCTURE:
#38-S C.B. 80' OF 18" RCP

INLET	308.00	ELEV.
OUTLET	307.50	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	1.18	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	26	%
DISCHARGE (Q50)	4.80	CFS
DISCHARGE (Q100)	5.20	CFS
VELOCITY (Q50)	5.20	FT/S
VELOCITY (Q100)	5.30	FT/S

DRAINAGE DATA FOR PIPE
STATION: 463+00.00
PROPOSED STRUCTURE:
154' OF 36" RCP

INLET	307.27	ELEV.
OUTLET	306.50	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	14.4	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	4	%
DISCHARGE (Q50)	27.10	CFS
DISCHARGE (Q100)	29.90	CFS
VELOCITY (Q50)	6.92	FT/S
VELOCITY (Q100)	7.08	FT/S

DRAINAGE DATA FOR PIPE
STATION: 447+26.81
PROPOSED STRUCTURE:
#2 J.B. 55' OF 36" RCP
102' OF 36" RCP

INLET	302.30	ELEV.
OUTLET	298.00	ELEV.
SKEW	89°56'50" LT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	15.8	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	8	%
DISCHARGE (Q50)	32.40	CFS
DISCHARGE (Q100)	35.80	CFS
VELOCITY (Q50)	13.51	FT/S
VELOCITY (Q100)	13.94	FT/S

DRAINAGE DATA FOR PIPE
STATION: 472+40.50
PROPOSED STRUCTURE:
#2 J.B. @ 2.17' RT. 87' OF 30" RCP
24' OF 30" RCP

INLET	311.25	ELEV.
OUTLET	309.24	ELEV.
SKEW	72°42'34" LT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	11.2	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	8	%
DISCHARGE (Q50)	20.80	CFS
DISCHARGE (Q100)	22.00	CFS
VELOCITY (Q50)	4.51	FT/S
VELOCITY (Q100)	4.67	FT/S

DRAINAGE DATA FOR PIPE
STATION: 479+86.00
PROPOSED STRUCTURE:
59' OF 36" RCP
#2 J.B. 91' OF 36" RCP

INLET	309.10	ELEV.
OUTLET	308.40	ELEV.
SKEW	90°	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	16.9	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	6	%
DISCHARGE (Q50)	31.20	CFS
DISCHARGE (Q100)	35.10	CFS
VELOCITY (Q50)	6.87	FT/S
VELOCITY (Q100)	7.22	FT/S

DRAINAGE DATA FOR PIPE
STATION: 480+50.00
PROPOSED STRUCTURE:
#39-S C.B. 82' OF 18" RCP

INLET	309.50	ELEV.
OUTLET	309.00	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEF TO RIGHT	
DRAINAGE AREA	1.54	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	17	%
DISCHARGE (Q50)	5.90	CFS
DISCHARGE (Q100)	6.10	CFS
VELOCITY (Q50)	5.40	FT/S
VELOCITY (Q100)	5.40	FT/S

DRAINAGE DATA FOR PIPE
STATION: 487+58.00
PROPOSED STRUCTURE:
#38-S C.B. 80' OF 18" RCP

INLET	313.09	ELEV.
OUTLET	312.65	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	1.83	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	14	%
DISCHARGE (Q50)	5.42	CFS
DISCHARGE (Q100)	5.74	CFS
VELOCITY (Q50)	4.90	FT/S
VELOCITY (Q100)	4.90	FT/S

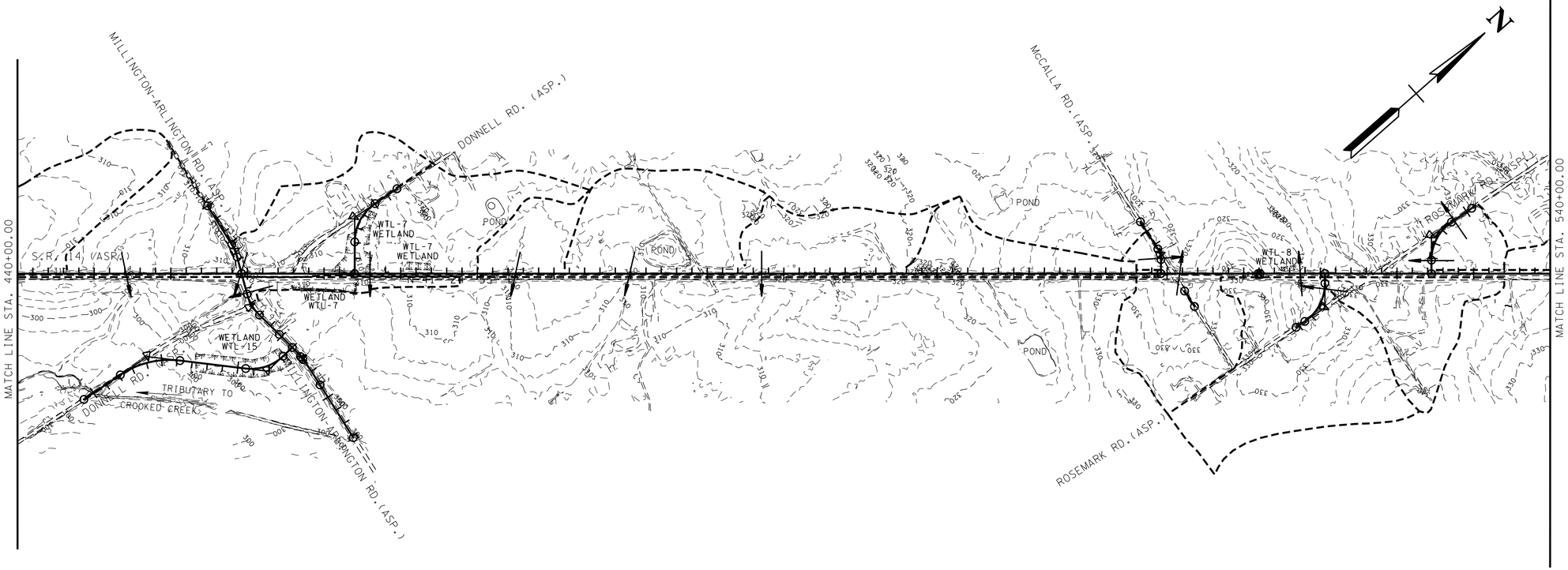
DRAINAGE DATA FOR PIPE
STATION: 488+47.00
PROPOSED STRUCTURE:
64' OF 36" RCP
#2 J.B. 93' OF 36" RCP

INLET	312.30	ELEV.
OUTLET	311.50	ELEV.
SKEW	90°	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	18.4	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	5	%
DISCHARGE (Q50)	34.00	CFS
DISCHARGE (Q100)	38.80	CFS
VELOCITY (Q50)	7.26	FT/S
VELOCITY (Q100)	7.44	FT/S

DRAINAGE DATA FOR PIPE
STATION: 504+50.00
PROPOSED STRUCTURE:
#38-S C.B. 86' OF 18" RCP

INLET	321.45	ELEV.
OUTLET	321.00	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	0.92	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	22	%
DISCHARGE (Q50)	4.00	CFS
DISCHARGE (Q100)	4.30	CFS
VELOCITY (Q50)	4.50	FT/S
VELOCITY (Q100)	4.60	FT/S

440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540



DRAINAGE DATA FOR PIPE
STATION: 49+00.00
PROPOSED STRUCTURE:
84' OF 18" RCP

INLET	324.1	ELEV.
OUTLET	322	ELEV.
SKEW	90° RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	1	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	25	%
DISCHARGE (Q50)	4.00	CFS
DISCHARGE (Q100)	4.30	CFS
VELOCITY (Q50)	8.10	FT/S
VELOCITY (Q100)	8.30	FT/S

DRAINAGE DATA FOR PIPE
STATION: 515+81.70
PROPOSED STRUCTURE:
90' OF 18" RCP

INLET	322.00	ELEV.
OUTLET	321.05	ELEV.
SKEW	82°13'50" RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	3.06	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	7	%
DISCHARGE (Q50)	7.57	CFS
DISCHARGE (Q100)	7.99	CFS
VELOCITY (Q50)	4.28	FT/S
VELOCITY (Q100)	4.52	FT/S

DRAINAGE DATA FOR PIPE
STATION: 515+81.70
PROPOSED STRUCTURE:
#39RB C.B. 18' OF 18" RCP

INLET	320.79	ELEV.
OUTLET	320.50	ELEV.
SKEW	82°13'50" LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	3.28	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	7	%
DISCHARGE (Q50)	8.28	CFS
DISCHARGE (Q100)	8.74	CFS
VELOCITY (Q50)	4.69	FT/S
VELOCITY (Q100)	4.94	FT/S

DRAINAGE DATA FOR PIPE
STATION: 523+69.50
PROPOSED STRUCTURE:
80' OF 48" RCP

INLET	321.00	ELEV.
OUTLET	320.00	ELEV.
SKEW	85°30'00" RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	34	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	7	%
DISCHARGE (Q50)	67.30	CFS
DISCHARGE (Q100)	75.20	CFS
VELOCITY (Q50)	11.90	FT/S
VELOCITY (Q100)	12.30	FT/S

DRAINAGE DATA FOR PIPE
STATION: 523+69.50
PROPOSED STRUCTURE:
#3 J.B. 14' OF 48" RCP
#39RB C.B. 70' OF 48" RCP

INLET	320.00	ELEV.
OUTLET	319.10	ELEV.
SKEW	85°30'00" RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	35.17	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	8	%
DISCHARGE (Q50)	71.70	CFS
DISCHARGE (Q100)	80.10	CFS
VELOCITY (Q50)	12.10	FT/S
VELOCITY (Q100)	12.50	FT/S

DRAINAGE DATA FOR PIPE
STATION: 525+95.00
PROPOSED STRUCTURE:
#39-S C.B. 90' OF 18" RCP

INLET	325.10	ELEV.
OUTLET	323.95	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	1.28	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	47	%
DISCHARGE (Q50)	5.20	CFS
DISCHARGE (Q100)	5.80	CFS
VELOCITY (Q50)	6.70	FT/S
VELOCITY (Q100)	6.90	FT/S

DRAINAGE DATA FOR PIPE
STATION: 61+00.00
PROPOSED STRUCTURE:
58' OF 36" RCP

INLET	325.5	ELEV.
OUTLET	324.5	ELEV.
SKEW	90° LT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	10.8	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	12	%
DISCHARGE (Q50)	30.40	CFS
DISCHARGE (Q100)	34.00	CFS
VELOCITY (Q50)	11.90	FT/S
VELOCITY (Q100)	12.30	FT/S

DRAINAGE DATA FOR PIPE
STATION: 66+00.00
PROPOSED STRUCTURE:
58' OF 18" RCP

INLET	331.05	ELEV.
OUTLET	330.75	ELEV.
SKEW	90° LT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	1.39	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	14	%
DISCHARGE (Q50)	4.80	CFS
DISCHARGE (Q100)	5.20	CFS
VELOCITY (Q50)	4.90	FT/S
VELOCITY (Q100)	5.00	FT/S

DRAINAGE DATA FOR PIPE
STATION: 69+15.00
PROPOSED STRUCTURE:
68' OF 24" RCP

INLET	331.5	ELEV.
OUTLET	331	ELEV.
SKEW	90° LT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	2.31	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	23	%
DISCHARGE (Q50)	8.90	CFS
DISCHARGE (Q100)	9.80	CFS
VELOCITY (Q50)	6.40	FT/S
VELOCITY (Q100)	6.60	FT/S

DRAINAGE DATA FOR PIPE
STATION: 516+06.61
PROPOSED STRUCTURE:
22' OF 30" RCP

INLET	321.41	ELEV.
OUTLET	321.26	ELEV.
SKEW	59°19'41" RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	9.4	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	7	%
DISCHARGE (Q50)	22.61	CFS
DISCHARGE (Q100)	23.86	CFS
VELOCITY (Q50)	4.61	FT/S
VELOCITY (Q100)	4.86	FT/S

DRAINAGE DATA FOR PIPE
STATION: 516+06.61
PROPOSED STRUCTURE:
#3 J.B. 90' OF 36" RCP

INLET	320.43	ELEV.
OUTLET	319.65	ELEV.
SKEW	59°19'41" RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	12.67	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	7	%
DISCHARGE (Q50)	30.90	CFS
DISCHARGE (Q100)	32.60	CFS
VELOCITY (Q50)	8.34	FT/S
VELOCITY (Q100)	8.45	FT/S

DRAINAGE DATA FOR PIPE
STATION: 49+00.00
PROPOSED STRUCTURE:
84' OF 18" RCP

INLET	324.1	ELEV.
OUTLET	322	ELEV.
SKEW	90° RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	1	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	25	%
DISCHARGE (Q50)	4.00	CFS
DISCHARGE (Q100)	4.30	CFS
VELOCITY (Q50)	8.10	FT/S
VELOCITY (Q100)	8.30	FT/S

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

STA.440+00 TO STA.540+00

SCALE: 1"=400'

6/4/2018 6:36:42 PM
G:\Jobs\SH14\Const_PIN-100341-02\051.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	43C
CONST.	2018	STP-14(63)	52

DRAINAGE DATA FOR PIPE
STATION: 542+55.10
PROPOSED STRUCTURE:
150' OF 30" RCP

INLET	330.50	ELEV.
OUTLET	329.35	ELEV.
SKEW	86° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	3.9	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	22	%
DISCHARGE (Q50)	14.40	CFS
DISCHARGE (Q100)	15.70	CFS
VELOCITY (Q50)	7.30	FT/S
VELOCITY (Q100)	7.50	FT/S

DRAINAGE DATA FOR PIPE
STATION: 90+80.00
PROPOSED STRUCTURE:
66' OF 18" RCP

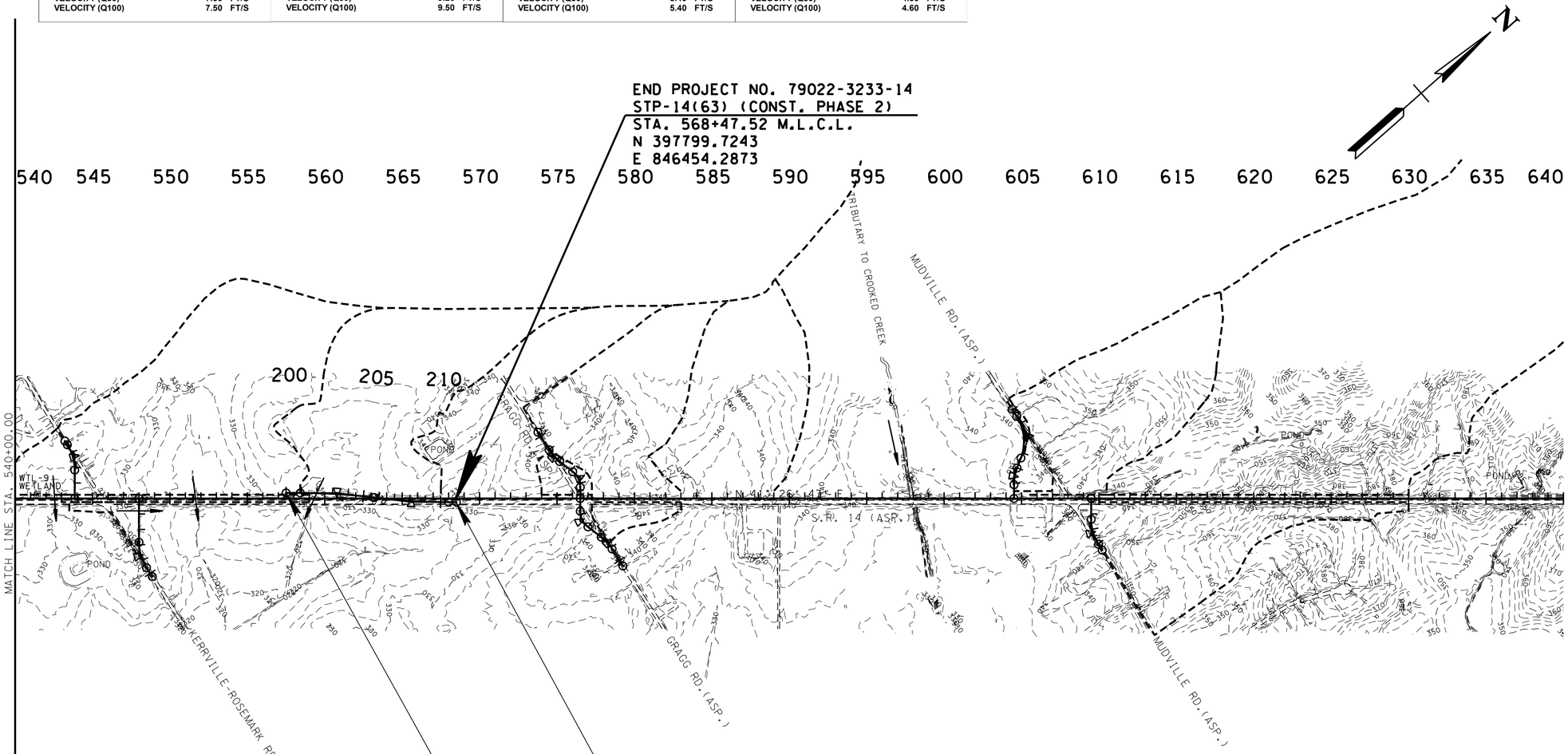
INLET	327.00	ELEV.
OUTLET	325.00	ELEV.
SKEW	90° LT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	1.2	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	45	%
DISCHARGE (Q50)	5.00	CFS
DISCHARGE (Q100)	5.40	CFS
VELOCITY (Q50)	9.20	FT/S
VELOCITY (Q100)	9.50	FT/S

DRAINAGE DATA FOR PIPE
STATION: 551+30.00
PROPOSED STRUCTURE:
#38S C.B. 78' OF 18" RCP

INLET	323.06	ELEV.
OUTLET	322.54	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	1.53	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	28	%
DISCHARGE (Q50)	5.02	CFS
DISCHARGE (Q100)	5.30	CFS
VELOCITY (Q50)	5.40	FT/S
VELOCITY (Q100)	5.40	FT/S

DRAINAGE DATA FOR PIPE
STATION: 551+65.00
PROPOSED STRUCTURE:
139.1' OF 6' X 5' RCBC

INLET	321.00	ELEV.
OUTLET	320.25	ELEV.
SKEW	83° RT.	DEG.
FLOW	RIGHT TO LEFT	
DRAINAGE AREA	35	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	7	%
DISCHARGE (Q50)	69.30	CFS
DISCHARGE (Q100)	77.39	CFS
VELOCITY (Q50)	4.30	FT/S
VELOCITY (Q100)	4.60	FT/S



DRAINAGE DATA FOR PIPE
STATION: 552+00.00
PROPOSED STRUCTURE:
#38S C.B. 80' OF 18" RCP

INLET	322.30	ELEV.
OUTLET	321.90	ELEV.
SKEW	90° RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	0.84	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	25	%
DISCHARGE (Q50)	2.79	CFS
DISCHARGE (Q100)	2.95	CFS
VELOCITY (Q50)	4.10	FT/S
VELOCITY (Q100)	4.20	FT/S

DRAINAGE DATA FOR PIPE
STATION: 559+32.00
PROPOSED STRUCTURE:
76' OF 36" RCP

INLET	326.50	ELEV.
OUTLET	322.00	ELEV.
SKEW	65° LT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	28.8	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	4	%
DISCHARGE (Q50)	39.60	CFS
DISCHARGE (Q100)	43.30	CFS
VELOCITY (Q50)	5.80	FT/S
VELOCITY (Q100)	6.20	FT/S

DRAINAGE DATA FOR PIPE
STATION: 559+32.00
PROPOSED STRUCTURE:
#39RB C.B. 94' OF 42" RCP

INLET	322.00	ELEV.
OUTLET	321.30	ELEV.
SKEW	109°00'33" RT.	DEG.
FLOW	LEFT TO RIGHT	
DRAINAGE AREA	30.37	AC.
TERRAIN	FLAT	
IMPERVIOUS AREA	5	%
DISCHARGE (Q50)	44.10	CFS
DISCHARGE (Q100)	48.20	CFS
VELOCITY (Q50)	8.20	FT/S
VELOCITY (Q100)	8.50	FT/S

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

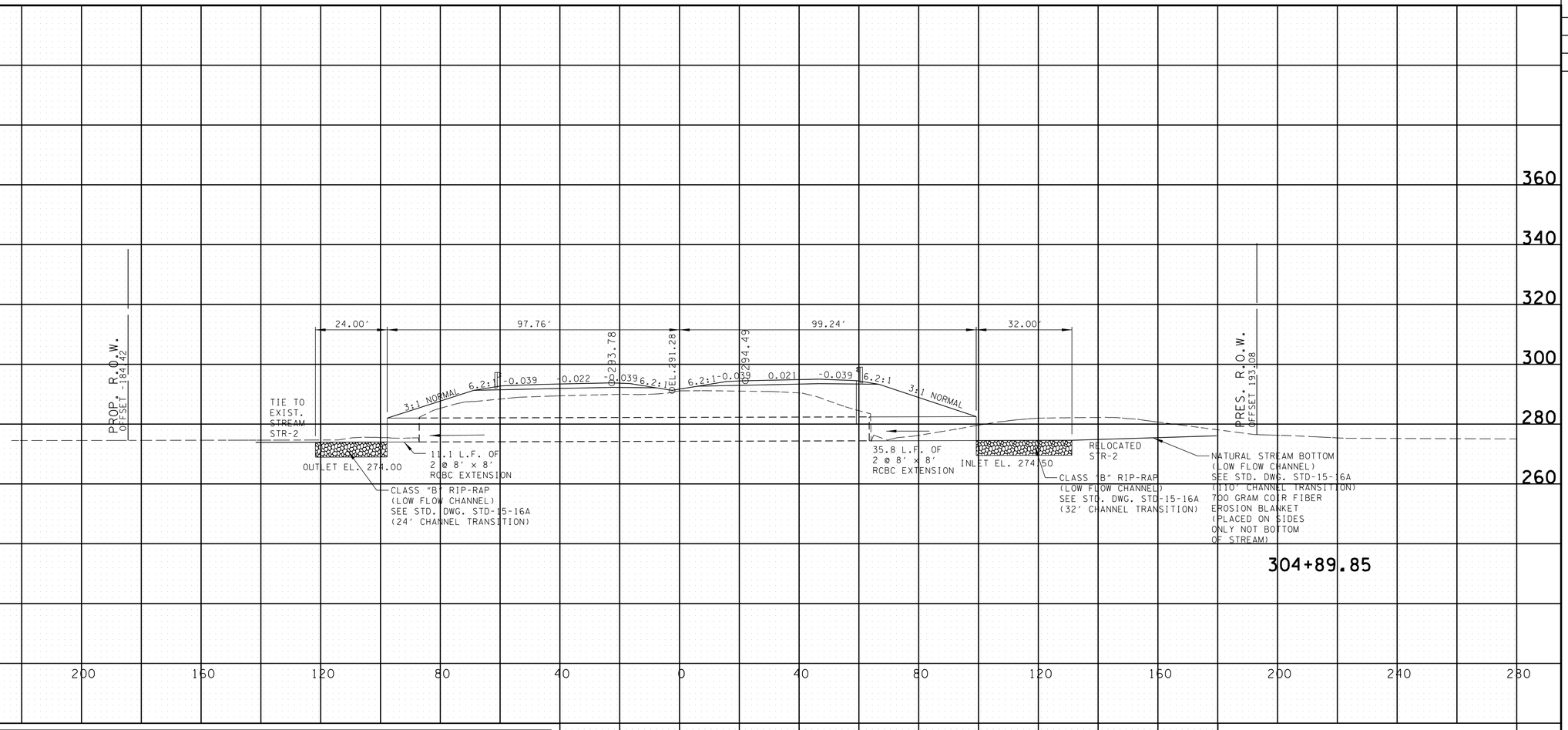
DRAINAGE MAP

STA.540+00 TO STA.xxx+xx

SCALE: 1"=400'

6/4/2018 6:37:36 PM
G:\Jobs\SH14\Const_PIN-100341-02\052.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	44
CONST.	2018	STP-14(63)	53



BOX \ SLAB TABULATION

STATION	STD. DWG.	NO. BARRELS	WIDTH	HEIGHT	LENGTH
304+89.85	STD-15-57	2	8'	8'	46.9'

FILL HEIGHT	CALCULATION FACTORS		SECTION	QUANTITY	
	CONCRETE. CY/FT	REINF. STEEL LB/FT	LENGTH FT.	CONCRETE. C.Y.	REINF. STEEL LB.
2.99' TO 0.00'				0	0
4.99' TO 3.00'				0	0
9.99' TO 5.00'				0	0
19.99 TO 10.00'	1.91	372	46.9	89.579	17446.8
29.99 TO 20.00'				0	0
39.99 TO 30.00'				0	0
49.99 TO 40.00'				0	0
59.99 TO 50.00'				0	0
> 60.00'				0	0
SUB TOTALS			46.9	89.579	17446.8

WINGWALL TABULATION

STD. DWG.	BOX/SLAB HEIGHT FT.	ST HEIGHT FT.	CURB HEIGHT FT.	TOTAL HEIGHT FT.	DESIGN HEIGHT FT.
STD-15-1 THRU	8	0.83	1	9.83	10
STD-15-10 & STD-15-12 THRU	WINGWALL STD. DWG.	SKEW	FILL SLOPE	CONCRETE. C.Y.	REINF. STEEL LB.
STD-15-10	STD-15-10	75°	3:1	28.3	3426
TOTAL QUANTITY				117.879	20872.8

BOX CULVERT
STATION: 304+89.85
STRUCTURE: 2 AT 8' X 8' RCBC EXT.

SKEW	76° 21' 23" RT	DEG.
DRAINAGE AREA	18.9	SQ. MI.
DESIGN DISCHARGE (Q100)	108.00	CFS
DESIGN DISCHARGE (Q500)	207.40	CFS
OVERTOPPING	292.50	ELEV.
ALLOWABLE HEADWATER	294.54	ELEV.
Q100 HEADWATER	291.10	ELEV.
Q500 HEADWATER	291.65	ELEV.
VELOCITY (Q100)	0.84	FT/S
INLET	274.50	ELEV.
OUTLET	274.00	ELEV.

STANDARD DRAWING NOS.: STD-15-57 & STD-15-10

QUANTITIES:

CLASS "A" CONCRETE	117.9	C.Y.
STEEL BAR REINFORCING	20872.8	LB.
BACKFILL	471.7	TONS
FOUNDATION FILL MATERIAL	30.0	C.Y.

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

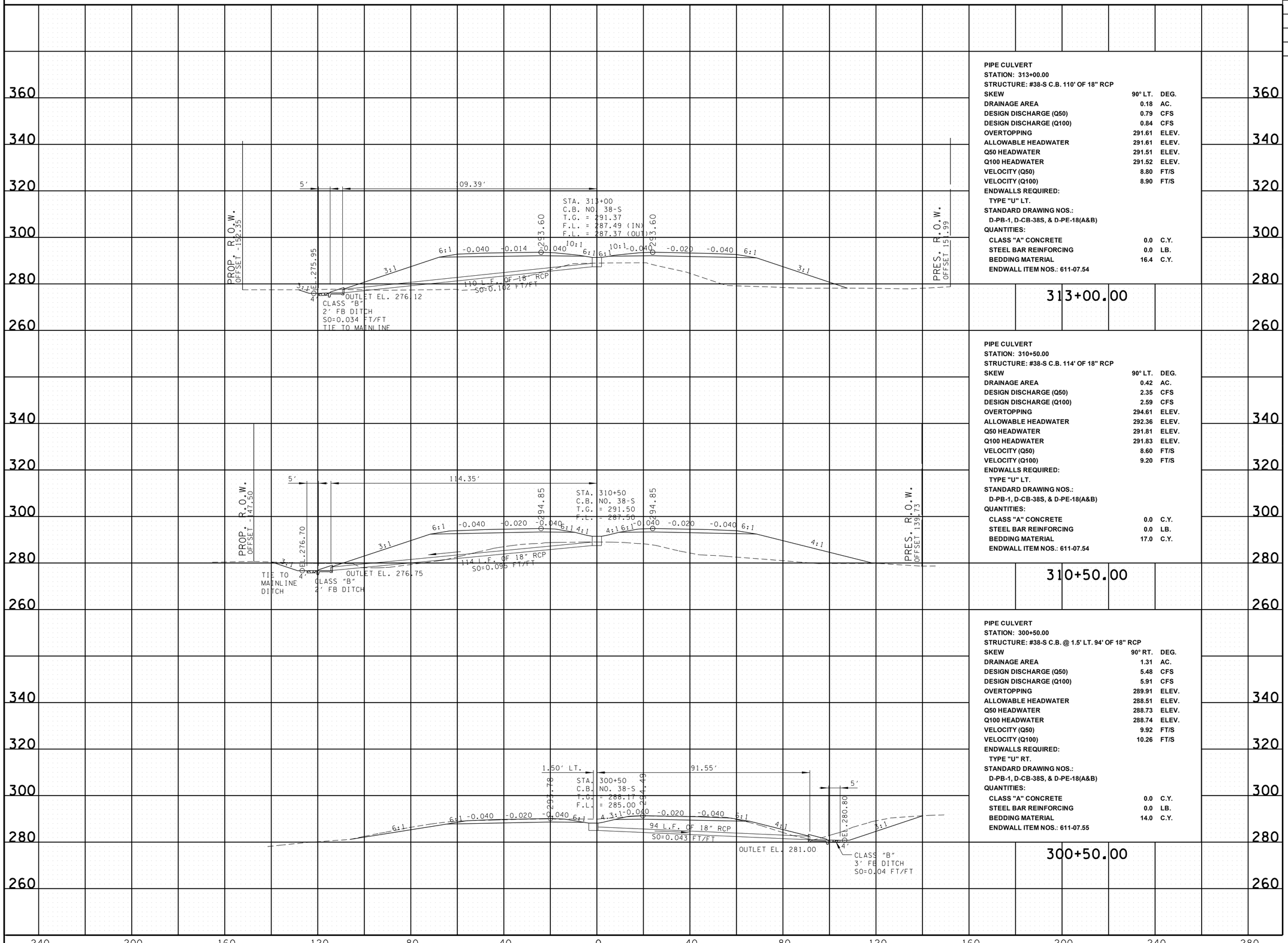
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 4:31:09 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	45
CONST.	2018	STP-14(63)	54



PIPE CULVERT
STATION: 313+00.00
STRUCTURE: #38-S C.B. 110' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	0.18	AC.
DESIGN DISCHARGE (Q50)	0.79	CFS
DESIGN DISCHARGE (Q100)	0.84	CFS
OVERTOPPING	291.61	ELEV.
ALLOWABLE HEADWATER	291.61	ELEV.
Q50 HEADWATER	291.51	ELEV.
Q100 HEADWATER	291.52	ELEV.
VELOCITY (Q50)	8.80	FT/S
VELOCITY (Q100)	8.90	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	16.4	C.Y.

ENDWALL ITEM NOS.: 611-07.54

PIPE CULVERT
STATION: 310+50.00
STRUCTURE: #38-S C.B. 114' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	0.42	AC.
DESIGN DISCHARGE (Q50)	2.35	CFS
DESIGN DISCHARGE (Q100)	2.59	CFS
OVERTOPPING	294.61	ELEV.
ALLOWABLE HEADWATER	292.36	ELEV.
Q50 HEADWATER	291.81	ELEV.
Q100 HEADWATER	291.83	ELEV.
VELOCITY (Q50)	8.60	FT/S
VELOCITY (Q100)	9.20	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	17.0	C.Y.

ENDWALL ITEM NOS.: 611-07.54

PIPE CULVERT
STATION: 300+50.00
STRUCTURE: #38-S C.B. @ 1.5' LT. 94' OF 18" RCP

SKEW	90° RT.	DEG.
DRAINAGE AREA	1.31	AC.
DESIGN DISCHARGE (Q50)	5.48	CFS
DESIGN DISCHARGE (Q100)	5.91	CFS
OVERTOPPING	289.91	ELEV.
ALLOWABLE HEADWATER	288.51	ELEV.
Q50 HEADWATER	288.73	ELEV.
Q100 HEADWATER	288.74	ELEV.
VELOCITY (Q50)	9.92	FT/S
VELOCITY (Q100)	10.26	FT/S

ENDWALLS REQUIRED:
TYPE "U" RT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	14.0	C.Y.

ENDWALL ITEM NOS.: 611-07.55

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

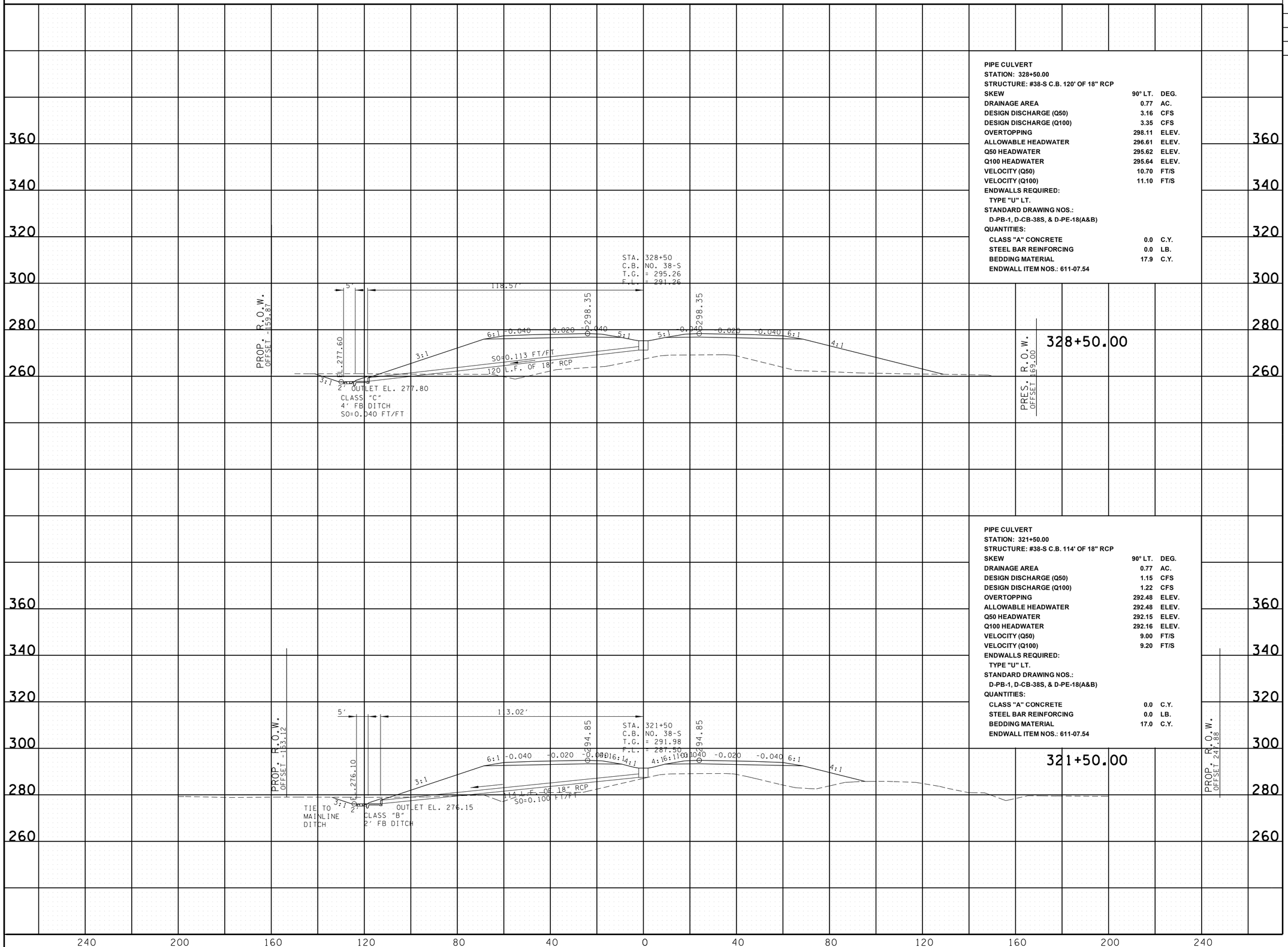
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 11:00:36 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	46
CONST.	2018	STP-14(63)	55



PIPE CULVERT
STATION: 328+50.00
STRUCTURE: #38-S C.B. 120' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	0.77	AC.
DESIGN DISCHARGE (Q50)	3.16	CFS
DESIGN DISCHARGE (Q100)	3.35	CFS
OVERTOPPING	298.11	ELEV.
ALLOWABLE HEADWATER	296.61	ELEV.
Q50 HEADWATER	295.62	ELEV.
Q100 HEADWATER	295.64	ELEV.
VELOCITY (Q50)	10.70	FT/S
VELOCITY (Q100)	11.10	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	17.9	C.Y.
ENDWALL ITEM NOS.: 611-07.54		

PIPE CULVERT
STATION: 321+50.00
STRUCTURE: #38-S C.B. 114' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	0.77	AC.
DESIGN DISCHARGE (Q50)	1.15	CFS
DESIGN DISCHARGE (Q100)	1.22	CFS
OVERTOPPING	292.48	ELEV.
ALLOWABLE HEADWATER	292.48	ELEV.
Q50 HEADWATER	292.15	ELEV.
Q100 HEADWATER	292.16	ELEV.
VELOCITY (Q50)	9.00	FT/S
VELOCITY (Q100)	9.20	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	17.0	C.Y.
ENDWALL ITEM NOS.: 611-07.54		

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

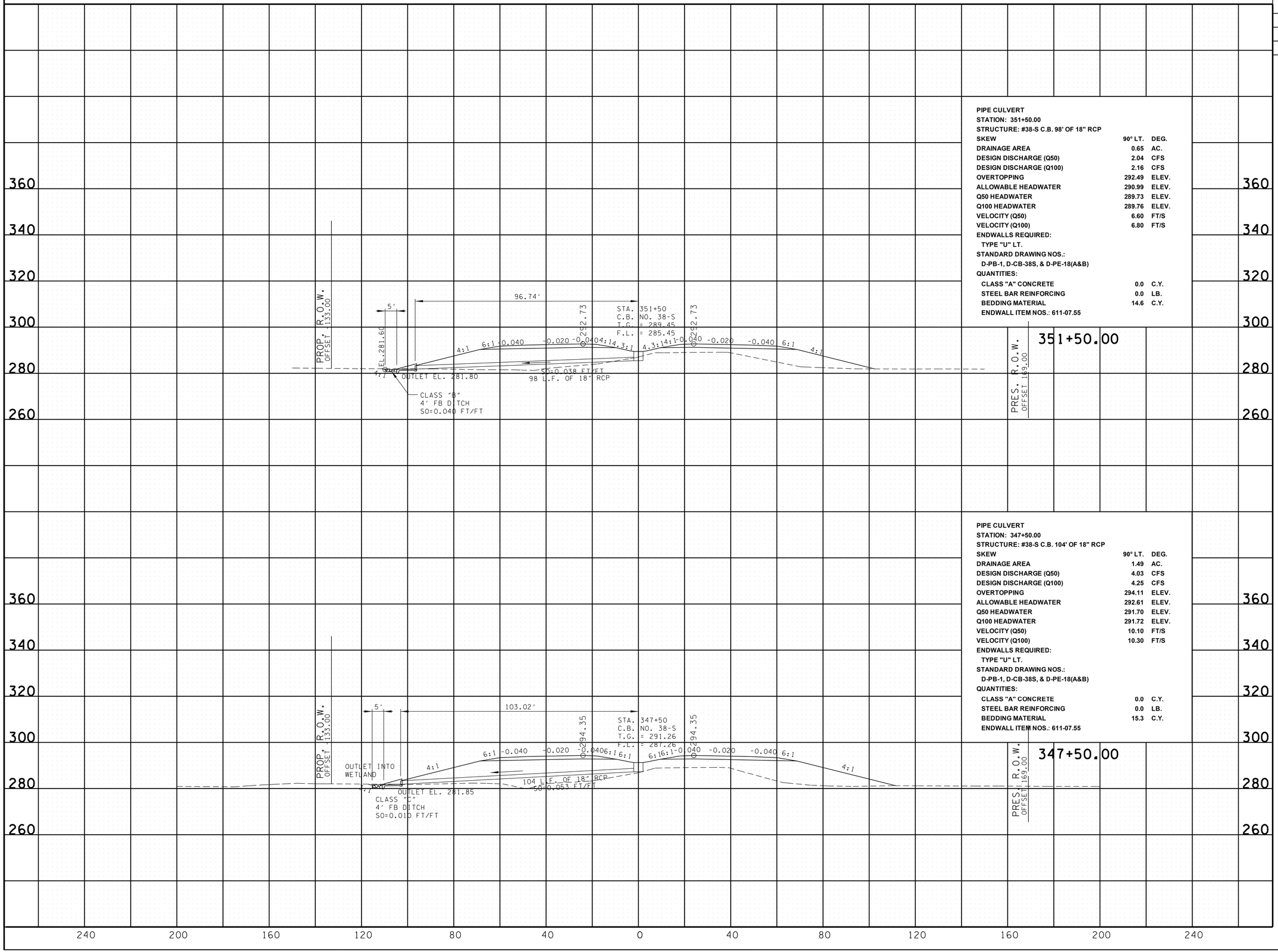
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 11:00:50 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	47
CONST.	2018	STP-14(63)	56



PIPE CULVERT
STATION: 351+50.00
STRUCTURE: #38-S C.B. 98' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	0.65	AC.
DESIGN DISCHARGE (Q50)	2.04	CFS
DESIGN DISCHARGE (Q100)	2.16	CFS
OVERTOPPING	292.49	ELEV.
ALLOWABLE HEADWATER	290.99	ELEV.
Q50 HEADWATER	289.73	ELEV.
Q100 HEADWATER	289.76	ELEV.
VELOCITY (Q50)	6.60	FT/S
VELOCITY (Q100)	6.80	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	14.6	C.Y.
ENDWALL ITEM NOS.: 611-07.55		

PIPE CULVERT
STATION: 347+50.00
STRUCTURE: #38-S C.B. 104' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	1.49	AC.
DESIGN DISCHARGE (Q50)	4.03	CFS
DESIGN DISCHARGE (Q100)	4.25	CFS
OVERTOPPING	294.11	ELEV.
ALLOWABLE HEADWATER	292.61	ELEV.
Q50 HEADWATER	291.70	ELEV.
Q100 HEADWATER	291.72	ELEV.
VELOCITY (Q50)	10.10	FT/S
VELOCITY (Q100)	10.30	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	15.3	C.Y.
ENDWALL ITEM NOS.: 611-07.55		

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

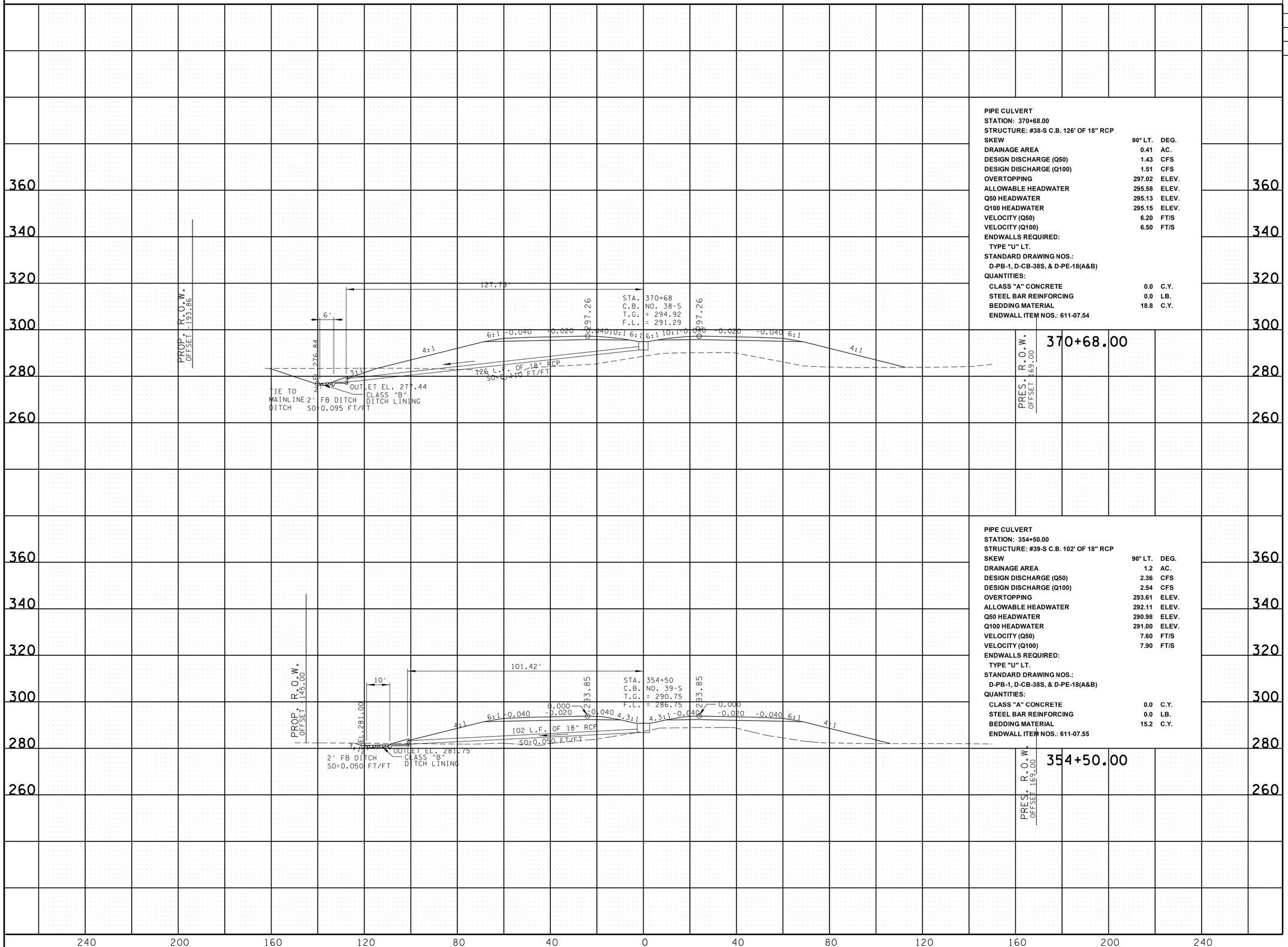
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:15:17 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	48
CONST.	2018	STP-14(63)	57



PIPE CULVERT
STATION: 370+68.00
STRUCTURE: #38-S C.B. 126' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	0.41	AC.
DESIGN DISCHARGE (Q50)	1.43	CFS
DESIGN DISCHARGE (Q100)	1.51	CFS
OVERTOPPING	297.02	ELEV.
ALLOWABLE HEADWATER	295.58	ELEV.
Q50 HEADWATER	295.13	ELEV.
Q100 HEADWATER	295.15	ELEV.
VELOCITY (Q50)	6.20	FT/S
VELOCITY (Q100)	6.50	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	18.8	C.Y.

