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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	57201-0140-44	
CONST.	2017	NH-I-40-1(348)	S-1

SWPPP INDEX OF SHEETS

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

1. SWPPP REQUIREMENTS (3.0)

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

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

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

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

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

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

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

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

☒ YES (CHECK ALL THAT APPLY BELOW) ☐ NO

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

2. SITE DESCRIPTION (3.5.1)

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

2.2. PROJECT DESCRIPTION (3.5.1.a):

TITLE: I-40 WIDENING FROM WEST OF S.R. 186(U.S. 45 BYPASS) TO EAST OF
S.R. 5(NORTH HIGHLAND AVE) (INCLUDES INTERCHANGES AT S.R. 186 (U.S. 45 BYPASS) AND S.R. 5 (NORTH HIGHLAND AVE))
COUNTY: MADISON
PIN: 114149.02

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) 58-59S, DRAINAGE MAP SHEET(S) 47-50, 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): 162 ACRES

2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 124.8 ACRES

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

2.9. ARE THERE ANY SEASONAL LIMITATIONS ON WORK? ☐ YES ☒ NO

IF YES, LIST THE CORRESPONDING PLAN SHEET: _____

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

☐ YES _____ (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)
Co–Calloway Silt Loam	D	1.3	0.49
Cs–Collins silt Loam	B	4.0	0.55
GrB–Grenada Silt Loam	D	9.9	0.55
LeC–Lexington Silt Loam	B	20	0.43
LgC–Lexington-Urban Land Complex	B	48.3	0.43
LoB–Loring Silt Loam	C	6.6	0.49
LoC3–Loring Silt Loam, severely eroded	D	1.3	0.55
MeB–Memphis Silt Loam	B	8.6	0.49

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	41.5	26	98	
PERVIOUS	120.5	74	64	
WEIGHTED CURVE NUMBER OR C-FACTOR =			73	

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS

AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	59.9	37	98	
PERVIOUS	102.1	63	77	
WEIGHTED CURVE NUMBER OR C-FACTOR =			85	

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 1B, 2C2, & 57)

3.2. INSTALL STABILIZED CONSTRUCTION EXITS.

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

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

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

3.6. REMOVE AND STORE TOPSOIL.

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

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

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

3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.

3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.

3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.

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

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

3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

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

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

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

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

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

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

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

TENNESSEE D.O.T.
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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 TRIBS TO SOUTH FORK FORKED DEER RIVER	NO	NO	NO	NO
STR-2	MISC TRIBS TO SOUTH FORK FORKED DEER RIVER	NO	NO	YES	YES
STR-3	MISC TRIBS TO SOUTH FORK FORKED DEER RIVER	NO	NO	YES	YES
STR-4	MISC TRIBS TO SOUTH FORK FORKED DEER RIVER	NO	NO	YES	YES
STR-5	MOIZE CREEK	YES	NO	YES	YES

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

☐ YES ☒ NO

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

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

IF YES, CHECK THE APPROPRIATE BOX BELOW FOR SIZE OF BUFFER.

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

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

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

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

4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (9.0)

☒ YES ☐ NO

4.1.6. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) ☐ YES ☒ NO

IF YES, EXISTING CONDITIONS DESCRIPTION:_____

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

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

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

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

WILL CONSTRUCTION AND/OR EROSION AND SEDIMENT CONTROLS IMPACT ANY WOTUS (EPHEMERAL)? ☐ YES ☒ NO

RECEIVING WOTUS (EPHEMERAL) INFORMATION		
TDOT WOTUS LABEL	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN 15-FT OF THE PROJECT LIMITS (YES OR NO)
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 SHEETS S-8-S-13 FOR OUTFALL INFORMATION.

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

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

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

☒ YES ☐ NO ☐ N/A

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

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

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

OR

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

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

4.4. WETLAND INFORMATION

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

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

WETLAND INFORMATION				
TDOT WETLAND LABEL	FROM STATION LT OR RT	TO STATION LT OR RT	TEMPORARY IMPACTS (AC)	PERMANENT IMPACTS (AC)
WTL-7	171+00 RT I-40	171+75 RT I-40	0.000	0.060
WTL-8	169+50 LT I-40	171+50 LT I-40	0.000	0.115
WTL-9	770+00 LT RAMP M & 200+00 RT I-40	772+00 LT RAMP M/ 201+50 RT I-40	0.000	0.083
WTL-10	917+00 RT RAMP T& 295+90 RT I-40	918+00 RT RAMP T & 296+90 RT I-40	0.000	0.029

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

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

☐YES ☒ NO

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

☐ YES ☐ NO

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

☐ YES ☐ NO

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

☐ YES ☐ NO

4.6. ECOLOGY INFORMATION (3.5.5.e)

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

☒ YES ☐ NO

IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) 2D & 57.

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)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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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, 57A 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, 57A (3.5.3.1.n).

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

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

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

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

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

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

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

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

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

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

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

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

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

6. FLOCCULANTS (3.5.3.1.b)

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

IF YES, THE FOLLOWING NOTES APPLY:

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

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

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

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

6.1.4. PAM MIXTURES SHALL BE NON-COMBUSTIBLE.

6.1.5. PAM SHALL CONTAIN ONLY MANUFACTURER-RECOMMENDED ADDITIVES.

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

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

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

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

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

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

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

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	57201-0140-44	
CONST.	2017	NH-I-40-1(348)	6-4

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? ☐ YES ☒ NO

IF YES, THE FOLLOWING APPLY:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8. MAINTENANCE AND INSPECTION

8.1. INSPECTION PRACTICES (3.5.8)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)

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

8.3. MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)

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

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

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

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

8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR’S OWN EXPENSE.

8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (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

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USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (3.5.3.1.f).

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

9. SITE ASSESSMENTS (3.1.2)

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

10. STORMWATER MANAGEMENT (3.5.4)

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

10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (3.5.4): SOD AND EROSION CONTROL BLANKET WILL BE USED AS DITCH LINING. RIPRAP WILL BE INSTALLED ON SLOPES AND AT CULVERT OUTLETS TO INTERCEPT ANY POLLUTANTS AND/OR TO SLOW STORMWATER VELOCITIES TO CONTROL POTENTIAL EROSION.

10.3. OTHER ITEMS NEEDING CONTROL (3.5.5)

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

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

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

10.4. WASTE MATERIALS (3.5.5.b)

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

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

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

10.6. SANITARY WASTE (3.5.5.b)

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

10.7. OTHER MATERIALS

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

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

THESE MATERIALS WILL BE HANDLED AS NOTED IN THIS SWPPP.

11. NON-STORMWATER DISCHARGES (3.5.9)

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

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

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

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

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

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

☐ YES ☒ NO

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

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

12.1. SPILL PREVENTION (3.5.5.c)

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

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

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

12.2. MATERIAL MANAGEMENT

12.2.1. HOUSEKEEPING

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

12.2.2. HAZARDOUS MATERIALS

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

12.3. PRODUCT SPECIFIC PRACTICES

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

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

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

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

12.4. SPILL MANAGEMENT

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

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

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

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

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

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

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

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

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

12.5. SPILL NOTIFICATION (5.1)

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

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

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

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

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

13. RECORD-KEEPING

13.1. REQUIRED RECORDS

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

13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.

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

13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.

13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.

13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.

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

13.1.7. COPY OF REQUIRED SOIL ANALYSIS

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

13.2. RAINFALL MONITORING PLAN (3.5.3.1.o):

13.2.1. EQUIPMENT

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

13.2.2. LOCATION

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

13.2.3. METHODS

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

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

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

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

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

13.3. KEEPING PLANS CURRENT (3.4)

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

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

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

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

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

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

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

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

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

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

13.4. MAKING PLANS ACCESSIBLE

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

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

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

13.4.2.2. THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF

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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.

John L. Hewitt

AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

PRINTED NAME

TITLE

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.

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	57201-0140-44	
CONST.	2017	NH-I-40-1(348)	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	11		158+10.00 RT	1.88	1.62	1.62		N/A	MS4	
1-2	12		158+00.00 LT	2.05	0.91	0.91		N/A	MS4	
1	13A		169+50.00 LT	0.58	0.97			N/A	WTL-8	
1	13B		170+50.00 LT	3.46	1.95			N/A	STR-2	
1	13C		170+51.50 CL	2.67	0.70			N/A	STR-2	
1	13D		170+78.83 RT	10.17	0.39			N/A	STR-2	
2	13E		169+61.21 LT	3.96		0.95		N/A	WWC-5	
2	13F		170+39.00 LT	0.44		1.14		N/A	WTL-8	
2-3	13G		170+51.50 CL	0.54		0.42	0.42	N/A	STR-2	
2-3	13H		167+00.00 CL	0.54		0.26	0.26	N/A	STR-2	
1	14		185+64.90 RT	1.91	2.44			N/A	STR-3	
1-2	14A		186+30.00 RT	4.60	2.40	2.40		N/A	WWC-3/STR-3	
1	14B		186+74.41 LT	0.99	3.35			N/A	STR-3	
2	14C		185+70.00 RT	0.60		2.97		N/A	STR-3	
2	14D		186+74.47 LT	0.59		2.82		N/A	WWC-4	
2-3	14E		186+52.00 CL	3.23		0.08	0.08	N/A	MS4	
2-3	14F		184+70.00 CL	3.23		0.22	0.22	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	14G		183+20.00 CL	3.23		0.18	0.18	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	14H		182+92.60 CL	1.32		0.07	0.07	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	14I		182+70.00 CL	0.59		0.20	0.20	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	14J		181+00.00 CL	0.59		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	14K		179+00.00 CL	0.59		0.36	0.36	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	14L		176+00.00 CL	0.57		0.36	0.36	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	14M		173+00.00 CL	0.54		0.30	0.30	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	14N		187+15.00 CL	3.23		0.36	0.36	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	14P		190+15.00 CL	3.23		0.36	0.36	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	14Q		193+15.00 CL	0.34		0.37	0.37	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1-2	15		191+79.57 LT	3.22	2.87	2.87		N/A	WWC-7	
1-2	16		196+59.67LT	4.01	1.75	1.75	1.75	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1-3	16A		196+40.00 CL	0.34	0.93	0.93	0.93	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1-3	16B		196+19.87RT	1.02	1.74	1.74	1.74	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1-3	16C		766+22.66 RT RAMP M	0.91	0.19	0.19	0.19	N/A	MS4	
2-3	16D		198+40.00 CL	0.34		0.36	0.36	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	17		651+08.74 RT RAMP G	8.48	3.26			N/A	MS4	
1	17A		201+55.00 RT	13.66	2.90			N/A	MS4	
1	17B		415+69.41 LT S.R. 186	2.47	0.50			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	

STATE OF TENNESSEE
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FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	57201-0140-44	
CONST.	2017	NH-I-40-1(348)	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
1	17C		416+00 RT S.R. 186	2.47	0.30			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	17D		204+20.00 RT	2.06	0.16			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	17E		204+95.37 RT	2.82	2.76			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	17F		205+47.03 LT	8.44	2.96			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	17G		207+20.53 LT	2.74	1.80			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17H		199+20.00 RT	0.34		0.46	0.46	N/A	MS4	
2-3	17I		201+70.00 RT	0.34		0.95	0.95	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17J		204+50.00 RT	0.65		0.27	0.27	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17K		205+99.10 RT	2.22		0.92	0.92	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17L		206+66.21 RT	2.55		0.70	0.70	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17M		201+40.00 CL	0.34		0.36	0.36	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17N		204+50.00 CL	0.34		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17P		206+40.00 CL	2.55		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17Q		208+40.00 CL	2.55		0.39	0.39	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17R		199+76.42 LT	4.84		0.47	0.47	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17S		200+51.32 LT	5.09		1.43	1.43	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17T		205+85.00 LT	3.69		1.21	1.21	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	17U		205+00.00 LT	7.35		1.71	1.71	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	18		411+35.43 LT S.R. 186	3.69	0.85			N/A	MS4	
1	18A		410+46.16 RT S.R. 186	3.81	1.61			N/A	MS4	
2-3	18B		410+50.00 LT SR-186	0.75		0.18	0.18	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	18C		411+32.49 RT SR-186	1.41		0.33	0.33	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	19		742+62.55 LT RAMP L	2.99	1.85			N/A	WWC-8	
1	20		698+00.00 RT RAMP K	3.66	0.82			N/A	WWC-8	
2-3	20A		211+69.00 CL	2.55		0.26	0.26	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	20B		214+00.00 CL	2.55		0.32	0.32	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2	20C		674+05.41 RT RAMP H	3.39		1.22		N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1-2	21		216+57.95 RT	4.37	0.46			N/A	WWC-9	
1	21A		216+58.10 CL	1.19	1.53			N/A	WWC-9	
1	21B		217+03.53 LT	0.41	0.73			N/A	WWC-9	
2	21C		217+05.00 LT	0.83		0.82		N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	21D		216+28.13 CL	1.39		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	21E		218+56.00 CL	1.39		0.46	0.46	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	21F		222+40.00 CL	1.39		0.48	0.48	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	21G		226+40.00 CL	1.39		0.32	0.32	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	22		220+35.75 RT	3.06	2.06			N/A	WWC-10	
1	22A		221+00.00 LT	1.78	2.29			N/A	WWC-10	
2-3	22B		220+91.18 LT	2.45		1.51	1.51	N/A	WWC-10	