ENDWALL ITEM NOS.: 611-07.54

PIPE CULVERT
STATION: 354+50.00
STRUCTURE: #39-S C.B. 102' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	1.2	AC.
DESIGN DISCHARGE (Q50)	2.36	CFS
DESIGN DISCHARGE (Q100)	2.54	CFS
OVERTOPPING	293.61	ELEV.
ALLOWABLE HEADWATER	292.11	ELEV.
Q50 HEADWATER	290.98	ELEV.
Q100 HEADWATER	291.00	ELEV.
VELOCITY (Q50)	7.60	FT/S
VELOCITY (Q100)	7.90	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	15.2	C.Y.

ENDWALL ITEM NOS.: 611-07.55

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

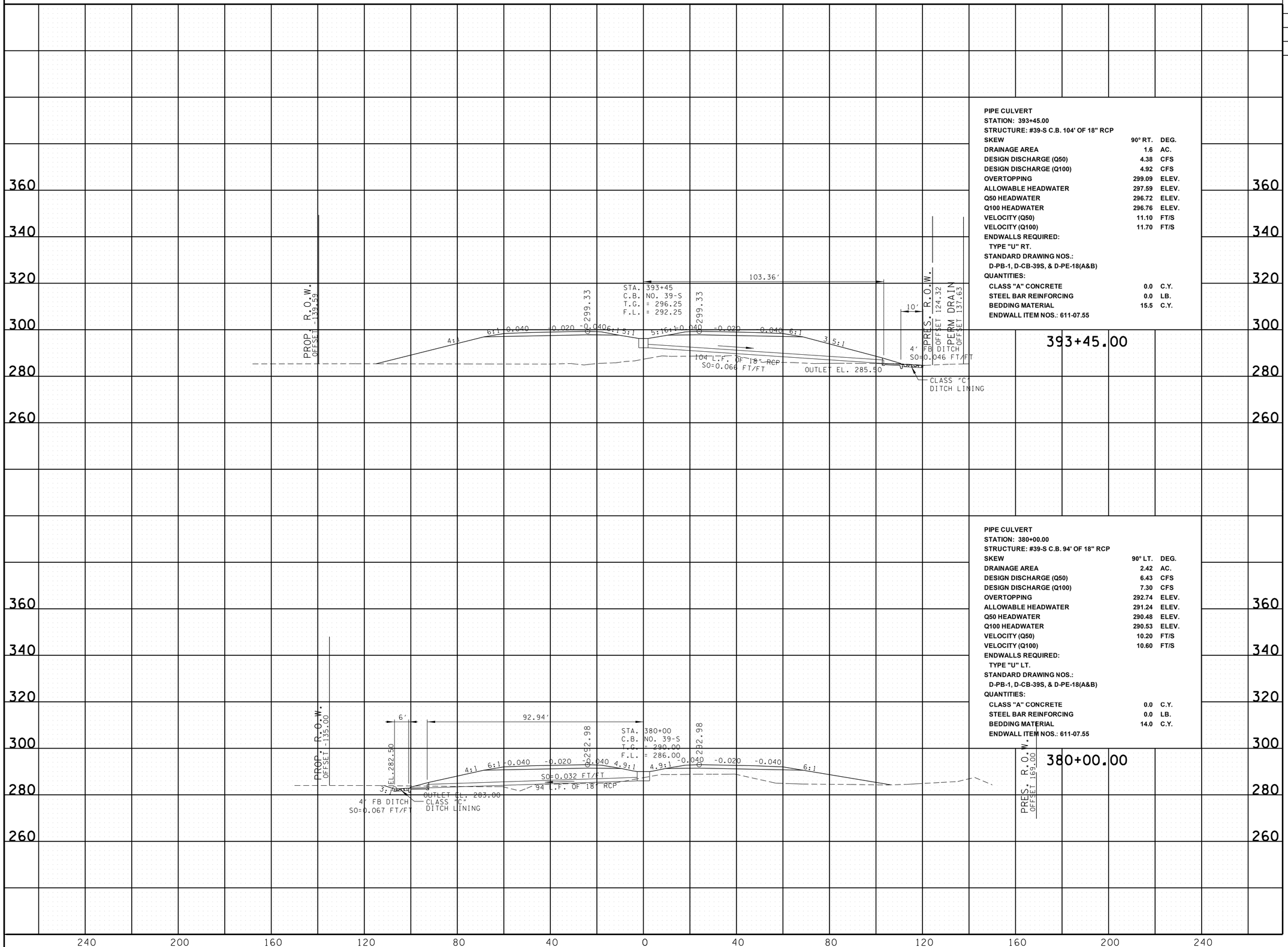
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:15:25 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	49
CONST.	2018	STP-14(63)	58



PIPE CULVERT
STATION: 393+45.00
STRUCTURE: #39-S C.B. 104' OF 18" RCP

	90° RT.	DEG.
SKEW		
DRAINAGE AREA	1.6	AC.
DESIGN DISCHARGE (Q50)	4.38	CFS
DESIGN DISCHARGE (Q100)	4.92	CFS
OVERTOPPING	299.09	ELEV.
ALLOWABLE HEADWATER	297.59	ELEV.
Q50 HEADWATER	296.72	ELEV.
Q100 HEADWATER	296.76	ELEV.
VELOCITY (Q50)	11.10	FT/S
VELOCITY (Q100)	11.70	FT/S

ENDWALLS REQUIRED:
TYPE "U" RT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-39S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	15.5	C.Y.

ENDWALL ITEM NOS.: 611-07.55

PIPE CULVERT
STATION: 380+00.00
STRUCTURE: #39-S C.B. 94' OF 18" RCP

	90° LT.	DEG.
SKEW		
DRAINAGE AREA	2.42	AC.
DESIGN DISCHARGE (Q50)	6.43	CFS
DESIGN DISCHARGE (Q100)	7.30	CFS
OVERTOPPING	292.74	ELEV.
ALLOWABLE HEADWATER	291.24	ELEV.
Q50 HEADWATER	290.48	ELEV.
Q100 HEADWATER	290.53	ELEV.
VELOCITY (Q50)	10.20	FT/S
VELOCITY (Q100)	10.60	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-39S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	14.0	C.Y.

ENDWALL ITEM NOS.: 611-07.55

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

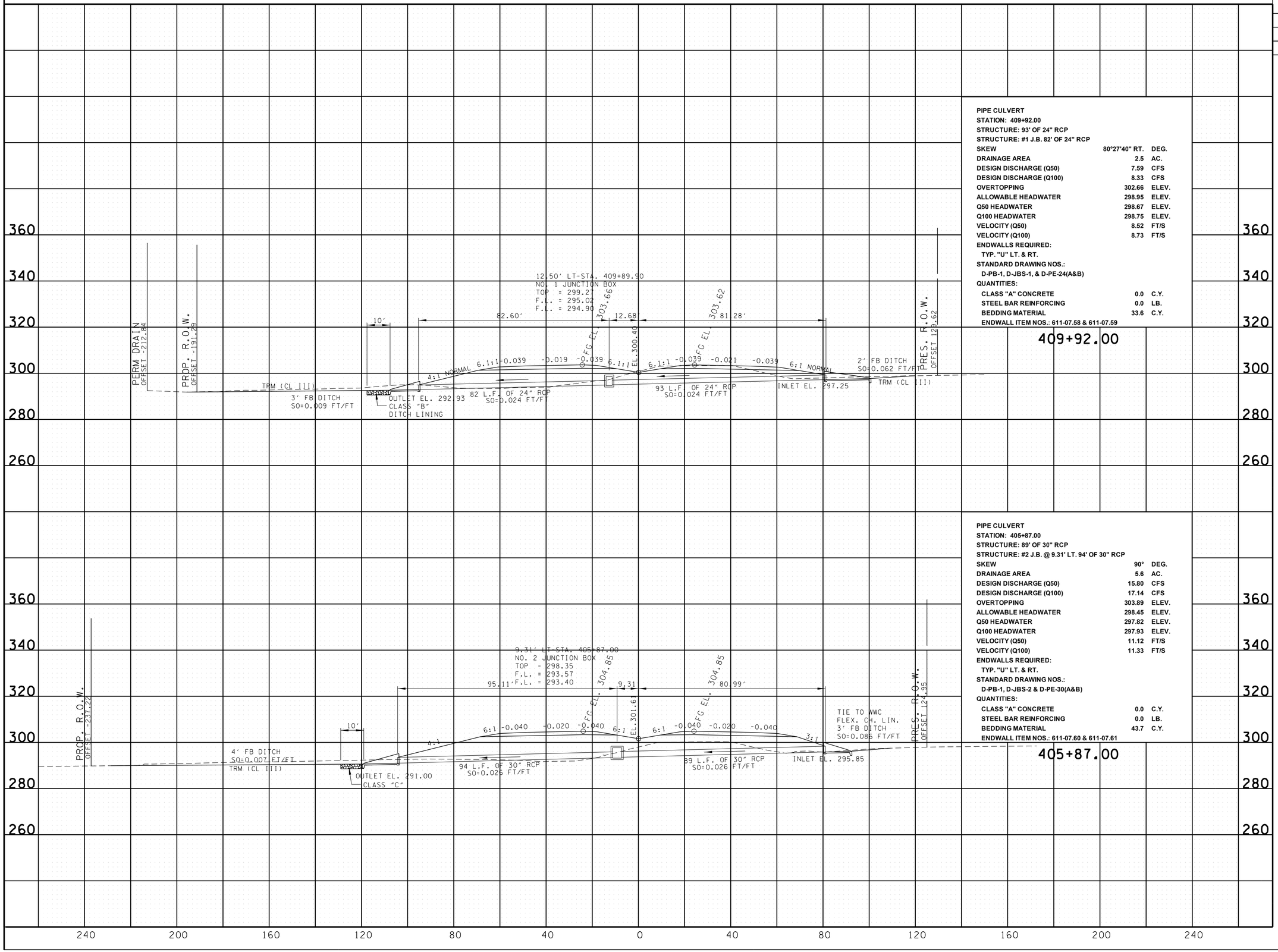
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:15:34 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	50
CONST.	2018	STP-14(63)	59



PIPE CULVERT
STATION: 409+92.00
STRUCTURE: 93' OF 24" RCP
STRUCTURE: #1 J.B. 82' OF 24" RCP

SKEW	80°27'40" RT.	DEG.
DRAINAGE AREA	2.5	AC.
DESIGN DISCHARGE (Q50)	7.59	CFS
DESIGN DISCHARGE (Q100)	8.33	CFS
OVERTOPPING	302.66	ELEV.
ALLOWABLE HEADWATER	298.95	ELEV.
Q50 HEADWATER	298.67	ELEV.
Q100 HEADWATER	298.75	ELEV.
VELOCITY (Q50)	8.52	FT/S
VELOCITY (Q100)	8.73	FT/S

ENDWALLS REQUIRED:
TYP. "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1, D-JBS-1, & D-PE-24(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	33.6	C.Y.

ENDWALL ITEM NOS.: 611-07.58 & 611-07.59

409+92.00

PIPE CULVERT
STATION: 405+87.00
STRUCTURE: 89' OF 30" RCP
STRUCTURE: #2 J.B. @ 9.31' LT. 94' OF 30" RCP

SKEW	90°	DEG.
DRAINAGE AREA	5.6	AC.
DESIGN DISCHARGE (Q50)	15.80	CFS
DESIGN DISCHARGE (Q100)	17.14	CFS
OVERTOPPING	303.89	ELEV.
ALLOWABLE HEADWATER	298.45	ELEV.
Q50 HEADWATER	297.82	ELEV.
Q100 HEADWATER	297.93	ELEV.
VELOCITY (Q50)	11.12	FT/S
VELOCITY (Q100)	11.33	FT/S

ENDWALLS REQUIRED:
TYP. "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1, D-JBS-2 & D-PE-30(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	43.7	C.Y.

ENDWALL ITEM NOS.: 611-07.60 & 611-07.61

405+87.00

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:15:43 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	51
CONST.	2018	STP-14(63)	60

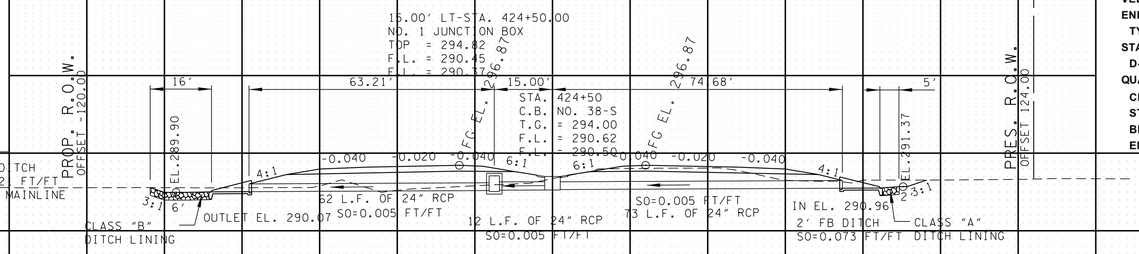
PIPE CULVERT
STATION: 424+50.00
STRUCTURE: #1 J.B. 62' OF 24" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	8.94	AC.
DESIGN DISCHARGE (Q50)	22.17	CFS
DESIGN DISCHARGE (Q100)	23.61	CFS
OVERTOPPING	296.63	ELEV.
ALLOWABLE HEADWATER	295.24	ELEV.
Q50 HEADWATER	294.17	ELEV.
Q100 HEADWATER	294.22	ELEV.
VELOCITY (Q50)	7.06	FT/S
VELOCITY (Q100)	7.52	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-JBS-1, & D-PE-24(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	11.9	C.Y.

ENDWALL ITEM NOS.: 611-07.58



PIPE CULVERT
STATION: 424+50.00
STRUCTURE: 73' OF 24" RCP
STRUCTURE: #38-S. C.B. 12' OF 24" RCP

SKEW	90° RT.	DEG.
DRAINAGE AREA	6.25	AC.
DESIGN DISCHARGE (Q50)	16.24	CFS
DESIGN DISCHARGE (Q100)	16.95	CFS
OVERTOPPING	295.91	ELEV.
ALLOWABLE HEADWATER	294.48	ELEV.
Q50 HEADWATER	293.73	ELEV.
Q100 HEADWATER	293.88	ELEV.
VELOCITY (Q50)	5.17	FT/S
VELOCITY (Q100)	5.40	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, D-PE-24(A&B) & D-JBS-1
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	16.3	C.Y.

ENDWALL ITEM NOS.: 611-07.58

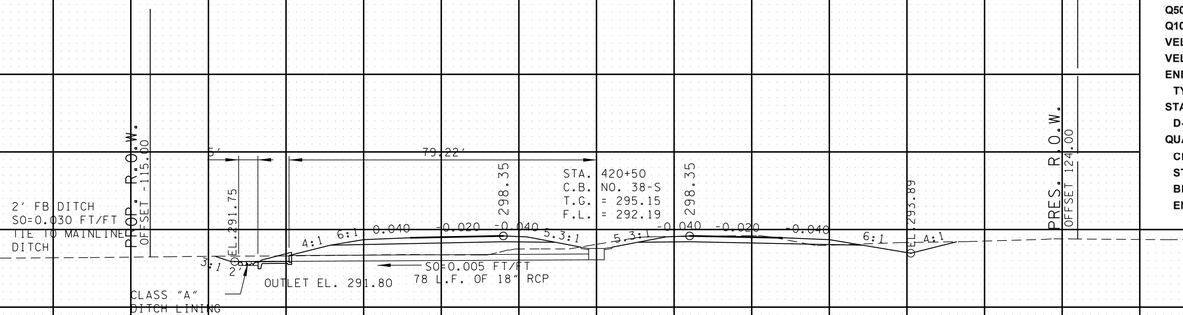
PIPE CULVERT
STATION: 420+50.00
STRUCTURE: #38-S C.B. 78' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	1.31	AC.
DESIGN DISCHARGE (Q50)	3.18	CFS
DESIGN DISCHARGE (Q100)	3.54	CFS
OVERTOPPING	298.11	ELEV.
ALLOWABLE HEADWATER	296.61	ELEV.
Q50 HEADWATER	295.52	ELEV.
Q100 HEADWATER	295.55	ELEV.
VELOCITY (Q50)	4.30	FT/S
VELOCITY (Q100)	4.40	FT/S

ENDWALLS REQUIRED:
TYPE "U" RT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	11.6	C.Y.

ENDWALL ITEM NOS.: 611-07.55



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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

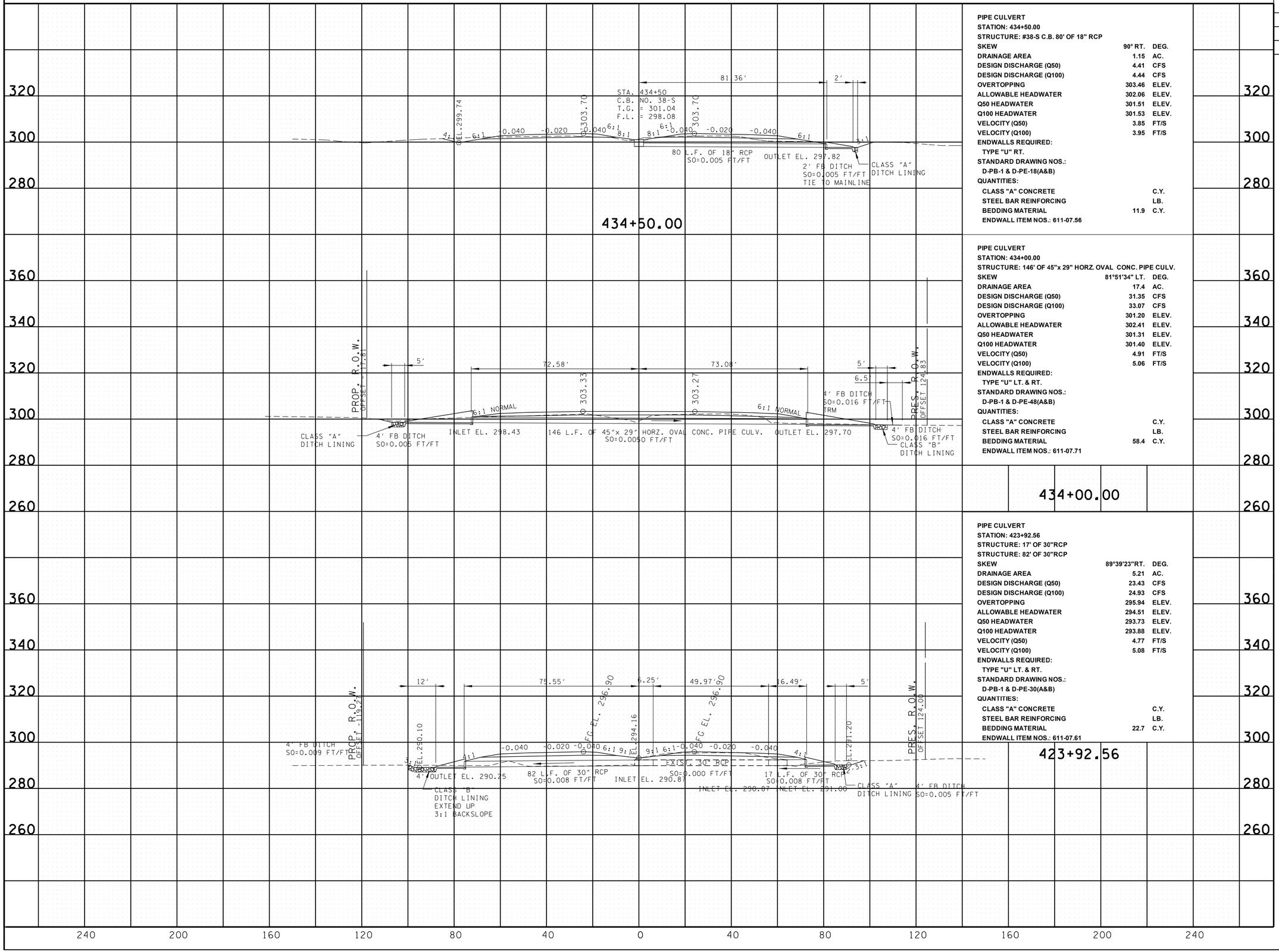
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 4:32:28 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	52
CONST.	2018	STP-14(63)	61



PIPE CULVERT
STATION: 434+50.00
STRUCTURE: #38-S C.B. 80' OF 18" RCP

SKEW	**90° RT.**	**DEG.**
DRAINAGE AREA	**1.15**	**AC.**
DESIGN DISCHARGE (Q50)	**4.41**	**CFS**
DESIGN DISCHARGE (Q100)	**4.44**	**CFS**
OVERTOPPING	**303.46**	**ELEV.**
ALLOWABLE HEADWATER	**302.06**	**ELEV.**
Q50 HEADWATER	**301.51**	**ELEV.**
Q100 HEADWATER	**301.53**	**ELEV.**
VELOCITY (Q50)	**3.85**	**FT/S**
VELOCITY (Q100)	**3.95**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" RT.
STANDARD DRAWING NOS.:
D-PB-1 & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE		**C.Y.**
STEEL BAR REINFORCING		**LB.**
BEDDING MATERIAL	**11.9**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.56

PIPE CULVERT
STATION: 434+00.00
STRUCTURE: 146' OF 45"x 29" HORZ. OVAL CONC. PIPE CULV.

SKEW	**81°51'34" LT.**	**DEG.**
DRAINAGE AREA	**17.4**	**AC.**
DESIGN DISCHARGE (Q50)	**31.35**	**CFS**
DESIGN DISCHARGE (Q100)	**33.07**	**CFS**
OVERTOPPING	**301.20**	**ELEV.**
ALLOWABLE HEADWATER	**302.41**	**ELEV.**
Q50 HEADWATER	**301.31**	**ELEV.**
Q100 HEADWATER	**301.40**	**ELEV.**
VELOCITY (Q50)	**4.91**	**FT/S**
VELOCITY (Q100)	**5.06**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1 & D-PE-48(A&B)
QUANTITIES:

CLASS "A" CONCRETE		**C.Y.**
STEEL BAR REINFORCING		**LB.**
BEDDING MATERIAL	**58.4**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.71

PIPE CULVERT
STATION: 423+92.56
STRUCTURE: 17' OF 30"RCP
STRUCTURE: 82' OF 30"RCP

SKEW	**89°39'23"RT.**	**DEG.**
DRAINAGE AREA	**5.21**	**AC.**
DESIGN DISCHARGE (Q50)	**23.43**	**CFS**
DESIGN DISCHARGE (Q100)	**24.93**	**CFS**
OVERTOPPING	**295.94**	**ELEV.**
ALLOWABLE HEADWATER	**294.51**	**ELEV.**
Q50 HEADWATER	**293.73**	**ELEV.**
Q100 HEADWATER	**293.88**	**ELEV.**
VELOCITY (Q50)	**4.77**	**FT/S**
VELOCITY (Q100)	**5.08**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1 & D-PE-30(A&B)
QUANTITIES:

CLASS "A" CONCRETE		**C.Y.**
STEEL BAR REINFORCING		**LB.**
BEDDING MATERIAL	**22.7**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.61

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

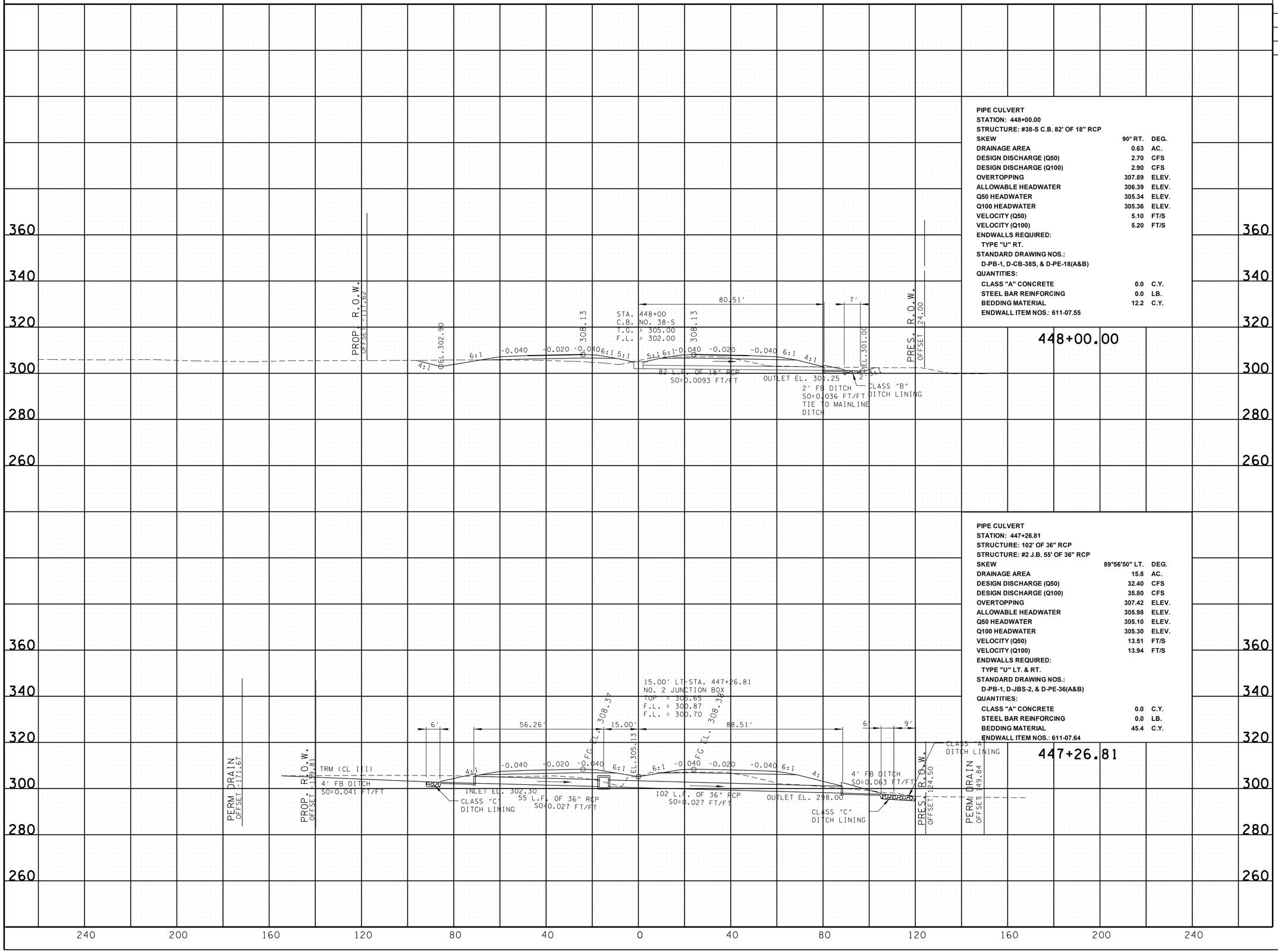
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 4:32:41 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	53
CONST.	2018	STP-14(63)	62



PIPE CULVERT
STATION: 448+00.00
STRUCTURE: #38-S C.B. 82' OF 18" RCP

	90° RT.	DEG.
SKEW		
DRAINAGE AREA	0.63	AC.
DESIGN DISCHARGE (Q50)	2.70	CFS
DESIGN DISCHARGE (Q100)	2.90	CFS
OVERTOPPING	307.89	ELEV.
ALLOWABLE HEADWATER	306.39	ELEV.
Q50 HEADWATER	305.34	ELEV.
Q100 HEADWATER	305.36	ELEV.
VELOCITY (Q50)	5.10	FT/S
VELOCITY (Q100)	5.20	FT/S

ENDWALLS REQUIRED:
TYPE "U" RT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	12.2	C.Y.

ENDWALL ITEM NOS.: 611-07.55

PIPE CULVERT
STATION: 447+26.81
STRUCTURE: 102' OF 36" RCP
STRUCTURE: #2 J.B. 55' OF 36" RCP

	89°56'50" LT.	DEG.
SKEW		
DRAINAGE AREA	15.8	AC.
DESIGN DISCHARGE (Q50)	32.40	CFS
DESIGN DISCHARGE (Q100)	35.80	CFS
OVERTOPPING	307.42	ELEV.
ALLOWABLE HEADWATER	305.98	ELEV.
Q50 HEADWATER	305.10	ELEV.
Q100 HEADWATER	305.30	ELEV.
VELOCITY (Q50)	13.51	FT/S
VELOCITY (Q100)	13.94	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1, D-JBS-2, & D-PE-36(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	45.4	C.Y.

ENDWALL ITEM NOS.: 611-07.64

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

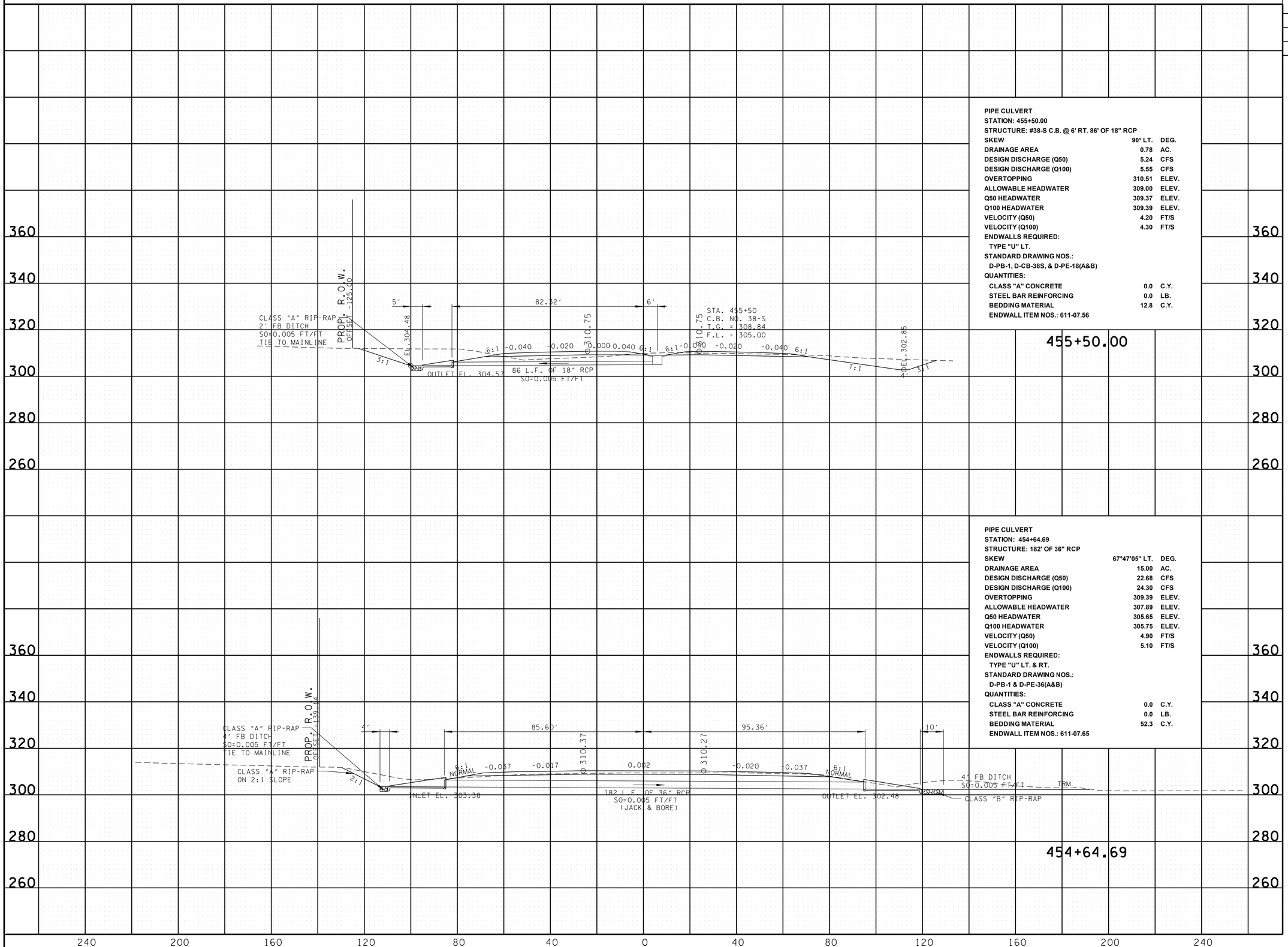
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:15:52 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	54
CONST.	2018	STP-14(63)	63



PIPE CULVERT
STATION: 455+50.00
STRUCTURE: #38-S C.B. @ 6' RT. 86' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	0.78	AC.
DESIGN DISCHARGE (Q50)	5.24	CFS
DESIGN DISCHARGE (Q100)	5.55	CFS
OVERTOPPING	310.51	ELEV.
ALLOWABLE HEADWATER	309.00	ELEV.
Q50 HEADWATER	309.37	ELEV.
Q100 HEADWATER	309.39	ELEV.
VELOCITY (Q50)	4.20	FT/S
VELOCITY (Q100)	4.30	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	12.8	C.Y.

ENDWALL ITEM NOS.: 611-07.56

PIPE CULVERT
STATION: 454+64.69
STRUCTURE: 182' OF 36" RCP

SKEW	67°47'05" LT.	DEG.
DRAINAGE AREA	15.00	AC.
DESIGN DISCHARGE (Q50)	22.68	CFS
DESIGN DISCHARGE (Q100)	24.30	CFS
OVERTOPPING	309.39	ELEV.
ALLOWABLE HEADWATER	307.89	ELEV.
Q50 HEADWATER	305.65	ELEV.
Q100 HEADWATER	305.75	ELEV.
VELOCITY (Q50)	4.90	FT/S
VELOCITY (Q100)	5.10	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1 & D-PE-36(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	52.3	C.Y.

ENDWALL ITEM NOS.: 611-07.65

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

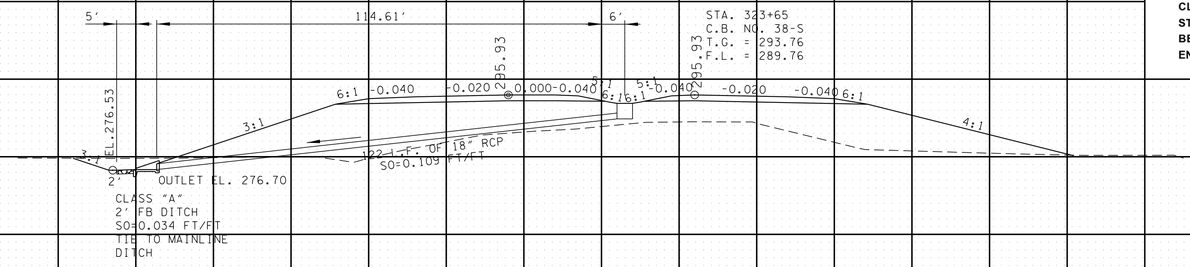
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 4:33:03 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	54A
CONST.	2018	STP-14(63)	64



PIPE CULVERT
STATION: 323+65.00
STRUCTURE: #38-S C.B. @ 6' RT. 122' OF 18" RCP

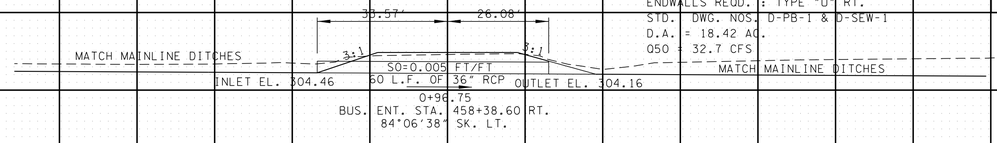
SKEW	90° LT.	DEG.
DRAINAGE AREA	0.42	AC.
DESIGN DISCHARGE (Q50)	1.91	CFS
DESIGN DISCHARGE (Q100)	2.03	CFS
OVERTOPPING	295.69	ELEV.
ALLOWABLE HEADWATER	294.3	ELEV.
Q50 HEADWATER	294.03	ELEV.
Q100 HEADWATER	294.04	ELEV.
VELOCITY (Q50)	2.65	FT/S
VELOCITY (Q100)	2.70	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	18.2	C.Y.

ENDWALL ITEM NOS.: 611-07.54

MLCLSR14
323+65.00



PIPE CULVERT
STATION: 458+38.60 BUS. ENT. RT.
STRUCTURE: 60' OF 36" RCP

SKEW	90° RT.	DEG.
DRAINAGE AREA	18.42	AC.
DESIGN DISCHARGE (Q50)	32.70	CFS
DESIGN DISCHARGE (Q100)	34.25	CFS
OVERTOPPING	309.70	ELEV.
ALLOWABLE HEADWATER	309.12	ELEV.
Q50 HEADWATER	307.31	ELEV.
Q100 HEADWATER	307.40	ELEV.
VELOCITY (Q50)	7.23	FT/S
VELOCITY (Q100)	7.30	FT/S

ENDWALLS REQUIRED:
TYPE "U" RT.
STANDARD DRAWING NOS.:
D-PB-1 & D-SEW-1A
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	0.0	C.Y.

ENDWALL ITEM NOS.: 611-07.34

STA. 0+96.75
60 L.F. OF 36" RCP
SKEW 84°06'38" LT.
ENDWALLS REQD. : TYPE "U" RT.
STD. DWG. NOS. D-PB-1 & D-SEW-1
D.A. = 18.42 AC.
Q50 = 32.7 CFS

BUS. ENT.
458+38.60 RT. M.L.

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

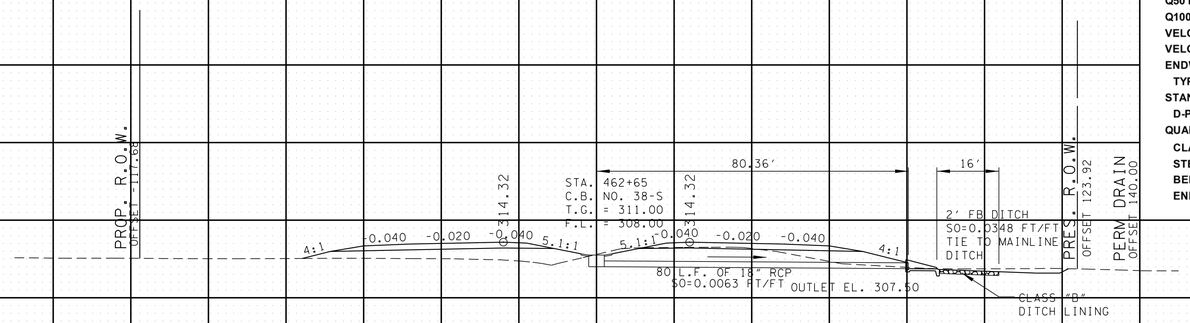
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 4:33:11 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	55
CONST.	2018	STP-14(63)	65



PIPE CULVERT
STATION: 462+65.00
STRUCTURE: #38-S C.B. 80' OF 18" RCP

SKEW	**90° RT.**	**DEG.**
DRAINAGE AREA	**1.18**	**AC.**
DESIGN DISCHARGE (Q50)	**4.80**	**CFS**
DESIGN DISCHARGE (Q100)	**5.20**	**CFS**
OVERTOPPING	**314.13**	**ELEV.**
ALLOWABLE HEADWATER	**312.38**	**ELEV.**
Q50 HEADWATER	**311.50**	**ELEV.**
Q100 HEADWATER	**311.54**	**ELEV.**
VELOCITY (Q50)	**5.20**	**FT/S**
VELOCITY (Q100)	**5.30**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	**1.1**	**C.Y.**
STEEL BAR REINFORCING	**98.0**	**LB.**
BEDDING MATERIAL	**11.9**	**C.Y.**
ENDWALL ITEM NOS.: 611-07.55		

462+65.00

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

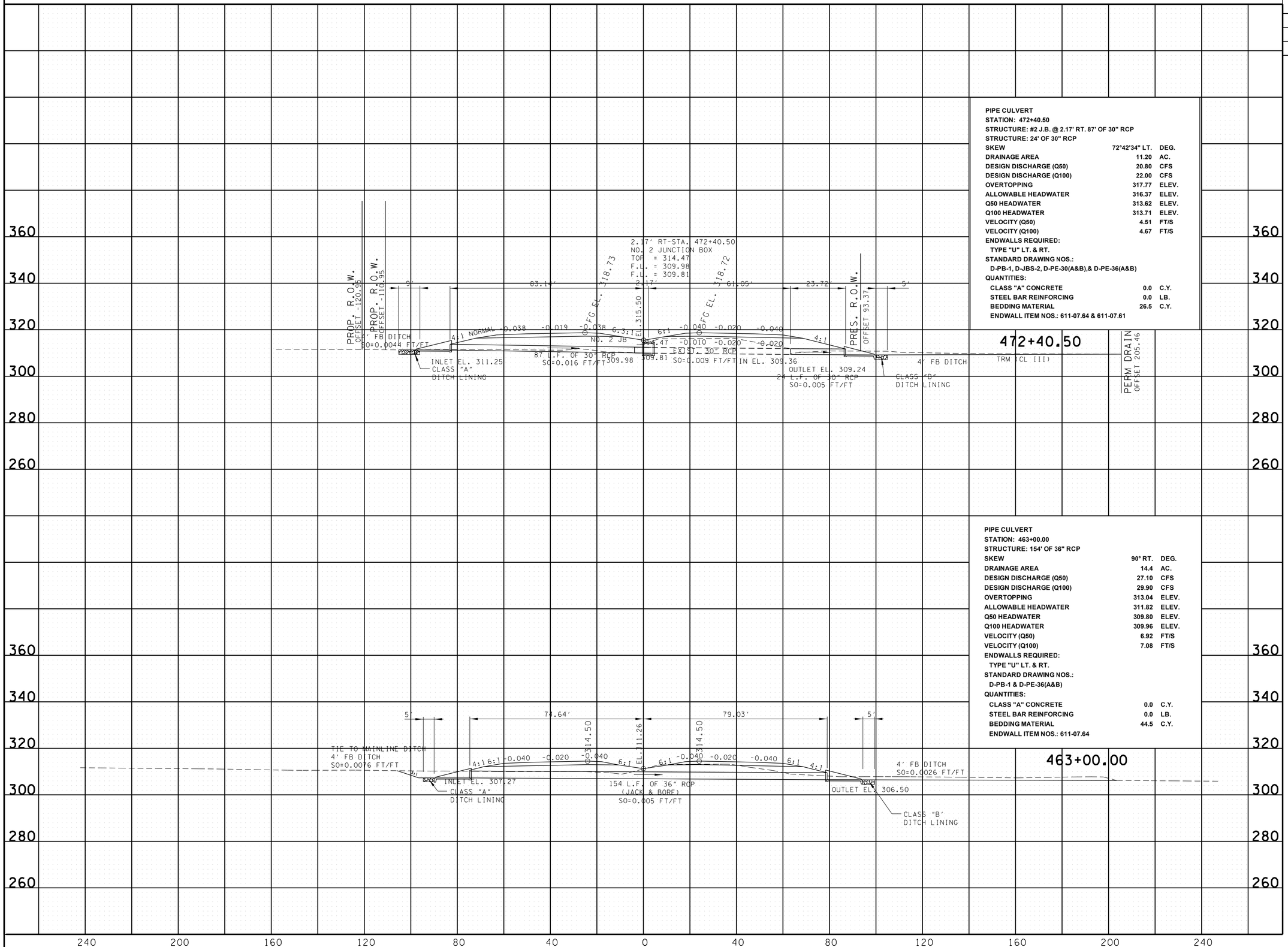
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:16:00 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	56
CONST.	2018	STP-14(63)	66



PIPE CULVERT
STATION: 472+40.50
STRUCTURE: #2 J.B. @ 2.17' RT. 87' OF 30" RCP
STRUCTURE: 24' OF 30" RCP

SKEW	**72°42'34" LT.**	**DEG.**
DRAINAGE AREA	**11.20**	**AC.**
DESIGN DISCHARGE (Q50)	**20.80**	**CFS**
DESIGN DISCHARGE (Q100)	**22.00**	**CFS**
OVERTOPPING	**317.77**	**ELEV.**
ALLOWABLE HEADWATER	**316.37**	**ELEV.**
Q50 HEADWATER	**313.62**	**ELEV.**
Q100 HEADWATER	**313.71**	**ELEV.**
VELOCITY (Q50)	**4.51**	**FT/S**
VELOCITY (Q100)	**4.67**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1, D-JBS-2, D-PE-30(A&B),& D-PE-36(A&B)
QUANTITIES:

CLASS "A" CONCRETE	**0.0**	**C.Y.**
STEEL BAR REINFORCING	**0.0**	**LB.**
BEDDING MATERIAL	**26.5**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.64 & 611-07.61

PIPE CULVERT
STATION: 463+00.00
STRUCTURE: 154' OF 36" RCP

SKEW	**90° RT.**	**DEG.**
DRAINAGE AREA	**14.4**	**AC.**
DESIGN DISCHARGE (Q50)	**27.10**	**CFS**
DESIGN DISCHARGE (Q100)	**29.90**	**CFS**
OVERTOPPING	**313.04**	**ELEV.**
ALLOWABLE HEADWATER	**311.82**	**ELEV.**
Q50 HEADWATER	**309.80**	**ELEV.**
Q100 HEADWATER	**309.96**	**ELEV.**
VELOCITY (Q50)	**6.92**	**FT/S**
VELOCITY (Q100)	**7.08**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1 & D-PE-36(A&B)
QUANTITIES:

CLASS "A" CONCRETE	**0.0**	**C.Y.**
STEEL BAR REINFORCING	**0.0**	**LB.**
BEDDING MATERIAL	**44.5**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.64

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

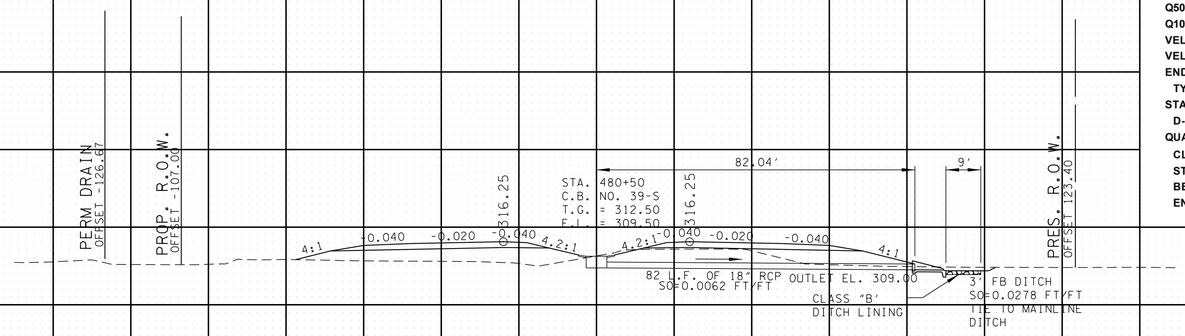
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 4:33:25 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	57
CONST.	2018	STP-14(63)	67

REV. 10-25-10: UPDATED DRAIN NOTE FOR PIPE AT STA. 480+50.



480+50.00

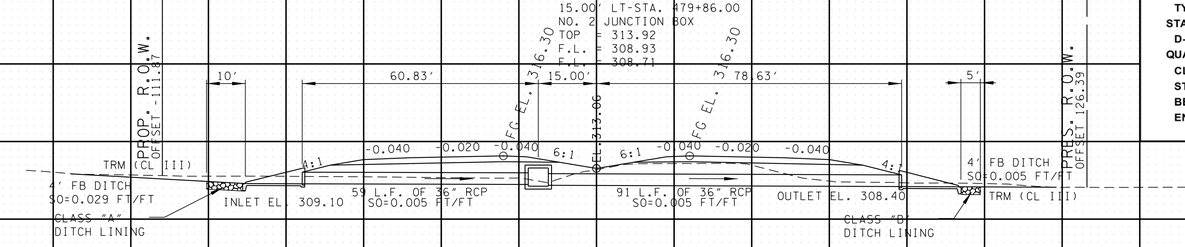
PIPE CULVERT
STATION: 480+50.00
STRUCTURE: #39-S C.B. 82' OF 18" RCP

SKEW	**90° RT.**	**DEG.**
DRAINAGE AREA	**1.54**	**AC.**
DESIGN DISCHARGE (Q50)	**5.90**	**CFS**
DESIGN DISCHARGE (Q100)	**6.10**	**CFS**
OVERTOPPING	**316.25**	**ELEV.**
ALLOWABLE HEADWATER	**314.51**	**ELEV.**
Q50 HEADWATER	**312.95**	**ELEV.**
Q100 HEADWATER	**312.98**	**ELEV.**
VELOCITY (Q50)	**5.40**	**FT/S**
VELOCITY (Q100)	**5.40**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" RT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-39S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	**0.0**	**C.Y.**
STEEL BAR REINFORCING	**0.0**	**LB.**
BEDDING MATERIAL	**12.2**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.55



479+86.00

PIPE CULVERT
STATION: 479+86.00
STRUCTURE: 59' OF 36" RCP
STRUCTURE: #2 J.B. 91' OF 36" RCP

SKEW	**90°**	**DEG.**
DRAINAGE AREA	**16.9**	**AC.**
DESIGN DISCHARGE (Q50)	**31.20**	**CFS**
DESIGN DISCHARGE (Q100)	**35.10**	**CFS**
OVERTOPPING	**315.34**	**ELEV.**
ALLOWABLE HEADWATER	**313.91**	**ELEV.**
Q50 HEADWATER	**311.86**	**ELEV.**
Q100 HEADWATER	**312.27**	**ELEV.**
VELOCITY (Q50)	**6.87**	**FT/S**
VELOCITY (Q100)	**7.22**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1, D-JBS-2, & D-PE-36(A&B)
QUANTITIES:

CLASS "A" CONCRETE	**0.0**	**C.Y.**
STEEL BAR REINFORCING	**0.0**	**LB.**
BEDDING MATERIAL	**43.4**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.64

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

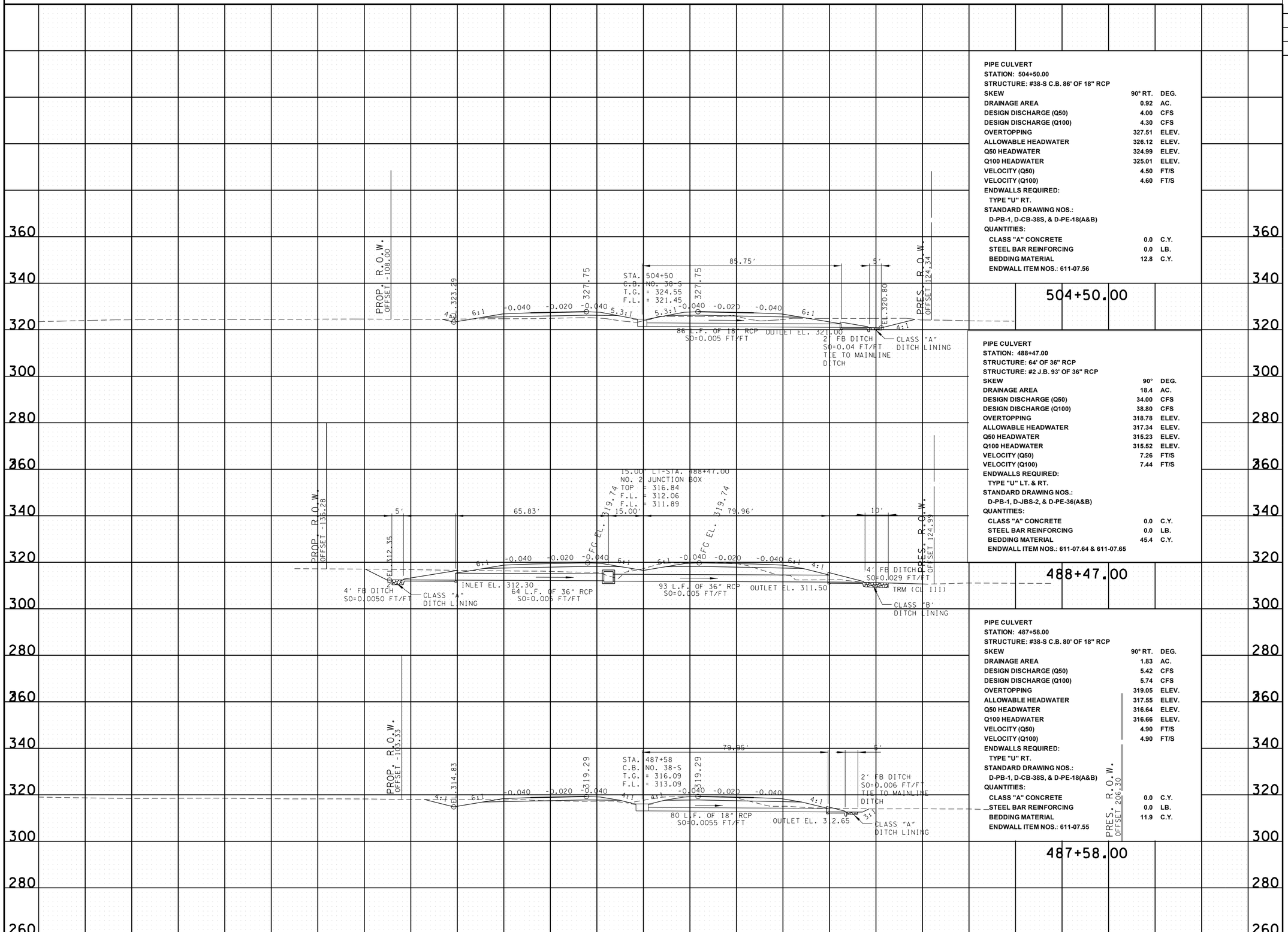
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 4:33:34 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	58
CONST.	2018	STP-14(63)	68

REV. 10-25-10: MOVED PIPE FROM STA. 490+60 TO STA. 487+58 AND UPDATED DRAINAGE INFORMATION.



PIPE CULVERT
STATION: 504+50.00
STRUCTURE: #38-S C.B. 86' OF 18" RCP

	90° RT.	DEG.
SKEW		
DRAINAGE AREA	0.92	AC.
DESIGN DISCHARGE (Q50)	4.00	CFS
DESIGN DISCHARGE (Q100)	4.30	CFS
OVERTOPPING	327.51	ELEV.
ALLOWABLE HEADWATER	326.12	ELEV.
Q50 HEADWATER	324.99	ELEV.
Q100 HEADWATER	325.01	ELEV.
VELOCITY (Q50)	4.50	FT/S
VELOCITY (Q100)	4.60	FT/S
ENDWALLS REQUIRED:		
TYPE "U" RT.		
STANDARD DRAWING NOS.:		
D-PB-1, D-CB-38S, & D-PE-18(A&B)		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	12.8	C.Y.
ENDWALL ITEM NOS.: 611-07.56		

PIPE CULVERT
STATION: 488+47.00
STRUCTURE: 64' OF 36" RCP
STRUCTURE: #2 J.B. 93' OF 36" RCP

	90°	DEG.
SKEW		
DRAINAGE AREA	18.4	AC.
DESIGN DISCHARGE (Q50)	34.00	CFS
DESIGN DISCHARGE (Q100)	38.80	CFS
OVERTOPPING	318.78	ELEV.
ALLOWABLE HEADWATER	317.34	ELEV.
Q50 HEADWATER	315.23	ELEV.
Q100 HEADWATER	315.52	ELEV.
VELOCITY (Q50)	7.26	FT/S
VELOCITY (Q100)	7.44	FT/S
ENDWALLS REQUIRED:		
TYPE "U" LT. & RT.		
STANDARD DRAWING NOS.:		
D-PB-1, D-JBS-2, & D-PE-36(A&B)		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	45.4	C.Y.
ENDWALL ITEM NOS.: 611-07.64 & 611-07.65		

PIPE CULVERT
STATION: 487+58.00
STRUCTURE: #38-S C.B. 80' OF 18" RCP

	90° RT.	DEG.
SKEW		
DRAINAGE AREA	1.83	AC.
DESIGN DISCHARGE (Q50)	5.42	CFS
DESIGN DISCHARGE (Q100)	5.74	CFS
OVERTOPPING	319.05	ELEV.
ALLOWABLE HEADWATER	317.55	ELEV.
Q50 HEADWATER	316.64	ELEV.
Q100 HEADWATER	316.66	ELEV.
VELOCITY (Q50)	4.90	FT/S
VELOCITY (Q100)	4.90	FT/S
ENDWALLS REQUIRED:		
TYPE "U" RT.		
STANDARD DRAWING NOS.:		
D-PB-1, D-CB-38S, & D-PE-18(A&B)		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	11.9	C.Y.
ENDWALL ITEM NOS.: 611-07.55		

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 4:33:43 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	59
CONST.	2018	STP-14(63)	69

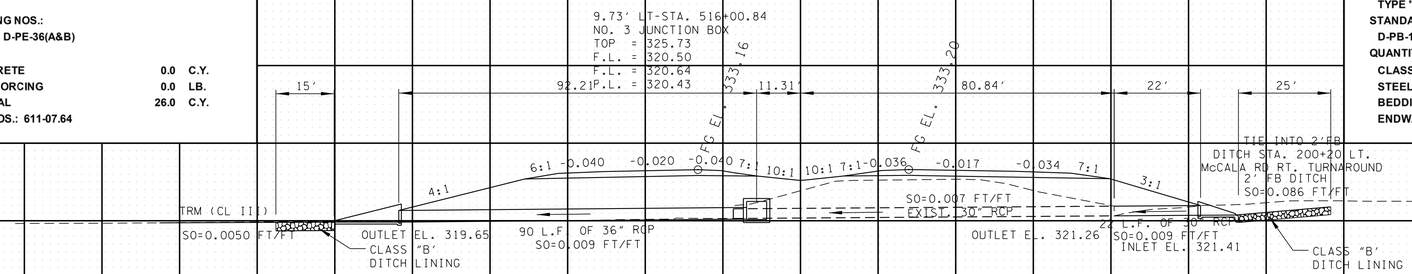
REV. 10-02-08: REMOVED SIDE ROAD AT STA. 514+60 RT & ADDED TURNAROUND AND UPDATED PIPE AND ADDED CATCH BASIN AT STA. 515+81.70.

PIPE CULVERT
STATION: 516+06.61
STRUCTURE: #3 J.B. 90' OF 36" RCP

SKEW	59°19'41" RT.	DEG.
DRAINAGE AREA	12.67	AC.
DESIGN DISCHARGE (Q50)	30.90	CFS
DESIGN DISCHARGE (Q100)	32.60	CFS
OVERTOPPING	332.26	ELEV.
ALLOWABLE HEADWATER	330.84	ELEV.
Q50 HEADWATER	323.17	ELEV.
Q100 HEADWATER	323.27	ELEV.
VELOCITY (Q50)	8.34	FT/S
VELOCITY (Q100)	8.45	FT/S
ENDWALLS REQUIRED:		
TYPE "U"LT.		
STANDARD DRAWING NOS.:		
D-PB-1, D-JBS-3, & D-PE-36(A&B)		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	26.0	C.Y.
ENDWALL ITEM NOS.: 611-07.64		

PIPE CULVERT
STATION: 516+06.61
STRUCTURE: 22' OF 30" RCP

SKEW	59°19'41" RT.	DEG.
DRAINAGE AREA	9.4	AC.
DESIGN DISCHARGE (Q50)	22.61	CFS
DESIGN DISCHARGE (Q100)	23.86	CFS
OVERTOPPING	332.26	ELEV.
ALLOWABLE HEADWATER	330.84	ELEV.
Q50 HEADWATER	324.12	ELEV.
Q100 HEADWATER	324.21	ELEV.
VELOCITY (Q50)	4.61	FT/S
VELOCITY (Q100)	4.86	FT/S
ENDWALLS REQUIRED:		
TYPE "U" RT.		
STANDARD DRAWING NOS.:		
D-PB-1, D-JBS-3, & D-PE-36(A&B)		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	5.3	C.Y.
ENDWALL ITEM NOS.: 611-07.63		

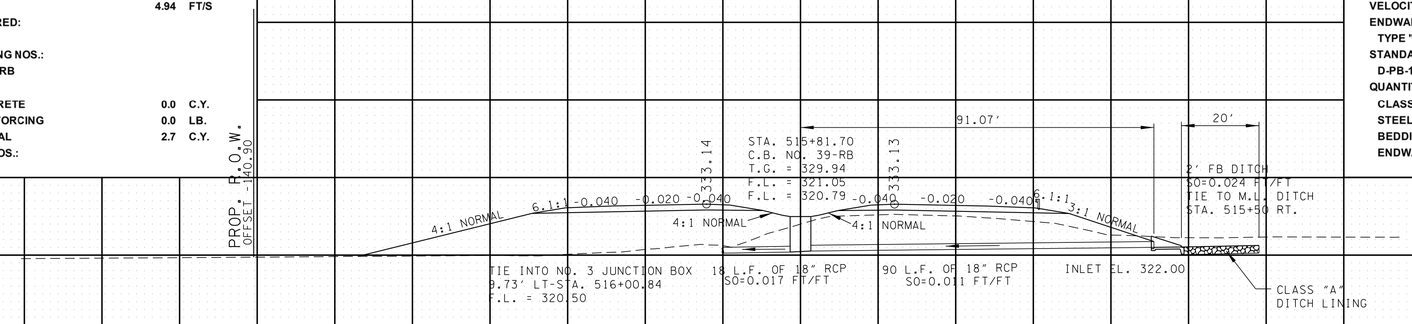


PIPE CULVERT
STATION: 515+81.70
STRUCTURE: #39RB C.B. 18' OF 18" RCP

SKEW	82°13'50" LT.	DEG.
DRAINAGE AREA	3.28	AC.
DESIGN DISCHARGE (Q50)	8.28	CFS
DESIGN DISCHARGE (Q100)	8.74	CFS
OVERTOPPING	330.81	ELEV.
ALLOWABLE HEADWATER	329.10	ELEV.
Q50 HEADWATER	330.11	ELEV.
Q100 HEADWATER	330.12	ELEV.
VELOCITY (Q50)	4.69	FT/S
VELOCITY (Q100)	4.94	FT/S
ENDWALLS REQUIRED:		
STANDARD DRAWING NOS.:		
D-PB-1, & D-CB-39RB		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	2.7	C.Y.
ENDWALL ITEM NOS.:		

PIPE CULVERT
STATION: 515+81.70
STRUCTURE: 90' OF 18" RCP

SKEW	82°13'50" RT.	DEG.
DRAINAGE AREA	3.06	AC.
DESIGN DISCHARGE (Q50)	7.57	CFS
DESIGN DISCHARGE (Q100)	7.99	CFS
OVERTOPPING	330.81	ELEV.
ALLOWABLE HEADWATER	329.10	ELEV.
Q50 HEADWATER	324.75	ELEV.
Q100 HEADWATER	324.85	ELEV.
VELOCITY (Q50)	4.28	FT/S
VELOCITY (Q100)	4.52	FT/S
ENDWALLS REQUIRED:		
TYPE "U" RT.		
STANDARD DRAWING NOS.:		
D-PB-1 & D-PE-24(A&B)		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	13.4	C.Y.
ENDWALL ITEM NOS.: 611-07.57		



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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 4:33:57 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	60
CONST.	2018	STP-14(63)	70

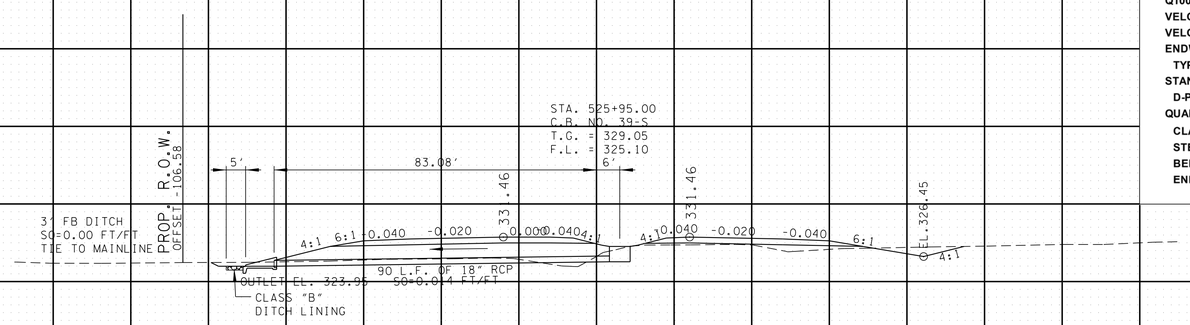
PIPE CULVERT
STATION: 525+95.00
STRUCTURE: #39-S C.B. 90' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	1.28	AC.
DESIGN DISCHARGE (Q50)	5.20	CFS
DESIGN DISCHARGE (Q100)	5.80	CFS
OVERTOPPING	331.24	ELEV.
ALLOWABLE HEADWATER	329.6	ELEV.
Q50 HEADWATER	329.47	ELEV.
Q100 HEADWATER	329.50	ELEV.
VELOCITY (Q50)	6.70	FT/S
VELOCITY (Q100)	6.90	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-39S, & D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	13.4	C.Y.

ENDWALL ITEM NOS.: 611-07.55



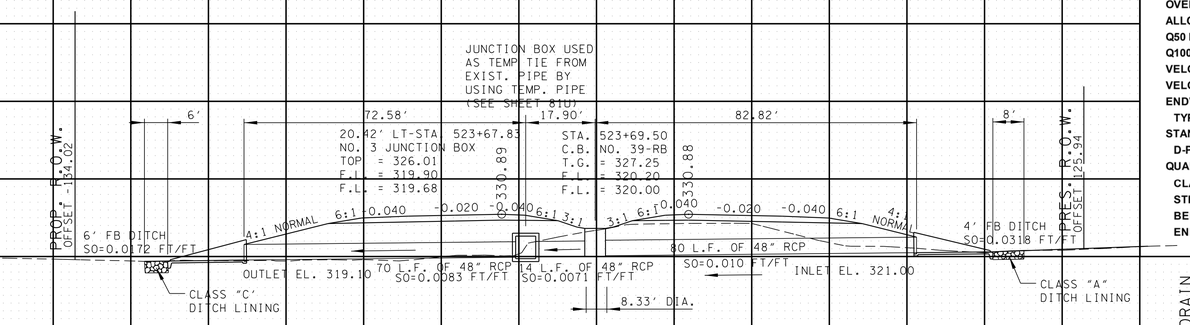
PIPE CULVERT
STATION: 523+69.50
STRUCTURE: #3 J.B. 14' OF 48" RCP
STRUCTURE: #39RB C.B. 70' OF 48" RCP

SKEW	85°30'00" RT.	DEG.
DRAINAGE AREA	35.17	AC.
DESIGN DISCHARGE (Q50)	71.70	CFS
DESIGN DISCHARGE (Q100)	80.10	CFS
OVERTOPPING	330.88	ELEV.
ALLOWABLE HEADWATER	329.14	ELEV.
Q50 HEADWATER	327.65	ELEV.
Q100 HEADWATER	327.69	ELEV.
VELOCITY (Q50)	12.10	FT/S
VELOCITY (Q100)	12.50	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-39RB, D-JBS-3, & D-PE-48(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	36.0	C.Y.

ENDWALL ITEM NOS.: 611-07.70



PIPE CULVERT
STATION: 523+69.50
STRUCTURE: 80' OF 48" RCP

SKEW	85°30'00" RT.	DEG.
DRAINAGE AREA	34	AC.
DESIGN DISCHARGE (Q50)	67.30	CFS
DESIGN DISCHARGE (Q100)	75.20	CFS
OVERTOPPING	326.46	ELEV.
ALLOWABLE HEADWATER	324.94	ELEV.
Q50 HEADWATER	324.58	ELEV.
Q100 HEADWATER	324.84	ELEV.
VELOCITY (Q50)	11.90	FT/S
VELOCITY (Q100)	12.30	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1 & D-PE-48(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	32.0	C.Y.

ENDWALL ITEM NOS.: 611-07.70

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

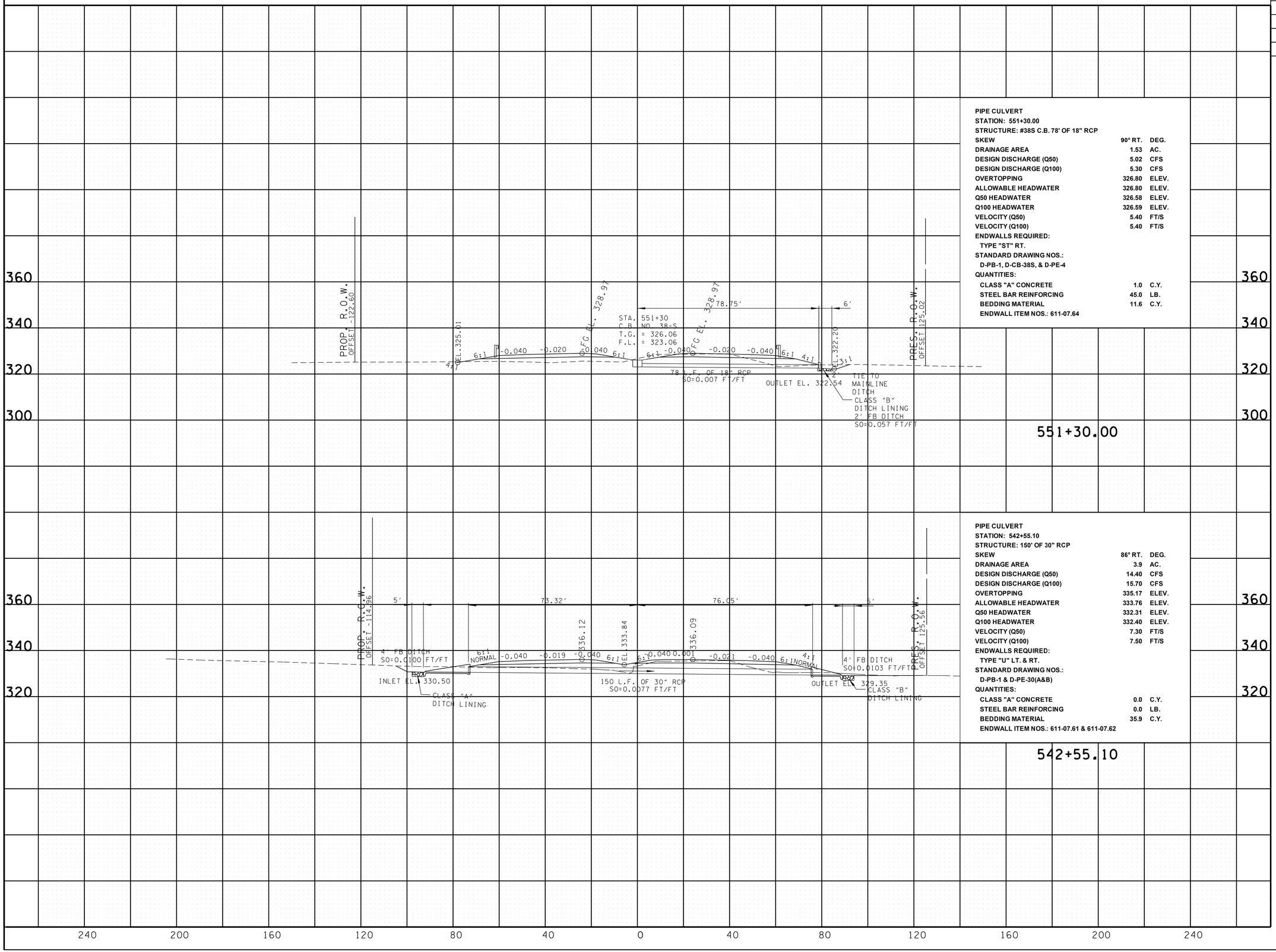
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 4:34:13 AM
G:\Jobs\SH14\Const_PIN-100341-02\SR14CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-14(63)	71



PIPE CULVERT
STATION: 551+30.00
STRUCTURE: #38S C.B. 78' OF 18" RCP

SKEW	**90° RT.**	**DEG.**
DRAINAGE AREA	**1.53**	**AC.**
DESIGN DISCHARGE (Q50)	**5.02**	**CFS**
DESIGN DISCHARGE (Q100)	**5.30**	**CFS**
OVERTOPPING	**326.80**	**ELEV.**
ALLOWABLE HEADWATER	**326.80**	**ELEV.**
Q50 HEADWATER	**326.58**	**ELEV.**
Q100 HEADWATER	**326.59**	**ELEV.**
VELOCITY (Q50)	**5.40**	**FT/S**
VELOCITY (Q100)	**5.40**	**FT/S**

ENDWALLS REQUIRED:
TYPE "ST" RT.
STANDARD DRAWING NOS.:
D-PB-1, D-CB-38S, & D-PE-4
QUANTITIES:

CLASS "A" CONCRETE	**1.0**	**C.Y.**
STEEL BAR REINFORCING	**45.0**	**LB.**
BEDDING MATERIAL	**11.6**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.64

PIPE CULVERT
STATION: 542+55.10
STRUCTURE: 150' OF 30" RCP

SKEW	**86° RT.**	**DEG.**
DRAINAGE AREA	**3.9**	**AC.**
DESIGN DISCHARGE (Q50)	**14.40**	**CFS**
DESIGN DISCHARGE (Q100)	**15.70**	**CFS**
OVERTOPPING	**335.17**	**ELEV.**
ALLOWABLE HEADWATER	**333.76**	**ELEV.**
Q50 HEADWATER	**332.31**	**ELEV.**
Q100 HEADWATER	**332.40**	**ELEV.**
VELOCITY (Q50)	**7.30**	**FT/S**
VELOCITY (Q100)	**7.50**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1 & D-PE-30(A&B)
QUANTITIES:

CLASS "A" CONCRETE	**0.0**	**C.Y.**
STEEL BAR REINFORCING	**0.0**	**LB.**
BEDDING MATERIAL	**35.9**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.61 & 611-07.62

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

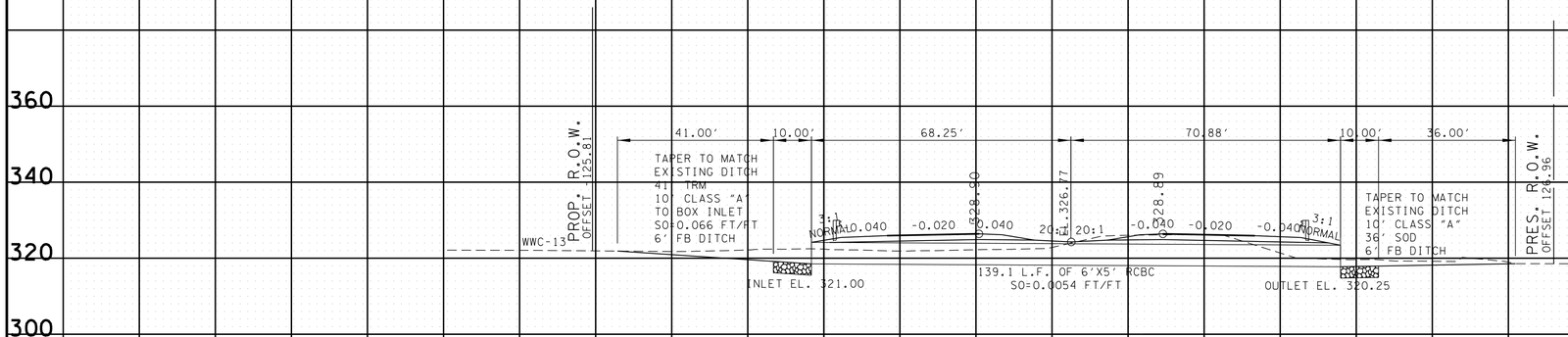
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:16:05 AM
G:\Jobs\SH14\Const_PIN-100341-02\SH14CULVERTXSections1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	61
CONST.	2018	STP-14(63)	72



551+65.00

BOX CULVERT
STATION: 551+65.00
STRUCTURE: 139.1' OF 6' X 5' RCBC

SKEW	**83° RT.**	**DEG.**
DRAINAGE AREA	**35.00**	**AC.**
DESIGN DISCHARGE (Q50)	**69.30**	**CFS**
DESIGN DISCHARGE (Q100)	**77.39**	**CFS**
OVERTOPPING	**328.86**	**ELEV.**
ALLOWABLE HEADWATER	**326.40**	**ELEV.**
Q50 HEADWATER	**323.56**	**ELEV.**
Q100 HEADWATER	**323.76**	**ELEV.**
VELOCITY (Q50)	**4.30**	**FT/S**
VELOCITY (Q100)	**4.60**	**FT/S**
INLET	**321.00**	**ELEV.**
OUTLET	**320.25**	ELEV.

STANDARD DRAWING NOS.: STD-17-51 & STD-17-11

QUANTITIES:

CLASS "A" CONCRETE	**99.0**	**C.Y.**
STEEL BAR REINFORCING	**21865.0**	**LB.**
BACKFILL	**652.0**	**TONS**
FOUNDATION FILL MATERIAL	**29.2**	**C.Y.**

BOX \ SLAB TABULATION

STATION	STD. DWG.	NO. BARRELS	WIDTH	HEIGHT	LENGTH
551+65	STD-17-51	1	6	5	139.1

FILL HEIGHT	CALCULATION FACTORS		SECTION	QUANTITY	
	CONCRETE. CY/FT	REINF. STEEL LB/FT	LENGTH FT.	CONCRETE. C.Y.	REINF. STEEL LB.
2.99' TO 0.00'				0	0
4.99' TO 3.00'	0.66	151	139.1	91.806	21004.1
9.99' TO 5.00'				0	0
19.99 TO 10.00'				0	0
29.99 TO 20.00'				0	0
39.99 TO 30.00'				0	0
49.99 TO 40.00'				0	0
59.99 TO 50.00'				0	0
> 60.00'				0	0
SUB TOTALS			139.1	91.806	21004.1

WINGWALL TABULATION

STD. DWG.	BOX/SLAB HEIGHT FT.	ST HEIGHT FT.	CURB HEIGHT FT.	TOTAL HEIGHT FT.	DESIGN HEIGHT FT.
STD-17-1 THRU	5	0.67	1	6.67	7

STD-17-10 & STD-17-16 THRU STD-17-18	WINGWALL STD. DWG.	SKEW	FILL SLOPE	CONCRETE. C.Y.	REINF. STEEL LB.
	STD-17-11	90°	3:1	7.2	861

TOTAL QUANTITY	99.006	21865.1

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

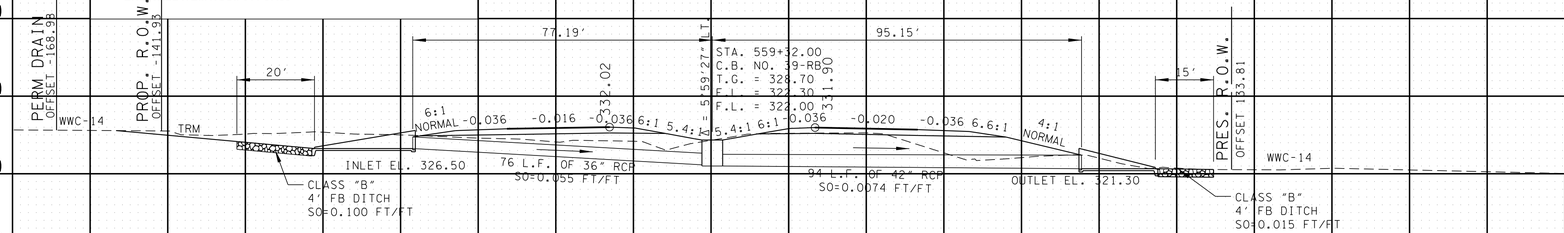
CULVERT SECTIONS

6/5/2018 4:34:37 AM
G:\Jobs\SH14\Const_PIN-100341-02\SH14CULVERTXSections1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	62
CONST.	2018	STP-14(63)	73

PIPE CULVERT
STATION: 559+32.00
STRUCTURE: 76' OF 36" RCP

SKEW	65° LT.	DEG.
DRAINAGE AREA	28.8	AC.
DESIGN DISCHARGE (Q50)	39.60	CFS
DESIGN DISCHARGE (Q100)	43.30	CFS
OVERTOPPING	331.11	ELEV.
ALLOWABLE HEADWATER	329.77	ELEV.
Q50 HEADWATER	329.63	ELEV.
Q100 HEADWATER	329.85	ELEV.
VELOCITY (Q50)	5.80	FT/S
VELOCITY (Q100)	6.20	FT/S
ENDWALLS REQUIRED:		
TYPE "U" LT.		
STANDARD DRAWING NOS.:		
D-PB-1, D-CB-39RB, & D-PE-42(A&B)		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	22.0	C.Y.
ENDWALL ITEM NOS.: 611-07.68		



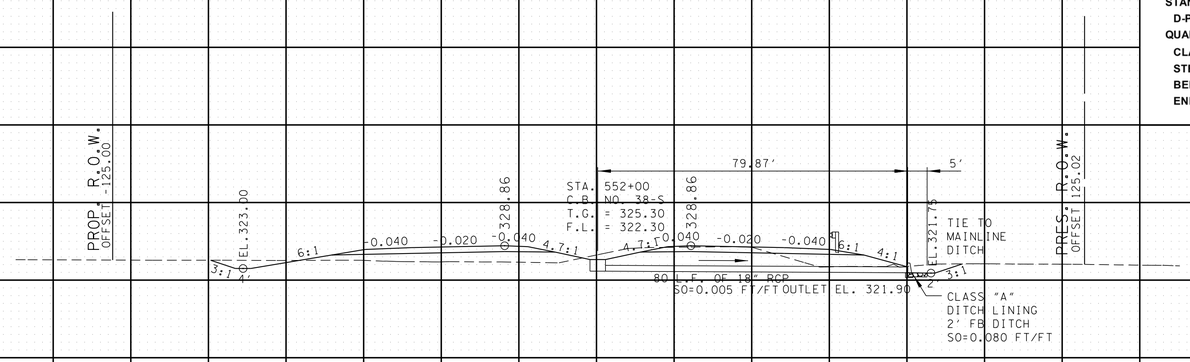
559+32.00

PIPE CULVERT
STATION: 559+32.00
STRUCTURE: #39RB C.B. 94' OF 42" RCP

SKEW	109°00'33" RT.	DEG.
DRAINAGE AREA	30.37	AC.
DESIGN DISCHARGE (Q50)	44.10	CFS
DESIGN DISCHARGE (Q100)	48.20	CFS
OVERTOPPING	331.66	ELEV.
ALLOWABLE HEADWATER	330.27	ELEV.
Q50 HEADWATER	329.08	ELEV.
Q100 HEADWATER	329.11	ELEV.
VELOCITY (Q50)	8.20	FT/S
VELOCITY (Q100)	8.50	FT/S
ENDWALLS REQUIRED:		
TYPE "U" RT.		
STANDARD DRAWING NOS.:		
D-PB-1, D-CB-39RB, & D-PE-42(A&B)		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	32.2	C.Y.
ENDWALL ITEM NOS.: 611-07.67		

PIPE CULVERT
STATION: 552+00.00
STRUCTURE: #38S C.B. 80' OF 18" RCP

SKEW	90° RT.	DEG.
DRAINAGE AREA	0.84	AC.
DESIGN DISCHARGE (Q50)	2.79	CFS
DESIGN DISCHARGE (Q100)	2.95	CFS
OVERTOPPING	326.80	ELEV.
ALLOWABLE HEADWATER	326.80	ELEV.
Q50 HEADWATER	325.65	ELEV.
Q100 HEADWATER	325.67	ELEV.
VELOCITY (Q50)	4.10	FT/S
VELOCITY (Q100)	4.20	FT/S
ENDWALLS REQUIRED:		
TYPE "ST" RT.		
STANDARD DRAWING NOS.:		
D-PB-1, D-CB-38S, & D-PE-4		
QUANTITIES:		
CLASS "A" CONCRETE	1.0	C.Y.
STEEL BAR REINFORCING	45.0	LB.
BEDDING MATERIAL	11.9	C.Y.
ENDWALL ITEM NOS.: 611-07.64		



552+00.00

160 120 80 40 0 40 80 120 160 200 240 280

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

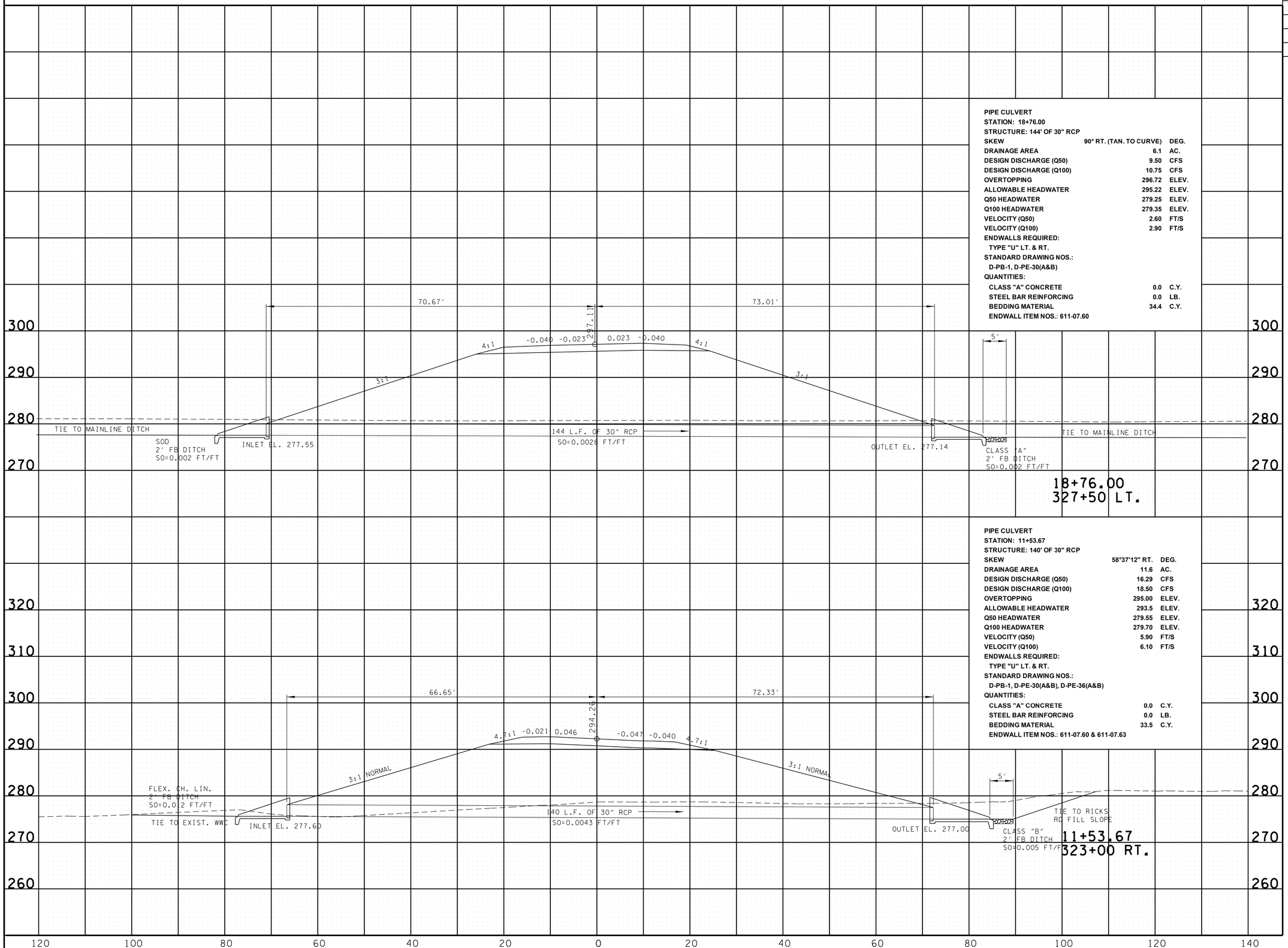
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:16:14 AM
G:\Jobs\SH14\Const_PIN-100341-02\SH14CULVERTXSections1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	81
CONST.	2018	STP-14(63)	74



PIPE CULVERT
STATION: 18+76.00
STRUCTURE: 144' OF 30" RCP

SKEW	**90° RT. (TAN. TO CURVE)**	**DEG.**
DRAINAGE AREA	**6.1**	**AC.**
DESIGN DISCHARGE (Q50)	**9.50**	**CFS**
DESIGN DISCHARGE (Q100)	**10.75**	**CFS**
OVERTOPPING	**296.72**	**ELEV.**
ALLOWABLE HEADWATER	**295.22**	**ELEV.**
Q50 HEADWATER	**279.25**	**ELEV.**
Q100 HEADWATER	**279.35**	**ELEV.**
VELOCITY (Q50)	**2.60**	**FT/S**
VELOCITY (Q100)	**2.90**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1, D-PE-30(A&B)
QUANTITIES:

CLASS "A" CONCRETE	**0.0**	**C.Y.**
STEEL BAR REINFORCING	**0.0**	**LB.**
BEDDING MATERIAL	**34.4**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.60

PIPE CULVERT
STATION: 11+53.67
STRUCTURE: 140' OF 30" RCP

SKEW	**58°37'12" RT.**	**DEG.**
DRAINAGE AREA	**11.6**	**AC.**
DESIGN DISCHARGE (Q50)	**16.29**	**CFS**
DESIGN DISCHARGE (Q100)	**18.50**	**CFS**
OVERTOPPING	**295.00**	**ELEV.**
ALLOWABLE HEADWATER	**293.5**	**ELEV.**
Q50 HEADWATER	**279.55**	**ELEV.**
Q100 HEADWATER	**279.70**	**ELEV.**
VELOCITY (Q50)	**5.90**	**FT/S**
VELOCITY (Q100)	**6.10**	**FT/S**

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1, D-PE-30(A&B), D-PE-36(A&B)
QUANTITIES:

CLASS "A" CONCRETE	**0.0**	**C.Y.**
STEEL BAR REINFORCING	**0.0**	**LB.**
BEDDING MATERIAL	**33.5**	**C.Y.**

ENDWALL ITEM NOS.: 611-07.60 & 611-07.63

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

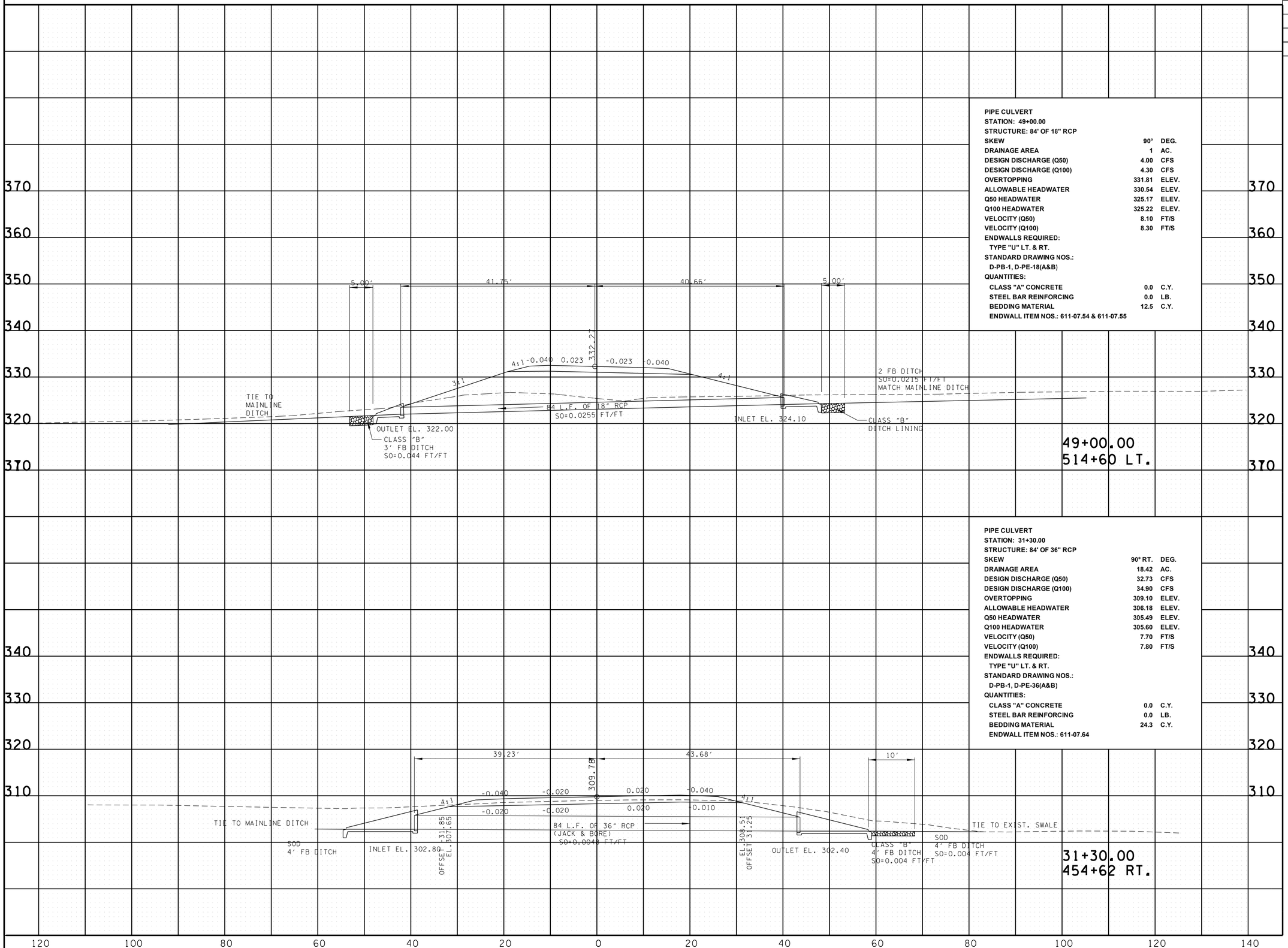
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:16:27 AM
G:\Jobs\SH14\Const_PIN-100341-02\SideRoad\CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	82
CONST.	2018	STP-14(63)	75



PIPE CULVERT
STATION: 49+00.00
STRUCTURE: 84' OF 18" RCP

SKEW	90°	DEG.
DRAINAGE AREA	1	AC.
DESIGN DISCHARGE (Q50)	4.00	CFS
DESIGN DISCHARGE (Q100)	4.30	CFS
OVERTOPPING	331.81	ELEV.
ALLOWABLE HEADWATER	330.54	ELEV.
Q50 HEADWATER	325.17	ELEV.
Q100 HEADWATER	325.22	ELEV.
VELOCITY (Q50)	8.10	FT/S
VELOCITY (Q100)	8.30	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1, D-PE-18(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	12.5	C.Y.