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P.E.	2017	57201-0140-44	
CONST.	2017	NH-I-40-1(348)	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
1	23		241+30.00 RT	1.53	3.80			N/A	STR-4	
2-3	23A		242+37.00 CL	0.70		2.08	2.08	N/A	STR-4	
1	23B		242+70.16 LT	4.11	1.36			N/A	STR-4	
2-3	23C		240+40.00 CL	0.70		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	23D		238+40.00 CL	0.70		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	23E		236+40.00 CL	0.70		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	23F		234+40.00 CL	0.70		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	23G		232+40.00 CL	0.70		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	23H		230+40.00 CL	0.70		0.15	0.15	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2	23I		241+67.38 RT	1.53		3.80		N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	24		248+9.54 RT	1.36	1.66			N/A	WWC-11	
1	24A		248+43.71 RT	1.19	1.15			N/A	WWC-11	
1	24B		248+31.60 CL	0.70	1.29			N/A	MS4	
1	24C		248+5.09 LT	2.56	1.33			N/A	MS4	
1	24D		248+59.38 LT	3.62	0.67			N/A	MS4	
2-3	24E		248+31.60 CL	0.70		0.07	0.07	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	24F		248+07.00 CL	0.70		0.21	0.21	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	24G		247+57.50 CL	0.70		0.23	0.23	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	24H		244+35.00 CL	0.70		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	24I		248+57.00 CL	0.35		0.11	0.11	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	24J		240+50.00 CL	0.35		0.15	0.15	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	24K		250+75.00 CL	0.35		0.15	0.15	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	24L		252+00.00 CL	0.35		0.14	0.14	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2	24M		247+57.50 CL	1.36		1.66		N/A	WWC-11	
2	24N		248+61.54 LT	1.19		1.15		N/A	WWC-11	
2	24P		248+10.00 LT	2.56		1.33		N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2	24Q		248+60.00 LT	3.62		0.67		N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	25		253.6.34 RT	0.68	3.81			N/A	WWC-12	
1-3	25A		253+17.00 CL	0.35	2.66	2.66	2.66	N/A	MS4	
2-3	25B		254+42.00 CL	0.35		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	25C		256+42.00 CL	0.35		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	25D		258+42.00 CL	0.35		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	25E		260+42.00 CL	0.35		0.25	0.25	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	25F		262+50.00 CL	0.35		0.23	0.23	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	25G		264+42.00 CL	0.26		0.24	0.24	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	25H		266+42.00 CL	0.26		0.25	0.25	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	25I		268+50.00 CL	0.26		0.22	0.22	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1-2	26		956+81.26 RT RAMP V	1.13	4.69	4.69		N/A	STR-5	
1-2	26A		956+34.10 RT RAMP V	1.21	3.74	3.74		N/A	STR-5	

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P.E.	2017	57201-0140-44	
CONST.	2017	NH-I-40-1(348)	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
1-3	26B		271+70.00 CL	2.93	1.03	1.03	1.03	N/A	STR-5	
2-3	26C		274+50.00 CL	2.93		0.36	0.36	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	26D		277+50.00 CL	2.93		0.59	0.59	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	26E		270+30.00 CL	2.93		0.17	0.17	N/A	MS4	
2-3	26F		955+80.00 RT RAMP V	2.73		1.13	1.13	N/A	STR-5	
1	27		961+11.05 RT RAMP V	5.11	1.86			N/A	MS4	
1-3	28		807+45.00 RT RAMP P	2.90	2.20	2.20	2.20	N/A	MS4	
1-2	29		801+50.28 RT RAMP P	2.95	0.73	0.73		N/A	MS4	
1-2	29A		801+94.71 RT RAMP 9	3.53	2.91	2.91		N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	29B		870+34.21 RT RAMP R	2.91	2.91			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	29C		869+10.52 RAMP R	6.54	3.04			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	29D		553+69.00 LT SR-5	0.76		0.15	0.15	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	29E		554+46.00 LT SR-5	0.76		0.12	0.12	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	29F		553+47.00 RT SR-5	0.76		0.15	0.15	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	29G		554+47.00 RT SR-5	0.76		0.13	0.13	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	29H		554+54.86 RT SR-5	3.58		0.52	0.52	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	29I		868+50.00 RT RAMP R	3.06		1.99	1.99	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1-2	30		556+29.35 RT S.R. 5	0.41	1.29	1.29		N/A	WWC-16	
1	31		539+15.70 LT S.R. 5	0.89	0.11			N/A	MS4	
1	31A		541+19.65 LT S.R. 5	1.10	1.27			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	31B		545+30.92 RT S.R. 5	5.38	0.82			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	31C		965+50.00 RT RAMP V	10.21	2.25			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	31D		902+22.41 RT RAMP T	7.42	2.49			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	31E		281+78.76 CL	0.48	1.35			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	31F		545+35.06 LT S.R. 5	3.82	0.85			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1-3	31G		904+89.80 RT RAMP T	2.29	1.14	1.14	1.14	N/A	MS4	
1-3	31H		904+90.99 RT RAMP T	2.52	1.94	1.94	1.94	N/A	MS4	
1	32		694+08.00 LT	3.57	0.27			N/A	MS4	
1	32A		539+50.00 RT S.R. 5	4.10	0.82			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	32B		540+50.00 RT S.R. 5	4.62	0.47			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	32C		541+00.00 RT S.R. 5	2.17	1.04			N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
1	33		866+58.36 RT RAMP R	2.32	2.17			N/A	WWC-16	
1-2	34		912+40.83 RT RAMP T	1.26	1.34	1.34		N/A	WWC-15	
1-3	34A		291+29.00 CL	0.44	1.45	1.45	1.45	N/A	WWC-15	
1	34B		291+28.56 LT	0.57	4.15			N/A	WWC-15	
2-3	34C		293+35.00 CL	0.44		0.25	0.25	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	34D		295+40.00 CL	0.54		0.25	0.25	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	34E		297+29.07 CL	0.55		0.25	0.25	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	

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DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	57201-0140-44	
CONST.	2017	NH-I-40-1(348)	S-12

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	34F		299+50.00 CL	0.55		0.30	0.30	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35		540+20.00 LT SR-5	0.83		0.30	0.30	N/A	MS4	
2-3	35A		540+35.00 LT SR-5	0.90		0.10	0.10	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35B		540+47.00 LT SR-5	0.90		0.16	0.16	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35C		541+25.00 LT SR-5	0.90		0.15	0.15	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35D		542+50.00 LT SR-5	0.90		0.16	0.16	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35E		543+50.00 LT SR-5	0.90		0.16	0.16	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35F		544+50.00 LT SR-5	0.90		0.14	0.14	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35G		545+80.00 LT SR-5	0.90		0.81	0.81	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35H		547+44.00 LT SR-5	0.67		0.12	0.12	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35I		548+33.00 LT SR-5	0.67		0.11	0.11	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35J		985+31.65 RT RAMP W	0.12		0.26	0.26	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35K		549+09.75 LT SR-5	0.62		0.49	0.49	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35L		549+85.00 LT SR-5	1.04		0.18	0.18	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35M		550+00.00 LT SR-5	1.56		0.09	0.09	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35N		549+95.00 LT SR-5	2.63		0.20	0.20	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35P		550+15.00 LT SR-5	1.56		0.13	0.13	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35Q		550+57.55 RT SR-5	0.81		0.57	0.57	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35R		551+20.00 LT SR-5	1.56		0.15	0.15	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35T		833+55.00 RT RAMP Q	2.41		0.22	0.22	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	35U		552+47.00 LT SR-5	0.76		0.12	0.12	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36		540+20.00 RT SR-5	1.46		0.07	0.07	N/A	MS4	
2-3	36A		540+35.00 RT SR-5	1.12		0.13	0.13	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36B		540+67.00 RT SR-5	1.37		0.12	0.12	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36C		541+50.00 RT SR-5	1.44		0.15	0.15	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36D		542+50.00 RT SR-5	1.30		0.16	0.16	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36E		543+50.00 RT SR-5	1.25		0.17	0.17	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36F		544+50.00 RT SR-5	1.27		0.21	0.21	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36G		545+80.00 RT SR-5	0.89		0.35	0.35	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36H		547+47.00RT SR-5	2.02		0.01	0.01	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36K		902+50.00 RT RAMP T	6.8		0.74	0.74	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36L		932+94.22 LT RAMP U	3.85		0.34	0.34	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36M		283+84.46 RT	3.85		1.17	1.17	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36N		282+44.00 CL	0.30		0.13	0.13	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36P		284+69.00 CL	0.44		0.13	0.13	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36Q		284+95.5 CL	0.44		0.07	0.07	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36R		285+19.00 CL	0.44		0.23	0.23	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STORMWATER POLLUTION PREVENTION PLAN

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
P.E.	2017	57201-0140-44	
CONST.	2017	NH-I-40-1(348)	S-13

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	36S		287+10.00 CL	0.44		0.25	0.25	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36T		289+20.00 CL	0.44		0.25	0.25	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36U		548+57.00 RT SR-5	0.67		0.13	0.13	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36V		548+55.00 RT SR-5	0.66		0.22	0.22	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36X		549+36.29 RT SR-5	3.69		1.11	1.11	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36Y		549+72.00 RT SR-5	1.04		0.16	0.16	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36Z		550+00.00 RT SR-5	1.56		0.10	0.10	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36AA		550+05.00 RT SR-5	3.85		0.23	0.23	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36BB		550+20.00 RT SR-5	1.56		0.16	0.16	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36CC		551+48.00 RT SR-5	1.56		0.25	0.25	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36DD		5551+51.40 RT SR-5	1.57		0.15	0.15	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	36EE		550+76.88 RT SR-5	2.75		0.89	0.89	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	38H		155+50.00 RT	2.10		0.81	0.81	N/A	MS4	
2-3	38I		158+00.00 CL	2.35		0.36	0.36	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	38J		161+00.00 CL	1.45		0.36	0.36	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	
2-3	38K		164+00.00 CL	0.54		0.09	0.09	N/A	CLOSED STORMWATER DRAINAGE SYSTEM	

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

TENN.	YEAR	SHEET NO.
	2016	1
FED. AID PROJ. NO.	NH-I-40-2(331)	
STATE PROJ. NO.	57201-2140-44	

REVISION 02/02/2017
ADDED SHEET 2NN TO INDEX

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

MADISON COUNTY

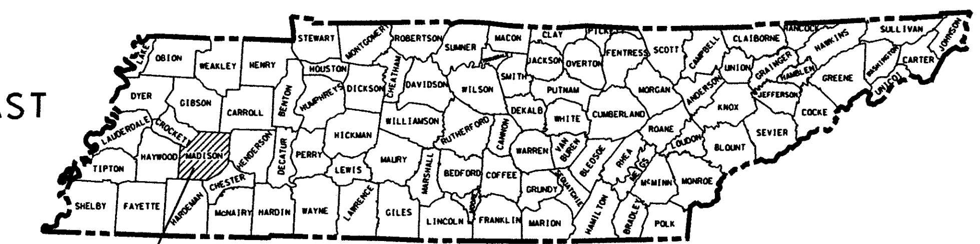
I-40 WIDENING, FROM WEST OF S.R. 20(U.S.-412) TO EAST OF S.R.-5(U.S. 45) (INCLUDES INTERCHANGES AT U.S.-45 BYPASS AND U.S.-45)

RIGHT-OF-WAY PLANS

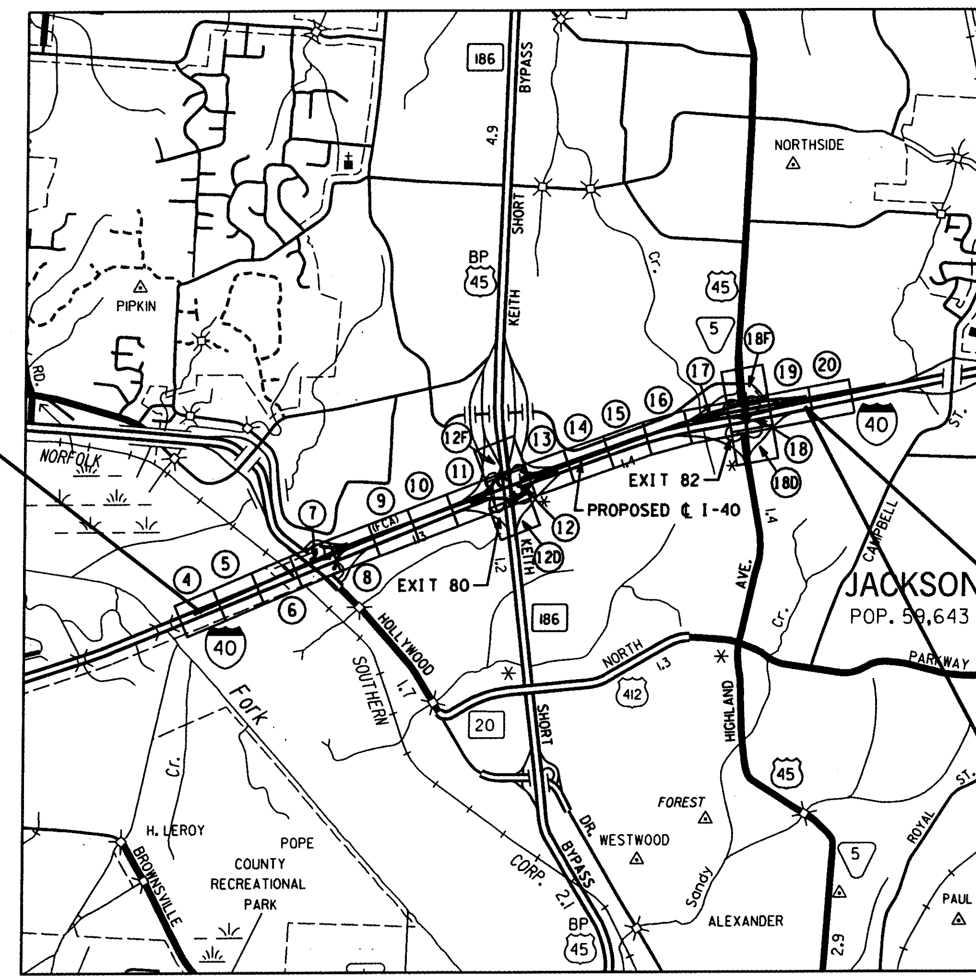
STATE HIGHWAY NO. N/A F.A.I.S. NO. I-40

Index Of Sheets (R.O.W.)