ENDWALL ITEM NOS.: 611-07.54 & 611-07.55

49+00.00
514+60 LT.

PIPE CULVERT
STATION: 31+30.00
STRUCTURE: 84' OF 36" RCP

SKEW	90° RT.	DEG.
DRAINAGE AREA	18.42	AC.
DESIGN DISCHARGE (Q50)	32.73	CFS
DESIGN DISCHARGE (Q100)	34.90	CFS
OVERTOPPING	309.10	ELEV.
ALLOWABLE HEADWATER	306.18	ELEV.
Q50 HEADWATER	305.49	ELEV.
Q100 HEADWATER	305.60	ELEV.
VELOCITY (Q50)	7.70	FT/S
VELOCITY (Q100)	7.80	FT/S

ENDWALLS REQUIRED:
TYPE "U" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1, D-PE-36(A&B)
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	24.3	C.Y.

ENDWALL ITEM NOS.: 611-07.64

31+30.00
454+62 RT.

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

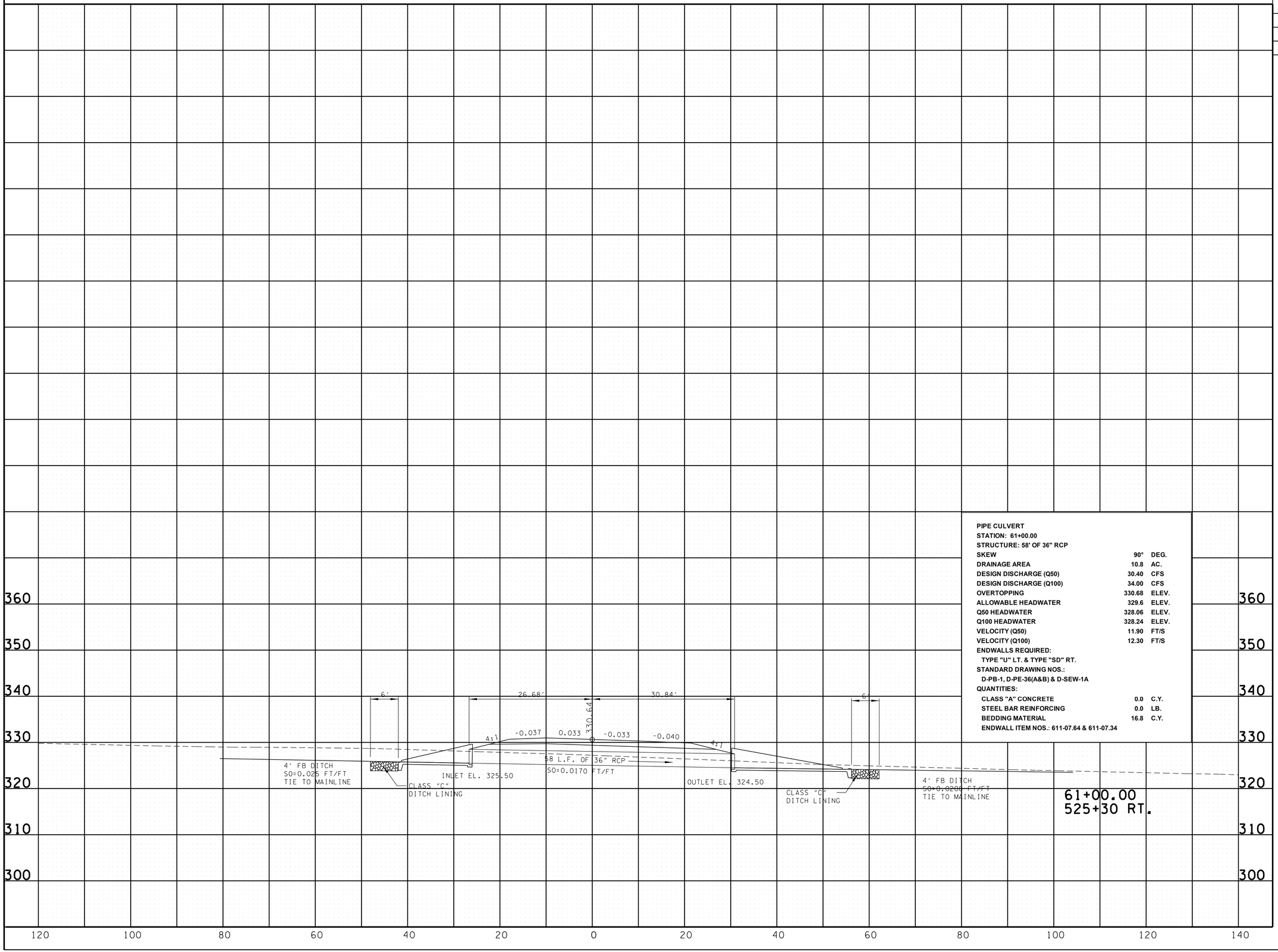
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:16:35 AM
G:\Jobs\SH14\Const_PIN-100341-02\SideRoad\CULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	83
CONST.	2018	STP-14(63)	76

REV. 10-02-08: REMOVED SIDE RD. AT STA. 514+60 RT. AND ADDED TURNAROUND WHICH ELIMINATED PIPE AT STA. 50+89.04.



PIPE CULVERT		
STATION: 61+00.00		
STRUCTURE: 58' OF 36" RCP		
SKEW	90°	DEG.
DRAINAGE AREA	10.8	AC.
DESIGN DISCHARGE (Q50)	30.40	CFS
DESIGN DISCHARGE (Q100)	34.00	CFS
OVERTOPPING	330.68	ELEV.
ALLOWABLE HEADWATER	329.6	ELEV.
Q50 HEADWATER	328.06	ELEV.
Q100 HEADWATER	328.24	ELEV.
VELOCITY (Q50)	11.90	FT/S
VELOCITY (Q100)	12.30	FT/S
ENDWALLS REQUIRED:		
TYPE "U" LT. & TYPE "SD" RT.		
STANDARD DRAWING NOS.:		
D-PB-1, D-PE-36(A&B) & D-SEW-1A		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	16.8	C.Y.
ENDWALL ITEM NOS.: 611-07.64 & 611-07.34		

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

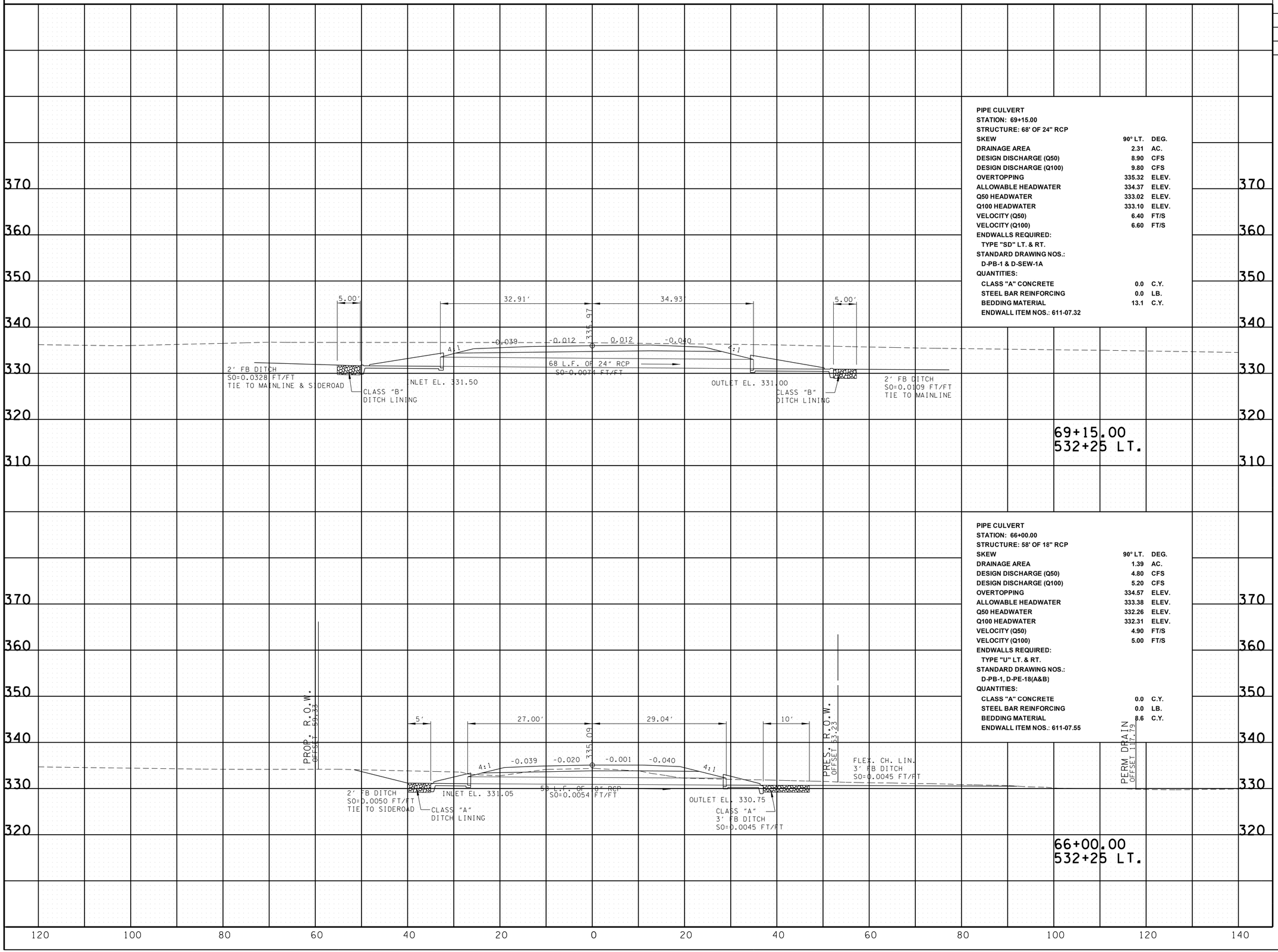
COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:16:44 AM
G:\Jobs\SH14\Const_PIN-100341-02\SideRoadCULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	84
CONST.	2018	STP-14(63)	77



PIPE CULVERT
STATION: 69+15.00
STRUCTURE: 68' OF 24" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	2.31	AC.
DESIGN DISCHARGE (Q50)	8.90	CFS
DESIGN DISCHARGE (Q100)	9.80	CFS
OVERTOPPING	335.32	ELEV.
ALLOWABLE HEADWATER	334.37	ELEV.
Q50 HEADWATER	333.02	ELEV.
Q100 HEADWATER	333.10	ELEV.
VELOCITY (Q50)	6.40	FT/S
VELOCITY (Q100)	6.60	FT/S
ENDWALLS REQUIRED:		
TYPE "SD" LT. & RT.		
STANDARD DRAWING NOS.:		
D-PB-1 & D-SEW-1A		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	13.1	C.Y.
ENDWALL ITEM NOS.: 611-07.32		

PIPE CULVERT
STATION: 66+00.00
STRUCTURE: 58' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	1.39	AC.
DESIGN DISCHARGE (Q50)	4.80	CFS
DESIGN DISCHARGE (Q100)	5.20	CFS
OVERTOPPING	334.57	ELEV.
ALLOWABLE HEADWATER	333.38	ELEV.
Q50 HEADWATER	332.26	ELEV.
Q100 HEADWATER	332.31	ELEV.
VELOCITY (Q50)	4.90	FT/S
VELOCITY (Q100)	5.00	FT/S
ENDWALLS REQUIRED:		
TYPE "U" LT. & RT.		
STANDARD DRAWING NOS.:		
D-PB-1, D-PE-18(A&B)		
QUANTITIES:		
CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	8.6	C.Y.
ENDWALL ITEM NOS.: 611-07.55		

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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:16:48 AM
G:\Jobs\SH14\Const_PIN-100341-02\SideRoadCULVERTXSections.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	85
CONST.	2018	STP-14(63)	78

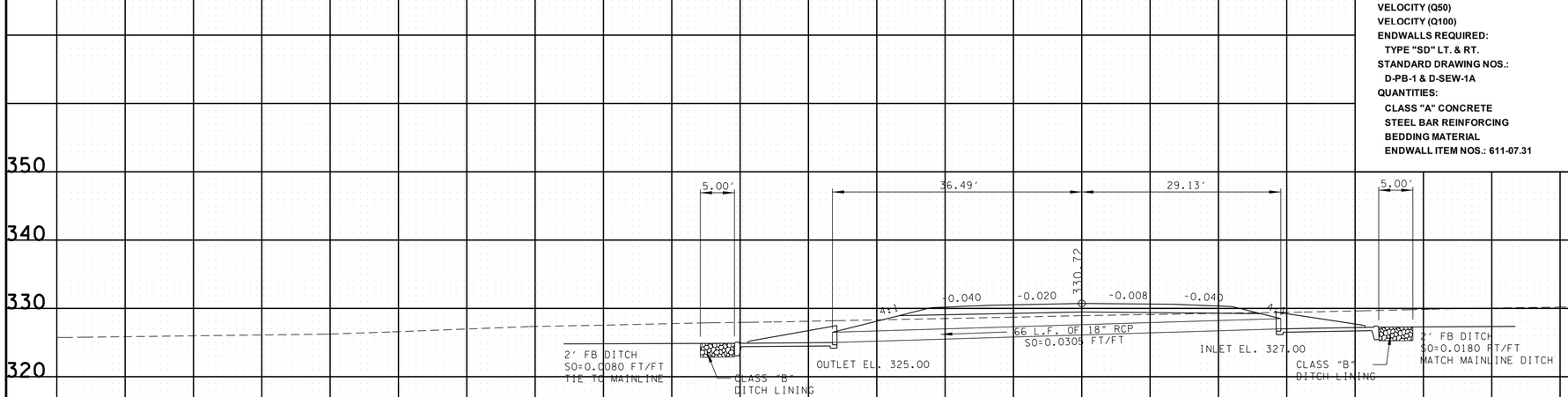
PIPE CULVERT
STATION: 90+80.00
STRUCTURE: 66' OF 18" RCP

SKEW	90° LT.	DEG.
DRAINAGE AREA	1.2	AC.
DESIGN DISCHARGE (Q50)	5.00	CFS
DESIGN DISCHARGE (Q100)	5.40	CFS
OVERTOPPING	330.26	ELEV.
ALLOWABLE HEADWATER	329.23	ELEV.
Q50 HEADWATER	328.22	ELEV.
Q100 HEADWATER	328.27	ELEV.
VELOCITY (Q50)	9.20	FT/S
VELOCITY (Q100)	9.50	FT/S

ENDWALLS REQUIRED:
TYPE "SD" LT. & RT.
STANDARD DRAWING NOS.:
D-PB-1 & D-SEW-1A
QUANTITIES:

CLASS "A" CONCRETE	0.0	C.Y.
STEEL BAR REINFORCING	0.0	LB.
BEDDING MATERIAL	9.8	C.Y.

ENDWALL ITEM NOS.: 611-07.31



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

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT SECTIONS

6/5/2018 9:16:57 AM
G:\Jobs\SH14\Const_PIN-100341-02\SideRoad\CULVERTXSections1.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP-14(63)	79

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 SECTION SHALL BE NOTIFIED. THE STREAM NAME, STREAM NUMBER, AND DATE THE WATER WAS DIVERTED INTO THE NEWLY CONSTRUCTED STREAM / CHANNEL SHALL BE SUPPLIED WITH THE NOTIFICATION.

ENVIRONMENTAL

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

EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	93
209-02.07	18" TEMPORARY SLOPE DRAIN	L.F.	479
209-03.23	FILTER SOCK (24 INCH)	L.F.	246
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	53985
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	31068
209-08.07	ROCK CHECK DAM PER	EACH	57
209-08.08	ENHANCED ROCK CHECK DAM	EACH	168
209-08.09	FILTER SOCK CHECK DAM	EACH	8
209-09.01	SANDBAGS	BAG	2656
209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	2
209-09.04	SEDIMENT FILTER BAG (15' X 10')	EACH	2
209-10.20	TEMPORARY SEDIMENT TRAP	C.Y.	254
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	258
209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	19
209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	40
209-40.42	CATCH BASIN FILTER ASSEMBLY(TYPE 2)	EACH	7
209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	2
209-65.03	TEMPORARY DIVERSION CHANNEL	L.F.	312
209-65.04	TEMPORARY IN STREAM DIVERSION	L.F.	439
303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	581
621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	104
621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	24
621-03.04	30" TEMPORARY DRAINAGE PIPE	L.F.	104
621-03.05	36" TEMPORARY DRAINAGE PIPE	L.F.	14
621-03.06	42" TEMPORARY DRAINAGE PIPE	L.F.	30
707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	21551
709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	650
709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	5196
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	10990
740-11.04	TEMPORARY SEDIMENT TUBE 20IN (DESCRIPTION)	L.F.	115864
805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	29799

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
SFB	SEDIMENT FILTER BAG	EC-STR-2
✱ SF ✱ SF ✱ SF ✱	SILT FENCE	EC-STR-3B
✱ SFB ✱ SFB ✱ SFB ✱	SILT FENCE WITH WIRE BACKING	EC-STR-3C
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	EC-STR-7
✱✱ SOCK ✱✱ SOCK ✱✱	FILTER SOCK	EC-STR-8
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19
	EROSION CONTROL BLANKET	EC-STR-34
✱✱ TUBE ✱✱ TUBE ✱✱	SEDIMENT TUBE	EC-STR-37
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
2	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	EC-STR-42
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
	SOD	
✱ HVF ✱ HVF	HIGH VISIBILITY FENCE	S-F-1
	TEMPORARY DIVERSION CHANNEL (DESCRIBE-SIZE AND TYPE OF LINING)	EC-STR-31
IN DIV	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	SUSPENDED PIPE DIVERSION	EC-STR-33 EC-STR-33A
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY SLOPE DRAIN	EC-STR-27

NOTE:
SF / SFB NOT ON CONTOUR SHOULD HAVE J-HOOKS ADDED.

TEMPORARY COSTRUCTION EXITS TO BE LOCATED BY THE ENGINEER.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) NOTES

6/5/2018 8:52:32 AM
G:\Jobs\SH14\Const_PIN-100341-02\079.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	92
CONST.	2018	STP-14(63)	80

79022-3233-14
BEGIN PROJ. NO. STP-14(63) (CONST.)
PHASE 2 STA. 900+00.00 =
19.97' LT. STA. 300+00.00 M.L.C.L.
N 377672.2452
E 828720.1410

79022-3233-14
BEGIN PROJ. NO. STP-14(63) (CONST.)
PHASE 2 STA. 800+00.00 =
19.76' RT. STA. 300+00.00 M.L.C.L.
N 377645.8955
E 828749.8760

MAINTAIN A MINIMUM 25' NATURAL VEGETATION BUFFER ON EACH SIDE OF CREEKS THROUGH PROJECT.

PERM. WETLAND IMPACT

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.090 AC.
	VOLUME OF PERMANENT IMPACT = 145 C.Y.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-1	1.40	1

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

CLEARING & GRUBBING

STAGE I

6/5/2018 4:46:30 AM
G:\Jobs\SH14\Const_PIN-100341-02\080.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	92
CONST.	2018	STP-14(63)	80A

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

WETLAND AREAS WITHIN THE PROPOSED FILL/CUT AREAS SHOULD BE UNDERCUT APPROXIMATELY 3' TO REMOVE THE SOFT SATURATED MATERIAL AS DIRECTED BY THE ENGINEER AND PLACE BACK 3' OF GRADED SOLID ROCK WRAPPED WITH TYPE IV GEOTEXTILE FABRIC. SEE CROSS SECTIONS AND GEOTECH REPORT FOR MORE INFORMATION.

NOTE:
CONSTRUCT PROPOSED DITCH STA. 315+50 TO STA. 318+80. TIE EXISTING DITCH STA. 319+33 TO PROPOSED DITCH STA. 318+80 PRIOR TO CONSTRUCTING HAUL ROAD.

310 79022-2290-14
BEGIN PROJ. NO. STP-14(43) (R.O.W.)
STA. 305+71.30
N 378089.8364
E 829110.2314

315

810

MATCH LINE STA. 305+00.00 SEE SHEET NO. 80

MATCH LINE STA. 318+00.00 SEE SHEET NO. 80B

POND

TRIBUTARY TO BIG CREEK

STR-2

STR-3

PRES. & PROP. R.O.W.

PROP. GATE

PROP. C.A. FENCE

WOODS

WTL-2

WTL-3

DETAIL CRANE PAD
SCALE = 1.5X

40'
40'
10' R
22'

TO BE USED FOR DEWATERING DURING BRIDGE PIER CONSTRUCTION.

CULTIVATED

MAINTAIN A MINIMUM 30' NATURAL VEGETATION BUFFER ON EACH SIDE OF CREEKS THROUGH PROJECT.

PROPOSED 42' X 150' 3 SPAN, 45°SKEW CONCRETE GIRDER BRIDGE
PROP. BRIDGE

OUT - 3

OUT - 2

END PROP. BR.
STA. 317+26.01

BEGIN PROP. BR.
STA. 315+76.63

BEGIN PROP. BR.
STA. 316+00.24

EXISTING GUARDRAIL TO BE REMOVED

N 51° 08' 38" W

N 41° 21' 20" E

N 38° 42' 30" E

N 41° 30' 53" E

24'+/-

EXIST. S.R. 14 (ASP.)

RICKS RD. (ASP.)

4" PLASTIC
INV-286.16
OUTLET DITCH

4" PLASTIC
INV-284.81
EW

4" PLASTIC
INV-285.40
CONC. DITCH

EW

4" PLASTIC
INV-285.33

2 @ 150.6' - 8' X 8' RCBC
INV-281.25

PROPOSED RELOCATED STR-2
(8' CHANNEL WIDTH)

PERM. DRAIN. ESMT.

EARTH BERM

WETLAND

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-2 & STR-3 AND THAT STR-2 & STR-3 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS. THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-2 & WTL-3 AND THAT WTL-2 & WTL-3 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

EXIST. BRIDGE @ LM 30-24 5 SPAN BRIDGE ON CONCRETE BENTS WITH CONCRETE DECK "79SR0140041

PROPOSED 42' X 150' 3 SPAN, 45°SKEW CONCRETE GIRDER BRIDGE

EXIST. BRIDGE TO BE REMOVED 34.5' X 142.5'

INV-276.33
24" CMP
INV-276.06

EXIST. BRIDGE @ LM 79-59-1.98 3 SPAN ON CONCRETE BENTS WITH CONCRETE DECK

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-2	1.10	4
OUT-3	2.60	4

LEGEND	WETLAND IMPACTS (WTL-2)
	AREA OF PERMANENT IMPACT = 1.010 AC.
	VOLUME OF PERMANENT IMPACT = 1630 C.Y.
LEGEND	WETLAND IMPACTS (WTL-3)
	AREA OF PERMANENT IMPACT = 1.272 AC.
	VOLUME OF PERMANENT IMPACT = 2052 C.Y.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

6/5/2018 4:46:33 AM
G:\Jobs\SH14\Const_PIN-100341-02\080A.sht

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-3A	4.90	3
OUT-3B	2.70	1
OUT-4	12.6 (8.8 UNDISTURBED DIVERSION)	2
OUT-4A	11.2 (8.6 UNDISTURBED DIVERSION)	3

WETLAND AREAS WITHIN THE PROPOSED FILL/CUT AREAS SHOULD BE UNDERCUT APPROXIMATELY 3' TO REMOVE THE SOFT SATURATED MATERIAL AS DIRECTED BY THE ENGINEER AND PLACE BACK 3' OF GRADED SOLID ROCK WRAPPED WITH TYPE IV GEOTEXTILE FABRIC. SEE CROSS SECTIONS AND GEOTECH REPORT FOR MORE INFORMATION.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	93
CONST.	2018	STP-14(63)	80B

REV. 7-07-08: ADDED FIELD ENTRANCE AT STA. 16+00 TO TR. 5 OFF RICKS ROAD (LEFT).

320

325

330

CULTIVATED

STA. 323+00.00 M.L.C.L.=
STA. 10+00.00 RICKS ROAD RT.
N 379416.9649
E 830217.4528

SCARIFY, ADD TOPSOIL & SEED

S 8° 00' 09" W

S 48° 29' 07" E

PROP. R.O.W.

PRES. R.O.W.

RICKS RD. (ASP.)

PRES. & PROP. R.O.W.

** TUBE 20" **

OUT - 3A
PH 1 & 2

INV-279.61

CRV. SCP 280

INV-279.86

24" CMP

INV-277.46

EXISTING PIPE TO BE PLUGGED

OUT - 3B

18" TEMP. SLOPE DRAIN

WWC-2

N 41° 30' 53" E

EXIST. S.R. 14 (ASP.)

24'+/-

S 40° 51' 20" W

N 48° 29' 07" W

MATCH LINE STA. 318+00.00 SEE SHEET NO. 80A

MATCH LINE STA. 331+00.00 SEE SHEET NO. 80C

OUT - 4A

88' OF 24"CMP EXISTING PIPE TO BE REMOVED

S 8° 48' 35" W

S 48° 29' 07" E

STR-3

WWC-3

INV-276.86

24" CMP

INV-276.61

EXISTING GUARDRAIL TO BE REMOVED

S 39° 16' 26" W

PERM. WETLAND IMPACT

WTL-4, WAA-1

WTL-4, WAA-2

STA. 327+50.00 M.L.C.L.=
STA. 20+00.00 RICKS ROAD LT.
N 379753.9184
E 830515.7184

GAB. BASKET

EXIST. BRIDGE-1 SPAN WITH CONCRETE ABUTMENTS AND CONCRETE DECK (31.6' WIDE) BRIDGE ID = 790A1940001

EXISTING GUARDRAIL TO REMAIN

PRES. R.O.W. GAB. BASKET

OUT - 4

TRIBUTARY TO BIG CREEK

15

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-4 & WTL-5 AND THAT WTL-4 & WTL-5 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-3 AND THAT STR-3 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

LEGEND	WETLAND IMPACTS (WTL-4)
	STA. 325+70 TO 326+70 RT.(WAA-1) AREA OF PERMANENT IMPACT = 0.036 AC. VOLUME OF PERMANENT IMPACT = 58 C.Y. STA. 327+10 TO 328+25 RT.(WAA-1) AREA OF PERMANENT IMPACT = 0.031 AC. VOLUME OF PERMANENT IMPACT = 50 C.Y. STA. 333+40 TO 338+15 RT.(WAA-2) AREA OF PERMANENT IMPACT = 0.170 AC. VOLUME OF PERMANENT IMPACT = 274 C.Y. STA. 333+40 TO 355+65 RT.(WAA-2) AREA OF PERMANENT IMPACT = 0.068 AC. VOLUME OF PERMANENT IMPACT = 110 C.Y. STA. 338+55 TO 352+00 RT.(WAA-2) AREA OF PERMANENT IMPACT = 1.183 AC. VOLUME OF PERMANENT IMPACT = 1909 C.Y. TOTAL AREA OF PERMANENT IMPACT = 1.488 AC. TOTAL VOLUME OF PERMANENT IMPACT = 2401 C.Y.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

6/5/2018 4:46:37 AM
G:\Jobs\SH14\Const_PIN-100341-02\080B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	93
CONST.	2018	STP-14(63)	80C

REV. 7-07-08: ADDED FIELD ENTRANCE AT STA. 16+00 TO TR. 5 OFF RICKS ROAD (LEFT).

WETLAND AREAS WITHIN THE PROPOSED FILL/CUT AREAS SHOULD BE UNDERCUT APPROXIMATELY 3' TO REMOVE THE SOFT SATURATED MATERIAL AS DIRECTED BY THE ENGINEER AND PLACE BACK 3' OF GRADED SOLID ROCK WRAPPED WITH TYPE IV GEOTEXTILE FABRIC. SEE CROSS SECTIONS AND GEOTECH REPORT FOR MORE INFORMATION.

335

CULTIVATED

340

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-4 & WTL-5 AND THAT WTL-4 & WTL-5 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

CULTIVATED

WOODS

N

MATCH LINE STA. 331+00.00 SEE SHEET NO. 80B

MATCH LINE STA. 344+00.00 SEE SHEET NO. 80D

PROP. R.O.W.

TUBE 20"** TUBE 20"** TUBE 20"**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	94
CONST.	2018	STP-14(63)	80D

WETLAND AREAS WITHIN THE PROPOSED FILL/CUT AREAS SHOULD BE UNDERCUT APPROXIMATELY 3' TO REMOVE THE SOFT SATURATED MATERIAL AS DIRECTED BY THE ENGINEER AND PLACE BACK 3' OF GRADED SOLID ROCK WRAPPED WITH TYPE IV GEOTEXTILE FABRIC. SEE CROSS SECTIONS AND GEOTECH REPORT FOR MORE INFORMATION.

CULTIVATED

CULTIVATED

345

350

355

CULTIVATED

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-4 & WTL-5 AND THAT WTL-4 & WTL-5 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

WETLAND AREA EXTENDS BEYOND PROJECT R.O.W.

WOODS

WETLAND

PERM. WETLAND IMPACT

PROP. R.O.W.

WTL-5

WETLAND

PRES. R.O.W.

PROP. R.O.W.

PRES. R.O.W.

MATCH LINE STA. 344+00.00 SEE SHEET NO. 80C

MATCH LINE STA. 357+00.00 SEE SHEET NO. 80E

N 41° 30' 53" E

EXIST. S.R. 14 (ASP.) 24'+/-

EARTH BERM

EARTH BERM

EARTH BERM

EARTH BERM

WTL-4, WAA-2

PRES. & PROP. R.O.W.

WETLAND

WTL-4, WAA-2

WETLAND

WETLAND

WTL-4, WAA-2

WETLAND

PERM. WETLAND IMPACT

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-4 & WTL-5 AND THAT WTL-4 & WTL-5 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

WETLAND AREA EXTENDS BEYOND PROJECT R.O.W.

WOODS

WOODS

WOODS

GRAVEL DRIVE

PRES. & PROP. R.O.W.

POND

PND-1

LEGEND	WETLAND IMPACTS (WTL-4)
	STA. 325+70 TO 326+70 RT.(WAA-1) AREA OF PERMANENT IMPACT = 0.036 AC. VOLUME OF PERMANENT IMPACT = 58 C.Y. STA. 327+10 TO 328+25 RT.(WAA-1) AREA OF PERMANENT IMPACT = 0.031 AC. VOLUME OF PERMANENT IMPACT = 50 C.Y. STA. 333+40 TO 338+15 RT.(WAA-2) AREA OF PERMANENT IMPACT = 0.170 AC. VOLUME OF PERMANENT IMPACT = 274 C.Y. STA. 333+40 TO 355+65 RT.(WAA-2) AREA OF PERMANENT IMPACT = 0.068 AC. VOLUME OF PERMANENT IMPACT = 110 C.Y. STA. 338+55 TO 352+00 RT.(WAA-2) AREA OF PERMANENT IMPACT = 1.183 AC. VOLUME OF PERMANENT IMPACT = 1909 C.Y.
	TOTAL AREA OF PERMANENT IMPACT = 1.488 AC. TOTAL VOLUME OF PERMANENT IMPACT = 2401 C.Y.

LEGEND	WETLAND IMPACTS (WTL-5)
	AREA OF PERMANENT IMPACT = 1.239 AC. VOLUME OF PERMANENT IMPACT = 1999 C.Y.

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

6/5/2018 4:46:40 AM
G:\Jobs\SH14\Const_PIN-100341-02\080D.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	94
CONST.	2018	STP-14(63)	80E

WETLAND AREAS WITHIN THE PROPOSED FILL/CUT AREAS SHOULD BE UNDERCUT APPROXIMATELY 3' TO REMOVE THE SOFT SATURATED MATERIAL AS DIRECTED BY THE ENGINEER AND PLACE BACK 3' OF GRADED SOLID ROCK WRAPPED WITH TYPE IV GEOTEXTILE FABRIC. SEE CROSS SECTIONS AND GEOTECH REPORT FOR MORE INFORMATION.

NOTE:
CONSTRUCT PROPOSED DITCH STA. 365+50 TO STA. 369+50. TIE EXISTING DITCH STA. 370+00 TO PROPOSED DITCH STA. 369+50 PRIOR TO CONSTRUCTING HAUL ROAD.

DETAIL CRANE PAD
SCALE = 1.5X

360 365 370

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-6 AND THAT WTL-6 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

WETLAND AREA EXTENDS BEYOND PROJECT R.O.W.

CULTIVATED

PROP. R.O.W.

PERM. WETLAND IMPACT

MAINTAIN A MINIMUM 30' NATURAL VEGETATION BUFFER ON EACH SIDE OF CREEKS THROUGH PROJECT.

PRES. R.O.W.

N 41° 30' 53" E

EXIST. S.R. 14 (ASP.) 24'+/-

EXISTING GUARDRAIL TO BE REMOVED

EXIST. BRIDGE @ LM 31.00 7 SPAN BRIDGE ON CONCRETE BENTS WITH CONCRETE DECK #79SR0140043

PRES. & PROP. R.O.W.

PROPOSED DUAL 42' X 255'-2" 5 SPAN, 55° SKEW CONCRETE GIRDER BRIDGE

EXIST. BRIDGE TO BE REMOVED 30' X 214'

MAINTAIN A MINIMUM 30' NATURAL VEGETATION BUFFER ON EACH SIDE OF CREEKS THROUGH PROJECT.

STR-4

TO BE USED FOR DEWATERING DURING BRIDGE PIER CONSTRUCTION

CULTIVATED

WWC-6

CRANE PAD

EXISTING GUARDRAIL TO BE REMOVED

PRES. & PROP. R.O.W.

OUT - 7

STR-4

PND-1
POND

WOODS

MAPLE

GRAVEL

DROWNED CREEK

T.V.A. ESMT.

MATCH LINE STA. 357+00.00 SEE SHEET NO. 80D

MATCH LINE STA. 370+00.00 SEE SHEET NO. 80F

LEGEND	WETLAND IMPACTS (WTL-6)
	AREA OF PERMANENT IMPACT = 0.159 AC.
	VOLUME OF PERMANENT IMPACT = 257 C.Y.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-7	4.60	5

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN, ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

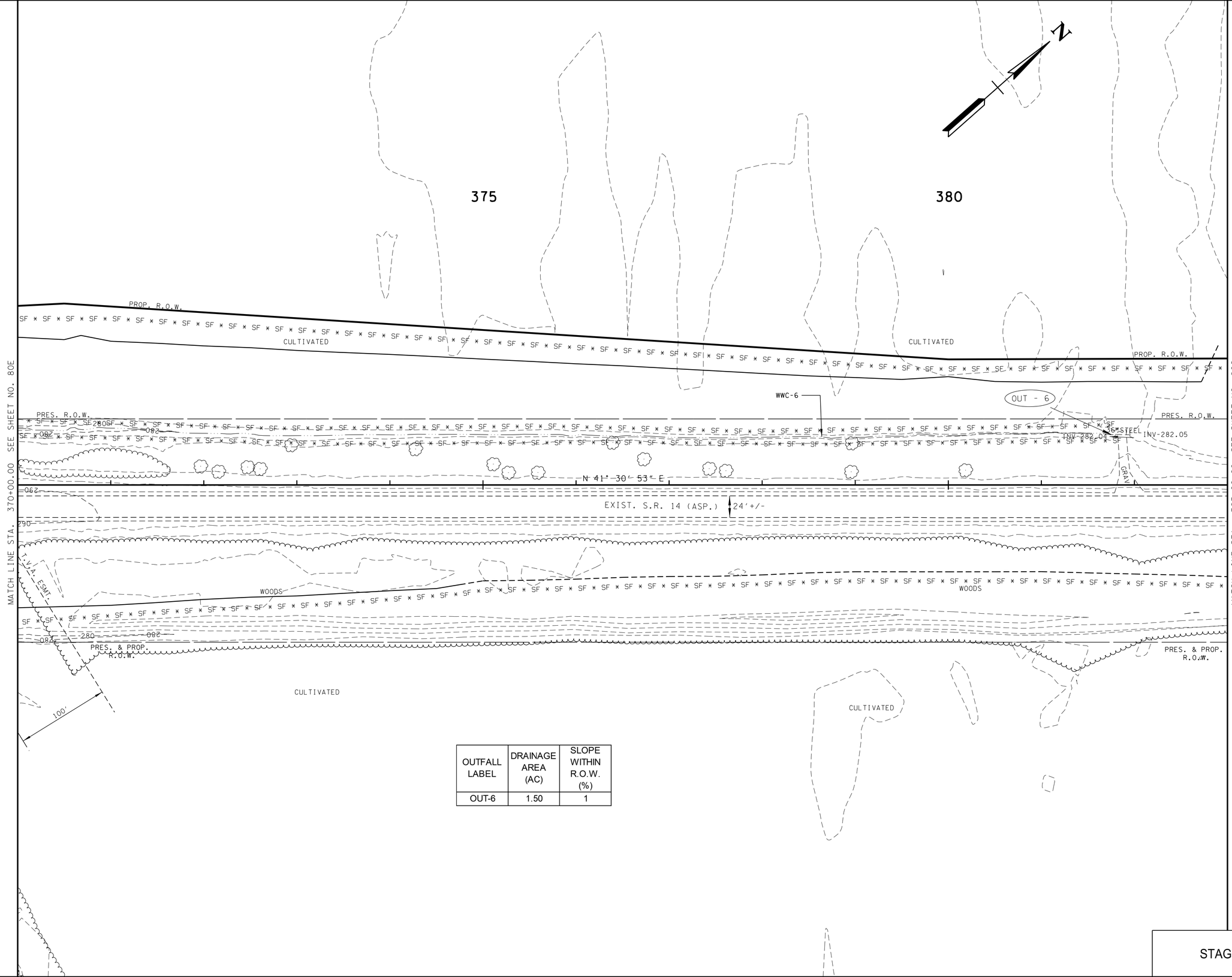
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

6/5/2018 4:46:42 AM
G:\Jobs\SH14\Const_PIN-100341-02\080E.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	95
CONST.	2018	STP-14(63)	80F



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-6	1.50	1

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STAGE I

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

6/5/2018 4:46:43 AM
G:\Jobs\SH14\Const_PIN-100341-02\080F.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	95
CONST.	2018	STP-14(63)	80G

385

390

395

N

WOODS

CULTIVATED

CULTIVATED

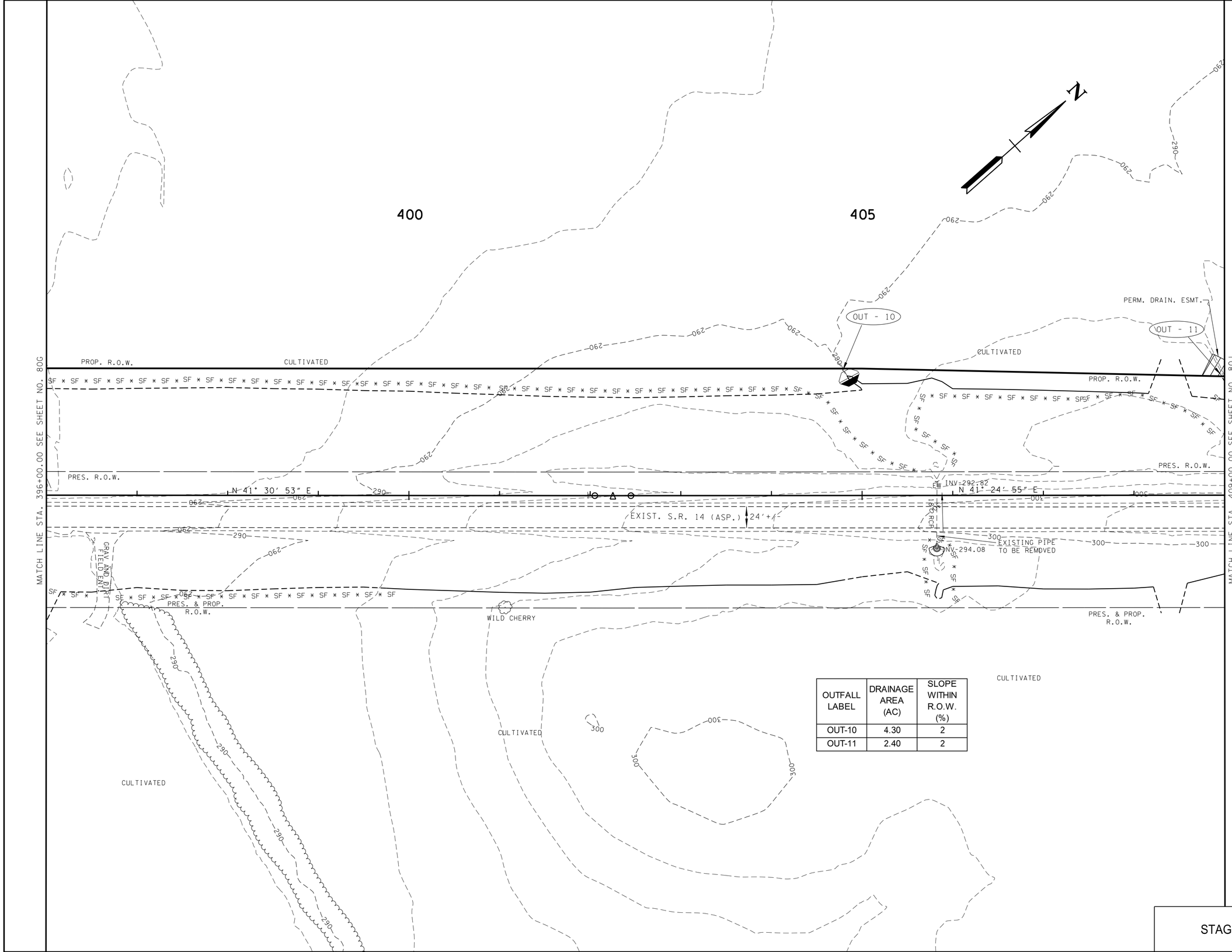
OUT - 9

PROP. R.O.W.