SHEET 51 NOT USED
LETTER "I" AND "O" NOT USED IN SHEET NUMBERING.



MADISON COUNTY
PROJECT NO. 57201-1140-44



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SCALE: 1" = 3,000'

0 3000 6000 9000

(R.O.W.)
BEGIN PROJECT NO. NH-I-40-2(331)
I-40 STA. 99+49.24 S.P. 57201-2140-44
N 492780.3592
E 1111242.4448
(MILE MARKER 78.38±)

(R.O.W.)
END PROJECT NO. NH-I-40-2(331)
I-40 STA. 300+00.00 S.P. 57201-2140-44
N 499346.0530
E 1130123.3008
(MILE MARKER 82.18±)

FUTURE ADJACENT PROJECT (BY OTHERS)
NH-I-40-2(337)
S.P. 57201-0143-44

R.O.W. PLANS (UTILITIES ONLY)

NO EXCLUSIONS
NO EQUATIONS

SEALED BY

APPROVED:
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, 2016 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

C.E. MANAGER 2 GARY SCRUGGS, P.E.
DESIGNED BY GRESHAM, SMITH AND PARTNERS
DESIGNER JONATHAN D. HAYCRAFT, P.E. CHECKED BY BUDDY SHERRILL

P.E. NO. 57201-2140-44

PIN NO. 114149.00

ROADWAY LENGTH	3.675 MILES
BRIDGE LENGTH	0.123 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	3.798 MILES

SURVEY COMPLETED MAY 2013

TRAFFIC DATA

	I-40	S.R. 20	S.R. 186	S.R. 5
ADT (2016)	53,700	19,060	44,670	42,260
ADT (2036)	71,920	26,120	47,000	48,130
DHV (2036)	5,745	2,818	4,432	4,672
D	50-50	55-45	55-45	60-40
T (ADT)	23	16	5	3
T (DHV)	15	11	3	2
V	70	40	55	55

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

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Index Of Sheets
SEE SHEET NO. 1A

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

TENN.	YEAR	SHEET NO.
	2017	1
FED. AID PROJ. NO.	NH-I-40-1(348)	
STATE PROJ. NO.	57201-3149-44	

REV. 02/02/2017
ADDED SHEET 2NN TO INDEX

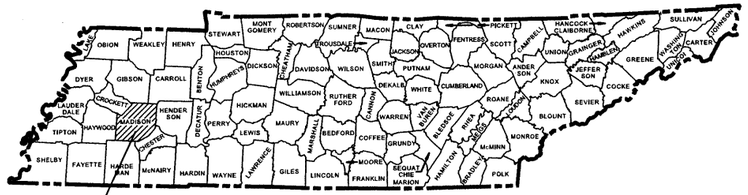
MADISON COUNTY

I-40 WIDENING, FROM WEST OF S.R. 186(U.S. 45 BYPASS)
TO EAST OF S.R.5(NORTH HIGHLAND AVE.) (INCLUDES INTERCHANGES
AT S.R. 186(U.S.45 BYPASS) AND S.R. 5(NORTH HIGHLAND AVE.))

CONSTRUCTION

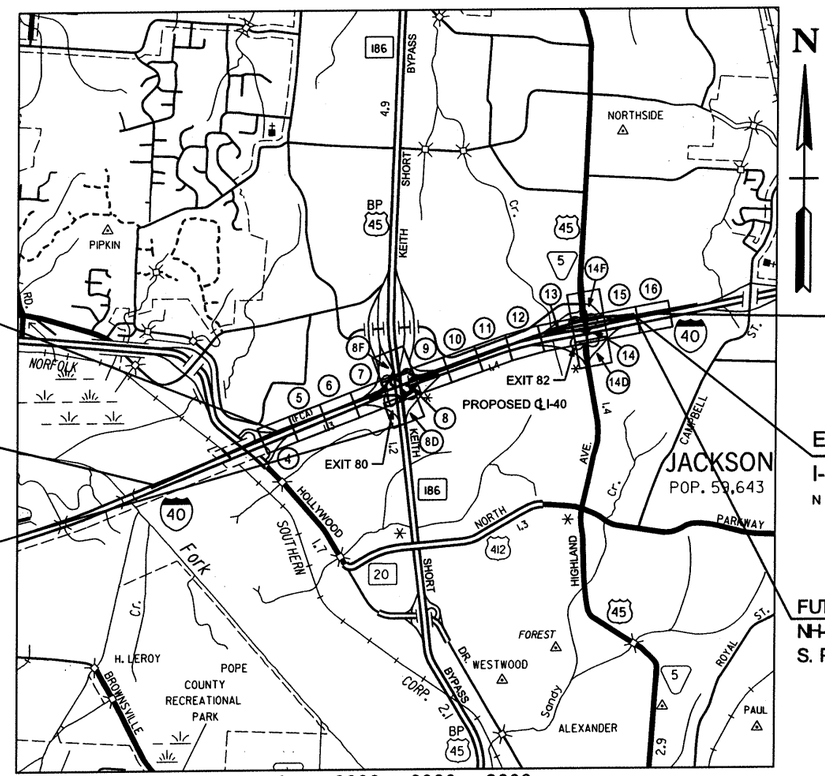
GRADE, DRAIN, PAVING, BRIDGE, SIGNALS, ITS, SIGNS, LIGHTING,
STRIPING, GUARDRAIL, WALLS, PAVEMENT MARKINGS

STATE HIGHWAY NO. I-40 F.A.H.S. NO. I-40



MADISON COUNTY
PROJECT NO. 57201-3149-44
BR. I.D. # 57100400025
BR. I.D. # 57100400027

NO EXCLUSIONS
NO EQUATIONS



SCALE: 1"= 3,000'

NOTE: TRAVEL WIDTH
RESTRICTION ON I-40 = 22'
DURING CONSTRUCTION

57201-3149-44
BEGIN PROJECT NO. NH-I-40-1(348) CONSTRUCTION
I-40 STA. 151+50.00
N 494875.2667 E 1116002.5659 (MILE MARKER 79.20±)

57201-2140-44
BEGIN PROJECT NO. NH-I-40-2(331) R.O.W.
I-40 STA. 99+49.24
N 492780.3592 E 1111242.4448 (MILE MARKER 78.38±)

57009-2264-14
ADJACENT PROJECT NO. NH-186-(15)
S.R. 186 STA. 112+00.00
N 495597.8628 E 1120995.6317

57201-3149-44
END PROJECT NO. NH-I-40-1(348) CONSTRUCTION
I-40 STA. 304+20.00
N 499420.2624 E 1130536.6929 (MILE MARKER 82.10±)

57201-2140-44
END PROJECT NO. NH-I-40-2(331) R.O.W.
I-40 STA. 300+00.00
N 499346.0530 E 1130123.3008 (MILE MARKER 82.18±)

FUTURE ADJACENT PROJECT (BY OTHERS)
NH-I-40-2(337)
S.P. 57201-0143-44

SEALED BY
CODY G. CREWS
No. 116544
STATE OF TENNESSEE
06/06/2017

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

APPROVED:
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

PROPOSALS MAY BE REJECTED BY THE COMMISSIONER IF ANY OF THE UNIT PRICES CONTAINED THEREIN ARE OBVIOUSLY UNBALANCED, EITHER EXCESSIVE OR BELOW THE REASONABLE COST ANALYSIS VALUE.

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

TDOT C.E. MANAGER 1 OR
TDOT TRANSPORTATION MANAGER 1 : SETH M. HENDREN, P.E.
DESIGNED BY : GRESHAM, SMITH AND PARTNERS
DESIGNER : CODY CREWS, P.E. CHECKED BY DANIEL WALTON, P.E.
P.E. NO. 57201-2140-44 (DESIGN)
PIN NO. 114149.02

ROADWAY LENGTH	2.769 MILES
BRIDGE LENGTH	0.123 MILES
BOX BRIDGE LENGTH	0.000 MILES
PROJECT LENGTH	2.892 MILES

SURVEY COMPLETED MAY 2013

TRAFFIC DATA

	I-40	S.R. 186	S.R. 5
ADT (2018)	52,930	49,590	38,580
ADT (2038)	70,030	53,500	44,230
DHV (2038)	5,479	5,044	4,248
D	55-45	55-45	55-45
T (ADT)	27	4	5
T (DHV)	18	3	3
V	70	55	40

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:
DIVISION ADMINISTRATOR DATE

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-I-40-1(348)	1A

ROADWAY INDEX

NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED IN NUMBERING OF SHEETS. SHEETS 68-69, 80,81, 83 NOT USED.

STANDARD ROADWAY DRAWINGS

STANDARD STRUCTURES DRAWINGS

DWG.	REV.	DESCRIPTION
STD-1-1SS	05-01-14	BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET
STD-1-7	08-24-11	BRIDGE END DRAIN W/PABE
STD-8-2	11-01-10	LIGHT STANDARD SUPPORT DETAILS
STD-10-1	04-08-05	MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS
STD-17-11		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-13		WINGWALL DIMENSIONS AND QUANTITIES
STD-17-52		BOX BRIDGE, 1 BARREL AT 8', CLEAR HTS. 3' – 5', 0 – 60' FILL
STD-17-55		BOX BRIDGE, 1 BARREL AT 10', CLEAR HTS. 7' – 10', 0 – 60' FILL

ROADWAY DESIGN STANDARDS

DWG.	REV.	DESCRIPTION
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	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	04-15-04	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD01-TS-2B	10-15-02	DESIGN STANDARDS 4 AND 6 LANE COLLECTOR HIGHWAYS WITH FLUSH MEDIANS
RD01-TS-3A	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH DEPRESSED MEDIANS
RD01-TS-3C	10-15-02	DESIGN STANDARDS 4 AND 6 LANE ARTERIAL HIGHWAYS WITH FLUSH MEDIANS
RD01-TS-4	07-23-13	DESIGN STANDARDS 1 AND 2 LANE RAMPS
RD01-TS-5	10-15-02	DESIGN STANDARDS FREEWAYS WITH DEPRESSED MEDIANS
RD01-TS-5B	10-15-02	DESIGN STANDARDS FREEWAYS WITH MEDIAN BARRIER
RD01-TS-5W		TYPICAL DETAIL FOR INSIDE LANE WIDENING OF FREEWAYS
RD01-TS-6	10-10-16	TYPICAL CURB AND GUTTER SECTIONS WITH SHOULDER
RD01-TS-6A	07-31-13	TYPICAL CURB AND GUTTER SECTIONS WITHOUT SHOULDER
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-SA-1	10-15-02	SAFETY APPROACH TO UNDERPASSES GRADING DESIGN AND SLOPE PROTECTION
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD01-SD-6		INTERSECTION SIGHT DISTANCE 6-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-8		LATERAL UNDERDRAIN ENDWALL DETAIL FOR 5:1 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	01-02-13	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	01-29-14	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PO-1	05-27-01	STANDARD OVAL & FLAT BASE CONCRETE CULVERT PIPE

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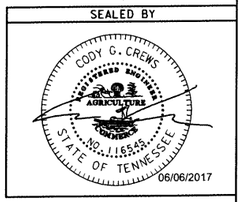

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-I-40-1(348)	1A1

PIPE CULVERTS AND ENDWALLS (CONTINUED)

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	01-21-16	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-99	11-01-13	PIPE GRATE & SKEWED CONNECTION DETAILS FOR "U" ENDWALLS (FOR 3:1, 4:1 & 6:1 SLOPES)
D-SEW-12D	06-14-13	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 15" AND 18" PIPES 12:1 SLOPE
D-PE-1	02-12-76	TYPE "A" CONCRETE ENDWALL 2:1 SLOPE. 36" TO 78"
D-PE-4	10-10-16	STRAIGHT CONCRETE ENDWALL
D-PE-5	05-27-01	STANDARD WINGWALLS HORIZONTAL OVAL CONCRETE PIPES

CATCH BASINS AND MANHOLES

D-CB-12LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 12LP CATCH BASIN (FOR USE WITH 6" NON-MOUNTABLE CURB)
D-CB-12P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO.12 CATCH BASIN
D-CB-12RA	03-11-14	STANDARD PRECAST 48" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RB	03-11-14	STANDARD PRECAST 60" AND 72" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12RC	03-11-14	STANDARD PRECAST 84" THRU 120" CIRCULAR NO. 12 CATCH BASIN (FOR USE WITH 6" NONMOUNTABLE CURB)
D-CB-12S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 12 CATCH BASIN
D-CB-12SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SC	03-11-14	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-12SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 12 CATCH BASIN
D-CB-14P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 14RB CATCH BASIN
D-CB-14S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 14 CATCH BASIN
D-CB-14SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 14 CATCH BASIN
D-CB-31R	03-11-14	STANDARD PRECAST CIRCULAR NO. 31 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-31SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 31 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-31SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 31 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 41LP CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41P	03-11-14	STANDARD 4' X 3' PRECAST RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41S	03-11-14	STANDARD 4' X 3' RECTANGULAR CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SC	03-11-14	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-41SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 41 CATCH BASIN (FOR USE UNDER CONCRETE MEDIAN BARRIER WALL)
D-CB-42RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	03-11-14	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-99	05-20-14	MISCELLANEOUS DETAILS FOR RECTANGULAR STRUCTURES
D-CB-99R	03-11-14	MISCELLANEOUS DETAILS FOR ROUND STRUCTURES
D-CB-99RA	03-19-14	BILL OF STEEL FOR ROUND CATCH BASIN LIDS
D-CB-99RB		ROUND JUNCTION BOX SPRING DRAIN BOX
D-CBB-12A	05-27-01	TYPE 'B' CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NOS. 10, 12, 14, 16 & 17 TYPE CATCH BASINS
D-CBB-31	05-27-01	TYPE 'B' CAST IRON FRAME, GRATE & INLET DETAILS FOR NOS. 31, 41, 45, 46, & 51 TYPE CATCH BASINS
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
D-JBS-2	08-01-12	STANDARD 4' X 4' SQUARE CONCRETE NO. 2 JUNCTION BOX
D-JBS-4	08-01-12	STANDARD 7' X 7' SQUARE CONCRETE NO. 4 JUNCTION BOX
D-MH-2	02-02-16	STANDARD MASONRY & PRECAST NO. 3 MANHOLE
D-MH-3	04-21-14	TYPICAL DESIGN OF LIDS FOR NO. 3 MANHOLE
D-MH-4	04-01-14	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-MH-5	04-01-14	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 3 MANHOLE
D-MH-6	04-01-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 3 MANHOLE
D-MH-7	04-01-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 3 MANHOLE
D-RF-1	02-02-16	STANDARD PRECAST RISER

ROADWAY AND PAVEMENT APPURTENANCES

RP-J-1	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-3	10-26-00	PORTLAND CEMENT CONCRETE PAVEMENT JOINT TYPES AND SPACING
RP-J-5	07-01-01	TYPICAL ACCELERATION AND DECELERATION LANE JOINT TYPES AND SPACING FOR CONCRETE RAMPS
RP-J-7	07-14-14	CONCRETE RAMP JOINT TYPES AND SPACING
RP-J-9	02-02-12	CONTRACTION AND CONSTRUCTION JOINTS FOR CONCRETE PAVEMENT
RP-J-11	07-29-96	3/4" AND 1 3/4" EXPANSION AND EDGE PAVEMENT JOINTS
RP-J-13	03-20-91	3/4" AND 1 3/4" ELASTOMERIC COMPRESSION JOINT SEALS
RP-J-15	01-19-02	LONGITUDINAL CONTRACTION AND CONSTRUCTION JOINTS
RP-J-17	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-18	02-02-12	DOWEL ASSEMBLY DEVICES
RP-J-19	02-02-12	DOWEL ASSEMBLY DEVICES
RP-I-5	12-18-96	EXAMPLES OF STREET AND ALLEY INTERSECTIONS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
RP-MC-2	02-28-02	STANDARD 6" SLOPING (MOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-NMC-10	07-29-03	STANDARD VERTICAL (NONMOUNTABLE) CONCRETE CURBS AND CONCRETE CURBS AND GUTTERS
RP-H-3	10-10-16	CURB RAMP AND TRUNCATED DOME SURFACE DETAIL
RP-H-4	10-10-16	PERPENDICULAR CURB RAMP
RP-H-5	10-10-16	PARALLEL CURB RAMP
RP-H-6	10-10-16	PEDESTRIAN REFUGE
RP-H-7	10-10-16	PERPENDICULAR CURB RAMP IN CURVE
RP-H-9	10-10-16	PARALLEL CURB RAMP IN CURVE
RP-S-7	02-05-16	DETAILS FOR CONCRETE SIDEWALKS
W-CIP-1		ROADWAY FEATURES AT CAST IN PLACE RETAINING WALL
W-MSE-1		ROADWAY FEATURES FOR MSE SEGMENTAL PRECAST FACING RETAINING WALL
W-MSE-2		ROADWAY FEATURES FOR MSE MODULAR BLOCK FACING RETAINING WALL
W-SG-1		STANDARD GRAVITY-TYPE RETAINING WALLS
W-SP-1		ROADWAY FEATURES AT SOLDIER PILE AND SOIL ANCHORED RETAINING WALLS

SAFETY DESIGN AND FENCES

S-CZ-1		CLEAR ZONE CRITERIA
S-PL-1		SAFETY PLAN AT ROADSIDE HAZARDS
S-PL-3	10-10-16	SAFETY PLAN: MINIMUM INSTALLATION AT BRIDGE ENDS
S-PL-4	10-10-16	SAFETY PLAN FOR BRIDGE PIERS IN CLEAR ZONE
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		SAFETY PLAN SAFETY HARDWARE PLACEMENT IN MEDIAN
S-CB-1		CABLE BARRIER PLACEMENT

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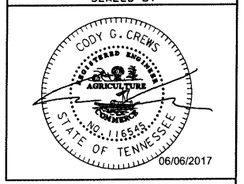

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD ROADWAY DRAWINGS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-I-40-1(348)	1A2

SAFETY DESIGN AND FENCES (CONTINUED)

S-CC-1	04-03-17	CRASH CUSHION
S-GR31-1	04-03-17	W-BEAM GUARDRAIL
S-GR31-1A		W-BEAM BARRIER FASTENING HARDWARE
S-GRS-1	04-03-17	SPECIAL CASE LONG SPAN GUARDRAIL ONE POST OMITTED
S-GRS-2	05-25-16	SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRS-3	04-03-17	SPECIAL CASE: GUARDRAIL FOOTING
S-GRC-1	10-10-16	GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRT-2	04-03-17	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P	10-10-16	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRA-3	04-03-17	TYPE 13 GUARDRAIL ANCHOR
S-SSMB-2	08-19-13	51" SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-3	07-16-13	51" HALF SIZE SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-4	04-12-16	FLARED SINGLE SLOPE CONCRETE MEDIAN BARRIER WALL (VERTICAL BACK)
S-SSMB-5		SINGLE SLOPE MEDIAN BARRIER WALL CATCH BASIN DETAIL
S-SSMB-6	10-10-16	GUARDRAIL ATTACHMENT TO SINGLE SLOPE CONCRETE BARRIER WALL
S-SSMB-8	05-20-14	FOOTING DETAILS FOR OVERHEAD SIGN STRUCTURE 51" MEDIAN BARRIER WALL
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-F-10B	05-14-10	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-F-10C	05-14-10	RIGHT-OF-WAY FENCE AT BRIDGES AND BOX CULVERTS
S-F-10D		RIGHT-OF-WAY FENCE LOCATIONS AT INTERCHANGES

DESIGN - TRAFFIC CONTROL

T-M-1	07-24-14	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	10-10-16	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	10-10-16	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-5	04-23-13	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-6	06-22-12	MARKING DETAIL FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-7	01-12-12	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-8	01-12-12	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
T-M-9	11-01-11	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
T-M-11	10-10-16	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES OR ROUTES
T-M-12	01-30-15	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES ON URBAN ROADWAYS
T-M-13		SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES
T-M-14	11-01-11	SIGNING AND PAVEMENT MARKINGS FOR BICYCLE LANES AT INTERSECTIONS
T-M-15		ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-PBR-1	06-30-09	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	11-01-11	DETAIL FOR VERTICAL PANELS AND FLEXIBLE DELINEATORS
T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
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-13	03-05-17	TWO-OUTSIDE LANE CLOSURE ON FREEWAY OR EXPRESSWAY
T-WZ-14	03-05-17	TWO-OUTSIDE LANE CLOSURE ON INTERSTATES AND EXPRESSWAYS (PORTABLE BARRIER RAIL)
T-WZ-15	03-05-17	INTERIOR LANE CLOSURE ON FREEWAYS OR EXPRESSWAYS
T-WZ-16	03-05-17	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-18	03-05-17	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-21	03-05-17	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
T-WZ-31	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (GREATER THAN 40 MPH)
T-WZ-40	03-05-17	RIGHT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-41	03-05-17	LEFT LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-42	03-05-17	CENTER LANE CLOSURES AT NEAR SIDE OF INTERSECTIONS
T-WZ-55	10-10-16	SIDEWALK TRAFFIC CONTROL

EROSION PREVENTION AND SEDIMENT CONTROL

EC-STR-2	08-01-12	SEDIMENT FILTER BAG
EC-STR-3B	08-01-12	SILT FENCE
EC-STR-3C	08-01-12	SILT FENCE WITH WIRE BACKING
EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
EC-STR-4A	08-01-12	ENHANCED SILT FENCE CHECK (V-DITCH)
EC-STR-4B	08-01-12	ENHANCED SILT FENCE CHECK DETAILS
EC-STR-6	05-06-16	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-11	08-01-12	CULVERT PROTECTION TYPE 1
EC-STR-11A	08-01-12	CULVERT PROTECTION TYPE 2
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-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-37	06-10-14	SEDIMENT TUBE
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STE-40		CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-44		CATCH BASIN FILTER ASSEMBLY (TYPE 4)
EC-STR-44A		CATCH BASIN FILTER ASSEMBLY (TYPE 4) SLIPCOVER DETAILS
EC-STR-46		CATCH BASIN FILTER ASSEMBLY (TYPE 6)
EC-STR-46A		CATCH BASIN FILTER ASSEMBLY (TYPE 6) SLIPCOVER DETAILS
EC-STR-47		CATCH BASIN FILTER ASSEMBLY (TYPE 7)
EC-STR-47A		CATCH BASIN FILTER ASSEMBLY (TYPE 7) SLIPCOVER DETAILS
EC-STR-48		CATCH BASIN FILTER ASSEMBLY (TYPE 8)
EC-STR-48A		CATCH BASIN FILTER ASSEMBLY (TYPE 8) SLIPCOVER DETAILS

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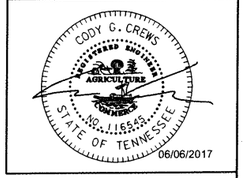

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD ROADWAY DRAWINGS

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-1-40-1(348)	1A3

STANDARD TRAFFIC OPERATIONS DRAWINGS

DWG.	REV.	DESCRIPTION
SIGNS		
T-S-6	02-12-91	STANDARD MOUNTING DETAILS - BOLTED EXTRUDED PANELS
T-S-7	02-12-91	HIGHWAY SHIELDS USED ON INTERSTATE AND U.S. NUMBERED ROUTES
T-S-8	07-15-91	HIGHWAY SHIELDS USED ON STATE NUMBERED ROUTES AND ARROWS
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-12	07-02-15	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-20-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	08-17-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-15	12-07-90	STANDARD CONDUIT & GROUND DETAILS FOR OVERHEAD & CANTILEVER SIGN STRUCTURES
T-S-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-16A	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-17	07-02-15	STANDARD GROUND MOUNTED SIGN USING PERFORATED/KNOCKOUT SQUARE TUBE
T-S-18	02-14-14	END OF ROADWAY, DEAD END SIGNS, AND METAL BARRICADES (TYPE III)
T-S-19	07-19-15	STANDARD STEEL SIGN SUPPORTS
T-S-20	11-01-11	SIGN DETAILS
T-S-21	07-02-15	DETAILS FOR SIGNS MOUNTS ON CONCRETE MEDIAN BARRIERS
T-S-22	09-12-13	SIGN LAYOUT FOR HOV LANES
T-S-23A	07-02-15	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY P-POST SIGN SUPPORT
T-S-23B	07-19-13	MULTI-DIRECTIONAL SLIP BASE BREAKAWAY STRUCTURAL PIPE SIGN SUPPORT
T-S-23C	07-02-15	BREAKAWAY POST SIGN SUPPORTS
T-S-24	08-02-13	DETAILS OF SIGN WITH SOLAR FLASHING ASSEMBLY
SIGNALS		
T-SG-1	06-27-16	WOOD POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-2	06-27-16	LOOP LEAD-IN, CONDUIT AND PULL BOXES
T-SG-3	06-27-16	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A	06-27-16	ALTERNATE DETECTION DETAILS
T-SG-4	06-27-16	SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	06-27-16	CONTROLLER CABINET DETAILS
T-SG-6		PEDESTRIAN SIGNAL DETAILS
T-SG-7	06-27-16	SIGNAL HEAD ASSEMBLIES AND PEDESTRIAN PUSHBUTTON SIGNS
T-SG-7B		TYPICAL SIGNAL HEAD PLACEMENT - APPROACHES WITH NO THROUGH MOVEMENTS
T-SG-7C		TYPICAL SIGNAL HEAD PLACEMENT - ONE-LANE AND TWO-LANE APPROACHES
T-SG-7E		TYPICAL SIGNAL HEAD PLACEMENT - THREE-LANE APPROACHES
T-SG-7F		TYPICAL SIGNAL HEAD PLACEMENT - THREE-LANE APPROACHES
T-SG-7K		TYPICAL SIGNAL HEAD PLACEMENT - FOUR-LANE APPROACHES
T-SG-7O		TYPICAL SIGNAL HEAD PLACEMENT - FIVE-LANE APPROACHES
T-SG-7P		TYPICAL SIGNAL HEAD PLACEMENT - FIVE-LANE APPROACHES
T-SG-7S		TYPICAL SIGNAL HEAD PLACEMENT - SIX-LANE AND SEVEN LANE APPROACHES
T-SG-8	06-27-16	STRAIN POLE DETAILS FOR SPAN MOUNTED SIGNALS
T-SG-9	06-27-16	DETAILS OF CANTILEVER SIGNAL SUPPORT
T-SG-9A	06-27-16	MISCELLANEOUS SIGNAL DETAILS
T-SG-10	06-27-16	MAST ARM POLES AND STRAIN POLES FOUNDATION DETAILS
T-SG-11	06-27-16	MAINTENANCE OF EXISTING SIGNALS DURING HIGHWAY CONSTRUCTION
T-SG-12	06-27-16	TYPICAL WIRING FOR SIGNAL HEADS AND DETECTION LOOPS
LIGHTING AND UTILITY POLES		
T-FO-1		FIBER OPTIC AERIAL ENTRANCE DETAILS
T-FO-2		FIBER OPTIC UNDERGROUND ENTRANCE DETAILS
T-FO-4		FIBER OPTIC PULL BOX, CABINET & POLE DETAILS
T-L-1	12-04-13	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1TM		STANDARD LIGHTING DETAILS TENON MOUNTED OFFSET LIGHTING SUPPORTS
T-L-2	12-04-13	FOUNDATION DETAIL FOR LUMINAIRE MOUNTED ON A CONCRETE MEDIAN BARRIER
T-L-3	04-15-96	STANDARD LIGHTING DETAILS PULL BOXES
T-L-4	05-25-11	STANDARD LIGHTING DETAILS CONDUIT, CABLE INSTALLATION