PROP. R.O.W.

SF * SF * SF *

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	96
CONST.	2018	STP-14(63)	80H



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-10	4.30	2
OUT-11	2.40	2

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

6/5/2018 4:46:47 AM
G:\Jobs\SH14\Const_PIN-100341-02\080H.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	96
CONST.	2018	STP-14(63)	80J

410

415

420

PERM. DRAIN. ESMT.

CULTIVATED

CULTIVATED

PROP. R.O.W.

PROP. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

INV-295.38

N 41° 24' 55" E

24'+/- EXIST. S.R. 14 (ASP.)

EXISTING PIPE TO BE REMOVED

INV-296.16

FIELD ENT. W/NO DEFINED EDGES

TUBE 20" TUBE 20" TUBE 20" TUBE 20" TUBE 20" TUBE 20" TUBE 20" TUBE 20" TUBE 20" TUBE 20"

PRES. & PROP. R.O.W.

PRES. & PROP. R.O.W.

CULTIVATED

CULTIVATED

MATCH LINE STA. 409+00.00 SEE SHEET NO. 80H

MATCH LINE STA. 422+00.00 SEE SHEET NO. 80K

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

6/5/2018 4:46:47 AM

G:\Jobs\SH14\Const_PIN-100341-02\080J.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	97
CONST.	2018	STP-14(63)	80K

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-12	15.9 (11.7 UNDISTURBED)	1
OUT-12A	4.4 (2.8 UNDISTURBED)	1
OUT-12B	4.8 (4.8 UNDISTURBED)	1
OUT-12C	4.9 (4.0 UNDISTURBED)	1
OUT-13	15.2 (15.2 UNDISTURBED)	1
OUT-13A	0.90	1
OUT-13B	2.80	1

425

430

435

N

MATCH LINE STA. 422+00.00 SEE SHEET NO. 80J

MATCH LINE STA. 435+00.00 SEE SHEET NO. 80L

WWC-8

INV-290.27

48"CMP

INV-289.97

OUT - 12

WOODS

425+37.39

114.17'

426+00.00

110.00'

PERM. DRAIN. ESMT.

PROP. R.O.W.

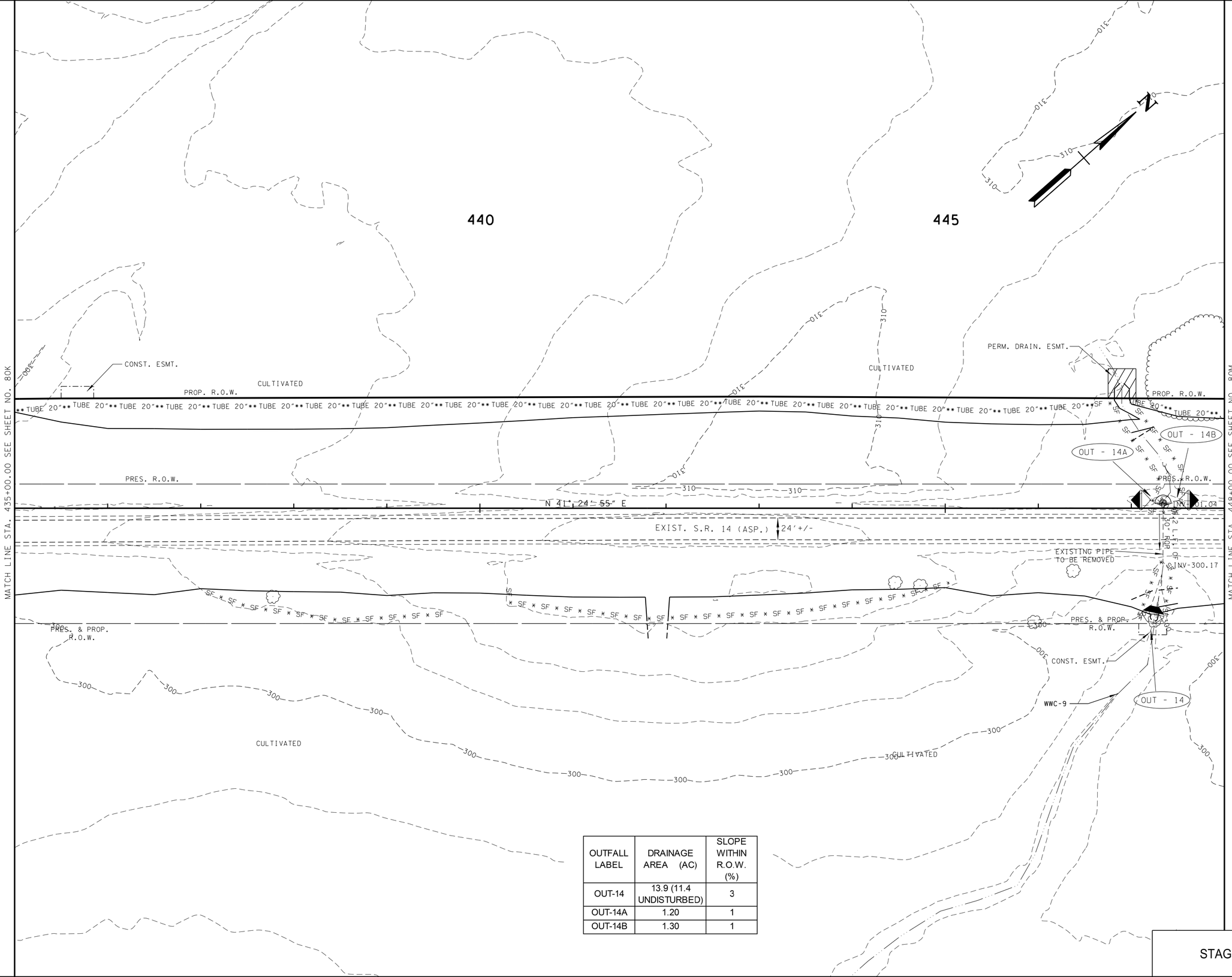
CULTIVATED

424+50.00

120.00'

TUBE 20"** TUBE 20"** TUBE 20"**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	97
CONST.	2018	STP-14(63)	80L


440
445
N
CONST. ESMT.
PROP. R.O.W.
CULTIVATED
PERM. DRAIN. ESMT.
TUBE 20"** TUBE 20"** TUBE 20"**

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-27	7.1 (3.9 UNDISTURBED)	2
OUT-27A	1.70	1
OUT-27B	4.9 (3.9 UNDISTURBED)	1
OUT-47	7.40	1
OUT-47A	3.70	1
OUT-47B	3.70	1

LEGEND	WETLAND IMPACTS (WTL-7)
	STA. 457+85 TO 462+15 RT. AREA OF PERMANENT IMPACT = 0.146 AC. VOLUME OF PERMANENT IMPACT = 236 C.Y.
	STA. 460+45 TO 463+50 LT. AREA OF PERMANENT IMPACT = 1.176 AC. VOLUME OF PERMANENT IMPACT = 1898 C.Y.
	STA. 465+10 TO 466+95 LT. AREA OF PERMANENT IMPACT = 0.176 AC. VOLUME OF PERMANENT IMPACT = 284 C.Y.
	TOTAL AREA OF PERMANENT IMPACT = 1.498 AC. TOTAL VOLUME OF PERMANENT IMPACT = 2418 C.Y.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	98
CONST.	2018	STP-14(63)	80M

450

455

460

STA. 454+62.00 M.L.&L.L.=
STA. 30+00.00 S.R. 205
(MILLINGTON-ARLINGTON ROAD) LT. & RT.
N 389278.4975
E 838934.5792

S 80° 34' 22" E S.R. 205 (MILLINGTON-ARLINGTON RD.) (ASP.)

S 63° 37' 21" E

N 41° 24' 55" E

S.R. 205 (MILLINGTON-ARLINGTON RD.) (ASP.)

N 85° 44' 35" E

EXIST. S.R. 14 (ASP.)

PROP. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

PRES. & PROP. R.O.W.

PRES. & PROP. R.O.W.

PROP. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

PRES. & PROP. R.O.W.

PRES. & PROP. R.O.W.

PRES. & PROP. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

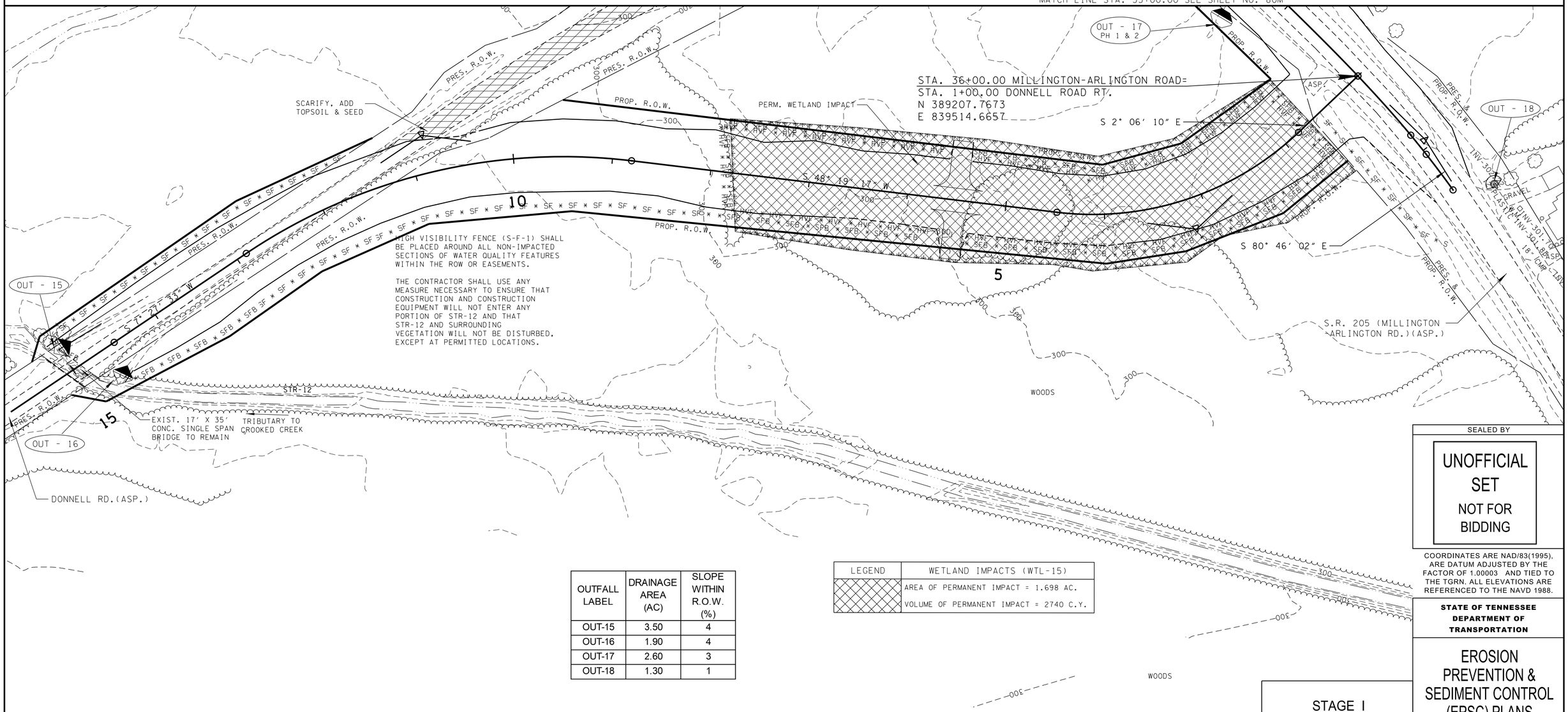
PRES. & PROP. R.O.W.

PRES. & PROP. R.O.W.

PRES. & PROP

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	98
CONST.	2018	STP-14(63)	80N

MATCH LINE STA. 35+00.00 SEE SHEET NO. 80M



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-15	3.50	4
OUT-16	1.90	4
OUT-17	2.60	3
OUT-18	1.30	1

LEGEND	WETLAND IMPACTS (WTL-15)
	AREA OF PERMANENT IMPACT = 1.698 AC.
	VOLUME OF PERMANENT IMPACT = 2740 C.Y.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN, ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

6/5/2018 4:47:00 AM
G:\Jobs\SH14\Const_PIN-100341-02\080N.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	9B
CONST.	2018	STP-14(63)	80P

MATCH LINE STA. 461+00.00 SEE SHEET NO. 80M

MATCH LINE STA. 474+00.00 SEE SHEET NO. 80R

DONNELL RD. (ASP.)

PRES. R.O.W.

PROP. R.O.W.

S 7° 17' 35" W

N 41° 24' 55" E

24'+/- EXIST. S.R. 14 (ASP.)

STA. 462+00.00 M.L.C.L.=
STA. 40+00.00 DONNELL ROAD LT.
N 389831.9493
E 839422.7750

465

470

LAWN

POND

CULTIVATED

PASTURE

GRASS

CONC

BLOCK WALL

RIP RAP

PERM. WETLAND IMPACT

1-S-BL DOLLAR GENERAL STORE

CONC S/W

CURTAIN DRAIN

12"PVC PIPE

INV-310.04

18"RCP

INV-309.20

INV-309.67

INV-306.29

EXISTING PIPE TO BE REMOVED

EXISTING PIPE TO REMAIN

INV-309.36

INV-309.99

INV-311.49

INV-311.14

INV-310.74

12"CMP

SCARIFY, ADD TOPSOIL & SEED

CONST. ESMT.

PERM. DRAIN. ESMT.

TEMP. CONST. ESMT.

WOOVEN WIRE

TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"**

OUT - 19

OUT - 20

OUT - 20A

OUT - 20B

OUT - 20C

WETLAND AREAS WITHIN THE PROPOSED FILL/CUT AREAS SHOULD BE UNDERCUT APPROXIMATELY 3' TO REMOVE THE SOFT SATURATED MATERIAL AS DIRECTED BY THE ENGINEER AND PLACE BACK 3' OF GRADED SOLID ROCK WRAPPED WITH TYPE IV GEOTEXTILE FABRIC. SEE CROSS SECTIONS AND GEOTECH REPORT FOR MORE INFORMATION.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-19	3.20	1
OUT-20	6.3 (4.4 UNDISTURBED)	1
OUT-20A	1.10	1
OUT-20B	0.50	1
OUT-20C	4.4 (4.4 UNDISTURBED)	1

LEGEND	WETLAND IMPACTS (WTL-7)
	STA. 457+85 TO 462+15 RT. AREA OF PERMANENT IMPACT = 0.146 AC. VOLUME OF PERMANENT IMPACT = 236 C.Y. STA. 460+45 TO 463+50 LT. AREA OF PERMANENT IMPACT = 1.176 AC. VOLUME OF PERMANENT IMPACT = 1898 C.Y. STA. 465+10 TO 466+95 LT. AREA OF PERMANENT IMPACT = 0.176 AC. VOLUME OF PERMANENT IMPACT = 284 C.Y.
	TOTAL AREA OF PERMANENT IMPACT = 1.498 AC. TOTAL VOLUME OF PERMANENT IMPACT = 2418 C.Y.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STAGE I

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

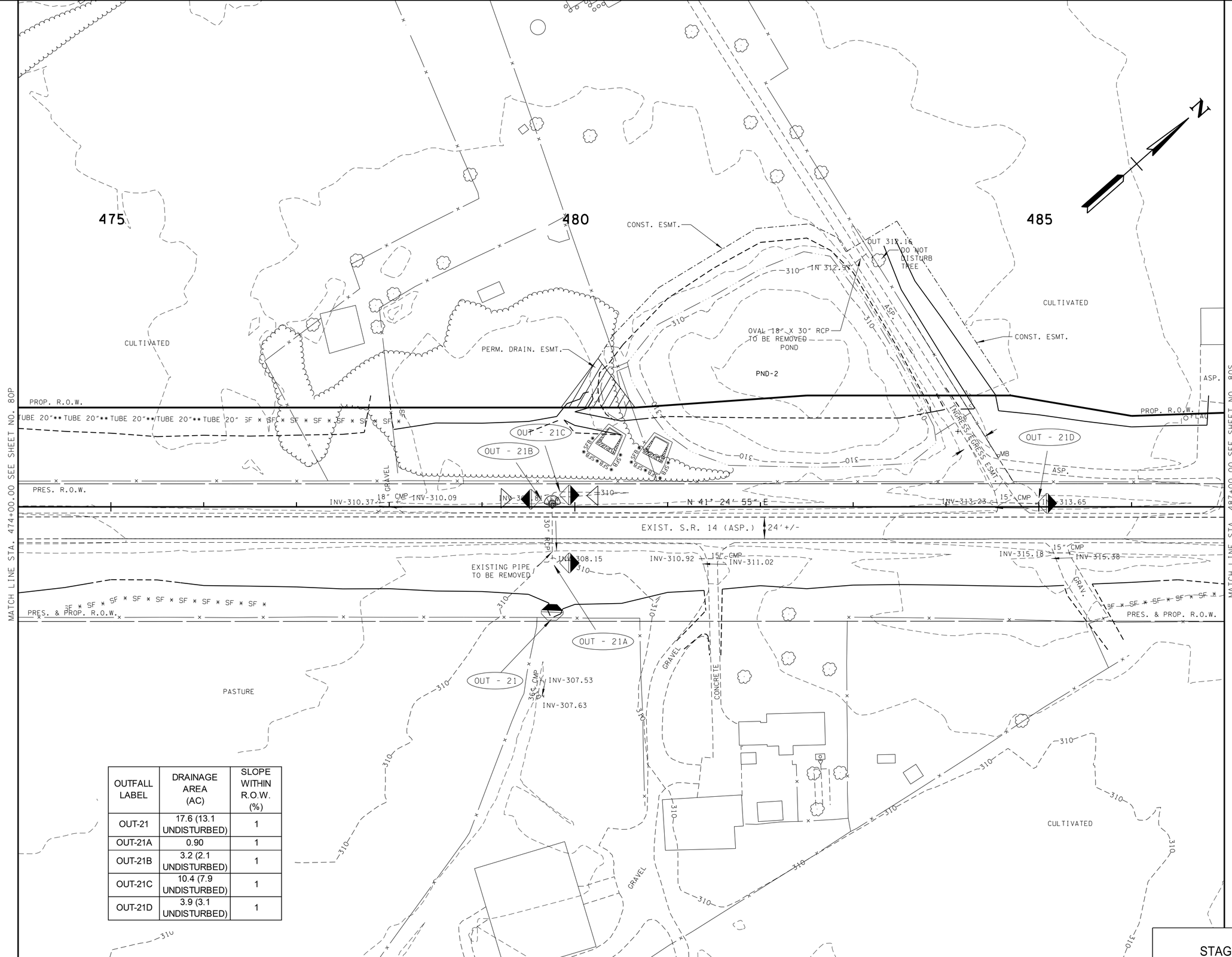
SCALE: 1"=50'

6/5/2018 4:47:02 AM
G:\Jobs\SH14\Const_PIN-100341-02\080P.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	99
CONST.	2018	STP-14(63)	80R

REV. 2-10-09: UPDATED PROP. R.O.W. AT STA. 487+90 LT.

REV. 8-20-09: REMOVED FLD. ENT. STA. 486+50 LT. ADDED BUS. ENT. STA. 486+98 LT. MODIFIED CONST. ESMT. FOR POND LT. STA. 482+00 AND ADDED CONST. ESMT. AND PROP. DITCH ALONG PVT. DR. LT. STA. 484+30.



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-21	17.6 (13.1 UNDISTURBED)	1
OUT-21A	0.90	1
OUT-21B	3.2 (2.1 UNDISTURBED)	1
OUT-21C	10.4 (7.9 UNDISTURBED)	1
OUT-21D	3.9 (3.1 UNDISTURBED)	1

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

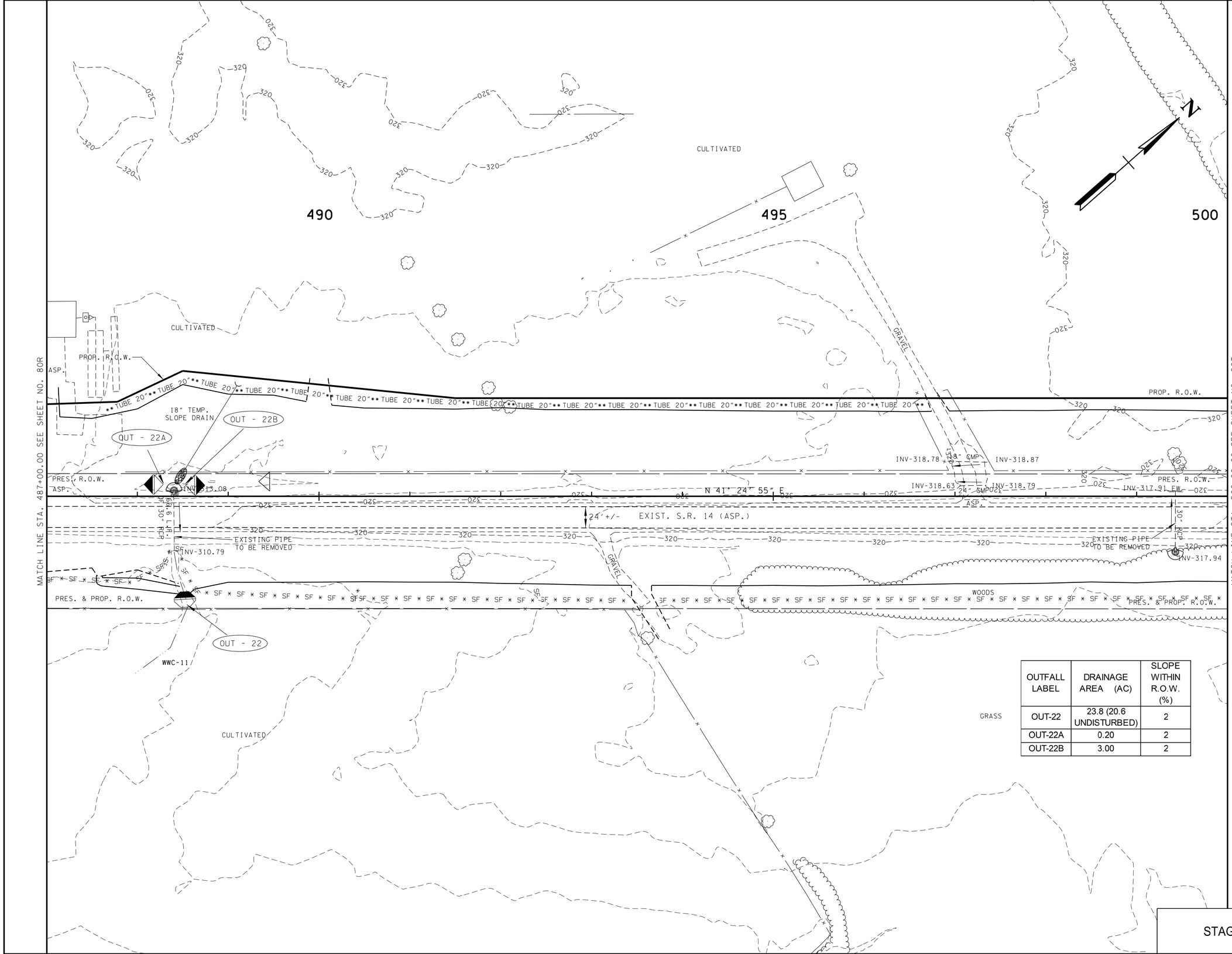
STAGE I

6/5/2018 4:47:06 AM
G:\Jobs\SH14\Const_PIN-100341-02\080R.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	99
CONST.	2018	STP-14(63)	80S

REV. 2-10-09: UPDATED PROP. R.O.W. AT STA. 487+90 LT.

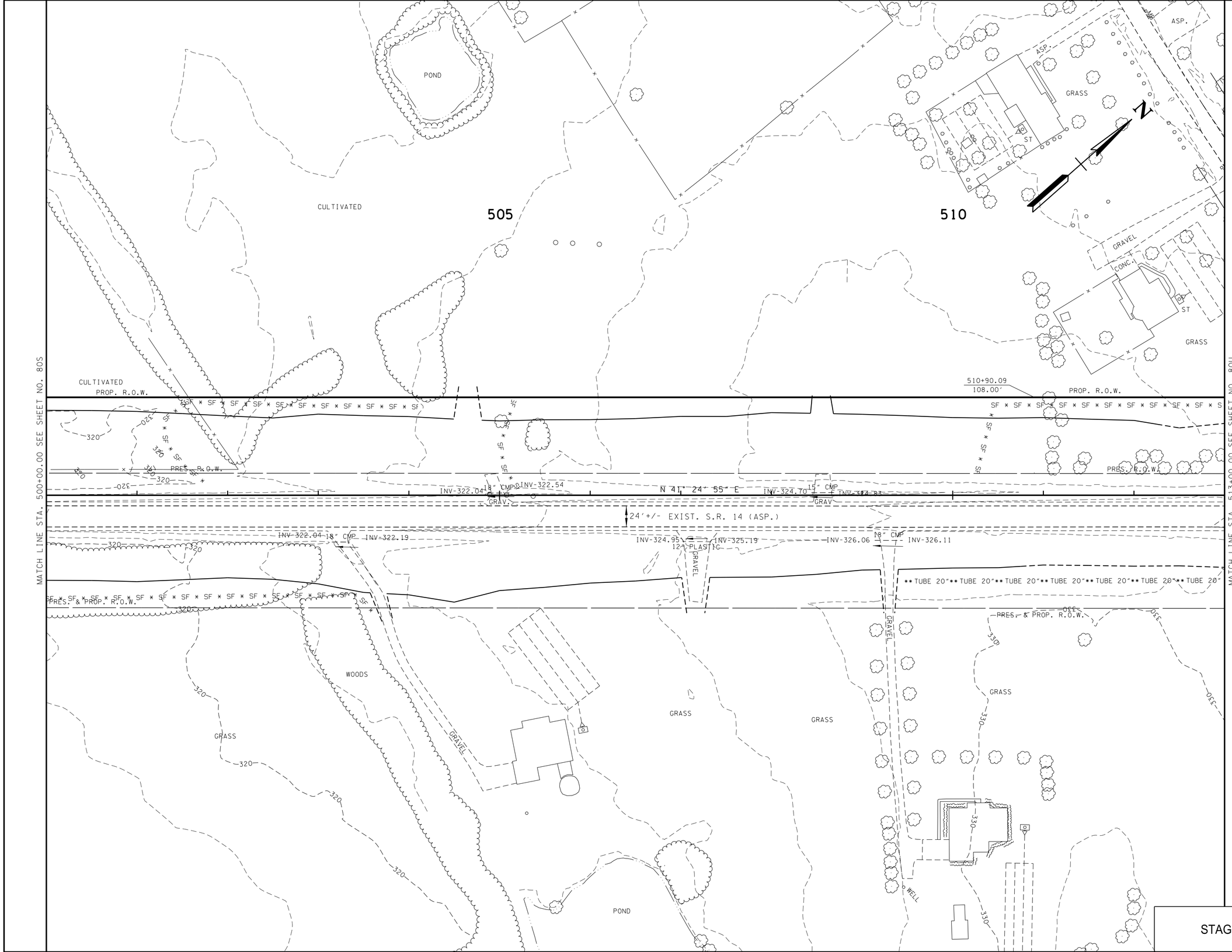
REV. 8-20-09: REMOVED FLD. ENT. STA. 486+50 LT. ADDED BUS. ENT. STA. 486+98 LT. MODIFIED CONST. ESMT. FOR POND LT. STA. 482+00 AND ADDED CONST. ESMT. AND PROP. DITCH ALONG PVT. DR. LT. STA. 484+30.


490
495
500
N
CULTIVATED
GRAVEL
PROP. R.O.W.
ASP.
TUBE 20"** TUBE 20"** TUBE 20"**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	100
CONST.	2018	STP-14(63)	80T

REV. 10-02-08: REMOVED SIDE RD. AT STA. 514+60 RT. AND ADDED TURNAROUND.

REV. 8-20-09: ADDED FLD. ENT. STA. 507+16.50 RT. MODIFIED PVT. DR. STA. 63+13 LT. OF ROSEMARK RD. RT. TO MATCH EXISTING DRIVEWAY.



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

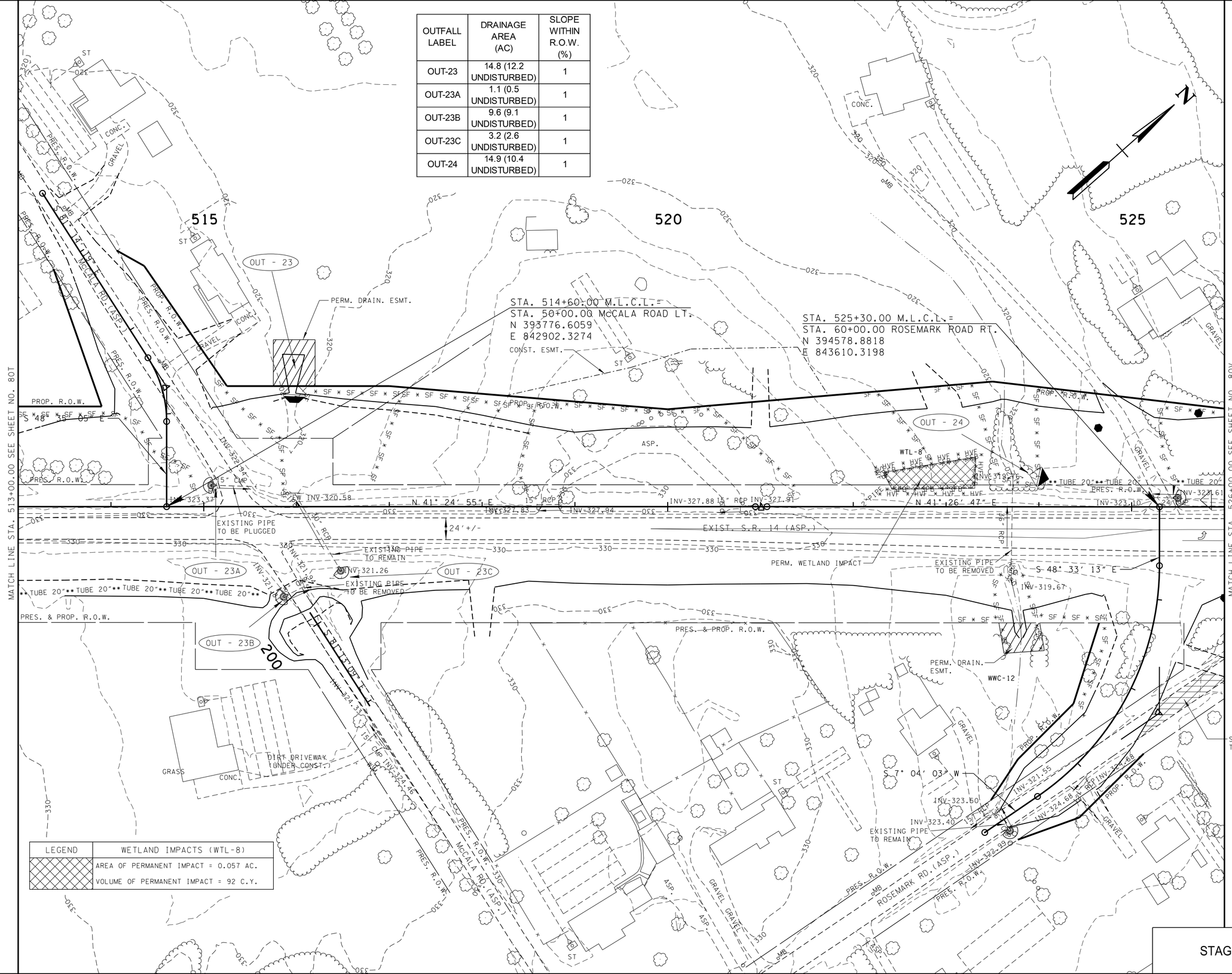
6/5/2018 4:47:09 AM
G:\Jobs\SH14\Const_PIN-100341-02\080T.sht

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-23	14.8 (12.2 UNDISTURBED)	1
OUT-23A	1.1 (0.5 UNDISTURBED)	1
OUT-23B	9.6 (9.1 UNDISTURBED)	1
OUT-23C	3.2 (2.6 UNDISTURBED)	1
OUT-24	14.9 (10.4 UNDISTURBED)	1

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	100
CONST.	2018	STP-14(63)	80U

REV. 10-02-08: REMOVED SIDE RD. AT STA. 514+60 RT. AND ADDED TURNAROUND.

REV. 8-20-09: ADDED FLD. ENT. STA. 507+16.50 RT. MODIFIED PVT. DR. STA. 63+13 LT. OF ROSEMARK RD. RT. TO MATCH EXISTING DRIVEWAY.



LEGEND	WETLAND IMPACTS (WTL-8)
	AREA OF PERMANENT IMPACT = 0.057 AC.
	VOLUME OF PERMANENT IMPACT = 92 C.Y.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

6/5/2018 4:47:12 AM
G:\Jobs\SH14\Const_PIN-100341-02\080U.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	101
CONST.	2018	STP-14(63)	80V

REV. 6-03-08: ADDED PRIVATE DRIVEWAY AT STA. 76+31 LT. TO TR. 73 OFF KERRVILLE-ROSEMARK RD. LT.

MATCH LINE STA. 526+00.00 SEE SHEET NO. 80U

MATCH LINE STA. 539+00.00 SEE SHEET NO. 80W

OUT - 25

PERM. DRAIN. ESMT.

ROSEMARK RD. (ASP.)

PRES. R.O.W.

PROP. R.O.W.

530

535

64+60.00
23.50'

S 6° 58' 14" W

67+25.00
44.42'

55+00.00
55.00'

EXISTING PIPE TO BE PLUGGED
66+50.00
60.00'

67+17.03
66.26'

67+50.00
65.00'

533+00.00
115.00'

534+18.20
109.09'

535+00.00
105.00'

S 48° 33' 13" E

N 41° 26' 47" E

529+24.80
111.26'

527+78.51
108.89'

529+85.00
112.24'

OUT - 24A

SCARIFY, ADD TOPSOIL & SEED

526+90.71
107.47'

OUT - 24B

OUT - 24C

INV-327.33

INV-327.94

INV-327.20

INV-326.84

INV-327.80

INV-327.48

INV-324.99

INV-325.60

12" RCP

18" CMP

15" CMP

24" RCP

** TUBE 20"

EXISTING PIPE TO BE PLUGGED

EXIST. S.R. 14 (ASP.)

24'+/-

INV-329.92

INV-330.31

INV-331.21

INV-331.42

INV-332.78

INV-333.17

STA. 532+25.00 M.L.C.L.
STA. 70+00.00
ROSEMARK ROAD LT
N 395099.8367
E 844070.3535

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-24A	0.50	1
OUT-24B	3.8 (1.1 UNDISTURBED)	1
OUT-24C	10.3 (9.3 UNDISTURBED)	1
OUT-25	1.70	2

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STAGE I

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

6/5/2018 4:47:15 AM
G:\Jobs\SH14\Const_PIN-100341-02\080V.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	101
CONST.	2018	STP-14(63)	80W

REV. 6-03-08: ADDED PRIVATE DRIVEWAY AT STA. 76+31 LT. TO TR. 73 OFF KERRVILLE-ROSEMARK RD. LT.

MATCH LINE STA. 539+00.00 SEE SHEET NO. 80V

MATCH LINE STA. 552+00.00 SEE SHEET NO. 80X

KERRVILLE-ROSEMARK RD.(ASP.)

PLEASE DO NOT DISTURB THE TWO TREES IN THE FRONT YARD

540 545 550

S 81° 17' 04" E

S 48° 33' 13" E

S 81° 32' 34" E

S 48° 33' 13" E

N 41° 26' 47" E

STA. 548+00.00 M.L.C.L.=
STA. 90+00.00
KERRVILLE-ROSEMARK ROAD RT.
N 396280.4179
E 845112.8759

STA. 543+85.00 M.L.C.L.=
STA. 80+00.00
KERRVILLE-ROSEMARK ROAD LT.
N 395969.3442
E 844838.1795

PROP. R.O.W.
PRES. R.O.W.
PRES. & PROP. R.O.W.
EXIST. S.R. 14 (ASP.)
KERRVILLE-ROSEMARK RD. (ASP.)
CULTIVATED
GRASS
WOODS
POND
ASP.
CONC.
GRV.
GRAVEL
EDGE

WTL-9
PERM. WETLAND IMPACT

EXISTING PIPE TO BE REMOVED
EXISTING BOX TO BE REMOVED

INV-331.89
INV-331.11
INV-330.36
INV-329.87
INV-329.72
INV-333.72
INV-333.44
INV-330.26
INV-330.07
INV-329.82
INV-329.36
INV-329.62
INV-321.66
INV-321.62

OUT - 26
OUT - 36
OUT - 37

LEGEND	WETLAND IMPACTS (WTL-9)
	AREA OF PERMANENT IMPACT = 0.044 AC.
	VOLUME OF PERMANENT IMPACT = 71 C.Y.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-26	4.70	1
OUT-36	0.10	2
OUT-37	0.10	2

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

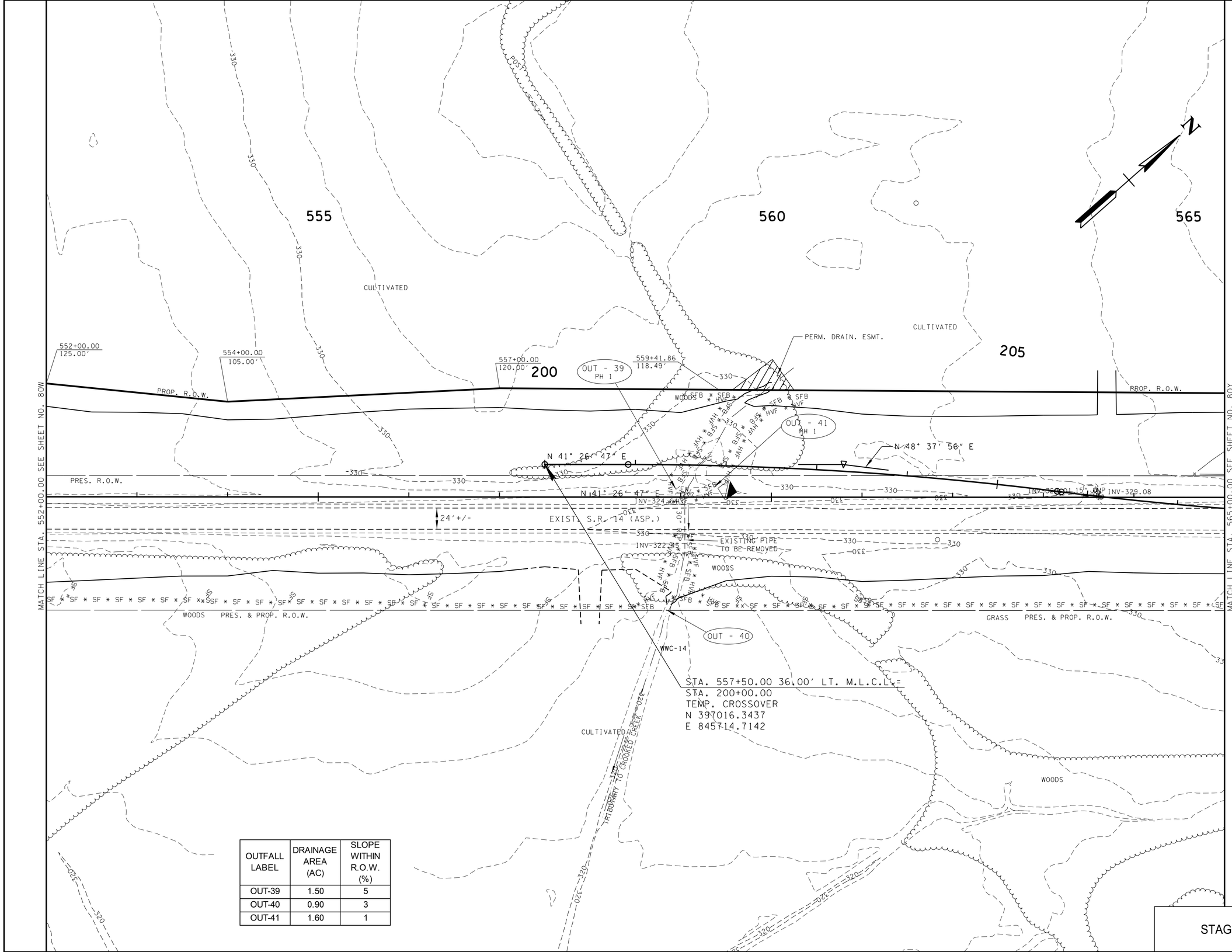
SCALE: 1"=50'

STAGE I

6/5/2018 4:47:17 AM
G:\Jobs\SH14\Const_PIN-100341-02\080W.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	102
CONST.	2018	STP-14(63)	80X

REV. 7-07-08: PLACED FIELD ENTRANCE AT STA. 563+70 TO TR. 82 OFF OF S.R. 14 (LEFT).



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-39	1.50	5
OUT-40	0.90	3
OUT-41	1.60	1

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN, ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

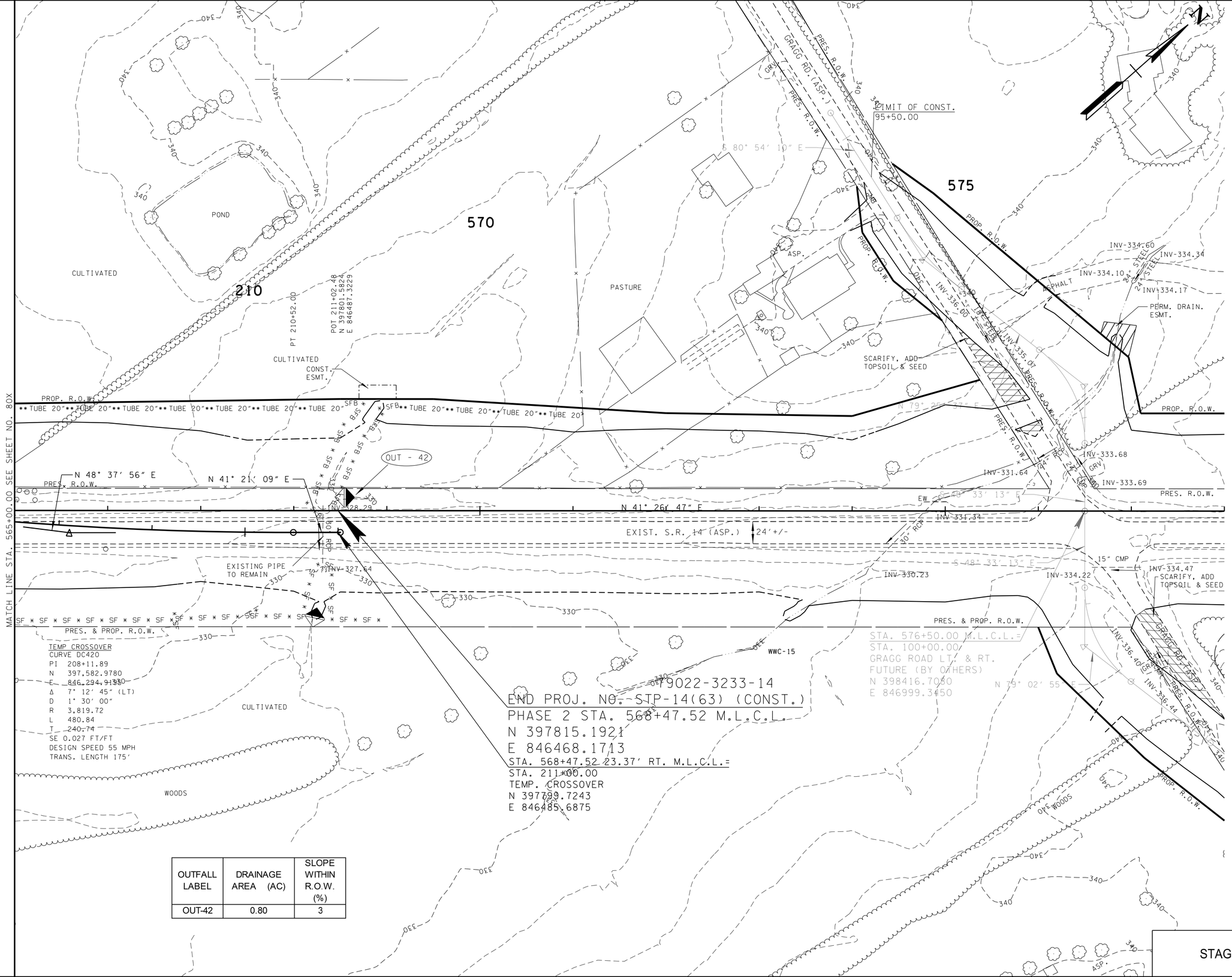
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

6/5/2018 4:47:19 AM
G:\Jobs\SH14\Const_PIN-100341-02\080X.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	102
CONST.	2018	STP-14(63)	80Y



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-42	0.80	3

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE I

6/5/2018 4:47:21 AM
G:\Jobs\SH14\Const_PIN-100341-02\080Y.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	92A
CONST.	2018	STP-14(63)	81

PHASE 2A: DIVERT EXISTING STREAM FLOW INTO EXISTING EAST BARREL UTILIZING IN-STREAM DIVERSION. BUILD PROPOSED WEST BARREL

PHASE 2B: BUILD RELOCATED STR-2 IN THE DRY TIEING INTO PROPOSED WEST BARREL. FINISH RELOCATED STR-2 TIEING INTO EXISTING STREAM ALLOWING FLOW TO GO THROUGH WEST BARREL.

PHASE 2C CONSTRUCT PROPOSED EAST BARREL. USE SANDBAGS AND PUMP TO SEDIMENT FILTER BAG. FINISH LOW FLOW CHANNEL.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-2 AND THAT STR-2 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-1 & WTL-2 AND THAT WTL-1 & WTL-2 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

79022-3233-14
BEGIN PROJ. NO. STP-14(63) (CONST.)
PHASE 2 STA. 900+00.00 =
19.97' LT. STA. 300+00.00 M.L.C.L.
N 377672.2452
E 828720.1410

79022-3233-14
BEGIN PROJ. NO. STP-14(63) (CONST.)
PHASE 2 STA. 800+00.00 =
19.76' RT. STA. 300+00.00 M.L.C.L.
N 377645.8955
E 828749.8760

300 900 800 305 905 805

POND

PHASE 2A
PHASE 2C
PHASE 2B
2 @ 8'X8' RCBC EXT.

INV-280.73
2.5'X2.5' DBX
TOP-287.24
INV-282.91
EXIST. S.R. 14 (ASP.)
24'+/-
N 41° 32' 45" E
4" PLASTIC
INV-286.11
4"SLOTTED DRAIN
INV-285.27
2.5'X2.5' DBX
TOP-288.24
INV-284.99
N 38° 42' 30" E
EXISTING C.B. TO BE REMOVED
TO BE PLUGGED
18" RCP
INV-276.06
INV-276.48
CONC. DITCH
INLET OF 18" CMP NOT FOUND.
PIPE PERPENDICULAR TO CENTER
INV-276.34
MATCH LINE STA. 305+00.00 SEE SHEET NO. 81A
2'X4' DBX
TOP-285.38 EW
INV-280.59
2'X4' DBX
TOP-285.73
INV-281.43
INV-280.00
WTL-1
WTL-2
STR-2
BEGIN PROPOSED CHANNEL
SR 14 STA. 302+00
90.7' RT. = STR-1
STA. 10+00.00
PROPOSED STREAM (STR-1) RELOCATION. SEE MITIGTION PLANS NS-1 THRU NS-5.
OUT - 1
PH. 1 & 2
BEGIN STR-1 IMPACT
SR 14 STA. 303+13.03
111.9' RT = STR-1
STA. 11+16.03
WWC-1
TRIBUTARY TO BIG CREEK
S.R. 385 (PAUL BARRETT PARKWAY)(ASP.)

LEGEND	WETLAND IMPACTS (WTL-1)
	AREA OF PERMANENT IMPACT = 0.090 AC.
	VOLUME OF PERMANENT IMPACT = 145 C.Y.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-1	1.40	1

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

INTERMEDIATE

STAGE II

6/5/2018 4:47:23 AM
G:\Jobs\SH14\Const_PIN-100341-02\081.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	92A
CONST.	2018	STP-14(63)	81A

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

DIMENSIONS AND QUANTITY FOR TEMP. SED. TRAP					
LOCATION	L (FT)	W (FT)	D1 (FT)	D2 (FT)	VOL. (CY)
314+85 LT	38	19	4	1.52	152

NOTE:
NORTHBOUND PROPOSED BRIDGE TO BE CONSTRUCTED IN TRAFFIC CONTROL PHASE II.

310 79022-2290-14
BEGIN PROJ. NO. STP-14(43) (R.O.W.)
STA. 305+71.30
N 378089.8364
E 829110.2314

315

W.B.C.L. STA. 909+98.91
M.L.C.L. STA. 310+00 - 24' LT.
N 378437.9217
E 829361.3839

HAUL RD. STA. 5+00.00
M.L.C.L. STA. 314+00.00 - 0.90' LT.
N 378735.5914
E 829629.5814

E.B.C.L. STA. 810+01.08
M.L.C.L. STA. 310+00 - 24' RT.
N 378407.9047
E 829398.8403

810

MATCH LINE STA. 305+00.00 SEE SHEET NO. 81

MATCH LINE STA. 318+00.00 SEE SHEET NO. 81B

POND

TRIBUTARY TO BIG CREEK

STR-1

STR-2

STR-3

PROPOSED RELOCATED STR-2 (8' CHANNEL WIDTH)

PERM. DRAIN. ESMT.

PROPOSED STREAM (STR-1) RELOCATION. SEE MITIGTION PLANS NS-1 THRU NS-5.

PRES. & PROP. R.O.W.

MAINTAIN A MINIMUM 30' NATURAL VEGETATION BUFFER ON EACH SIDE OF CREEK THROUGH PROJECT.

PROP. C.A. FENCE

PROP. GATE

WTL-2

WTL-3

OUT - 43 PH 2 & 3

OUT - 44 PH 2 & 3

TUBE 20"

N 51° 08' 38" W

N 40° 21' 20" E

N 38° 42' 30" E

S 40° 51' 24" W

N 41° 30' 53" E

24'+/-

EXIST. S.R. 14 (ASP.)

EXIST. GUARDRAIL TO BE REMOVED

RICKS RD. (ASP.)

WWC-2

2 @ 150.6' - 8' X 8' RCBC

PHASE 2A

8' X8' RCBC EXT.

PHASE 2C

PHASE 2B
END STR-1 IMPACT
SR 14 STA. 305+14.81
116.4' RT. = STR-1
STA. 13+25.64

PHASE 2A: DIVERT EXISTING STREAM FLOW INTO EXISTING EAST BARREL UTILIZING IN-STREAM DIVERSION. BUILD PROPOSED WEST BARREL

PHASE 2B: BUILD RELOCATED STR-2 IN THE DRY TIEING INTO PROPOSED WEST BARREL. FINISH RELOCATED STR-2 TIEING INTO EXISTING STREAM ALLOWING FLOW TO GO THROUGH WEST BARREL.

PHASE 2C CONSTRUCT PROPOSED EAST BARREL. USE SANDBAGS AND PUMP TO SEDIMENT FILTER BAG. FINISH LOW FLOW CHANNEL.

EARTH BERM

WETLAND

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-2 & STR-3 AND THAT STR-2 & STR-3 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS. THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-2 & WTL-3 AND THAT WTL-2 & WTL-3 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS. HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-43	2.30	4
OUT-44	8.4 (INCLUDES SUBS)	3

LEGEND	WETLAND IMPACTS (WTL-2)
	AREA OF PERMANENT IMPACT = 1.010 AC.
	VOLUME OF PERMANENT IMPACT = 1630 C.Y.
LEGEND	WETLAND IMPACTS (WTL-3)
	AREA OF PERMANENT IMPACT = 1.272 AC.
	VOLUME OF PERMANENT IMPACT = 2052 C.Y.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

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

STAGE II

6/5/2018 4:47:26 AM
G:\Jobs\SH14\Const_PIN-100341-02\081A.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	93A
CONST.	2018	STP-14(63)	81B

REV. 7-07-08: ADDED FIELD ENTRANCE AT STA. 16+00 TO TR. 5 OFF RICKS ROAD (LEFT).

LEGEND	WETLAND IMPACTS (WTL-4)
	STA. 325+70 TO 326+70 RT.(WAA-1) AREA OF PERMANENT IMPACT = 0.036 AC. VOLUME OF PERMANENT IMPACT = 58 C.Y. STA. 327+10 TO 328+25 RT.(WAA-1) AREA OF PERMANENT IMPACT = 0.031 AC. VOLUME OF PERMANENT IMPACT = 50 C.Y. STA. 333+40 TO 338+15 RT.(WAA-2) AREA OF PERMANENT IMPACT = 0.170 AC. VOLUME OF PERMANENT IMPACT = 274 C.Y. STA. 333+40 TO 355+65 RT.(WAA-2) AREA OF PERMANENT IMPACT = 0.068 AC. VOLUME OF PERMANENT IMPACT = 110 C.Y. STA. 338+55 TO 352+00 RT.(WAA-2) AREA OF PERMANENT IMPACT = 1.183 AC. VOLUME OF PERMANENT IMPACT = 1909 C.Y.
	TOTAL AREA OF PERMANENT IMPACT = 1.488 AC. TOTAL VOLUME OF PERMANENT IMPACT = 2401 C.Y.

320 325 330

MATCH LINE STA. 318+00.00 SEE SHEET NO. 81A

MATCH LINE STA. 331+00.00 SEE SHEET NO. 81C

STA. 323+00.00 M.L.C.L.=
STA. 10+00.00 RICKS ROAD RT.
N 379416.9649
E 830217.4528

HAUL RD. STA. 10+00.00 =
M.L.C.L. STA. 319+40.00 - 11.69' RT.
N 379139.6553
E 829987.5920

STA. 327+50.00 M.L.C.L.=
STA. 20+00.00 RICKS ROAD LT.
N 379753.9184
E 830515.7184

OUT - 45 PH 2 & 3

OUT - 44C

OUT - 44A

OUT - 44B

OUT - 44D

OUT - 4B

OUT - 4

RICKS RD. (ASP.)

EXIST. S.R. 14 (ASP.)

PROP. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

S 8° 00' 09" W

S 48° 29' 07" E

S 40° 51' 24" W

N 48° 29' 07" W

N 41° 30' 53" E

S 8° 48' 35" W

S 39° 16' 26" W

30" RCP

18" RCP

24" CMP

18" TEMP. SLOPE DRAIN

TUBE 20"

INV-279.61

INV-277.46

INV-277.86

INV-277.30

EXISTING PIPE TO BE PLUGGED

88' OF 24"CMP EXISTING PIPE TO BE REMOVED

NEW 24" CMP

EXISTING GUARDRAIL TO BE REMOVED

EXISTING GUARDRAIL TO REMAIN

STR-3

GAB. BASKET

SCARIFY, ADD TOPSOIL & SEED

EXIST. BRIDGE-1 SPAN WITH CONCRETE ABUTMENTS AND CONCRETE DECK (31.6' WIDE) BRIDGE ID # 790A1940001

TRIBUTARY TO BIG CREEK

WTL-4, WAA-1

WWC-3

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-4 & WTL-5 AND THAT WTL-4 & WTL-5 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-3 AND THAT STR-3 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-4	12.6 (8.8 UNDISTURBED)	2
OUT-4B	11.2 (8.6 UNDISTURBED)	12
OUT-44A	0.80	4
OUT-44B	0.40	3
OUT-44C	3.50	4
OUT-44D	0.80	4
OUT-45	0.10	2

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN, ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE II

6/5/2018 4:47:30 AM
G:\Jobs\SH14\Const_PIN-100341-02\081B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	93A
CONST.	2018	STP-14(63)	81C

REV. 7-07-08: ADDED FIELD ENTRANCE AT STA. 16+00 TO TR. 5 OFF RICKS ROAD (LEFT).

LEGEND	WETLAND IMPACTS (WTL-5)
	AREA OF PERMANENT IMPACT = 1.239 AC.
	VOLUME OF PERMANENT IMPACT = 1999 C.Y.

N

335

340

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-4 & WTL-5 AND THAT WTL-4 & WTL-5 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

PROP. R.O.W.

TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" **

PRES. R.O.W.

MATCH LINE STA. 331+00.00 SEE SHEET NO. 81B

MATCH LINE STA. 344+00.00 SEE SHEET NO. 81D

280

FIELD ENT. W/NO DEFINED EDGES

N 41° 30' 53" E

EXIST. S.R. 14 (ASP.) 24'+/-

WWC-3

SF * SF * SF * SF * SF * SF * SF * SF * SFB * SFB * SFB

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	94A
CONST.	2018	STP-14(63)	81D

345

350

355

N

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-4 & WTL-5 AND THAT WTL-4 & WTL-5 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

WETLAND AREA EXTENDS BEYOND PROJECT R.O.W.

WETLAND

PROP. R.O.W.

WTL-5

PRES. R.O.W.

18" RCP

OUT - 28B

N 41° 30' 53" E

OUT - 28A

EXIST. S.R. 14 (ASP.)

24'+/-

EARTH BERM

WTL-4, WAA-2

PRES. & PROP. R.O.W.

GRAVEL DRIVE

POND

MATCH LINE STA. 344+00.00 SEE SHEET NO. 81C

MATCH LINE STA. 357+00.00 SEE SHEET NO. 81E

LEGEND	WETLAND IMPACTS (WTL-4)
	STA. 325+70 TO 326+70 RT.(WAA-1) AREA OF PERMANENT IMPACT = 0.036 AC. VOLUME OF PERMANENT IMPACT = 58 C.Y. STA. 327+10 TO 328+25 RT.(WAA-1) AREA OF PERMANENT IMPACT = 0.031 AC. VOLUME OF PERMANENT IMPACT = 50 C.Y. STA. 333+40 TO 338+15 RT.(WAA-2) AREA OF PERMANENT IMPACT = 0.170 AC. VOLUME OF PERMANENT IMPACT = 274 C.Y. STA. 333+40 TO 355+65 RT.(WAA-2) AREA OF PERMANENT IMPACT = 0.068 AC. VOLUME OF PERMANENT IMPACT = 110 C.Y. STA. 338+55 TO 352+00 RT.(WAA-2) AREA OF PERMANENT IMPACT = 1.183 AC. VOLUME OF PERMANENT IMPACT = 1909 C.Y.
	TOTAL AREA OF PERMANENT IMPACT = 1.488 AC. TOTAL VOLUME OF PERMANENT IMPACT = 2401 C.Y.

LEGEND	WETLAND IMPACTS (WTL-5)
	AREA OF PERMANENT IMPACT = 1.239 AC. VOLUME OF PERMANENT IMPACT = 1999 C.Y.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-28A	1.20	4
OUT-28B	0.60	4

SEALED BY

UNOFFICIAL SET

NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE II

6/5/2018 4:47:33 AM
G:\Jobs\SH14\Const_PIN-100341-02\081D.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	94A
CONST.	2018	STP-14(63)	81E

360

365

370

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-6 AND THAT WTL-6 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

WETLAND AREA EXTENDS BEYOND PROJECT R.O.W.

MATCH LINE STA. 357+00.00 SEE SHEET NO. 81D

MATCH LINE STA. 381+00.00 SEE SHEET NO. 81F

PROP. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

STA. 363+65.00 - 11.39' RT. M.L.C.L.=
STA. 15+00.00 HAUL RD.
N 382453.2294
E 832920.3129

STA. 369+30.00 - 11.97' RT. M.L.C.L.=
STA. 20+00.00 HAUL RD.
N 382875.9063
E 833295.2389

N 41° 30' 53" E

EXIST. S.R. 14 (ASP.) 24'+/-

EXISTING GUARDRAIL TO BE REMOVED

EXIST. BRIDGE @ LM 31.00 7 SPAN BRIDGE ON CONCRETE BENTS WITH CONCRETE DECK #79SR0140043

PROPOSED DUAL 42' X 255'-2"+ 5 SPAN, 55° SKEW CONCRETE GIRDER BRIDGE

EXIST. BRIDGE TO BE REMOVED 30' X 214'

EXISTING GUARDRAIL TO BE REMOVED

OUT - 28 PH 2 & 3

OUT - 46 PH 2 & 3

OUT - 48 PH 2 & 3

STR-4

PND-1
POND

NOTE:
NORTHBOUND PROPOSED BRIDGE TO BE CONSTRUCTED IN TRAFFIC CONTROL PHASE II.

T.V.A. ESMT.

100'

PROOKED CREEK

LEGEND	WETLAND IMPACTS (WTL-6)
	AREA OF PERMANENT IMPACT = 0.159 AC.
	VOLUME OF PERMANENT IMPACT = 257 C.Y.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-28	3.30	4
OUT-46	8.6 (INCLUDES SUB-OUTFALLS)	5
OUT-48	4.50	2

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN, ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

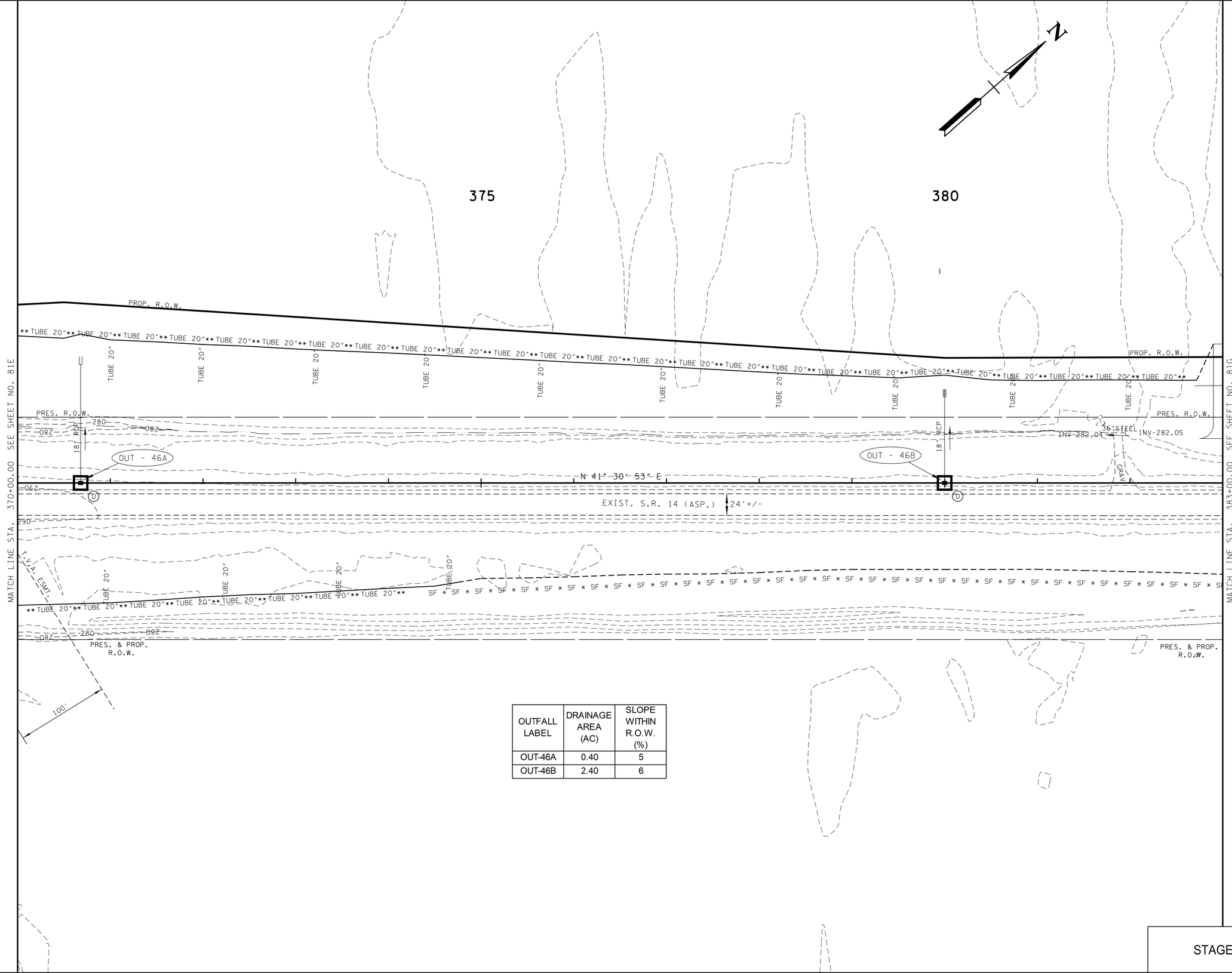
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE II

6/5/2018 4:47:36 AM
G:\Jobs\SH14\Const_PIN-100341-02\081E.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	95A
CONST.	2018	STP-14(63)	81F


375
380
N
PROP. R.O.W.
PRES. R.O.W.
PRES. & PROP. R.O.W.
** TUBE 20" ** TUBE 20" ** TUBE 20"

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	95A
CONST.	2018	STP-14(63)	81G

385

390

395

N

MATCH LINE STA. 383+00.00 SEE SHEET NO. 81F

MATCH LINE STA. 396+00.00 SEE SHEET NO. 81H

PROP. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

TUBE 20" TUBE 20" TUBE 20"

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	96A
CONST.	2018	STP-14(63)	81H

400

405

N

OUT - 30
PH 2 & 3

OUT - 11

PERM. DRAIN. ESMT.

PROP. R.O.W.

PRES. R.O.W.

MATCH LINE STA. 396+00.00 SEE SHEET NO. 81G

MATCH LINE STA. 409+00.00 SEE SHEET NO. 81J

N 41° 30' 53" E

N 41° 24' 55" E

EXIST. S.R. 14 (ASP.) 24'+/-

BUILD 30" PIPE TO JUNCTION BOX. REMOVE EXIST. ENDWALL AND PIPE SO CAN TIE 18" TEMP. PIPE IN DURING THIS PHASE.

12 LF 18" TEMP PIPE

INV-292.82

INV-294.08

30" RCP

18" RCP

EXISTING PIPE TO BE REMOVED

GRATE END TUBE

TUBE 20"

PRES. & PROP. R.O.W.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-11	3.00	3
OUT-30	4.10	3

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

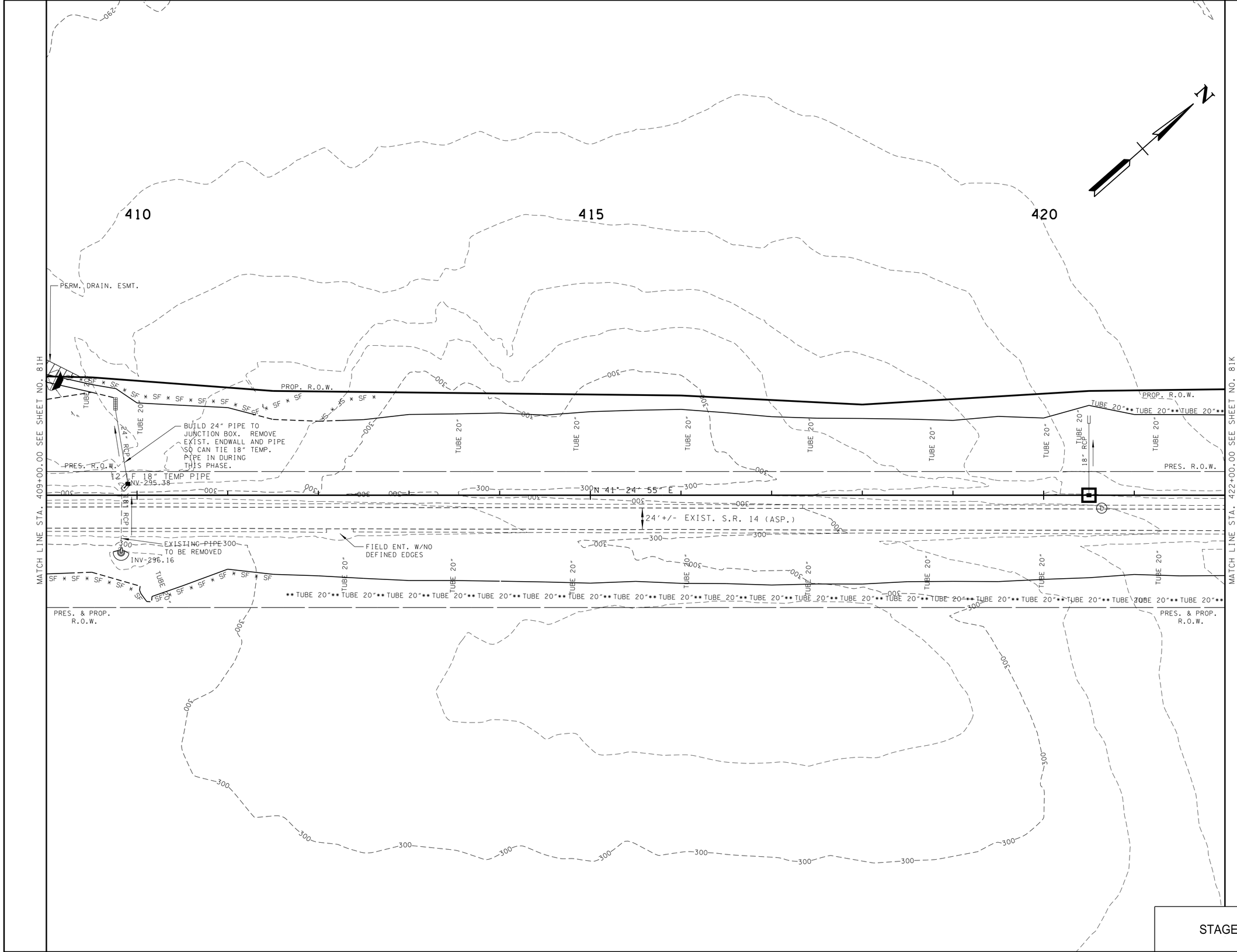
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE II

6/5/2018 4:47:41 AM
G:\Jobs\SH14\Const_PIN-100341-02\081H.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	96A
CONST.	2018	STP-14(63)	81J



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN, ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE II

6/5/2018 4:47:42 AM
G:\Jobs\SH14\Const_PIN-100341-02\081J.sht

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-12	19.3 (9.1 UNDISTURBED)	1
OUT-12A	1.70	5
OUT-12B	1.40	3
OUT-12C	3.80	1
OUT-12D	1.80	2
OUT-12E	0.20	1
OUT-12F	1.30	3
OUT-13	18.4 (14.3 UNDISTURBED)	1
OUT-13A	0.10	1
OUT-13B	1.50	1
OUT-13C	1.20	3
OUT-13D	1.30	1

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	97A
CONST.	2018	STP-14(63)	81K

425

430

435

OUT - 12

WWC-8 INV-290.27

48"CMP INV-289.97

OUT - 12A

OUT - 12E PH 2 & 3

OUT - 12F PH 2 & 3

PERM. DRAIN. ESMT.

PROP. R.O.W.

TUBE 20"** TUBE 20"** TUBE 20"**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	97A
CONST.	2018	STP-14(63)	81L

440

445

MATCH LINE STA. 435+00.00 SEE SHEET NO. 81K

MATCH LINE STA. 448+00.00 SEE SHEET NO. 81M

CONST. ESMT.

PROP. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

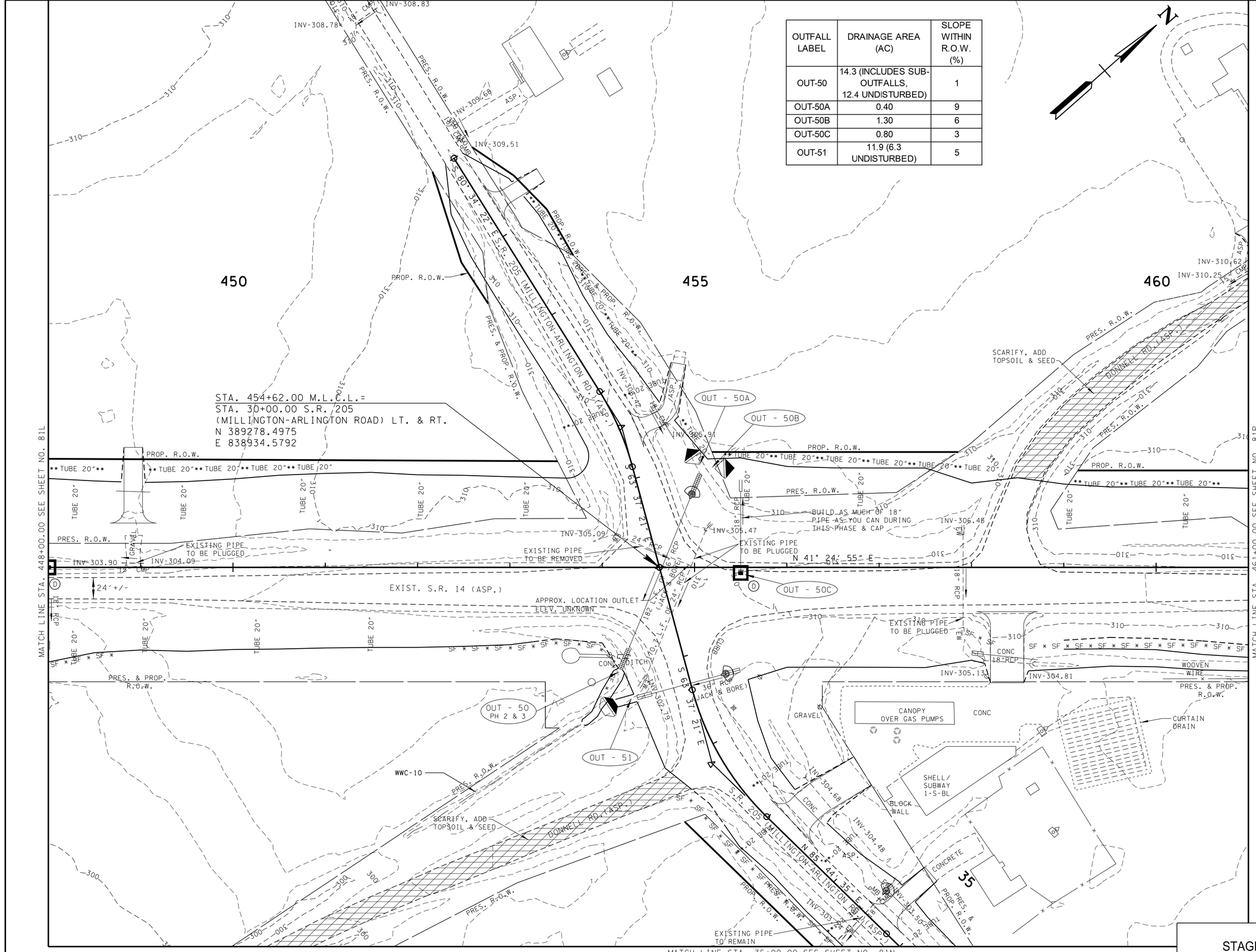
TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"

TUBE 20"

SF * SF * SF *

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	98A
CONST.	2018	STP-14(63)	81M

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-50	14.3 (INCLUDES SUB-OUTFALLS, 12.4 UNDISTURBED)	1
OUT-50A	0.40	9
OUT-50B	1.30	6
OUT-50C	0.80	3
OUT-51	11.9 (6.3 UNDISTURBED)	5



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

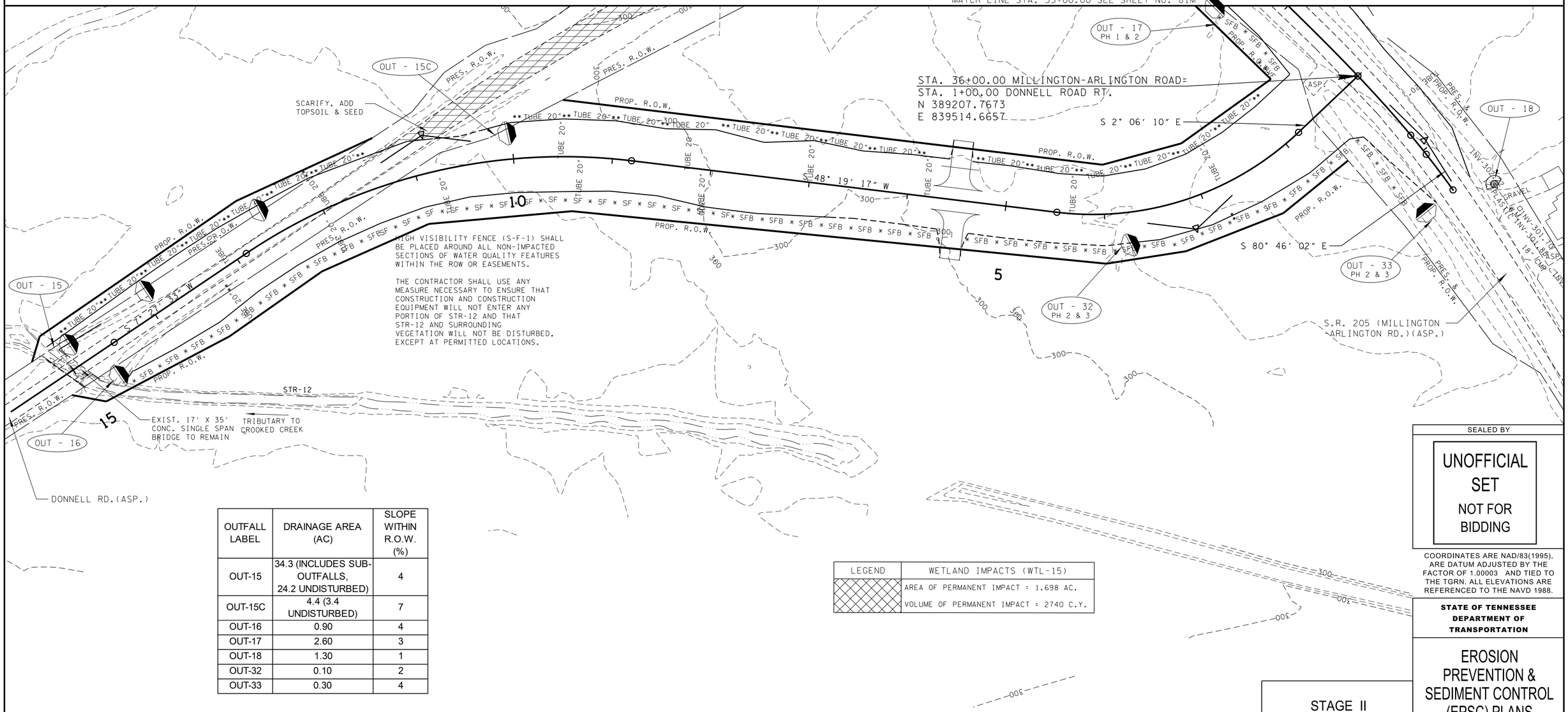
SCALE: 1"=50'

STAGE II

6/5/2018 4:47:52 AM
G:\Jobs\SH14\Const_PIN-100341-02\081M.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	98A
CONST.	2018	STP-14(63)	81N

MATCH LINE STA. 35+00.00 SEE SHEET NO. 81M


OUT - 15C
PRES. R.O.W.
SCARIFY, ADD TOPSOIL & SEED
PROP. R.O.W.
** TUBE 20" ** TUBE 20" ** TUBE 20" 300
** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20" ** TUBE 20"
STA. 36+00.00 MILLINGTON-ARLINGTON ROAD=
STA. 1+00.00 DONNELL ROAD RT.
N 389207.7673
E 839514.6657
S 2° 06' 10" E
OUT - 17 PH 1 & 2
SFB * SFB * SFB PROP. R.O.W.
ASP.
OUT - 18
PRES. & PROP. R.O.W.
INV-301.70
INV-301.82
18" CMP
GRAVEL
PLATFORM
CMP
INV-301.82
18" CMP
INV-301.70
S 48° 19' 17" W
10
SF * SF * SF *

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	98A
CONST.	2018	STP-14(63)	81P

MATCH LINE STA. 461+00.00 SEE SHEET NO. 81M

MATCH LINE STA. 474+00.00 SEE SHEET NO. 81R

DONNELL RD. (ASP.)

PRES. R.O.W.

PROP. R.O.W.

S 7° 17' 35" W

N 41° 24' 55" E

24'+/- EXIST. S.R. 14 (ASP.)

SCARIFY, ADD TOPSOIL & SEED

POND

465

470

BLOCK WALL

W.V.

RIP RAP

CONC

1-S-BL DOLLAR GENERAL STORE

CONC S/W

CURTAIN DRAIN

OUT - 51B

12"PVC PIPE

INV-310.04

STA. 462+00.00 M.L.C.L.=
STA. 40+00.00 DONNELL ROAD LT.
N 389831.9493
E 839422.7750

S 48° 05' 05" E

OUT - 51C

OUT - 51D

OUT - 51A

18"RCP

INV-306.29

EXISTING PIPE TO BE REMOVED

INV-309.20

INV-309.67

TUBE 20"

WOOVEN WIRE

CONST. ESMT.

PERM. DRAIN. ESMT.

PRES. & PROP. R.O.W.

OUT - 20D

OUT - 20E

OUT - 20F

OUT - 20

TEMP. CONST. ESMT.

BUILD AS MUCH OF 30" PIPE AS YOU CAN DURING THIS PHASE.

30" RCP

16 LF 30" TEMP PIPE

INV-309.99

EXISTING PIPE TO REMAIN

INV-309.36

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-20	12.6 (11.3 UNDISTURBED)	1
OUT-20D	0.40	2
OUT-20E	0.50	2
OUT-20F	0.40	9
OUT-51A	0.80	3
OUT-51B	3.2 (2.6 UNDISTURBED)	6
OUT-51C	4 (2.8 UNDISTURBED)	8
OUT-51D	1.20	3

LEGEND	WETLAND IMPACTS (WTL-7)
	STA. 457+85 TO 462+15 RT. AREA OF PERMANENT IMPACT = 0.146 AC. VOLUME OF PERMANENT IMPACT = 236 C.Y.
	STA. 460+45 TO 463+50 LT. AREA OF PERMANENT IMPACT = 1.176 AC. VOLUME OF PERMANENT IMPACT = 1898 C.Y.
	STA. 465+10 TO 466+95 LT. AREA OF PERMANENT IMPACT = 0.176 AC. VOLUME OF PERMANENT IMPACT = 284 C.Y.
	TOTAL AREA OF PERMANENT IMPACT = 1.498 AC. TOTAL VOLUME OF PERMANENT IMPACT = 2418 C.Y.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE II

6/5/2018 4:48:00 AM
G:\Jobs\SH14\Const_PIN-100341-02\081P.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	99A
CONST.	2018	STP-14(63)	81R

REV. 2-10-09: UPDATED PROP. R.O.W. AT STA. 487+90 LT.

REV. 8-20-09: REMOVED FLD. ENT. STA. 486+50 LT. ADDED BUS. ENT. STA. 486+98 LT. MODIFIED CONST. ESMT. FOR POND LT. STA. 482+00, ADDED CONST. ESMT. LT. STA. 484+00, AND UPDATED PROP. R.O.W. FROM LT. STA. 482+50 TO STA. 485+80. MODIFIED CONST. ESMT. FOR POND LT. STA. 482+00 AND ADDED CONST. ESMT. AND PROP. DITCH ALONG PVT. DR. LT. STA. 484+30. UPDATED EROSION CONTROL DEVICES FROM LT. STA. 480+00 TO STA. 486+00.

REV. 10-25-10: MOVED MEDIAN DRAIN FROM STA. 490+60 TO STA. 487+58, AND UPDATED EROSION CONTROL DEVICES FROM STA. 486+50 TO STA. 490+50.

475

480

485

N

CONST. ESMT.

TUBE 20"** TUBE 20"** TUBE 20"**

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-22	25.4 (15.6 UNDISTURBED)	2
OUT-22C	0.30	3
OUT-22D	3.80	4
OUT-22E	2.00	5
OUT-22F	3.70	3

490

495

500

N

MATCH LINE STA. 487+00.00 SEE SHEET NO. 81R

MATCH LINE STA. 500+00.00 SEE SHEET NO. 81T

OUT - 22C PH 2 & 3

OUT - 22D PH 2 & 3

PROP. R.O.W.

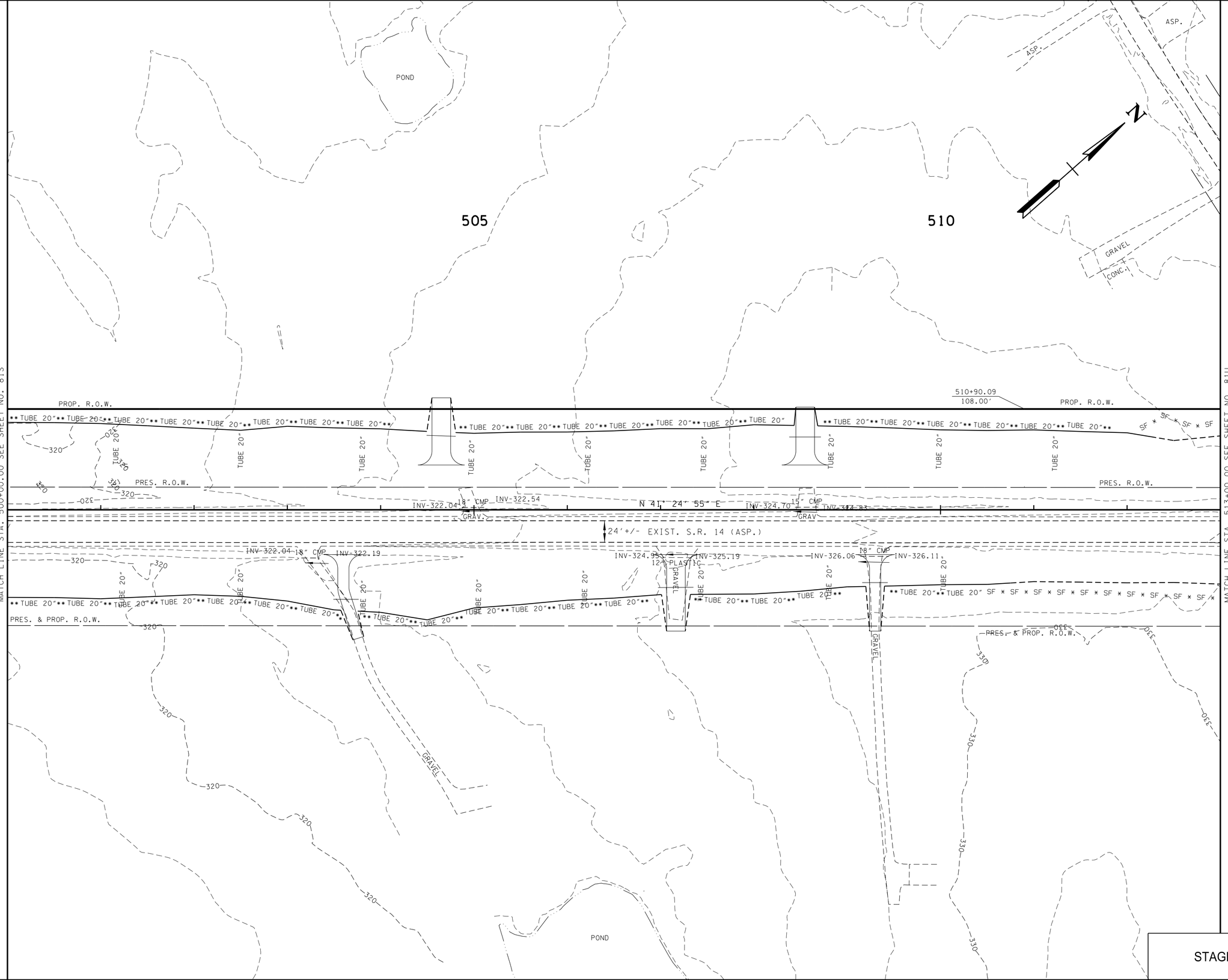
ASP.

** TUBE 20" ** TUBE 20" ** TUBE 20"

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	100A
CONST.	2018	STP-14(63)	81T

REV. 10-02-08: REMOVED SIDE RD. AT STA. 514+60 RT. AND ADDED TURNAROUND.

REV. 8-20-09: ADDED FLD. ENT. STA. 507+16.50 RT. MODIFIED PVT. DR. STA. 63+13 LT. OF ROSEMARK RD. RT. TO MATCH EXISTING DRIVEWAY.


POND
505
510
ASP.
ASP.
GRAVEL
CONC.
N
510+90.09
108.00'
PROP. R.O.W.
PROP. R.O.W.
** TUBE 20" ** TUBE 20" ** TUBE 20"

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-23	14.5 (11.5 UNDISTURBED/ DIVERTED)	2
OUT-23B	9.6 (9.1 UNDISTURBED/ DIVERTED)	2
OUT-23C	2.9 (2.4 UNDISTURBED)	5
OUT-23D	1.10	9
OUT-23E	0.30	10
OUT-23F	0.60	7
OUT-53	43.1 (32.2 UNDISTURBED/ DIVERTED)	1
OUT-53A	0.70	1
OUT-53B	2.40	2
OUT-53C	0.90	1
OUT-53D	1.50	2
OUT-53E	19.8 (19.7 UNDISTURBED)	1
OUT-53F	1.30	1
OUT-53G	10.2 (8.4 UNDISTURBED/ DIVERTED)	2

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	100A
CONST.	2018	STP-14(63)	81U

REV. 10-02-08: REMOVED SIDE RD. AT STA. 514+60 RT. AND ADDED TURNAROUND.

REV. 8-20-09: ADDED FLD. ENT. STA. 507+16.50 RT. MODIFIED PVT. DR. STA. 63+13 LT. OF ROSEMARK RD. RT. TO MATCH EXISTING DRIVEWAY.

MATCH LINE STA. 513+00.00 SEE SHEET NO. 81T

MATCH LINE STA. 526+00.00 SEE SHEET NO. 81V

515

520

525

N

STA. 514+60.00 M.L.C.L. =
STA. 50+00.00 McCALA ROAD LT.
N 393776.6059
E 842902.3274

STA. 525+30.00 M.L.C.L. =
STA. 60+00.00 ROSEMARK ROAD RT.
N 394578.8818
E 843610.3198

OUT - 23
PERM. DRAIN. ESMT.
CONST. ESMT.
OUT - 23E PH 2 & 3
OUT - 23F PH 2 & 3
OUT - 23D
OUT - 23B
OUT - 23C
OUT - 53
OUT - 53A PH 2 & 3
OUT - 53B PH 2 & 3
OUT - 53C
OUT - 53D PH 2 & 3
OUT - 53E
OUT - 53F
OUT - 53G

PRES. R.O.W.
PROP. R.O.W.
PRES. & PROP. R.O.W.
McCALA RD. (ASP.)
ROSEMARK RD. (ASP.)
EXIST. S.R. 14 (ASP.)