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STANDARD TRAFFIC OPERATIONS DRAWINGS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-I-40-1(348)	1B

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISION	DESCRIPTION	STA. / LOCATION
EDHZ002	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	AN ASBESTOS CONTAINING MATERIAL (ACM) SURVEY WAS CONDUCTED ON BRIDGE NO.57100400025, S.R.-186 KEITH SHORT BYPASS OVER I40, LM 3.300 (57-SR186-3.30). NO ACM WAS DETECTED. NO SPECIAL ACCOMMODATIONS FOR DEMOLITION AND WASTE 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 TDEC DIVISION OF AIR POLLUTION CONTROL (STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2015) SECTIONS 107.08D AND 202.03).	BRIDGE NO. 57100400025
EDHZ001	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	AN ASBESTOS CONTAINING MATERIAL (ACM) SURVEY WAS CONDUCTED ON BRIDGE NO.57100400021, 57100400022, 57100400023, 57100400024, 57100400027 AND 57100400028. NO ASBESTOS WAS DETECTED AT ANY OF THESE BRIDGES. NO SPECIAL ACCOMMODATIONS FOR DEMOLITION AND WASTE 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 TDEC DIVISION OF AIR POLLUTION CONTROL (STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2015) SECTIONS 107.08D AND 202.03).	BRIDGES NO. 57100400021, 57100400022, 57100400023, 57100400024, 57100400027 AND 57100400028.
DRG4001	ROADWAY DESIGN, REGION 4	RETAINING WALL FINISH AS REQUESTED BY JACKSON MAYOR JERRY GIST : ASHLAR STONE (OR SIMILAR) ARCHITECTURAL FINISH (WITH RECTANGULAR PANELS (10 FT. X 5 FT. OR SIMILAR IF MSE WALLS ARE USED) ON WALLS EXPOSED TO TRAFFIC AS PER APRIL 20, 2016 LETTER FROM THE MAYOR AND G. SCRUGGS MAY 26, 2016 RESPONSE LETTER	WALLS NO.16,17,18,19
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).	I-40 NEAR STA. 242+50 (STR -4)
EDHZ003	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	THIS TRANSPORTATION IMPROVEMENT PROJECT IS SITUATED WITHIN AN ENVIRONMENTALLY SENSITIVE CORRIDOR THAT HAS BEEN DESIGNATED AS A WELL HEAD PROTECTION AREA, AS DEFINED BY THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) AND JACKSON ENERGY AUTHORITY (JEA). AS SUCH, JEA HAS DEVELOPED A WELL HEAD PROTECTION PLAN THAT IS ON FILE AND AVAILABLE AT THE LOCAL TDEC ENVIRONMENTAL FIELD OFFICE. THE CONTRACTOR SHALL CONSULT THIS PLAN AND MAKE EVERY EFFORT TO EMPLOY BEST MANAGEMENT PRACTICES DURING EACH PHASE OF THE PROJECT TO ENSURE COMPLIANCE WITH SAID PLAN. BEST MANAGEMENT PRACTICES COULD BE ACTIONS SUCH AS NOT STORING CHEMICAL OR FUEL WITHIN THE WHPA OR PROVIDING BERMED AND LINED STORAGE AREAS WITH EMERGENCY SPILL CONTAINMENT KITS, ONLY APPLYING ENOUGH ROADBED SEALANTS OR AMENDMENTS FOR A SINGLE DAY'S WORK, OR ANY OTHER APPROPRIATE MEASURES TO MINIMIZE THE SURFACE RUNOFF OF POTENTIAL CONTAMINANTS.	PROJECT CORRIDOR

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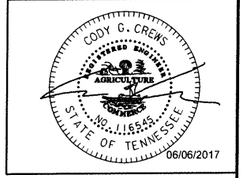

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

PROJECT
COMMITMENTS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-I-40-1(348)	2A

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	LS	0.5
	201-01	CLEARING AND GRUBBING	LS	0.5
(8)(64)	202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	27135
(8)(46)	202-02.21	REMOVAL OF PIPE (15 INCH)	L.F.	1702
(8)(46)	202-02.22	REMOVAL OF PIPE (18 INCH)	L.F.	649
(8)(46)	202-02.23	REMOVAL OF PIPE (24 INCH)	L.F.	874
(8)(46)	202-02.24	REMOVAL OF PIPE (30 INCH)	L.F.	133
(8)(46)	202-02.25	REMOVAL OF PIPE (36 INCH)	L.F.	54
(8)(46)	202-02.26	REMOVAL OF PIPE (54 INCH)	L.F.	217
(8)	202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	S.Y.	315
(8)(46)	202-04.01	REMOVAL OF STRUCTURES (EXISTING CATCH BASINS)	LS	0.5
(8)(46)	202-04.02	REMOVAL OF STRUCTURES (EXISTING MANHOLES)	LS	1
(8)(46)	202-04.03	REMOVAL OF STRUCTURES (EXISTING ENDWALLS)	LS	0.5
(8)	202-08.28	REMOVAL OF MEDIAN BARRIER (S.R. 186)	L.F.	1060
(4)(5)(47)	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	C.Y.	313219
(30)	203-03.10	SELECT GRANULAR MATERIAL	TON	19360
(24)	203-04	PLACING AND SPREADING TOPSOIL	C.Y.	28443
(1)	203-06	WATER	M.G.	215225
	204-08	FOUNDATION FILL MATERIAL	C.Y.	72
(6)	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	C.Y.	191
(2)(3)	209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	311
	209-05	SEDIMENT REMOVAL	C.Y.	2004
(2)(3)	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	19662
(2)(3)	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	61452
(2)(3)	209-08.05	ENHANCED SILT FENCE CHECK (V-DITCH)	EACH	73
(2)(3)	209-08.07	ROCK CHECK DAM	EACH	7
(2)(3)	209-08.08	ENHANCED ROCK CHECK DAM	EACH	50
(2)(3)	209-09.01	SANDBAGS	BAG	4500
(2)(3)	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	10
(2)(3)	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	177
(2)(3)(7)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	8100
(2)(3)	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	26
(2)(3)	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	60
(2)(3)	209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)	EACH	39
(2)(3)	209-40.44	CATCH BASIN FILTER ASSEMBLY(TYPE 4)	EACH	138
(2)(3)	209-40.46	CATCH BASIN FILTER ASSEMBLY(TYPE 6)	EACH	31
(2)(3)	209-40.47	CATCH BASIN FILTER ASSEMBLY(TYPE 7)	EACH	4
(2)(3)	209-40.48	CATCH BASIN FILTER ASSEMBLY(TYPE 8)	EACH	2
(57)	303-01.09	MINERAL AGGREGATE, TYPE A BASE,GRADING D LIMESTONE	TON	262962
(31)	303-01.01	GRANULAR BACKFILL (ROADWAY)	TON	2883
(2)(3)(18)	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	5000
(58)	307-01.01	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING A	TON	1852
(59)	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	1689
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	5151
	307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	TON	4031
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	TON	3373
	307-03.01	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING A	TON	26496
	307-01.22	ASP. CONC. MIX(PG76-22) (BPMB-HM) GR. A-S	TON	13814
	307-03.08	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GRADING B-M2	TON	16850
	307-03.10	ASPHALT CONCRETE MIX (PG76-22) (BPMB-HM) GR CS	TON	5131
	313-03	TREATED PERMEABLE BASE	S.Y.	55540
(60)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	293
(61)	402-02	AGGREGATE FOR COVER MATERIAL (PC)	TON	1162
(62)	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	282
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	68492
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	TON	458
	411-02.10	ACS MIX(PG70-22) GRADING D	TON	3406
	411-03.23	ACS MIX(PG76-22) OGFC	TON	12264
	411-12.01	SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	10
	411-12.02	SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	0.44
	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	TON	6465
	501-01.03	PORTLAND CEMENT CONCRETE PAVEMENT (PLAIN) 10"	S.Y.	51111
(9)	602-01	STRUCTURAL STEEL	LB.	543
(10)(26)	604-01.01	CLASS A CONCRETE (ROADWAY)	C.Y.	163
(26)	604-01.02	STEEL BAR REINFORCEMENT (ROADWAY)	LB.	26816

SEE SHEET 2A2 FOR FOOTNOTES

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	604-07.07	RETAINING WALL (NO. 7)	S.F.	5742
	604-07.08	RETAINING WALL (NO. 8)	S.F.	1623
	604-07.09	RETAINING WALL (NO. 9)	S.F.	2595
	604-07.10	RETAINING WALL (NO. 10)	S.F.	2275
	604-07.11	RETAINING WALL (NO. 11)	S.F.	2276
	604-07.12	RETAINING WALL (NO. 12)	S.F.	1793
	604-07.13	RETAINING WALL (NO. 13)	S.F.	4076
	604-07.14	RETAINING WALL (NO. 14)	S.F.	4380
	604-07.15	RETAINING WALL (NO. 15)	S.F.	4470
(45)	604-07.16	RETAINING WALL (NO. 16)	S.F.	2568
(45)	604-07.17	RETAINING WALL (NO. 17)	S.F.	4890
(45)	604-07.18	RETAINING WALL (NO. 18)	S.F.	7256
(45)	604-07.19	RETAINING WALL (NO. 19)	S.F.	10905
	604-07.20	RETAINING WALL (NO. 20)	S.F.	2122
	604-07.21	RETAINING WALL (NO. 21)	S.F.	3598
(51)	606-24.12	TEMPORARY SHEET PILES	S.F.	11200
(36)	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	L.F.	8907
	607-03.03	18" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	338
	607-03.05	18" CONC. PIPE CULVERT (CLASS IV)JACKED-IN-PLACE	L.F.	162
(37)	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	L.F.	4881
	607-05.03	24" CONCRETE PIPE CULVERT (CLASS IV)	L.F.	275
(38)	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1159
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	L.F.	502
(39)	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	L.F.	1419
	607-10.02	54" CONCRETE PIPE CULVERT (CLASS III)	L.F.	133
	607-11.06	60" CONC. PIPE CULVERT (CLASS IV)JACKED-IN-PLACE	L.F.	224
	607-16.06	45"X29" HORIZONTAL OVAL CONCRETE PIPE CULVERT	L.F.	55
(27)	610-07.03	18" PIPE DRAIN (BRIDGE DRAIN)	L.F.	260
	611-01.02	MANHOLES, > 4' - 8' DEPTH	EACH	2
	611-01.03	MANHOLES, > 8' - 12' DEPTH	EACH	8
	611-01.04	MANHOLES, > 12' - 16' DEPTH	EACH	3
	611-01.05	MANHOLES, > 16' - 20' DEPTH	EACH	2
	611-01.07	MANHOLES, > 24' - 28' DEPTH	EACH	1
	611-02.11	JUNCTION BOX, TYPE 2	EACH	2
	611-02.13	JUNCTION BOX, TYPE 4	EACH	2
(40)	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	C.Y.	26
(41)	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	LB.	648
	611-07.54	18IN ENDWALL (CROSS DRAIN) 3:1	EACH	2
	611-07.55	18IN ENDWALL (CROSS DRAIN) 4:1	EACH	2
	611-07.56	18IN ENDWALL (CROSS DRAIN) 6:1	EACH	4
	611-07.58	24IN ENDWALL (CROSS DRAIN) 4:1	EACH	1
	611-07.59	24IN ENDWALL (CROSS DRAIN) 6:1	EACH	3
	611-07.60	30IN ENDWALL (CROSS DRAIN) 3:1	EACH	1
	611-07.62	30IN ENDWALL (CROSS DRAIN) 6:1	EACH	2
	611-07.73	18IN ENDWALL (MEDIAN DRAIN)	EACH	1
(29)	611-09.01	ADJUSTMENT OF EXISTING CATCHBASIN	EACH	3
	611-12.02	CATCH BASINS, TYPE 12, > 4' - 8' DEPTH	EACH	11
	611-12.03	CATCH BASINS, TYPE 12, > 8' - 12' DEPTH	EACH	7
	611-12.04	CATCH BASINS, TYPE 12, > 12' - 16' DEPTH	EACH	12
	611-12.05	CATCH BASINS, TYPE 12, > 16' - 20' DEPTH	EACH	1
	611-14.02	CATCH BASINS, TYPE 14, > 4' - 8' DEPTH	EACH	3
	611-14.03	CATCH BASINS, TYPE 14, > 8' - 12' DEPTH	EACH	1
	611-31.02	CATCH BASINS, TYPE 31, > 4' - 8' DEPTH	EACH	54
	611-31.03	CATCH BASINS, TYPE 31, > 8' - 12' DEPTH	EACH	11
	611-31.04	CATCH BASINS, TYPE 31, > 12' - 16' DEPTH	EACH	2
	611-31.06	CATCH BASINS, TYPE 31, > 20' - 24' DEPTH	EACH	2
	611-31.07	CATCH BASINS, TYPE 31, > 24' - 28' DEPTH	EACH	1
	611-41.01	CATCH BASINS, TYPE 41, 0' - 4' DEPTH	EACH	1
	611-41.02	CATCH BASINS, TYPE 41, 4' - 8' DEPTH	EACH	1
	611-42.01	CATCH BASINS, TYPE 42, 0' - 4' DEPTH	EACH	10
	611-42.02	CATCH BASINS, TYPE 42, > 4' - 8' DEPTH	EACH	17
	611-42.03	CATCH BASINS, TYPE 42, > 8' - 12' DEPTH	EACH	6
	611-42.04	CATCH BASINS, TYPE 42, > 12' - 16' DEPTH	EACH	4
(11)	620-05.01	CONC PARAPET SINGLE SLOPE (STD-1-1SS)	L.F.	657