S 48° 35' 05" E
N 41° 24' 55" E
S 7° 04' 03" W
N 41° 26' 47" E
S 48° 33' 13" E

18" RCP 40 LF 18" TEMP PIPE TO PROP. JUNCTION BOX
BUILD 90' OF 36" PIPE TIE JUNCTION BOX ON THIS PHASE.
BUILD 70' OF 48" PIPE ENDING AT JUNCTION BOX ON THIS PHASE.
REMOVE 10 LF OF EXISTING 36" RCP
TIE 36" TEMP PIPE
TIE 14 LF 36" TEMP PIPE TO PROP. JUNCTION BOX
EXISTING PIPE TO BE PLUGGED
EXISTING PIPE TO REMAIN
EXISTING PIPE TO BE REMOVED
SCARIFY, ADD TOPSOIL & SEED

INV-320.58
INV-321.26
INV-323.37
INV-324.33
INV-324.46
INV-327.83
INV-327.94
INV-327.88
INV-327.91
INV-319.67
INV-321.09
INV-321.55
INV-323.10
INV-323.60
INV-323.40
INV-322.99

24'+/-

DIRT DRIVEWAY (UNDER CONST.)

LEGEND	WETLAND IMPACTS (WTL-8)
	AREA OF PERMANENT IMPACT = 0.057 AC.
	VOLUME OF PERMANENT IMPACT = 92 C.Y.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE II

6/5/2018 4:48:10 AM
G:\Jobs\SH14\Const_PIN-100341-02\081U.sht

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-25	1.70	2
OUT-53H	2.0 (1.1 UNDISTURBED)	1

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	101
CONST.	2018	STP-14(63)	81V

REV. 6-03-08: ADDED PRIVATE DRIVEWAY AT STA. 76+31 LT. TO TR. 73 OFF KERRVILLE-ROSEMARK RD. LT.

MATCH LINE STA. 526+00.00 SEE SHEET NO. 81U

MATCH LINE STA. 539+00.00 SEE SHEET NO. 81W

OUT - 25

OUT - 53H

530

535

ROSEMARK RD. (ASP.)

PRES. R.O.W.

PROP. R.O.W.

PRES. & PROP. R.O.W.

EXISTING PIPE TO BE PLUGGED

SCARIFY, ADD TOPSOIL & SEED

PERM. DRAIN. ESMT.

526+90.71
107.47'

527+78.51
108.89'

529+24.80
111.26'

529+85.00
112.24'

533+00.00
115.00'

534+18.20
109.09'

535+00.00
105.00'

64+60.00
23.50'

65+00.00
55.00'

66+50.00
60.00'

67+17.03
66.26'

67+25.00
44.42'

67+50.00
65.00'

24" RCP

12" RCP

18" CMP

15" CMP

TUBE 20"

INV-327.83

INV-327.20

INV-326.84

INV-327.48

INV-324.99

INV-325.60

INV-329.92

INV-330.31

INV-331.11

INV-331.42

INV-332.78

INV-333.17

INV-331.65

INV-331.17

S 48° 33' 13" E

N 41° 26' 47" E

EXIST. S.R. 14 (ASP.)

24'+/-

STA. 532+25.00 M.L.C.L.=
STA. 70+00.00
ROSEMARK ROAD LT
N 395099.8367
E 844070.3535

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STAGE II

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

6/5/2018 4:48:12 AM
G:\Jobs\SH14\Const_PIN-100341-02\081V.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	101
CONST.	2018	STP-14(63)	81W

REV. 6-03-08: ADDED PRIVATE DRIVEWAY AT STA. 76+31 LT. TO TR. 73 OFF KERRVILLE-ROSEMARK RD. LT.

PHASE 2A: CONSTRUCT TEMPORARY DIVERSION. CONSTRUCT AS MUCH OF THE NEW RCBC ON THE WEST SIDE OF SR-14 AS POSSIBLE.

PHASE 2B: ONCE TRAFFIC IS SHIFTED TO NEW EASTBOUND LANES, CONSTRUCT REMAINING PORTION OF NEW RCBC. USE 42" TEMPORARY DIVERSION CULVERT AND SANDBAGS W/ POLY-SHEETING TO CONNECT COMPLETED PORTIONS OF PROPOSED BOX TO EXISTING CULVERT INLET. INSTALL TEMPORARY DIVERSION CHANNEL AROUND OUTLET WINGWALL OF NEW RCBC IF NECESSARY.

MATCH LINE STA. 539+00.00 SEE SHEET NO. 81A

MATCH LINE STA. 552+00.00 SEE SHEET NO. 81X

KERRVILLE-ROSEMARK RD.(ASP.)

DO NOT DISTURB THE TWO TREES IN THE FRONT YARD

BUILD AS MUCH OF 30" PIPE AS YOU CAN DURING THIS PHASE.

PERM. WETLAND IMPACT

WTL-9

EXISTING PIPE TO BE REMOVED

EXISTING PIPE TO BE REMOVED

EXISTING BOX TO BE REMOVED

EXIST. S.R. 14 (ASP.)

PRES. & PROP. R.O.W.

PROP. R.O.W.

S 81° 17' 04" E

S 48° 33' 13" E

S 48° 33' 13" E

S 81° 32' 34" E

INV-331.89

INV-331.11

INV-330.13

INV-329.87

INV-329.63

INV-328.36

INV-329.72

INV-330.26

INV-330.07

INV-329.82

INV-329.36

INV-329.62

INV-321.66

INV-321.62

18 LF 18" TEMP PIPE

30 LF 42" TEMP PIPE

PHASE 2A

PHASE 2B

POND

ASP.

CONC.

GRAVEL

GRV

STA. 548+00.00 M.L.C.L.=
STA. 90+00.00
KERRVILLE-ROSEMARK ROAD RT.
N 396280.4179
E 845112.8759

STA. 543+85.00 M.L.C.L.=
STA. 80+00.00
KERRVILLE-ROSEMARK ROAD LT.
N 395969.3442
E 844838.1795

OUT - 26
OUT - 36
OUT - 37
OUT - 38
OUT - 38A
OUT - 38B
OUT - 38C
OUT - 38D

LEGEND	WETLAND IMPACTS (WTL-9)
	AREA OF PERMANENT IMPACT = 0.044 AC.
	VOLUME OF PERMANENT IMPACT = 71 C.Y.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-26	4.80	7
OUT-36	0.20	2
OUT-37	0.10	2
OUT-38	41.2 (35.7 UNDISTURBED)	3
OUT-38A	1.60	4
OUT-38B	3.5 (2.4 UNDISTURBED)	1
OUT-38C	2.00	3
OUT-38D	0.80	2

2.75' 3' CLASS "A" 3:1

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE II

6/5/2018 4:48:16 AM
G:\Jobs\SH14\Const_PIN-100341-02\081W.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	102
CONST.	2018	STP-14(63)	81X

REV. 7-07-08: PLACED FIELD ENTRANCE AT STA. 563+70 TO TR. 82 OFF OF S.R. 14 (LEFT).

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-54	1.10	2
OUT-55	1.30	3
OUT-56	1.20	1

PHASE 2A: INSTALL TEMPORARY STREAM DIVERSION AND CONSTRUCT AS MUCH OF THE PROPOSED 36" RCP AS POSSIBLE. INSTALL TEMP. CULVERT FROM NEW PORTION OF 36" RCP TO EXISTING CULVERT INLET.

PHASE 2B: SHIFT TRAFFIC TO SOUTHBOUND LANES. CONSTRUCT REMAINING PORTION OF 36" RCP AND CATCH BASIN WHILE DIVERTING STREAM FLOW INTO TEMPORARY DIVERSION CHANNEL FROM EXISTING CULVERT OUTLET.

MATCH LINE STA. 552+00.00 SEE SHEET NO. 81W

MATCH LINE STA. 565+00.00 SEE SHEET NO. 81Y

555 560 565 200 205

552+00.00 125.00'

554+00.00 105.00'

557+00.00 120.00'

559+41.86 118.49'

PC 200+92.02

POT 200+00.00
N 397016.3437
E 845714.7142

PT 205+66.60
PC 205+71.16

GEOTEXTILE 3'

2.75'

3:1

OUT - 55 PH 2 & 3

OUT - 56 PH 2 & 3

PERM. DRAIN. ESMT.

PROP. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

** TUBE 20" ** TUBE 20" ** TUBE 20"

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	102
CONST.	2018	STP-14(63)	81Y

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-57	18.0 (17.8 UNDISTURBED)	5

570

575

210

POND

LIMIT OF CONST. 95+50.00

PROP. R.O.W.

PRES. R.O.W.

GRAGG RD. (ASP.)

ASPHALT

PERM. DRAIN. ESMT.

CONST. ESMT.

TUBE 20"

CUT

FILL

SR-14

EXIST. S.R. 14 (ASP.) 24'+/-

S 80° 54' 10" E

N 79° 25' 37" E

N 48° 37' 56" E

N 41° 21' 09" E

N 41° 26' 47" E

S 48° 33' 13" E

MATCH LINE STA. 565+00.00 SEE SHEET NO. 81X

PRES. & PROP. R.O.W.

OUT - 57

WWC-15

15" CMP

30" RCP

GRV

RCP

STA. 576+50.00 M.L.C.L.=
STA. 100+00.00
GRAGG ROAD LT. & RT.
FUTURE (BY OTHERS)
N 398416.7080
E 846999.3450

N 79° 02' 55" E

79022-3233-14

END PROJ. NO. STP-14(63) (CONST.)
PHASE 2 STA. 568+47.52 M.L.C.L.
N 397815.1921
E 846468.1713
STA. 568+47.52 23.37' RT. M.L.C.L.=
STA. 211+00.00
TEMP. CROSSOVER
N 397799.7243
E 846485.6875

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE II

6/5/2018 4:48:20 AM
G:\Jobs\SH14\Const_PIN-100341-02\081Y.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	92B
CONST.	2018	STP-14(63)	82

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-2 AND THAT STR-2 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-1 & WTL-2 AND THAT WTL-1 & WTL-2 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

79022-3233-14

BEGIN PROJ. NO. STP-14(63) (CONST.)
PHASE 2 STA. 900+00.00 =
19.97' LT. STA. 300+00.00 M.L.C.L.
N 377672.2452
E 828720.1410

79022-3233-14

BEGIN PROJ. NO. STP-14(63) (CONST.)
PHASE 2 STA. 800+00.00 =
19.76' RT. STA. 300+00.00 M.L.C.L.
N 377645.8955
E 828749.8760

300 900 800 305 905 805

EXIST. S.R. 14 (ASP.)

EXIST. S.R. 14 (ASP.)

S.R. 385 (PAUL BARRETT PARKWAY)

POND

TRIBUTARY TO BIG CREEK

OUT - 58A

OUT - 58

N 41° 32' 45" E

N 38° 42' 30" E

BEGIN PROPOSED CHANNEL
SR 14 STA. 302+00
90.7' RT. = STR-1
STA. 10+00.00

BEGIN STR-1 IMPACT
SR 14 STA. 303+13.03
111.9' RT = STR-1
STA. 11+16.03

EROSION CONTROL BLANKET TO BE USED AS TEMPORARY STABILIZATION UNTIL SOD IS IN PLACE.

MATCH LINE STA. 305+00.00 SEE SHEET NO. 82A

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-58	5.9 (4.2 UNDISTURBED)	3
OUT-58A	1.30	3

FINAL STABILIZATION

STAGE III

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

6/5/2018 4:48:27 AM
G:\Jobs\SH14\Const_PIN-100341-02\082.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	92B
CONST.	2018	STP-14(63)	82A

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

310 79022-2290-14

BEGIN PROJ. NO. STP-14(43) (R.O.W.)
STA. 305+71.30
N 378089.8364
E 829110.2314

315

N

POND

TRIBUTARY TO BIG CREEK

STR-2

PRES. & PROP. R.O.W.

STR-3

EROSION CONTROL BLANKET TO BE USED AS TEMPORARY STABILIZATION UNTIL SOD IS IN PLACE.

PROP. GATE

PROP. C.A. FENCE

WTL-2

WTL-2 WETLAND

OUT - 43 PH 2 & 3

OUT - 44 PH 2 & 3

MAINTAIN A MINIMUM 30' NATURAL VEGETATION BUFFER ON EACH SIDE OF CREEKS THROUGH PROJECT.

PROP. R.O.W.

PRES. R.O.W.

TUBE 20"** TUBE 20"** TUBE 20"**

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	93B
CONST.	2018	STP-14(63)	82B

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-4	12.6 (8.8 UNDISTURBED)	2
OUT-4B	11.2 (8.6 UNDISTURBED)	12
OUT-44A	0.80	3
OUT-44B	0.40	1
OUT-44C	10.6 (6.6 UNDISTURBED/ DIVERTED)	9
OUT-44D	0.80	1
OUT-45	0.10	2

320

325

330

EROSION CONTROL BLANKET TO BE USED AS TEMPORARY STABILIZATION UNTIL SOD IS IN PLACE.

STA. 323+00.00 M.L.C.L.=
STA. 10+00.00 RICKS ROAD RT.
N 379416.9649
E 830217.4528

STA. 327+50.00 M.L.C.L.=
STA. 20+00.00 RICKS ROAD LT.
N 379753.9184
E 830515.7184

MATCH LINE STA. 318+00.00 SEE SHEET NO. 82A

MATCH LINE STA. 331+00.00 SEE SHEET NO. 82C

PROP. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

S 8° 00' 09" W

S 48° 29' 07" E

N 41° 30' 53" E

S 48° 48' 35" W

S 39° 16' 26" W

OUT - 44A

OUT - 44B

OUT - 44C

OUT - 44D

OUT - 45 PH 2 & 3

OUT - 4

STR-3

RICKS RD. (ASP.)

TRIBUTARY TO BIG CREEK

WTL-4, WAA-1

WWC-3

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-4 & WTL-5 AND THAT WTL-4 & WTL-5 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF STR-3 AND THAT STR-3 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

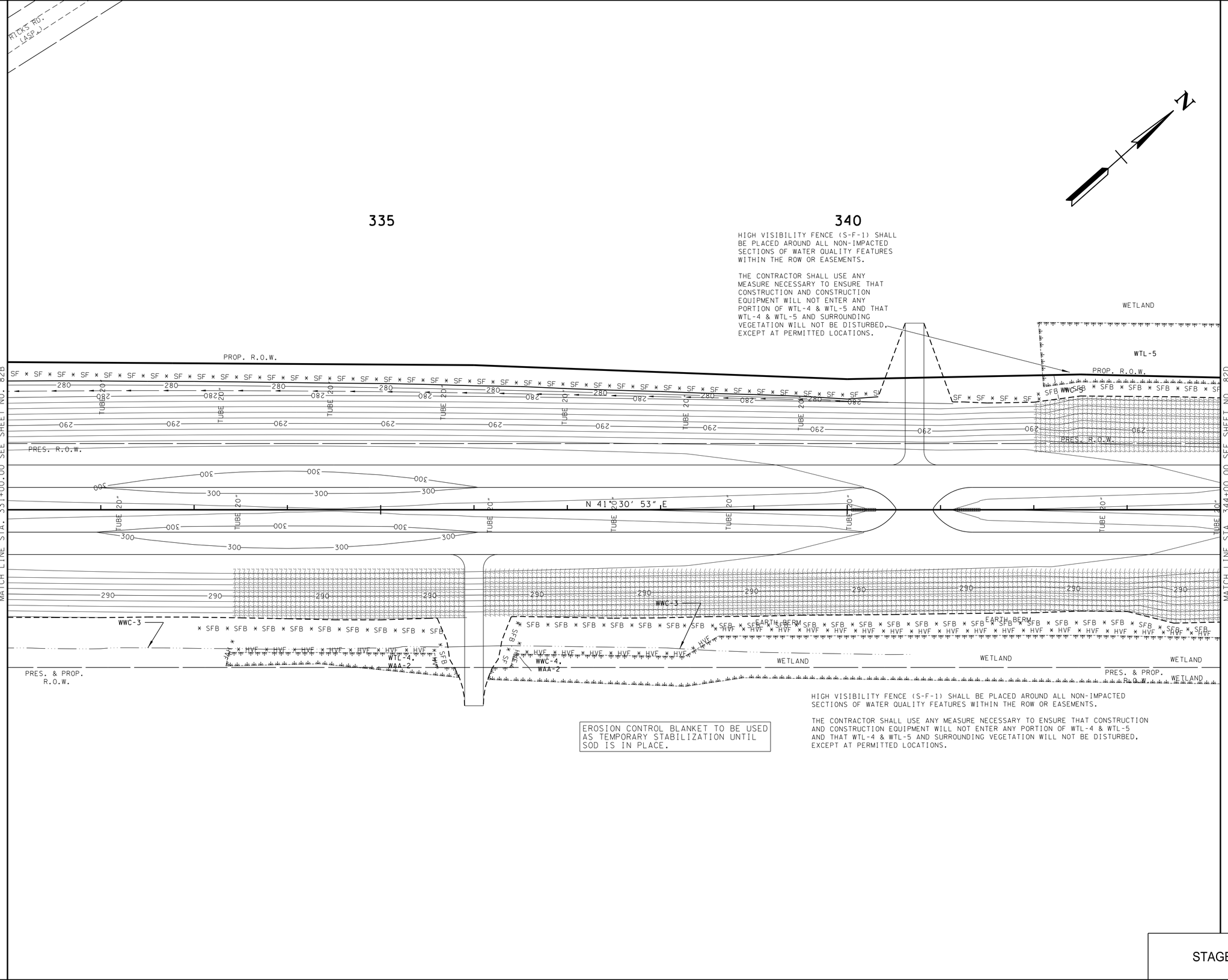
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE III

6/5/2018 4:48:34 AM
G:\Jobs\SH14\Const_PIN-100341-02\082B.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	93B
CONST.	2018	STP-14(63)	82C



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

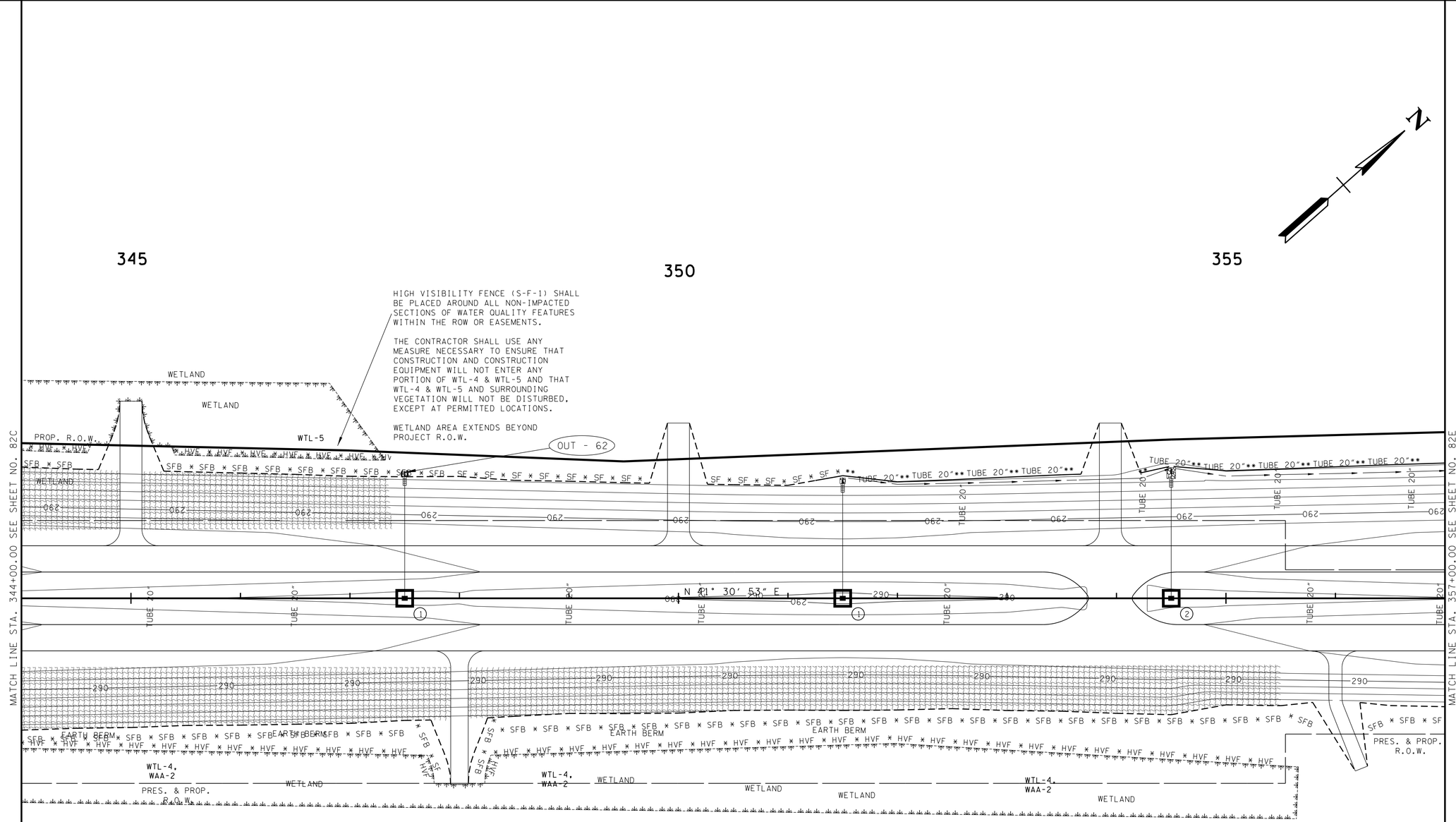
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE III

6/5/2018 4:48:41 AM
G:\Jobs\SH14\Const_PIN-100341-02\082C.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	94B
CONST.	2018	STP-14(63)	82D



EROSION CONTROL BLANKET TO BE USED AS TEMPORARY STABILIZATION UNTIL SOD IS IN PLACE.

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-4 & WTL-5 AND THAT WTL-4 & WTL-5 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

WETLAND AREA EXTENDS BEYOND PROJECT R.O.W.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-62	1.50	7

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STAGE III

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

6/5/2018 4:48:43 AM
G:\Jobs\SH14\Const_PIN-100341-02\082D.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	94B
CONST.	2018	STP-14(63)	82E

360

365

370

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE ROW OR EASEMENTS.

THE CONTRACTOR SHALL USE ANY MEASURE NECESSARY TO ENSURE THAT CONSTRUCTION AND CONSTRUCTION EQUIPMENT WILL NOT ENTER ANY PORTION OF WTL-6 AND THAT WTL-6 AND SURROUNDING VEGETATION WILL NOT BE DISTURBED, EXCEPT AT PERMITTED LOCATIONS.

WETLAND AREA EXTENDS BEYOND PROJECT R.O.W.

WETLAND

CROOKED CREEK

CROOKED CREEK

100'

T.V.A. ESMT.

100'

T.V.A. ESMT.

N

STR-4

OUT - 28
PH 2 & 3

OUT - 46
PH 2 & 3

OUT - 48
PH 2 & 3

PROP. R.O.W.

PRES. R.O.W.

PRES. & PROP. R.O.W.

N 41° 30' 53" E

MATCH LINE STA. 357+00.00 SEE SHEET NO. 82D

MATCH LINE STA. 370+00.00 SEE SHEET NO. 82F

PROPOSED DUAL 42' X 255'-2"± 5 SPAN, 55° SKEW CONCRETE GIRDER BRIDGE

EROSION CONTROL BLANKET TO BE USED AS TEMPORARY STABILIZATION UNTIL SOD IS IN PLACE.

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-28	4.90	4
OUT-46	8.6 (INCLUDES SUB-OUTFALLS)	5
OUT-48	4.50	2

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

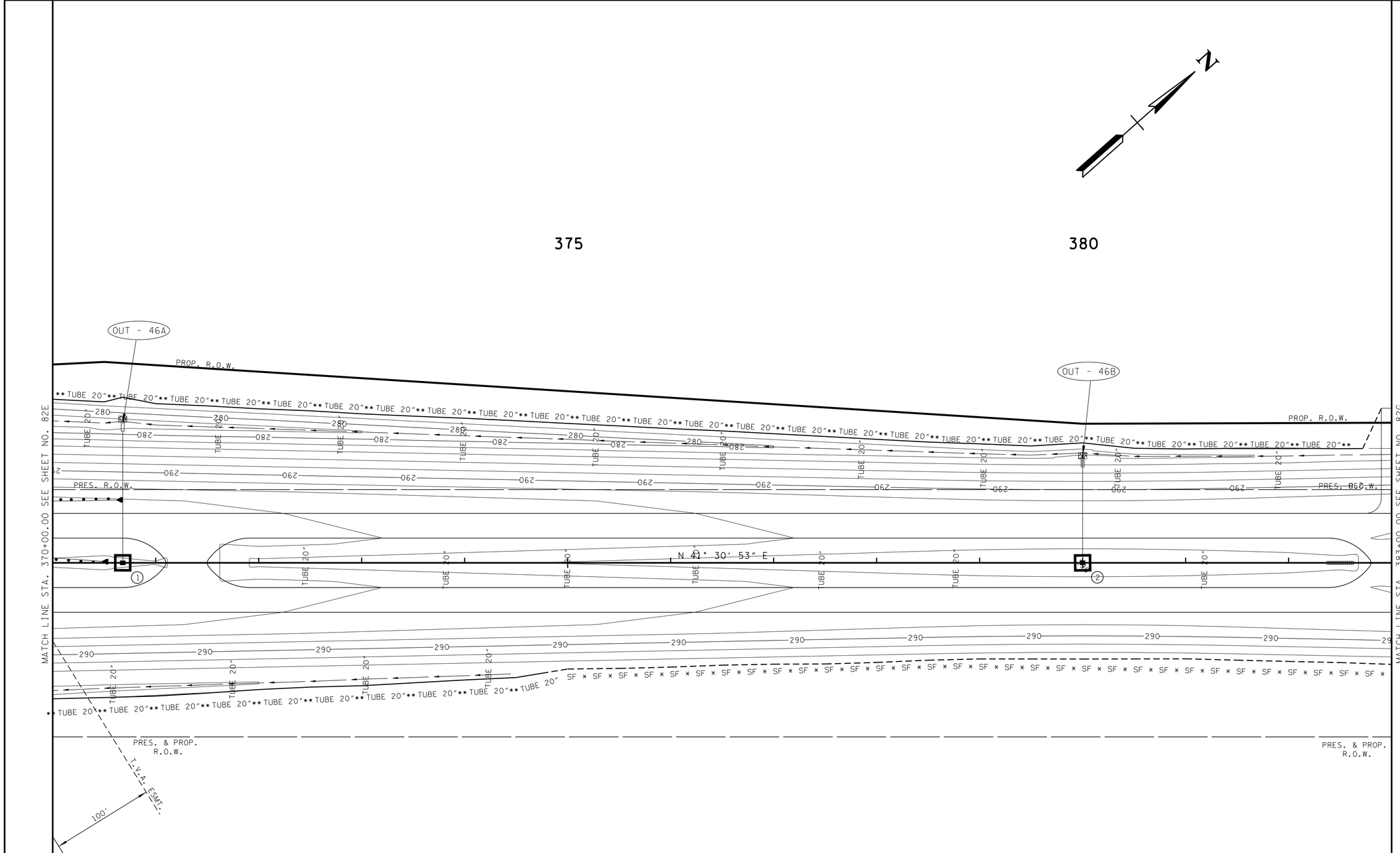
STAGE III

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

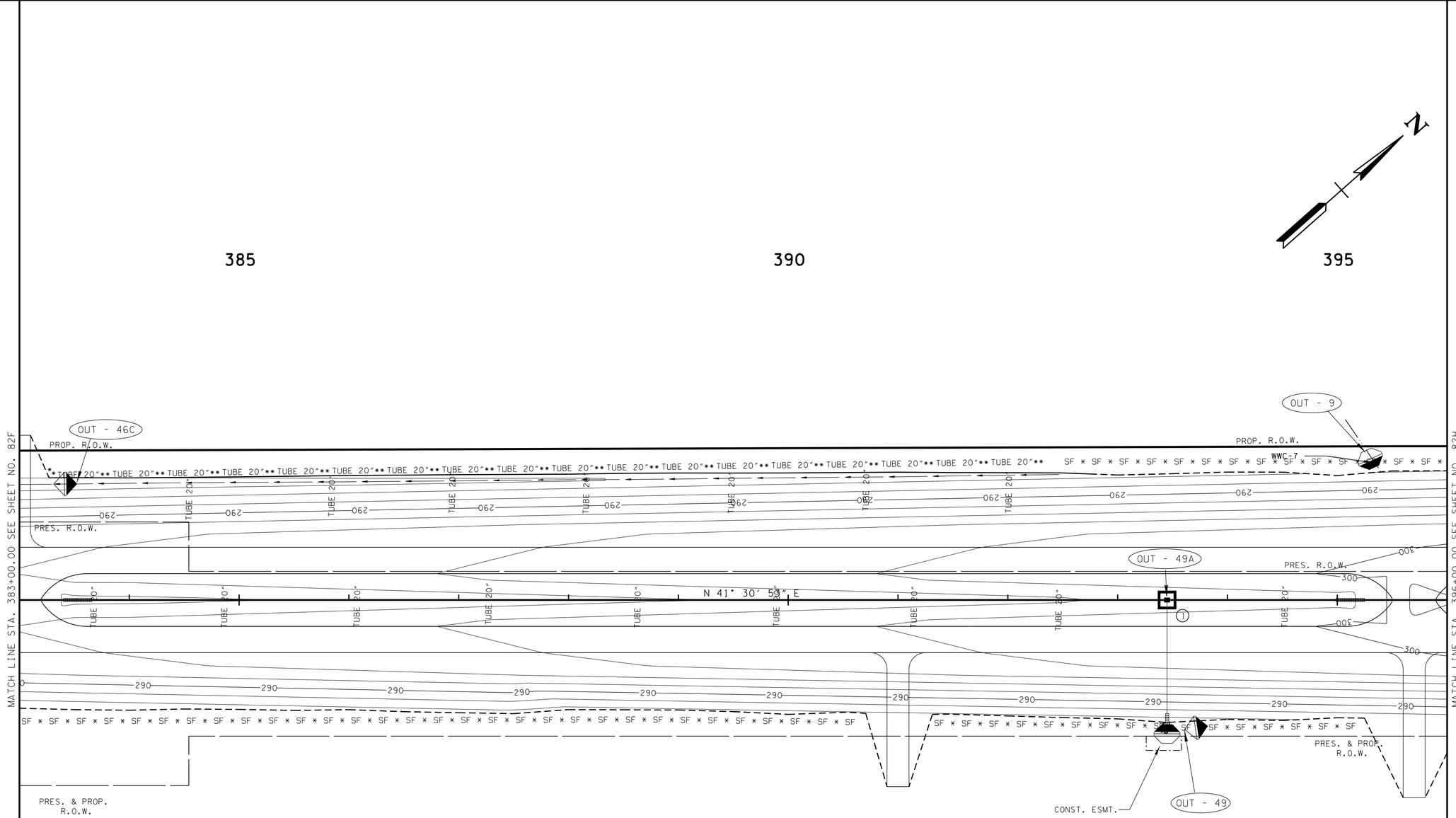
SCALE: 1"=50'

6/5/2018 4:48:46 AM
G:\Jobs\SH14\Const_PIN-100341-02\082E.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	95B
CONST.	2018	STP-14(63)	82F


N
375
380
OUT - 46A
OUT - 46B
PROP. R.O.W.
PRES. R.O.W.
** TUBE 20" ** TUBE 20" ** TUBE 20"

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	95B
CONST.	2018	STP-14(63)	82G


385
390
395
N
OUT - 46C
PROP. R.O.W.
OUT - 9
PROP. R.O.W.
WWC-7
SF * SF * SF *

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	96B
CONST.	2018	STP-14(63)	82H

400

405

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-11	3.00	3
OUT-30	4.10	3



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

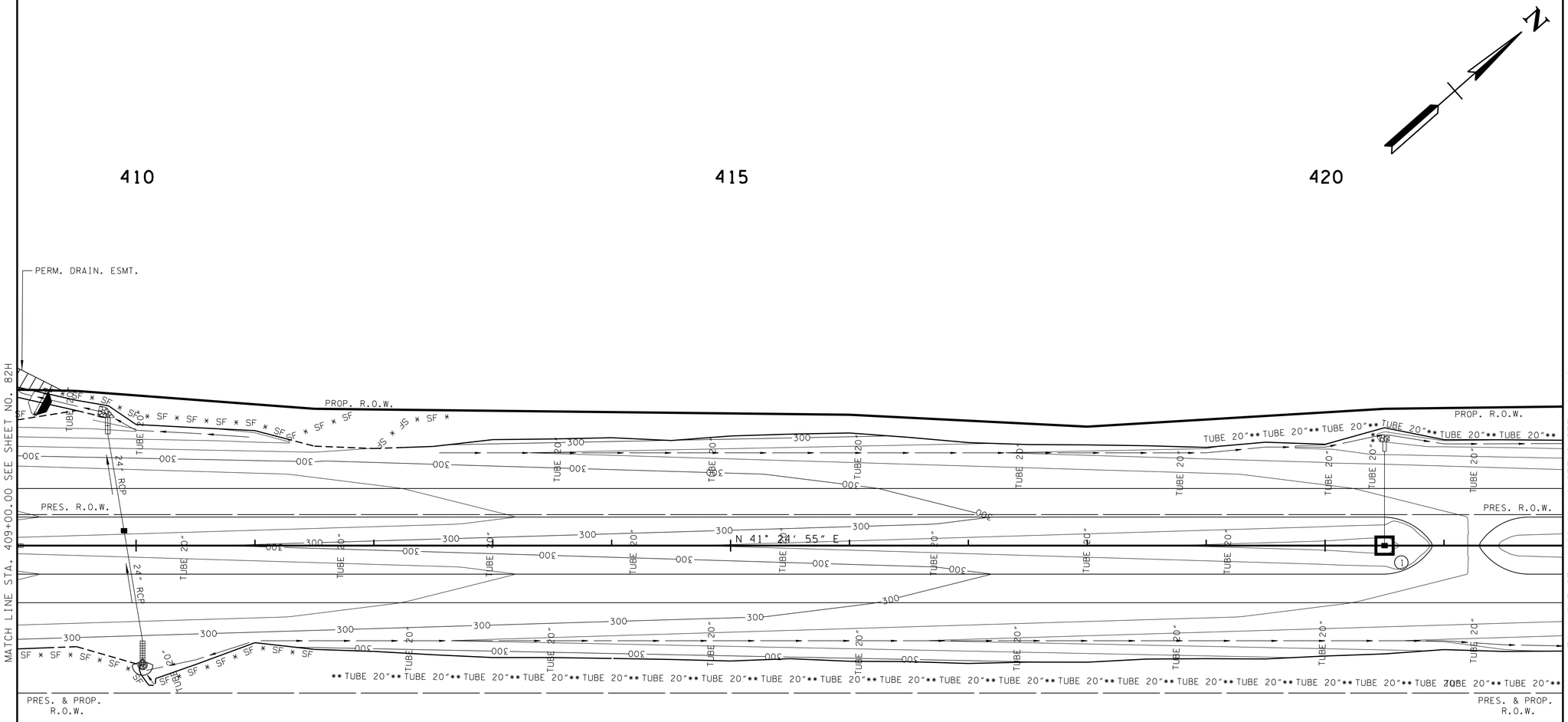
STAGE III

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

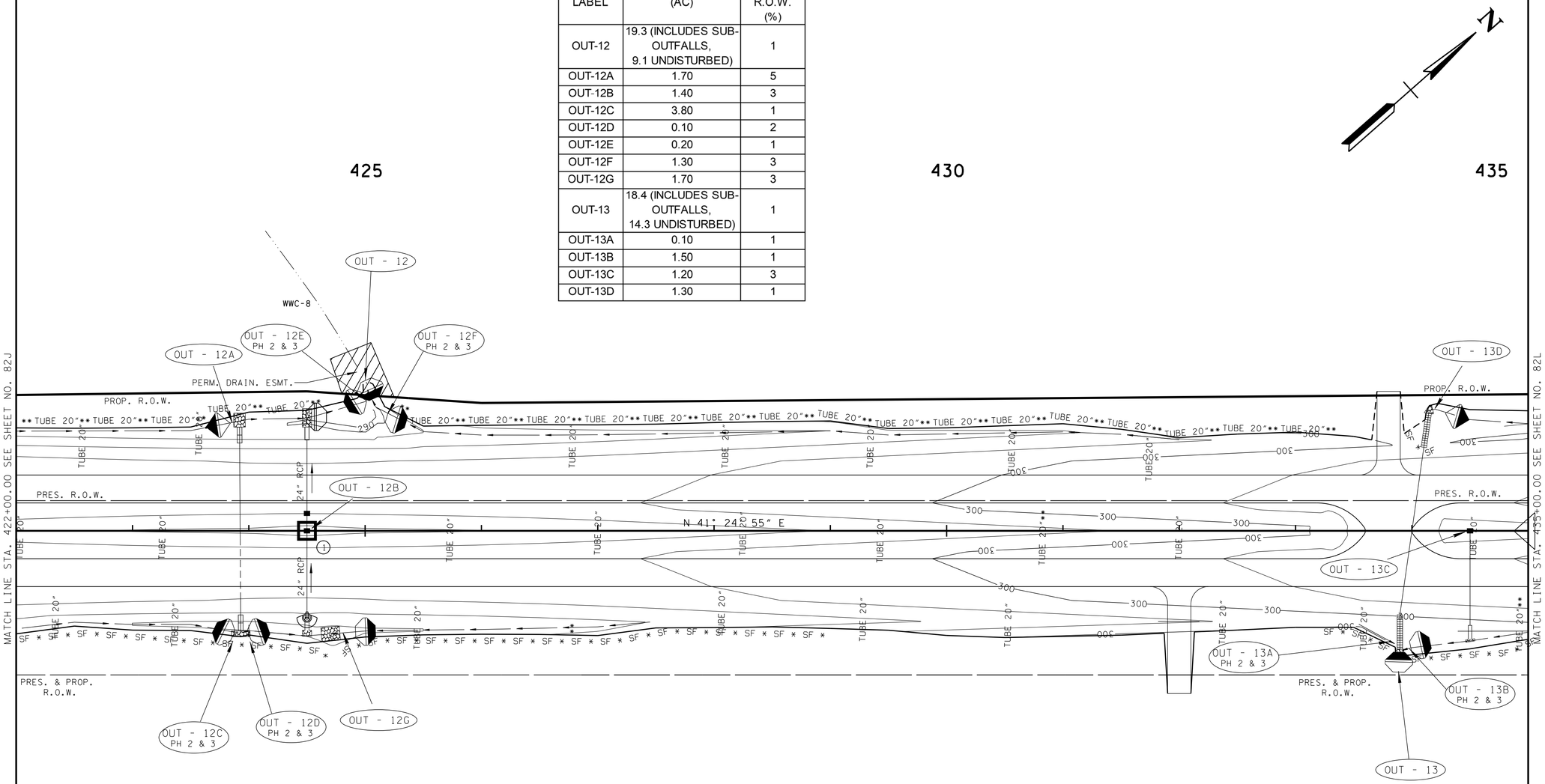
6/5/2018 4:48:52 AM
G:\Jobs\SH114\Const_PIN-100341-02\082H.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	96B
CONST.	2018	STP-14(63)	82J


410
415
420
N
PERM. DRAIN. ESMT.
PROP. R.O.W.
PRES. R.O.W.
PRES. & PROP. R.O.W.
MATCH LINE STA. 409+00.00 SEE SHEET NO. 82H
MATCH LINE STA. 422+00.00 SEE SHEET NO. 82K
N 41° 24' 55" E
24" RCP
TUBE 20"
SF * SF * SF *

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	97B
CONST.	2018	STP-14(63)	82K

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-12	19.3 (INCLUDES SUB-OUTFALLS, 9.1 UNDISTURBED)	1
OUT-12A	1.70	5
OUT-12B	1.40	3
OUT-12C	3.80	1
OUT-12D	0.10	2
OUT-12E	0.20	1
OUT-12F	1.30	3
OUT-12G	1.70	3
OUT-13	18.4 (INCLUDES SUB-OUTFALLS, 14.3 UNDISTURBED)	1
OUT-13A	0.10	1
OUT-13B	1.50	1
OUT-13C	1.20	3
OUT-13D	1.30	1



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

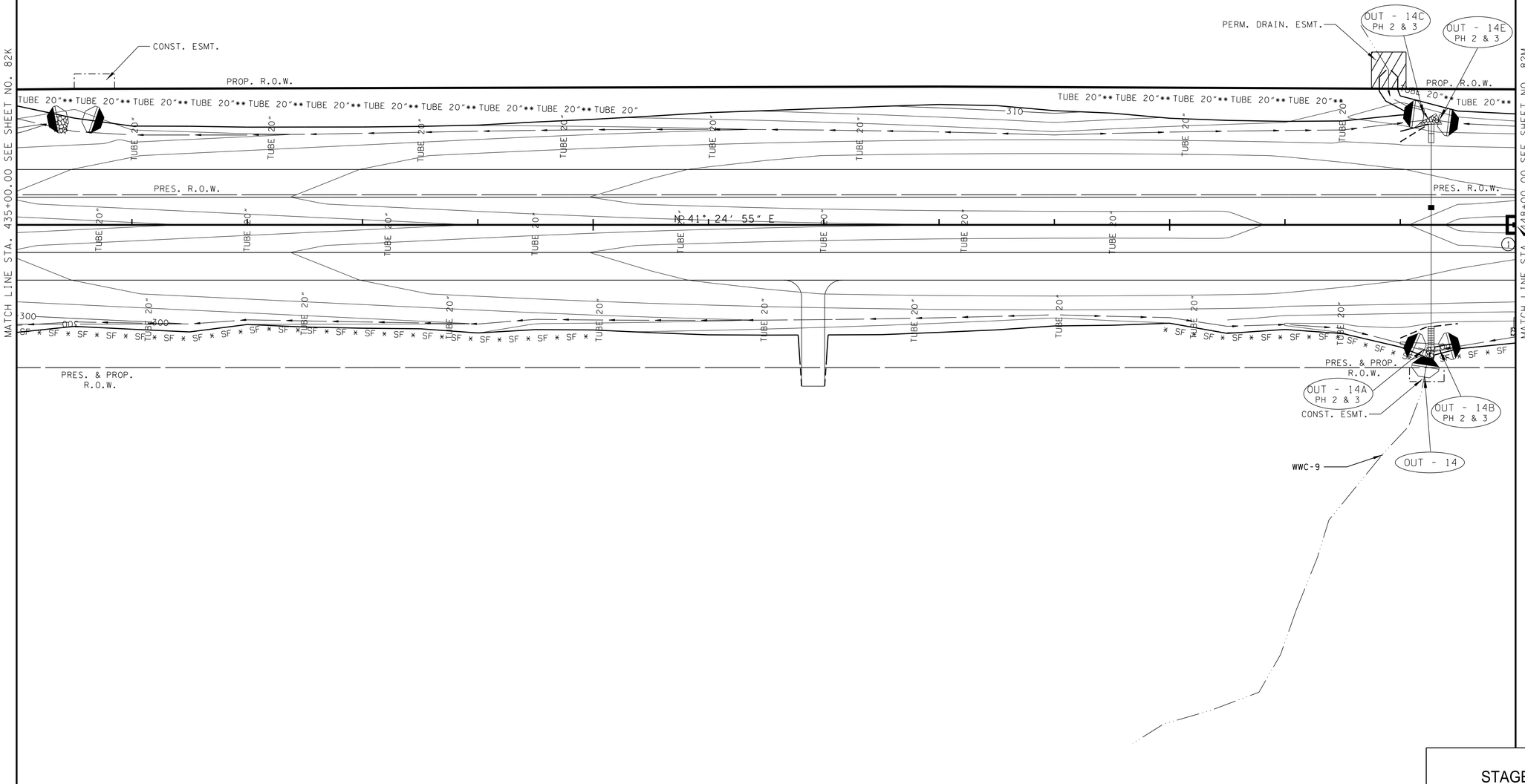
SCALE: 1"=50'