SEE SHEET 2A2 FOR FOOTNOTES

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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-I-40-1(348)	2A1

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(3)(53)	621-03.02	18" TEMPORARY DRAINAGE PIPE	L.F.	598
(3)(53)	621-03.03	24" TEMPORARY DRAINAGE PIPE	L.F.	160
(2)(3)(54)	621-03.04	30" TEMPORARY DRAINAGE PIPE	L.F.	260
(2)(3)(54)	621-03.07	48" TEMPORARY DRAINAGE PIPE	L.F.	625
	701-01.01	CONCRETE SIDEWALK (4 ")	S.F.	20163
	701-02.03	CONCRETE CURB RAMP	S.F.	1860
	701-03	CONCRETE MEDIAN PAVEMENT	C.Y.	190
	702-01	CONCRETE CURB	C.Y.	64
	702-03	CONCRETE COMBINED CURB & GUTTER	C.Y.	284
	705-01.01	GUARDRAIL AT BRIDGE ENDS	L.F.	295.85
	705-06.01	W BEAM GR (TYPE 2) MASH TL-3	L.F.	11337.50
	705-06.10	GR TERMINAL TRAILING END (TYPE 13) MASH TL3	EACH	22
	705-06.20	TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	24
(13)	705-20.25	TEMPORARY CRASH CUSHION (MASH TL-3)	EACH	52
	705-20.20	LOW MAINT. CRASH CUSHION NARROW (MASH TL-3)	EACH	4
	705-80.01	LONGITUDINAL CABLE BARRIER	L.F.	440
	705-80.18	CABLE BARRIER TERMINAL	EACH	2
	706-01	GUARDRAIL REMOVED	L.F.	9174
	706-80.18	CABLE BARRIER TERMINAL (REMOVAL)	EACH	4
	706-80.19	CABLE BARRIER (REMOVAL)	L.F.	14344
	707-01.11	CHAIN LINK FENCE (6 FOOT)	L.F.	3260
	707-01.12	END & CORNER POST ASSEMBLY(CHAIN-LINK FENCE 6')	EACH	14
(3)	707-01.13	GATE - CHAIN LINK FENCE-6 FOOT (12')	EACH	2
	707-06.01	REMOVAL OF FENCE (EXISTING CONTROL ACCESS FENCE)	L.F.	2141
(55)	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	1000
(27)	709-01.01	RUBBLE STONE RIP-RAP	C.Y.	6
(2)(3)(28)	709-05.05	MACHINED RIP-RAP (CLASS A-3)	TON	2174
(2)(3)(14)	709-05.06	MACHINED RIP-RAP (CLASS A-1)	TON	3185
(42)	709-05.08	MACHINED RIP-RAP (CLASS B)	TON	64
(43)	709-05.09	MACHINED RIP-RAP (CLASS C)	TON	899
	710-02	AGGREGATE UNDERDRAINS (WITH PIPE)	L.F.	53905
	710-05	LATERAL UNDERDRAIN	L.F.	6356
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	EACH	29
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	EACH	47
	710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	EACH	181
(34)	711-05.71	51IN SINGLE SLOPE CONCRETE BARRIER WALL	L.F.	14896
(35)	711-05.72	51IN SINGLE SLOPE HALF CONCRETE BARRIER WALL	L.F.	1018
	711-05.77	FLARED S/S CONCRETE MEDIAN BARRIER WALL	L.F.	173
(15)	712-01	TRAFFIC CONTROL	LS	0.5
	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	75123
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	1256
(12)	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	3756
(3)	712-05.01	WARNING LIGHTS (TYPE A)	EACH	100
(48)	712-06	SIGNS (CONSTRUCTION)	S.F.	3454
	712-07.03	BARRICADE TYPE 3	L.F.	140
	712-08.03	ARROW BOARD (TYPE C)	EACH	10
(52)	712-08.10	MOBILE MESSAGE SIGN UNIT W/ATTENUATOR	HOUR	1250
(3)(17)	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	1000
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	C.Y.	19
	713-01.02	STEEL BAR REINF.(FOUNDATION FOR SIGN SUPPORTS)	LB.	5253
	713-02.04	DELINEATOR (MILE MARKER) & STEEL POST	EACH	28
	713-02.14	FLEXIBLE DELINEATOR (WHITE)	EACH	55
	713-02.15	FLEXIBLE DELINEATOR (YELLOW)	EACH	31
	713-02.21	SIGN POST DELINEATION ENHANCEMENT	L.F.	1086
	713-06	SUPPORT	LB.	26073
(33)	713-09.01	STEEL OVERHEAD SIGN STRUCTURE (SPAN 83')	EACH	1
(33)	713-09.02	STEEL OVERHEAD SIGN STRUCTURE (SPAN 177.50')	EACH	1
(33)	713-09.03	STEEL OVERHEAD SIGN STRUCTURE (SPAN 109')	EACH	1
(33)	713-09.04	STEEL OVERHEAD SIGN STRUCTURE (SPAN 115')	EACH	1
(33)	713-09.05	STEEL OVERHEAD SIGN STRUCTURE (SPAN 79')	EACH	1
(33)	713-09.06	STEEL OVERHEAD SIGN STRUCTURE (SPAN 81')	EACH	1
(33)	713-09.07	STEEL OVERHEAD SIGN STRUCTURE (SPAN 97')	EACH	1
(33)	713-09.08	STEEL OVERHEAD SIGN STRUCTURE (SPAN 99.5')	EACH	1
(33)	713-09.09	STEEL OVERHEAD SIGN STRUCTURE (SPAN 92.50')	EACH	1
(33)	713-09.10	STEEL OVERHEAD SIGN STRUCTURE (SPAN 92.50')	EACH	1
(33)	713-09.11	STEEL OVERHEAD SIGN STRUCTURE (SPAN 165.50')	EACH	1
(33)	713-09.12	STEEL OVERHEAD SIGN STRUCTURE (SPAN 80.50')	EACH	1

SEE SHEET 2A2 FOR FOOTNOTES

ESTIMATED ROADWAY QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
(16)	713-11.01	"U" SECTION STEEL POSTS	LB.	902
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	LB.	7000
	713-11.05	SQUARE TUBE SIGN SUPPORT	LB.	1072
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.080" THICK)	S.F.	742
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.100" THICK)	S.F.	1248
	713-14	EXTRUDED ALUMINUM PANEL SIGNS	S.F.	9923
(44)	713-15	REMOVAL OF SIGNS, POSTS AND FOOTINGS	LS	0.5
(3)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	12
	713-06.07	END OF ROADWAY SIGN AND SUPPORT	EACH	4
	713-17.02	INSTALL AUXILIARY SUPPORT FOR EXIT NUMBER PANEL	EACH	15
	713-17.50	SIGN MOUNTED ON BRIDGE PARAPET	EACH	6
(32)	713-20.30	SIGN ADJUSTMENTS	EACH	38
(56)	716-01.05	TEMPORARY RAISED PAVEMENT MARKER	EACH	360
	716-01.14	RAISED PAVEMENT MARKER REMOVAL	EACH	360
	716-01.21	SNWPLWBLE PAVMT MRKRS (BI-DIR)(1 COLOR)	EACH	103
	716-01.22	SNWPLWBLE PAVMT MRKRS (MONO-DIR)(1 COLOR)	EACH	246
	716-01.23	SNWPLWBLE PAVMT MRKRS (BI-DIR)(2 COLOR)	EACH	1768
	716-01.30	REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	553
(19)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	118
(19)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	781
(19)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	60
(19)	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	1196
(19)	716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	L.F.	1392
(19)	716-02.09	PLASTIC PVMNT MRKNG (LONGITUDINAL CROSS-WALK)	L.F.	2380
(19)	716-02.11	PLASTIC PAVEMENT MARKING (6" DOTTED LINE)	L.F.	682
(19)	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	EACH	6
(19)	716-04.04	PLASTIC PAVEMENT MARKING (TRANSVERSE SHOULDER)	L.F.	530
(19)	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	2
(19)	716-04.07	PLASTIC PAVEMENT MARKING (EXIT ONLY ARROW)	EACH	12
(19)	716-04.08	PLASTIC PAVEMENT MARKING (OPTION LANE ARROW)	EACH	3
(19)	716-04.12	PLASTIC PAVEMENT MARKING (YIELD LINE)	S.F.	5
(19)	716-04.14	PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH	23
(19)	716-04.15	PLASTIC PVMNT MRKNG-BIKE SYMBOL/ARROW SHARED	EACH	9
(17)	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	872
(17)	716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	EACH	52
(17)(63)	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	34.5
(17)	716-06.01	PAINTED WORD PAVEMENT MARK (ONLY & I40 SHIELD)	EACH	23
(20)	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	L.F.	93984
	716-08.05	REMOVAL OF PAVEMENT MARKING (STOP LINE)	L.F.	872
	716-08.06	REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW)	EACH	52
(19)(22)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	27
(19)(22)	716-12.03	ENHANCED FLAT LINE THERMO (8IN BARRIER LINE)	L.F.	11233
(19)(22)	716-12.05	LINE)	L.F.	1117
(19)(22)	716-12.09	ENHANCED FLAT LINE THERMO (12IN LINE)	L.F.	1928
(19)(22)	716-12.10	ENHANCED FLAT LINE THERMO (12IN DOTTED)	L.F.	2837
	717-01	MOBILIZATION	LS	0.5
(2)(3)(50)	740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	S.Y.	2533
(49)	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	S.Y.	25452
(2)(3)(65)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	26257
(2)(3)	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	1411
(2)(3)	801-02.08	TEMPORARY SEEDING (WITHOUT MULCH)	UNIT	85
(2)(3)	801-02.15	FERTILIZER	TON	15
(25)	801-01	SEEDING (WITH MULCH)	UNIT	670
	801-01.02	CROWN VETCH MIXTURE (WITH MULCH)	UNIT	101
	801-02	SEEDING (WITHOUT MULCH)	UNIT	85
(23)	801-03	WATER (SEEDING & SODDING)	M.G.	2319
	801-07	SEED (SUPPLEMENTAL APPLICATION)	LB.	151
	801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	TON	2
	803-01	SODDING (NEW SOD)	S.Y.	215288
(2)(3)	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	7084
(2)(3)	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	2329
(21)	806-02.03	PROJECT MOWING	CYCL	12

SEE SHEET 2A2 FOR FOOTNOTES

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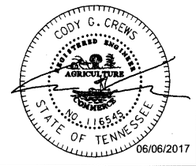

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

ESTIMATED ROADWAY QUANTITIES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-I-40-1(348)	2A2

FOOTNOTES:

(1) INCLUDES WATER FOR DUST CONTROL.
(2) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
(3) QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER.
(4) INCLUDES 9641 C.Y. FOR EPSC, 2500 C.Y. FOR TRAFFIC CONTROL, 22854 C.Y. FOR REMOVAL OF EXISTING PAVEMENT, 7171 C.Y. FOR TOPSOIL FROM EMB. AREAS, 21381 C.Y. FOR TOPSOIL FROM EXC. AREAS, AND 10152 C.Y. FOR UNDERCUTTING.
(5) SEE SPECIAL NOTES REGARDING GRADING.
(6) ITEM TO BE USED FOR EXISTING PIPES NOTED TO BE PLUGGED AND ABANDONED.
(7) FOR TOPSOIL STOCK PILES, TEMPORARY EXPOSED SOIL, TRENCH SPOIL AND EPSC MEASURES.
(8) ALL SALVAGE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
(9) FOR GUARDRAIL ATTACHMENT FOOTING. SEE STD. DWG. S-GRS-3.
(10) 6 C.Y. TO BE USED FOR GUARDRAIL ATTACHMENT FOOTING.
(11) 332 L.F. TO BE USED FOR RETAINING WALL NO. 9 AND 325 L.F. TO BE USED FOR RETAINING WALL NO. 12.
(12) TO BE USED ON ALL PORTABLE BARRIER RAIL.
(13) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR MASH TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
(14) 1361 TONS TO BE USED FOR EPSC AND 1824 TO BE USED FOR CROSS DRAINS.
(15) SEE S.P. 712-B. TRAFFIC CONTROL SUPERVISOR TO BE ON STAFF FULL TIME. INCLUDED WITH COST OF TRAFFIC CONTROL.
(16) CONTRACTOR TO USE STD. DWG. T-S-23C SINGLE-DIRECTIONAL BREAKAWAY LAP SPLICE FOR ALL U-SECTIONS POSTS.
(17) TO BE USED FOR TEMPORARY TRAFFIC CONTROL STRIPING.
(18) ITEM INCLUDES 150 TONS FOR EPSC MEASURES AND 200 TONS FOR TEMPORARY TRAFFIC CONTROL.
(19) CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
(20) TO BE USED TO REMOVE ALL EXISTING CONFLICTING PAVEMENT MARKINGS DURING CONSTRUCTION.
(21) 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.
(22) FOR I-40, WHICH USES OPEN-GRADED FRICTION COURSE (OGFC) FOR THE SURFACE LAYER, ONLY ENHANCED FLAT LINE THERMOPLASTIC MAY BE USED FOR THE EDGE, CENTER, SKIP AND LANE LINES. CONTRACTOR SHALL USE THE RIBBON METHOD FOR APPLICATION.
(23) INCLUDES 2294 THOUSAND GALLONS FOR EPSC, AND 25 THOUSAND GALLONS FOR REMOVAL OF PERMENANT AND TEMPORARY PAVEMENT.
(24) 4523 C.Y. TO BE USED IN AREAS DESIGNATED TO BE SCARIFIED AND OBLITERATED AND FOR TEMPORARY PAVEMENT REMOVAL.
(25) INCLUDES 55 UNITS FOR ITS, SIGNAL AND LIGHTING CONSTRUCTION, 305 UNITS FOR PERMENANT AND TEMPORARY PAVEMENT REMOVAL, AND 309 UNITS FOR EXCESS MATERIAL
(26) TO BE USED FOR BOX CULVERT EXTENSIONS AND HEADWALLS.
(27) STD. DWG. STD-1-7 IS TO BE USED FOR BURIAL OF OUTLET PIPE AND FOR END TREATMENT DETAILS.
(28) 974 TONS TO BE USED FOR SLOPE PROTECTION AND STABILIZATION AT PROPOSED BRIDGES AND 1200 TONS TO BE USED FOR EPSC.
(29) ITEM INCLUDES LABOR AND MATERIAL REQUIRED FOR THE REMOVAL OF THE GRATE AND RISER OF THE EXISTING CATCH BASINS, AND PROVIDING MANHOLE RISERS AND LIDS TO THE FINISHED GRADE.
(30) TO BE USED TO BACKFILL DESIGNATED UNDERCUT AREAS. SEE SOIL SHEETS FOR DETAILS & SPECIFIC LOCATIONS.
(31) TO BE USED FOR BACKFILLING PROPOSED BOX CULVERTS.
(32) TO BE USED FOR MODIFICATIONS OF EXISTING ADVANCED DIRECTIONAL SIGNS AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
(33) COST OF FOOTINGS ARE TO BE INCLUDED IN THE BID ITEM FOR THE SIGN STRUCTURE.
(34) INCLUDES 72 L.F. FOR WALL NO. 9 AND 175 L.F. TO REPLACE MEDIAN BARRIER ON S.R. 186 REMOVED FOR TEMPORARY TRAFFIC CONTROL.
(35) INCLUDES 332 L.F. FOR WALL NO.9, 175 L.F. FOR WALL NO. 20, AND 551 L.F. FOR WALL NO. 21.
(36) INCLUDES 8668 L.F. FOR STORM DRAINANGE AND 239 L.F. FOR CROSS DRAINS.
(37) INCLUDES 4861 L.F. FOR STORM DRAINANGE AND 20 L.F. FOR CROSS DRAINS.
(38) INCLUDES 1126 L.F. FOR STORM DRAINANGE AND 33 L.F. FOR CROSS DRAINS.
(39) INCLUDES 1356 L.F. FOR STORM DRAINANGE AND 63 L.F. FOR CROSS DRAINS.
(40) INCLUDES 1 C.Y. FOR STORM DRAINANGE AND 25 C.Y. FOR CROSS DRAINS.
(41) INCLUDES 45 LB FOR STORM DRAINANGE AND 603 LB FOR CROSS DRAINS.
(42) INCLUDES 18 TONS FOR STORM DRAINANGE, 18 TONS FOR CROSS DRAINS, AND 28 TONS FOR BOX CULVERTS.
(43) INCLUDES 668 TONS FOR CROSS DRAINS, AND 231 TONS FOR BOX CULVERTS.
(44) EXISTING OVERHEAD AND ROADSIDE SIGNS LOCATED WITHIN THE EXCAVATION LIMIT LINES ARE TO BE REMOVED UNLESS OTHERWISE NOTED IN THE PLANS.
(45) EXPOSED SURFACES OF RETAINING WALL ARE TO BE STONE FORMLINER FINISHED WITH ARCHITECTURAL POLYMERS ASHLAR STONE FORMLINER OR APPROVED EQUAL.
(46) SEE TABULATED QUANTITIES.
(47) SEE SOILS SHEETS FOR UNDERCUTTING LOCATIONS.
(48) SEE SHEET 61B FOR SCHEDULE, ADDITIONAL SIGNS INSTALLED AS DIRECTED BY THE ENGINEER SHALL BE PAID FOR AT THE UNIT COST FOR THIS ITEM.
(49) TO BE USED FOR UNDERCUTTING STABILIZATION. SEE SOIL SHEETS FOR DETAILS & SPECIFIC LOCATIONS.
(50) INCLUDES 2060 S.Y. FOR TEMPORARY CONSTRUCTION EXITS.
(51) TO BE USED FOR BRIDGE NO. 4 CONSTRUCTION.
(52) SEE SPECIAL PROVISION 712 PTQ.
(53) TO BE USED FOR TEMPORARY STORM DRAINAGE DURING CONSTRUCTION, SEE TRAFFIC CONTROL PLANS FOR LOCATIONS AND DETAILS.
(54) TO BE USED FOR EPSC MEASURES.
(55) ITEM TO BE USED AS SHOWN IN EPSC PLANS AND AS DIRECTED BY ENGINEER
(56) TEMPORARY RAISED PAVEMENT MARKERS TO BE USED ON I-40 FOR EACH PHASE.
(57) INCLUDES 15196 TONS FOR TEMPORARY PAVEMENT AND MAINTENANCE OF TRAFFIC.
(58) INCLUDES 1852 TONS FOR TEMPORARY PAVEMENT.
(59) INCLUDES 1212 TONS FOR TEMPORARY PAVEMENT.
(60) INCLUDES 16 TONS FOR TEMPORARY PAVEMENT.
(61) INCLUDES 64 TONS FOR TEMPORARY PAVEMENT.
(62) INCLUDES 3 TONS FOR TEMPORARY PAVEMENT.
(63) INCLUDES 6 PAINTED ELONGATED SHIELDS ("I-40" @ 6' x 15') EAST AND WEST ON S.R. 5 AND 17 "ONLY" PAVEMENT MARKINGS
(64) ITEM INCLUDES THE REMOVAL OF EXISTING PAVEMENT OUTSIDE OF THE EXCAVATION LIMITS AND REMOVAL OF TEMPORARY PAVEMENT USED DURING CONSTRUCTION.
(65) INCLUDES 2500 L.F. FOR ITS, SIGNAL AND LIGHTING CONSTRUCTION

SEALED BY

CODY G. CREWS
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06/06/2017

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

FOOTNOTES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-I-40-1(348)	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 WITHOUT APPROVAL BY SAME. ALL MATERIAL SHALL BE DISPOSED OF IN UPLAND (NON-WETLAND) AREAS AND ABOVE ORDINARY HIGH WATER OF ANY ADJACENT WATERCOURSE. THIS DOES NOT ELIMINATE THE NEED TO OBTAIN ANY OTHER LICENSES OR PERMITS THAT MAY BE REQUIRED BY ANY OTHER FEDERAL, STATE OR LOCAL AGENCY.

SEEDING AND SODDING

(4) ALL EXISTING ROADS WITHIN THE RIGHT-OF-WAY AND NOT IN THE GRADED AREA THAT ARE TO BE ABANDONED SHALL BE SCARIFIED, OBLITERATED, TOPSOILED AND SEEDED. SCARIFYING AND OBLITERATING THE PAVEMENT WILL BE MEASURED AND PAID FOR UNDER ITEM 202-03.01. TOPSOIL, IN ACCORDANCE WITH SECTION 203 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEMS 203-04. SEEDING, IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, WILL BE MEASURED AND PAID FOR UNDER ITEM 801-01.

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

(6) ITEM NO. 801-01.02 SHALL BE USED ON SLOPES 3:1 OR STEEPER AND OTHER AREAS AS INDICATED IN THE PLANS THAT ARE INACCESSIBLE FOR MOWING.

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

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

GUARDRAIL

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

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

DRAINAGE

(11) 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.

(12) EXCAVATION FOR ALL DRAINAGE ITEMS 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).

(13) 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).

(14) 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.

(15) 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.

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

FENCING

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

(18) 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.

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

(20) THE CONTRACTOR SHALL BE REQUIRED TO INSTALL ACCESS CONTROL FENCES PRIOR TO CUTTING EXISTING STOCK FENCES IN AREAS UTILIZED BY DOMESTIC LIVESTOCK OR OTHER AREAS AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS

(21) 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.

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

(23) 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

(24) 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 MARKING ON INTERMEDIATE LAYERS

(25) 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.

FINAL PAVEMENT MARKING

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

(27) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 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.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

(28) BEFORE OPENING S.R. 186, S.R. 5, AND I-40 TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. THESE MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 712-09.01, REMOVABLE PAVEMENT MARKING LINE, LIN. FT. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COST WILL BE INCLUDED IN ITEM NO. 712-01, TRAFFIC CONTROL, LUMP SUM.

PAVEMENT

PAVING

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

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

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

RESURFACING

(32) 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.

(33) 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.

(34) ON CURB AND GUTTER SECTIONS, PUBLIC ROAD INTERSECTIONS SHALL BE RESURFACED TO THE END OF RADIUS. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD SHALL BE PROVIDED.

(35) 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.

SEALED BY

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REGISTERED ENGINEER
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No. 115545
STATE OF TENNESSEE
06/06/2017

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-I-40-1(348)	2C1

GENERAL NOTES CONT'D.

SIGNING

(36) 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.

(37) 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.

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

(39) 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.

(40) THE CONTRACTOR SHALL BE REQUIRED TO FURNISH LAYOUT DRAWINGS (3 SETS) OF ALL EXTRUDED PANEL SIGNS WITH SPACING OF ALL LETTERS, NUMERALS, SHIELDS, AND ARROWS. THE LAYOUT DRAWINGS SHALL BE SENT TO THE TRAFFIC OPERATIONS DIVISION, SIGNING SECTION, TELEPHONE NO. (615)-741-0802, SUITE 1200, J. K. POLK BUILDING, NASHVILLE, TN 37243-1402.

(41) ALL SIGNS LOCATED WITHIN THE EXCAVATION LIMITS ARE TO BE REMOVED BY THE CONTRACTOR AND PAID FOR UNDER ITEM 713-15 AND BECOME THE PROPERTY OF THE CONTRACTOR.

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

(43) 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.

(44) 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.

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

TRAFFIC CONTROL DIRECTIONAL SIGNING

(46) ON ALL ACCESS CONTROLLED AND INTERSTATE RECONSTRUCTION AND NEW CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL UTILIZE ALL EXISTING DIRECTIONAL SIGNING FOR AS LONG AS POSSIBLE. THESE EXISTING SIGNS CAN BE MOVED USING TEMPORARY SUPPORTS AS NEEDED. AS SOON AS THESE EXISTING DIRECTIONAL SIGNS COME DOWN PERMANENTLY, THE CONTRACTOR SHALL HAVE UP AT LEAST ONE NEW TEMPORARY "ADVANCE GUIDE SIGN" AND ONE NEW TEMPORARY "EXIT DIRECTIONAL SIGN" AT ALL EXIT RAMPS. THESE SIGNS ARE TO BE MAINTAINED WITHIN CLEAR VIEW OF THE PUBLIC ON THE RIGHT SIDE OF THE HIGHWAY AND SHALL BE REPLACED IF DAMAGED, DURING ALL PHASES OF CONSTRUCTION, AS DIRECTED BY THE ENGINEER.

(47) THE SIZE OF THESE NEW TEMPORARY SIGNS WILL BE DETERMINED BY THE MESSAGE. THE MESSAGE SHALL BE THE SAME AS THE EXISTING SIGN THAT THESE NEW TEMPORARY SIGNS WILL BE REPLACING. THE LETTER SIZE SHALL BE A MINIMUM OF 8 INCH, "D" UPPER CASE LETTER. THE DIRECTIONAL ARROW WILL BE A "B" ARROW AT A 45 DEGREE ANGLE (SAME ANGLE AS THE EXISTING ARROW). THE MATERIAL SHALL BE 0.100 INCH SHEET ALUMINUM; THE COLOR SHALL BE A REFLECTIVE GREEN BACKGROUND WITH REFLECTIVE WHITE COPY.

(48) ALL WORK AND MATERIAL TO MAKE THESE NEW TEMPORARY DIRECTIONAL SIGNS ALONG WITH ADEQUATE SUPPORTS AND TO MOVE THEM AS NEEDED DURING EACH PHASE OF CONSTRUCTION WILL BE PAID FOR UNDER ITEM NO. 712-06, AS DIRECTED BY THE ENGINEER.

(49) SOME OF THESE DIRECTIONAL SIGNS WILL NEED AN INTERSTATE, U.S., OR A STATE HIGHWAY SHIELD, A CARDINAL DIRECTION, AND A DIRECTION ARROW TO ACCOMPANY THE DIRECTIONAL SIGN. THESE SIGNS SHALL BE MOUNTED BELOW THE DIRECTIONAL SIGN.