STAGE III

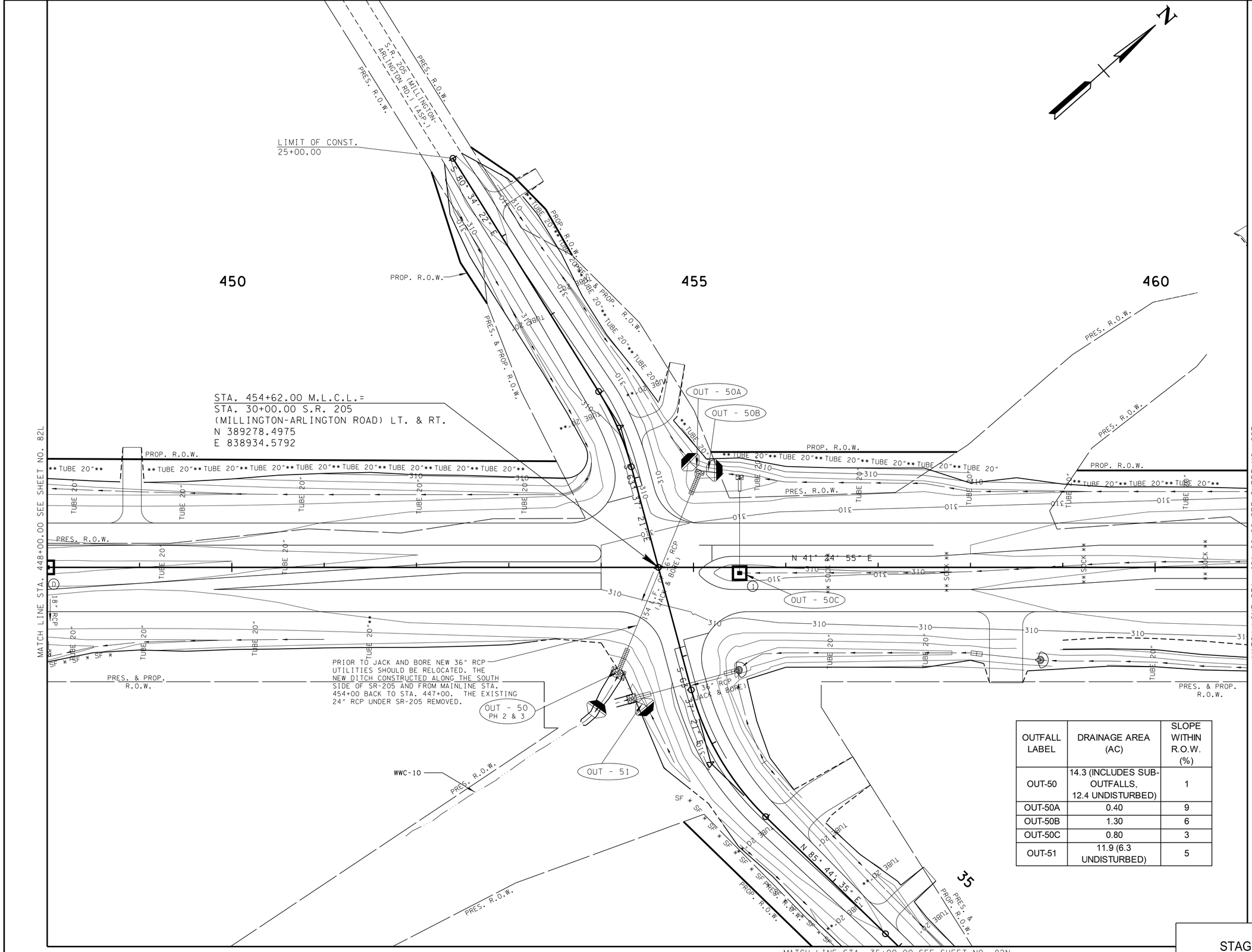
6/5/2018 4:48:58 AM
G:\Jobs\SH14\Const_PIN-100341-02\082K.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	97B
CONST.	2018	STP-14(63)	82L

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-14	12.5 (INCLUDES SUB-OUTFALLS, 8.0 UNDISTURBED)	3
OUT-14A	0.50	4
OUT-14B	1.20	3
OUT-14C	0.50	4
OUT-14D	0.60	4
OUT-14E	1.60	8


440
445
N
MATCH LINE STA. 435+00.00 SEE SHEET NO. 82K
MATCH LINE STA. 448+00.00 SEE SHEET NO. 82M
CONST. ESMT.
PROP. R.O.W.
PERM. DRAIN. ESMT.
OUT - 14C PH 2 & 3
OUT - 14E PH 2 & 3
TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"
TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"** TUBE 20"
310
PRES. R.O.W.
N 41° 24' 55" E
OUT - 14D
300
SF * SF * SF *

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	98B
CONST.	2018	STP-14(63)	82M



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-50	14.3 (INCLUDES SUB-OUTFALLS, 12.4 UNDISTURBED)	1
OUT-50A	0.40	9
OUT-50B	1.30	6
OUT-50C	0.80	3
OUT-51	11.9 (6.3 UNDISTURBED)	5

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

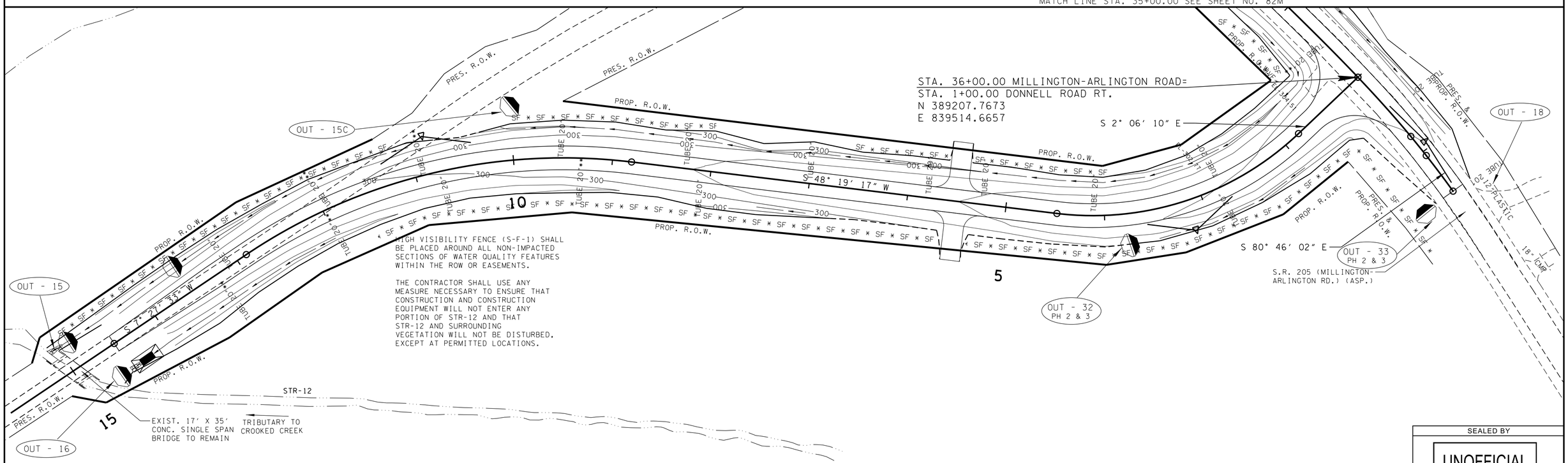
SCALE: 1"=50'

STAGE III

6/5/2018 4:49:05 AM
G:\Jobs\SH141\Const_PIN-100341-02\082M.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	98B
CONST.	2018	STP-14(63)	82N

MATCH LINE STA. 35+00.00 SEE SHEET NO. 82M



DIMENSIONS AND QUANTITY FOR TEMP. SED. TRAP					
LOCATION	L (FT)	W (FT)	D1 (FT)	D2 (FT)	VOL. (CY)
14+35 LT	30	15	4	1.52	102

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-15	34.3 (INCLUDES SUB-OUTFALLS, 24.2 UNDISTURBED)	4
OUT-15C	4.4 (3.4 UNDISTURBED)	7
OUT-16	0.90	4
OUT-18	1.30	1
OUT-32	0.10	2
OUT-33	0.30	4

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

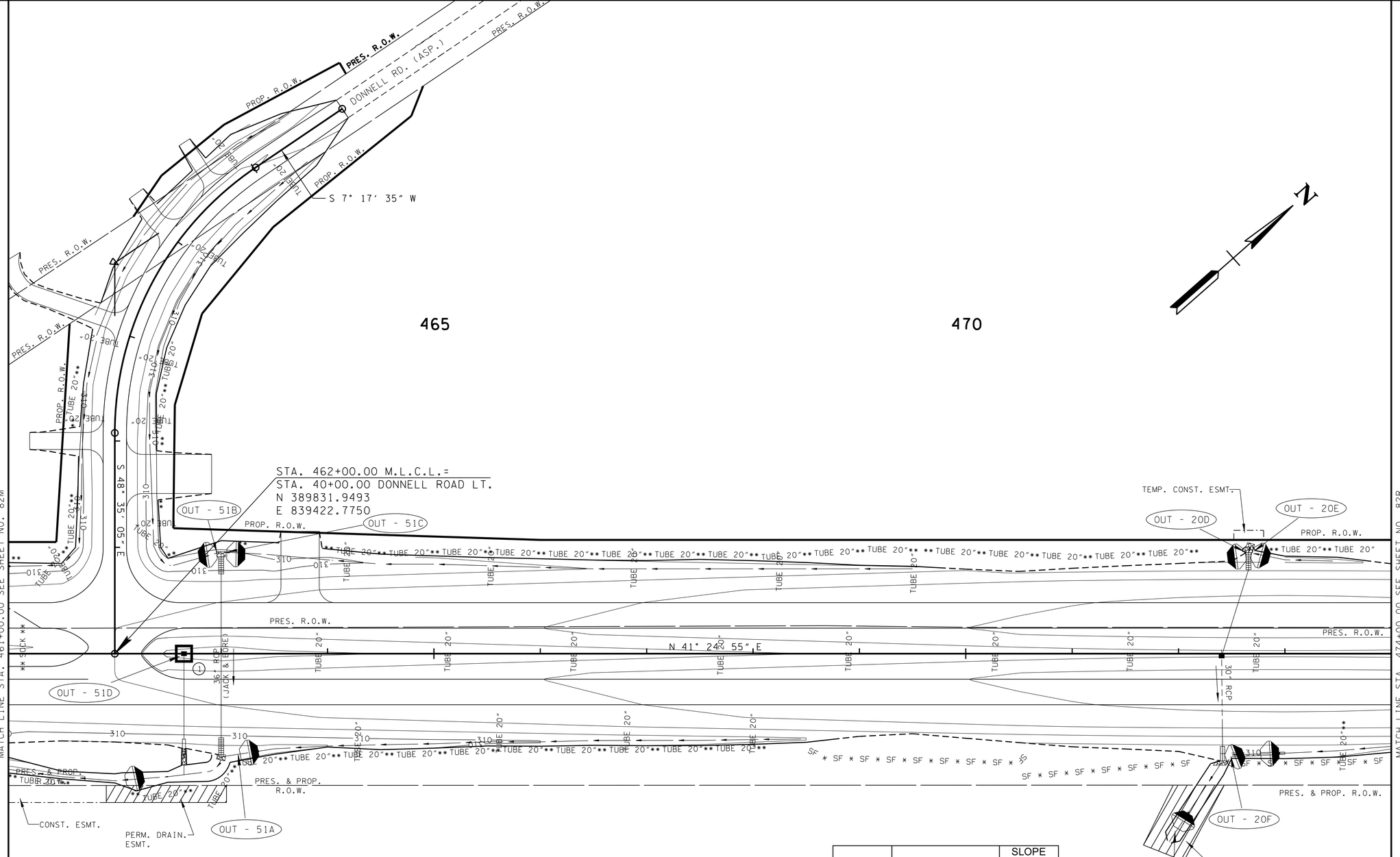
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE III

6/5/2018 4:49:10 AM
G:\Jobs\SH14\Const_PIN-100341-02\082N.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	98B
CONST.	2018	STP-14(63)	82P



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-20	12.6 (INCLUDES SUB-OUTFALLS, 11.3 UNDISTURBED)	1
OUT-20D	0.40	2
OUT-20E	0.50	2
OUT-20F	0.40	9
OUT-51A	0.80	3
OUT-51B	3.2 (2.6 UNDISTURBED)	6
OUT-51C	4.0 (2.8 UNDISTURBED)	8
OUT-51D	1.20	3

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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

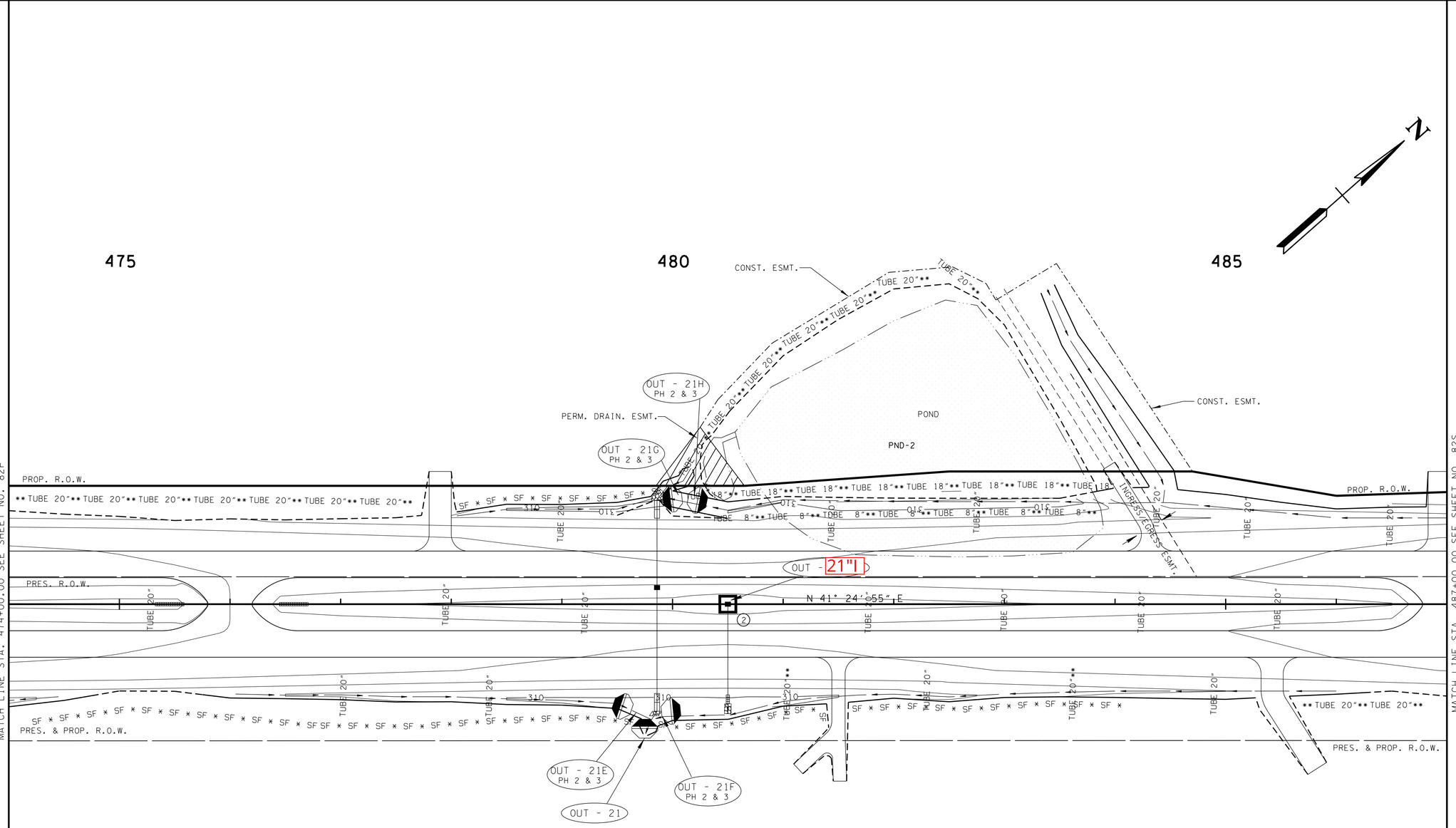
STAGE III

6/5/2018 4:49:14 AM
G:\Jobs\SH14\Const_PIN-100341-02\082P.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	99B
CONST.	2018	STP-14(63)	82R

REV. 8-20-09: REMOVED FLD. ENT. STA. 486+50 LT. ADDED BUS. ENT. STA. 486+98 LT. UPDATED TOE OF SLOPES AROUND POND LT. STA. 482+00. ADDED PROP. DITCH ALONG PVT. DR. LT. STA. 484+30.

REV. 10-25-10: UPDATED DITCHES AND TOES FROM RT. STA. 487+00 TO STA. 490+50, MOVED MEDIAN OPENING FROM STA. 490+00 TO STA. 486+98, AND UPDATED PROP. CONTOURS.



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-21	18.7 (INCLUDES SUB-OUTFALLS, 13.5 UNDISTURBED)	1
OUT-21E	0.60	3
OUT-21F	1.00	3
OUT-21G	3.2 (2.5 UNDISTURBED)	6
OUT-21H	2.70	7
OUT-21"I"	1.50	3

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STAGE III

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

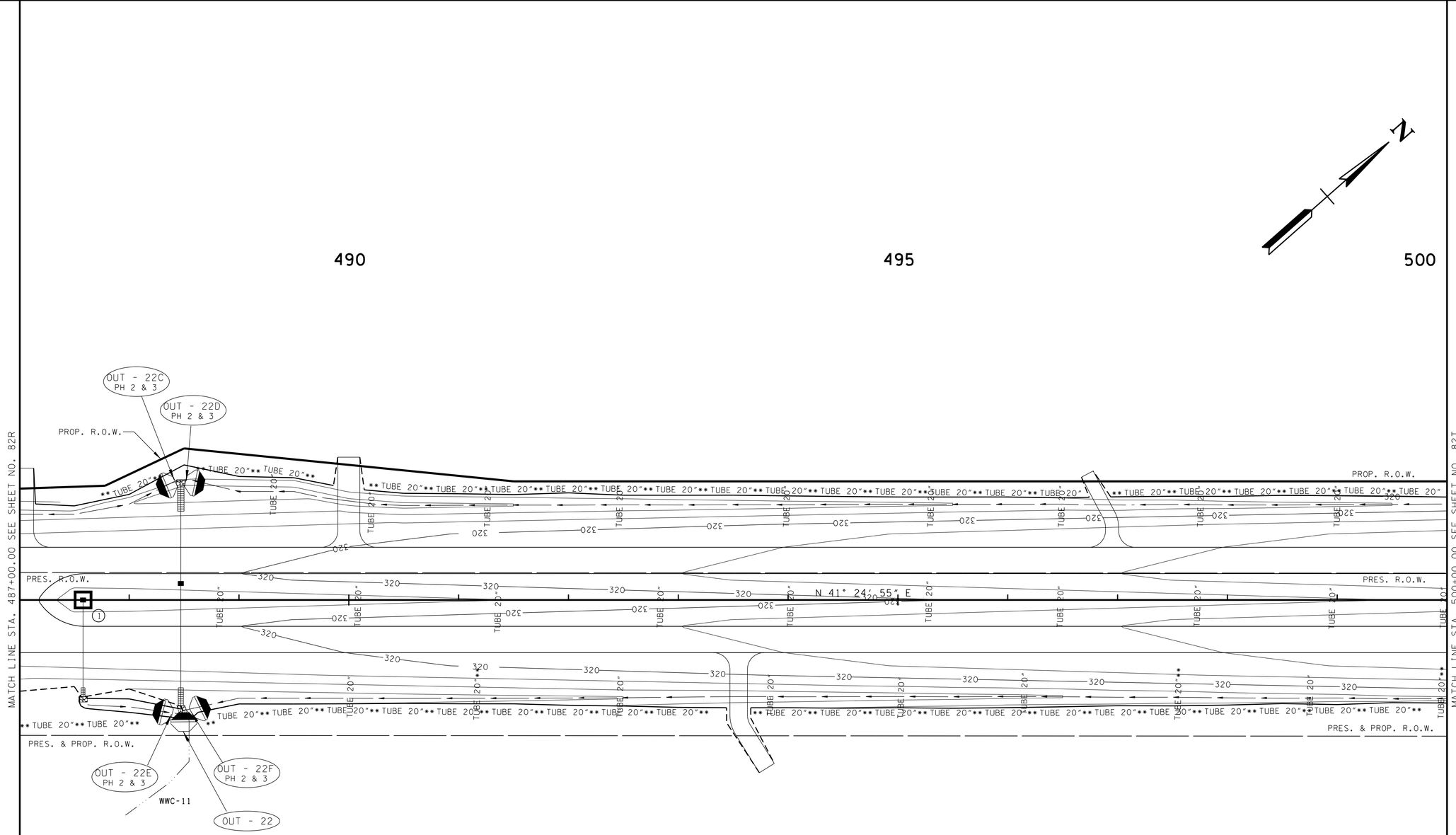
SCALE: 1"=50'

6/5/2018 4:49:17 AM
G:\Jobs\SH14\Const_PIN-100341-02\082R.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	99B
CONST.	2018	STP-14(63)	82S

REV. 8-20-09: REMOVED FLD. ENT. STA. 486+50 LT. ADDED BUS. ENT. STA. 486+98 LT. UPDATED TOE OF SLOPES AROUND POND LT. STA. 482+00. ADDED PROP. DITCH ALONG PVT. DR. LT. STA. 484+30.

REV. 10-25-10: UPDATED DITCHES AND TOES FROM RT. STA. 487+00 TO STA. 490+50, MOVED MEDIAN OPENING FROM STA. 490+00 TO STA. 486+98, AND UPDATED PROP. CONTOURS.



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-22	26.3 (15.6 UNDISTURBED)	2
OUT-22C	0.30	3
OUT-22D	3.80	4
OUT-22E	2.00	5
OUT-22F	4.60	3

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

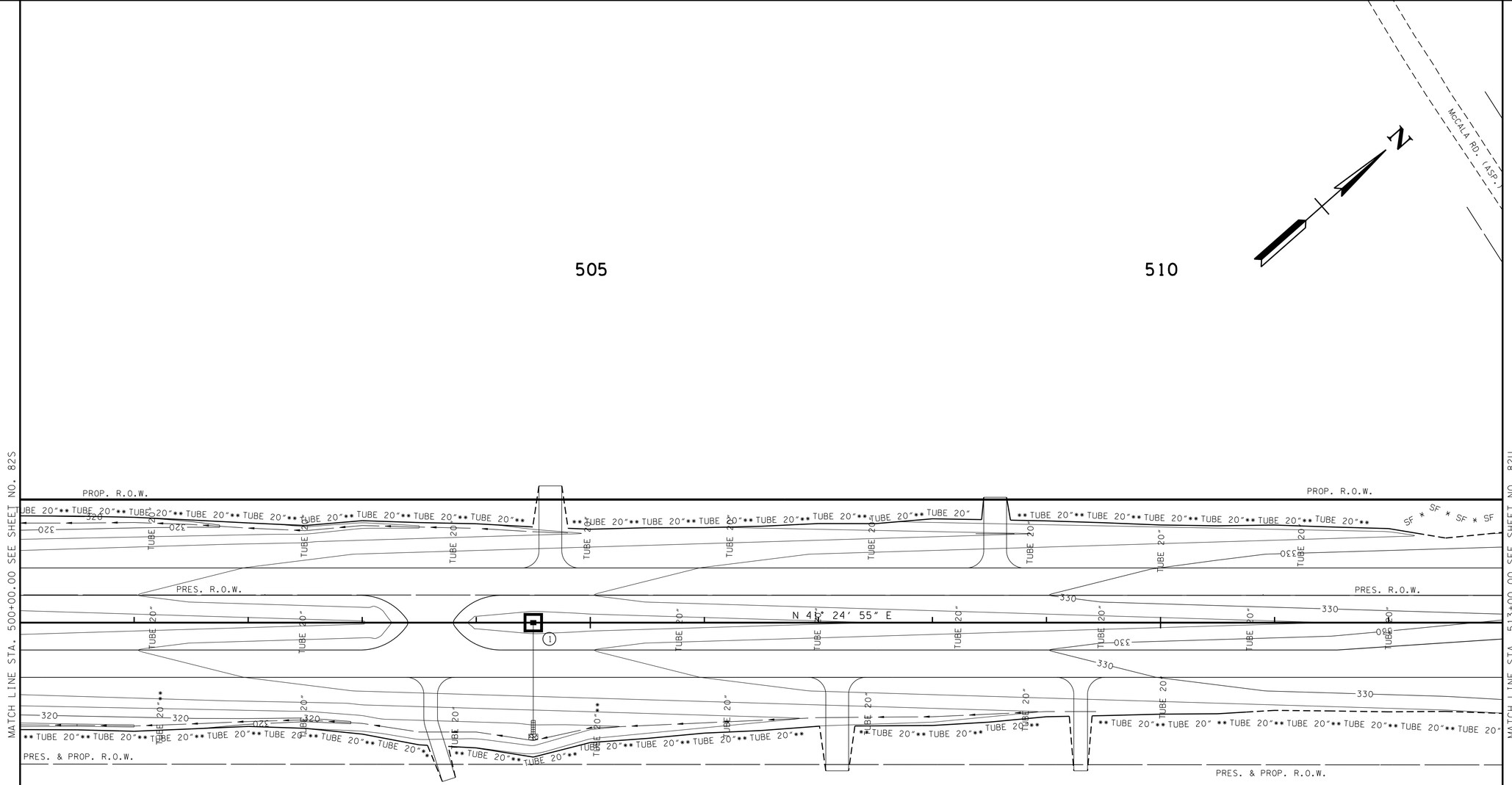
STAGE III

6/5/2018 4:49:20 AM
G:\Jobs\SH14\Const_PIN-100341-02\082S.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	100B
CONST.	2018	STP-14(63)	82T

REV. 10-02-08: REMOVED SIDE RD. AT STA. 514+60 RT., ADDED TURNAROUND, AND UPDATED PROPOSED CONTOURS.

REV. 8-20-09: ADDED FLD. ENT. STA. 507+16.50 RT. MODIFIED PVT. DR. STA. 63+13 LT. OF ROSEMARK RD. RT. TO MATCH EXISTING DRIVEWAY.



SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE III

6/5/2018 4:49:21 AM
G:\Jobs\SH14\Const_PIN-100341-02\082T.sht

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-23	14.5 (11.5 UNDISTURBED/ DIVERTED)	2
OUT-23B	0.70	2
OUT-23C	0.50	5
OUT-23D	1.10	9
OUT-23E	0.30	10
OUT-23F	0.60	7
OUT-23G	5.8 (5.7 UNDISTURBED)	1
OUT-23H	3.2 (2.6 UNDISTURBED)	1
OUT-23J	0.20	1

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-53	43.1 (32.2 UNDISTURBED/ DIVERTED)	1
OUT-53A	0.70	1
OUT-53B	2.40	2
OUT-53C	0.90	1
OUT-53D	1.50	2
OUT-53E	19.8 (19.7 UNDISTURBED)	1
OUT-53F	1.30	1
OUT-53G	10.2 (8.4 UNDISTURBED/ DIVERTED)	2
OUT-53"I"	0.20	4

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	100B
CONST.	2018	STP-14(63)	82U

REV. 10-02-08: REMOVED SIDE RD. AT STA. 514+60 RT., ADDED TURNAROUND, AND UPDATED PROPOSED CONTOURS.

REV. 8-20-09: ADDED FLD. ENT. STA. 507+16.50 RT. MODIFIED PVT. DR. STA. 63+13 LT. OF ROSEMARK RD. RT. TO MATCH EXISTING DRIVEWAY.

515

520

525

N

STA. 514+60.00 M.L.C.L.=
STA. 50+00.00 McCALA ROAD LT.
N 393776.6059
E 842902.3274

STA. 525+30.00 M.L.C.L.=
STA. 60+00.00 ROSEMARK ROAD RT.
N 394578.8818
E 843610.3198

MATCH LINE STA. 513+00.00 SEE SHEET NO. 82T

MATCH LINE STA. 526+00.00 SEE SHEET NO. 82V

OUT - 23 · OUT - 23B · OUT - 23C · OUT - 23D · OUT - 23E · OUT - 23F · OUT - 23G · OUT - 23H · OUT - 23J

OUT - 53 · OUT - 53A · OUT - 53B · OUT - 53C · OUT - 53D · OUT - 53E · OUT - 53F · OUT - 53G · OUT - 53"I"

PERM. DRAIN. ESMT.

CONST. ESMT.

WWC-12

PRES. R.O.W. · PROP. R.O.W. · PRES. & PROP. R.O.W.

S 81° 14' 19" E · N 41° 24' 55" E · N 41° 26' 47" E · S 48° 33' 13" E · S 48° 33' 09" E · S 7° 04' 03" W

TUBE 20" · TUBE 20"** · 18" RCP · 30" RCP · 30" RCP EXT. · 36" RCP · 48" RCP · 330 · 200

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

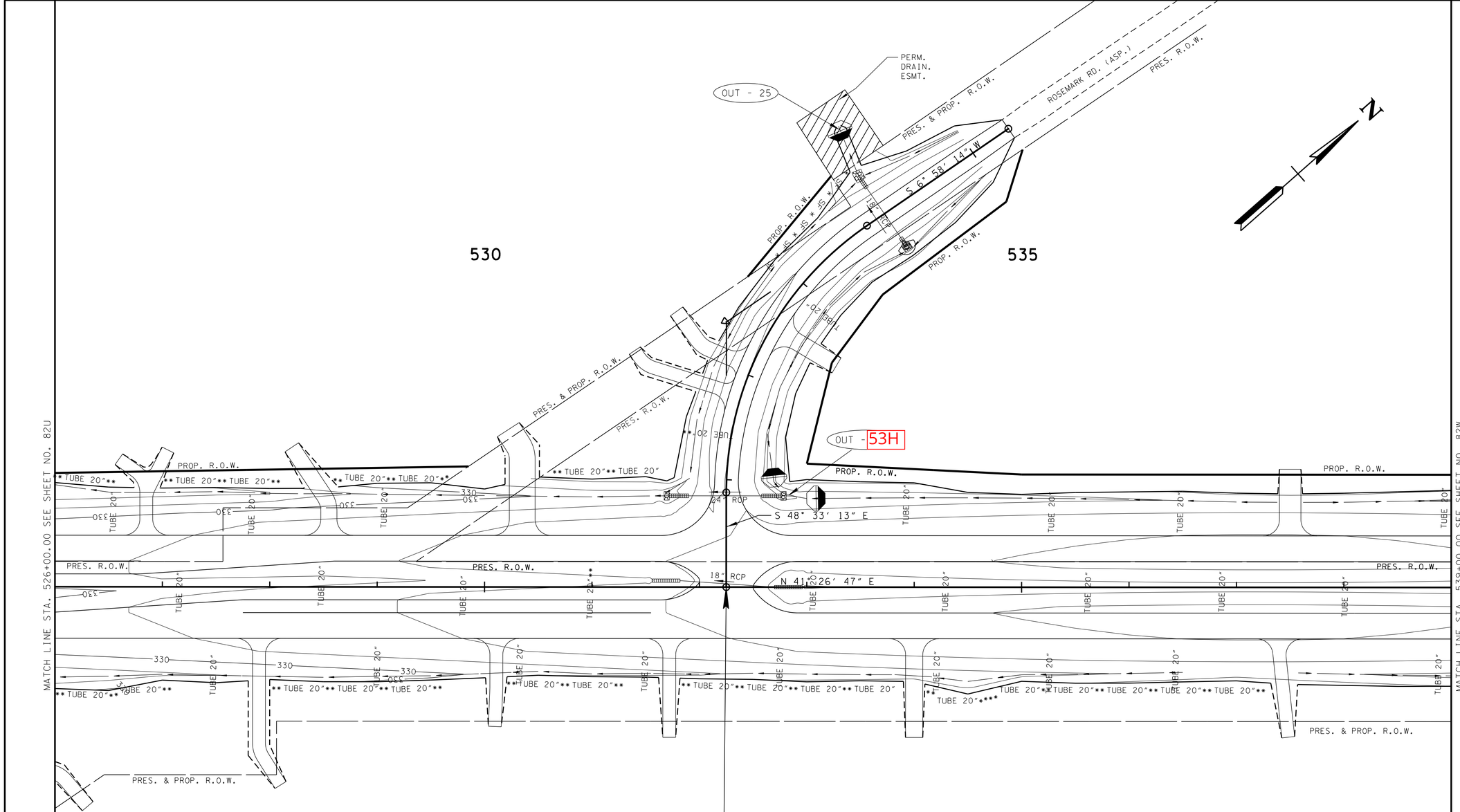
SCALE: 1"=50'

STAGE III

6/20/2018 12:34:38 PM
G:\Jobs\SH114\Const_PIN-100341-02\082U.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	101B
CONST.	2018	STP-14(63)	82V

REV. 6-03-08: ADDED PRIVATE DRIVEWAY AT STA. 76+31 LT. TO TR. 73 OFF KERRVILLE-ROSEMARK RD. LT.



STA. 532+25.00 M.L.C.L.=
STA. 70+00.00
ROSEMARK ROAD LT.
N 395099.8367
E 844070.3535

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-25	1.70	2
OUT-53H	2.0 (1.1 UNDISTURBED)	1

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

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

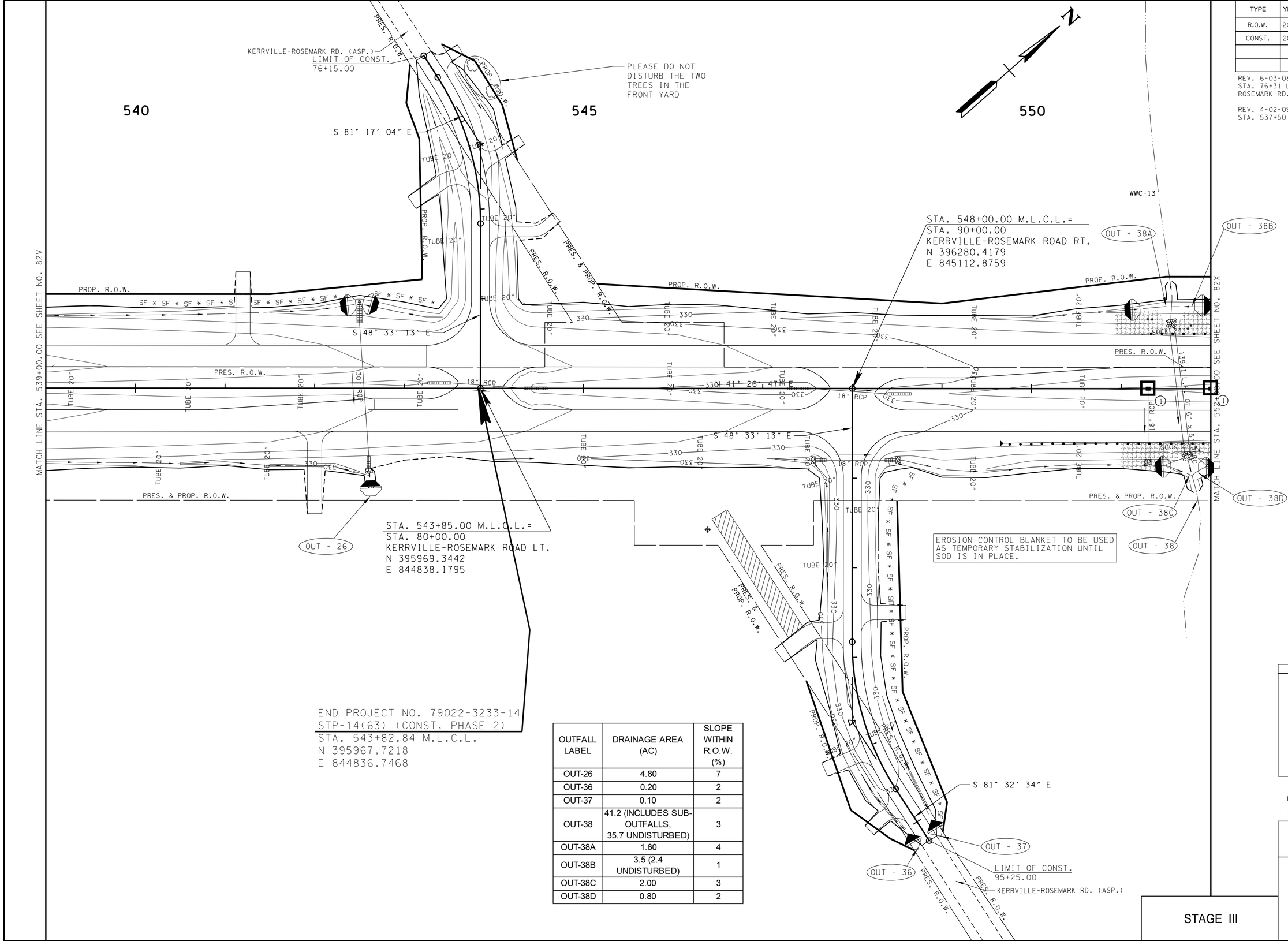
STAGE III

6/5/2018 4:49:30 AM
G:\Jobs\SH14\Const_PIN-100341-02\082V.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	101A
CONST.	2018	STP-14(63)	82W

REV. 6-03-08: ADDED PRIVATE DRIVEWAY AT STA. 76+31 LT. TO TR. 73 OFF KERRVILLE-ROSEMARK RD. LT.

REV. 4-02-09: ADDED PVT. DRIVEWAY LEFT STA. 537+50 FOR TRACT 67.



OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-26	4.80	7
OUT-36	0.20	2
OUT-37	0.10	2
OUT-38	41.2 (INCLUDES SUB-OUTFALLS, 35.7 UNDISTURBED)	3
OUT-38A	1.60	4
OUT-38B	3.5 (2.4 UNDISTURBED)	1
OUT-38C	2.00	3
OUT-38D	0.80	2

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

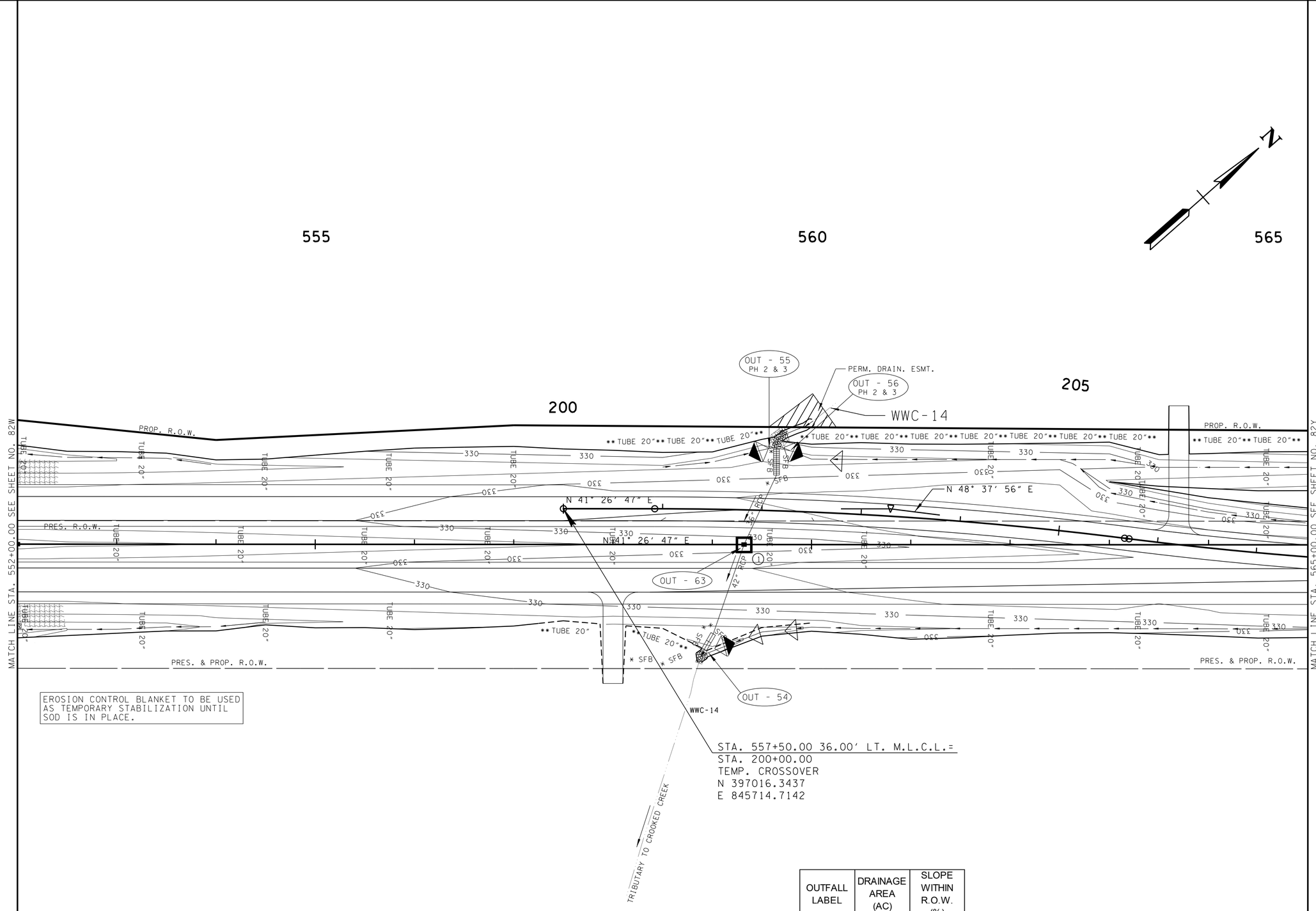
SCALE: 1"=50'

STAGE III

6/5/2018 4:49:34 AM
G:\Jobs\SH14\Const_PIN-100341-02\082W.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	102
CONST.	2018	STP-14(63)	82X

REV. 7-07-08: PLACED FIELD ENTRANCE AT STA. 563+70 TO TR. 82 OFF OF S.R. 14 (LEFT).



EROSION CONTROL BLANKET TO BE USED AS TEMPORARY STABILIZATION UNTIL SOD IS IN PLACE.

STA. 557+50.00 36.00' LT. M.L.C.L.=
STA. 200+00.00
TEMP. CROSSOVER
N 397016.3437
E 845714.7142

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-54	1.10	2
OUT-55	1.30	3
OUT-56	1.20	1
OUT-63	0.50	1

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

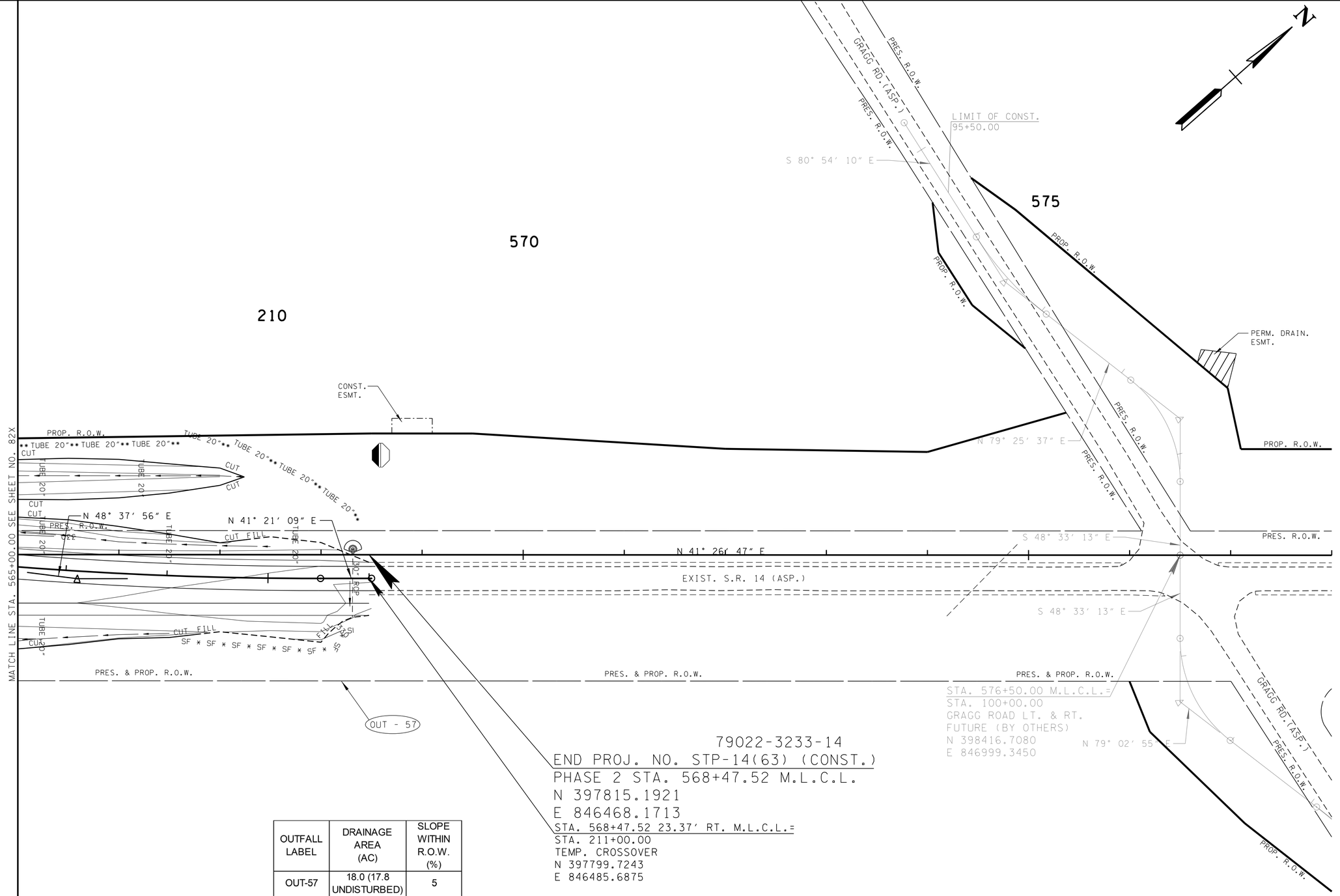
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

STAGE III

6/5/2018 4:49:37 AM
G:\Jobs\SH14\Const_PIN-100341-02\082X.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2007	STP-14(43)	102
CONST.	2018	STP-14(63)	82Y



79022-3233-14

END PROJ. NO. STP-14(63) (CONST.)
PHASE 2 STA. 568+47.52 M.L.C.L.
N 397815.1921
E 846468.1713
STA. 568+47.52 23.37′ RT. M.L.C.L.=
STA. 211+00.00
TEMP. CROSSOVER
N 397799.7243
E 846485.6875

OUTFALL LABEL	DRAINAGE AREA (AC)	SLOPE WITHIN R.O.W. (%)
OUT-57	18.0 (17.8 UNDISTURBED)	5

SEALED BY

UNOFFICIAL SET
NOT FOR BIDDING

COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.00003 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

STAGE III

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS

SCALE: 1"=50'

6/5/2018 4:49:39 AM
G:\Jobs\SH14\Const_PIN-100341-02\082Y.sht