(50) ALL EXISTING "EMERGENCY REFERENCE MARKERS" AND "HOSPITAL SIGNS" SHALL BE MAINTAINED WITHIN FULL VIEW OF THE MOTORING PUBLIC THROUGHOUT ALL PHASES OF CONSTRUCTION. ALL WORK IN MOVING AND TEMPORARY SUPPORTS SHALL BE PAID FOR UNDER ITEM NO. 712-06.

(51) WHEN "LOGO" SIGNS ARE ON ACCESS CONTROLLED AND INTERSTATE RECONSTRUCTION AND NEW CONSTRUCTION PROJECTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THESE SIGNS IN FULL VIEW TO THE MOTORING PUBLIC DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO THE DEPARTMENT FOR THE REIMBURSEMENT OF THE SIGN FACE IF IT IS DAMAGED. ALL WORK IN MOVING THESE "LOGO" SIGNS AND THE TEMPORARY SUPPORTS ARE TO BE PAID FOR UNDER ITEM NO. 712-06, AS DIRECTED BY THE ENGINEER. THE SUPPORTS FOR THE FINAL LOCATION OF THESE SIGNS WILL BE PAID FOR UNDER OTHER ITEMS OF CONSTRUCTION.

(52) 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

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

(54) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE CITY OF JACKSON AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE CITY OF JACKSON.

(55) IF RESURFACING IS INCLUDED IN THE PROJECT, SIGNAL DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.

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

(57) SIGNAL HEADS SHALL FLASH A MINIMUM OF SEVEN (7) DAYS PRIOR TO ACTIVATION OF THE SIGNAL.

(58) THE CONTRACTOR SHALL CONTACT SCOTT CHANDLER AND/OR KRIS GORDON WITH THE CITY OF JACKSON @ (731) 425-8220 A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE SIGNAL TO OBTAIN THE INITIAL SIGNAL TIMINGS PROVIDED BY THE STATE.

(59) THE PROJECT ENGINEER SHALL NOTIFY THE LOCAL GOVERNMENTAL AGENCY RESPONSIBLE FOR TRAFFIC CONTROL MAINTENANCE AT LEAST ONE DAY IN ADVANCE OF THE COLD PLANING ACTIVITY AT SIGNALIZED INTERSECTIONS WHERE DETECTOR LOOPS ARE ON THE PAVEMENT. THE MAINTAINING AGENCY WILL THEN BE RESPONSIBLE FOR DISCONNECTING THE LOOP DETECTORS AND MAKING ANY NECESSARY TIMING ADJUSTMENTS IN THE SIGNAL CONTROLLER PRIOR TO THE CONSTRUCTION.

(60) THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR SUPPLYING THE CONTRACTOR WITH AS BUILT SIGNAL PLANS AT THE PRE-CONSTRUCTION CONFERENCE. THESE PLANS WILL PROVIDE THE CONTRACTOR WITH THE DESIRED LOCATION FOR DETECTOR LOOP REPLACEMENT.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(61) 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.

(62) 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.

(63) 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.

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

(65) USE OF BARRICADES, PORTABLE BARRIER RAILS, VERTICAL PANELS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 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.

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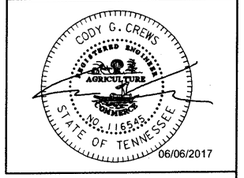

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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TENNESSEE D.O.T.
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GENERAL NOTES CONT'D.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

(66) 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.

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

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

LIGHTING

(69) INSTALLATION AND MATERIALS SHALL COMPLY WITH SECTIONS 714 AND 917 OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 1, 2015 AND WITH THE LATEST REVISIONS TO THE NATIONAL ELECTRIC CODE, NFPA 70.

(70) ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 2-INCH SCHEDULE 40 PVC RIGID CONDUIT.

(71) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THW INSULATION.

(72) EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF SIX INCHES BELOW GRADE.

(73) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.

(74) LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.

(75) STANDARDS SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

(76) STANDARDS SHALL BE DESIGNED FOR 80-MPH WIND PRESSURE AND SHALL SUPPORT A 62-POUND LUMINAIRE ON A 15-FOOT ARM.

(77) ALL NEW ROADWAY LIGHT STANDARDS SHALL BE MOUNTED ON BASES WITH ACCESS DOOR. TRANSFORMER BASES SHALL MEET AASHTO SPECIFICATIONS AND HAVE FHWA APPROVAL. STANDARDS SHALL BE ALUMINUM WITH TRANSFORMER BASES.

(78) BRACKET ARMS SHALL BE ROUND TAPERED TRUSS TYPE WITH STRAP MOUNTING AND LENGTHS AS SCHEDULED.

(79) BRACKET ARM UPSWEEP SHALL BE THE SAME FOR ALL LIGHT STANDARDS OF THE SAME TYPE.

EROSION PREVENTION AND SEDIMENT CONTROL

NATURAL RESOURCES

(80) 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.

(81) 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.

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

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

(84) 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.

(85) 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.

(86) 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.

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

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

SPECIES

(89) 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.

(90) 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).

INSPECTION, MAINTENANCE & REPAIR

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

PERMITS, PLANS & RECORDS

(92) 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).

(93) 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.

(94) 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.

(95) 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

(96) 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

(97) 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.

(98) 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.

(99) 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.

(100) 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.

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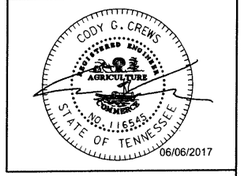

STATE OF TENNESSEE
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GENERAL NOTES

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TENNESSEE D.O.T.
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GENERAL NOTES CONT'D.

GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

(101) 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.

(102) 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.

(103) 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.

(104) 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.

(105) 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.

(106) 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.

(107) 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.

(108) 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

(109) 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.

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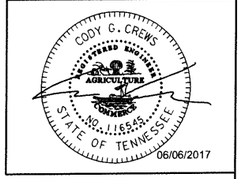

STATE OF TENNESSEE
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SPECIAL NOTES

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.

DEMOLITION

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

(6) 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).

(7) 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.

(8) 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.

RETAINING WALLS

(9) THE EXISTING RIGHT-OF-WAY BETWEEN STATION 151+00 TO STATION 308+40 SHALL REMAIN CLEAR FOR THE CONSTRUCTION OF THE RETAINING WALL. NO UTILITY LINES MAY BE PLACED THERE WITHOUT APPROVAL FROM STRUCTURES DIVISION.

(10) THE OPTIONS FOR RETAINING WALL TYPES SHALL BE LIMITED TO THE APPROVED ALTERNATIVES AS SPECIFIED ON THE RETAINING WALL SHEET(S).

(11) VALUE ENGINEERING CHANGE PROPOSALS WILL NOT BE ACCEPTED FOR RETAINING WALLS. (ITEM NUMBER(S): 604-07.07, 604-07.08, 604-07.09, 604-07.10, 604-07.11, 604-07.12, 604-07.13, 604-07.14, 604-07.15, 604-07.16, 604-07.17, 604-07.18, 604-07.19, 604-07.20, 604-07.21)

(12) ALL COST OF BUILDING, INSTALLING AND BACKFILLING THE RETAINING WALL SHALL BE INCLUDED IN THE COST OF THE RETAINING WALL.

PAVEMENT

RESURFACING

(13) TRAFFIC WILL BE ALLOWED TO TEMPORARILY DRIVE ON THE MILLED SURFACE OF THE ROADWAY UNDER THE FOLLOWING CONDITIONS ONLY:

A. THE MILLED SURFACE IS FINE TEXTURED. THE FINE TEXTURE SHALL BE OBTAINED BY A MILLING MACHINE UTILIZING A MILLING HEAD WITH TEETH SPACING 3/8" OR LESS OPERATING AT LESS THAN 80 FEET PER MINUTE.

B. THE SURFACE SHALL BE SWEPT AND CLEANED OF ALL LOOSE MATERIALS.

C. THE DIFFERENCE IN ELEVATION BETWEEN THE MILLED SURFACE AND THE ADJACENT LANE SHALL NOT EXCEED 1 1/2 INCHES.

D. RAIN OR INCLEMENT WEATHER IS NOT EXPECTED OR FORECASTED WITHIN 48 HOURS AFTER MILLING.

E. ALL APPLICABLE SIGNING IS INSTALLED IN ACCORDANCE WITH THE MUTCD SIGNING SHALL INCLUDE MOTORCYCLE WARNING SIGNS (TN-64) PLACED IN ADVANCE OF ANY MILLED AREAS.

F. IF MILLED SURFACE BEGINS TO DETERIORATE, PAVING TO COVER UP DETERIORATING MILLED SURFACES SHOULD OCCUR AS DIRECTED BY THE ENGINEER DURING THE NEXT WORKING DAY. IF SEVERE DISTRESS OCCURS, IMMEDIATE RESPONSE WILL BE REQUIRED.

HISTORICAL

(14) 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

(15) 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

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

ECOLOGY

(17) 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.

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

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

PROJECT COMMITMENTS

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

SEALED BY

CODY G. CREWS
LICENSED LANDSCAPE ARCHITECT
AGRICULTURE
LANDSCAPE ARCHITECTURE
No. 1165
STATE OF TENNESSEE
06/06/2017

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SPECIAL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	42
CONST.	2017	NH-I-40-1(348)	47

DRAINAGE TABLE

DRAINAGE AREA	AREA (ac.)	Q_{50} (cfs)	Q_{100} (cfs)	COEFFICIENT OF RUNOFF	Tc (min.)
1	0.892	6.37	6.82	0.85	5
2	2.225	15.89	17.02	0.85	5
3	10.654	50.71	52.20	0.70	10
4	3.449	17.59	18.11	0.75	10
5	9.795	42.61	44.08	0.75	15
6	5.063	25.82	26.58	0.75	10
7	3.188	21.42	22.95	0.80	5
8	5.029	27.36	28.16	0.80	10
9	128.140	287.20	305.10	0.60	30
10	5.130	27.91	28.73	0.80	10
11	1.982	14.15	15.16	0.85	5
12	3.497	20.21	20.81	0.85	10
13	55.116	142.20	155.43	0.60	30
14	4.759	25.89	26.65	0.80	10
15	80.970	174.09	190.28	0.50	30
16	9.069	34.19	35.37	0.65	15
17	22.298	85.88	91.76	0.85	15
18	67.200	158.93	173.71	0.55	30
19	55.397	135.78	148.41	0.57	30
20	9.046	43.06	44.33	0.70	10
21	257.160	603.48	671.18	0.45	30
22	4.107	27.60	29.57	0.80	5
23	86.019	207.13	226.40	0.56	30
24	0.748	5.34	5.72	0.85	5
25	15.869	64.43	66.65	0.70	15

BEGIN (CONST.) PROJECT NO. NH-I-40-1(348)
I-40 (MADISON COUNTY) STA. 151+50.00
N 494875.2667
E 1116002.5659

STA. 136+03.87 ℄ I-40=
STA. 30+00.00 ℄ S.R. 20 (HOLLYWOOD DR.)
N 494255.3787
E 1114586.1943

STA. 129+61.18 ℄ I-40=
℄ WEST TENNESSEE RAILROAD, LLC
(NEAR MILE POST 12)
N 493995.9843
E 1113998.1683

N

④ DRAINAGE AREA
3.449 ACRES
C=0.75
Q50=17.59 cfs
Q100=18.11 cfs

⑤ DRAINAGE AREA
9.795 ACRES
C=0.75
Q50=42.61 cfs
Q100=44.08 cfs

⑥ DRAINAGE AREA
5.063 ACRES
C=0.75
Q50=25.82 cfs
Q100=26.58 cfs

⑦ DRAINAGE AREA
3.188 ACRES
C=0.80
Q50=21.42 cfs
Q100=22.95 cfs

⑧ DRAINAGE AREA
5.029 ACRES
C=0.80
Q50=27.36 cfs
Q100=28.16 cfs

③ DRAINAGE AREA
10.654 ACRES
C=0.70
Q50=50.71 cfs
Q100=52.20 cfs

EXTEND 42" RCP

PROPOSED 18" RCP

PROPOSED ℄ I-40

HOLLYWOOD DR. SR-20 (U.S. 412)

MATCH LINE STA. 177+00 SEE SHEET 48

SEALED BY

CODY G. CREWS
REGISTERED ENGINEER
AGRICULTURE
No. 115545
STATE OF TENNESSEE
06/06/2017

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

I-40
STA. 127+00 TO STA. 177+00
SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	43
CONST.	2017	NH-I-40-1(348)	48

SEE SHEET 47 FOR DRAINAGE TABLE

N

BEGIN ℄ RAMP "L" STA. 740+00.00=
℄ I-40 STA. 205+03.86 OFF 62.00' RT.

END ℄ RAMP "F" STA. 643+68.88=
℄ I-40 STA. 192+17.89 OFF 74.00' LT.

BEGIN ℄ RAMP "M" STA. 760+00.00=
℄ I-40 STA. 190+78.81 OFF 62.00' RT.

LIMIT OF CONST.
STA. 429+05.75

BEGIN ℄ RAMP "H" STA. 670+00.00=
℄ I-40 STA. 215+61.38 OFF 62.00' LT.

(9) DRAINAGE AREA
128.140 ACRES
C=0.60
Q50=287.20 cfs
Q100=305.10 cfs

(11) DRAINAGE AREA
1.982 ACRES
C=0.85
Q50=14.15 cfs
Q100=15.16 cfs

(12) DRAINAGE AREA
3.497 ACRES
C=0.85
Q50=20.21 cfs
Q100=20.81 cfs

(13) DRAINAGE AREA
55.116 ACRES
C=0.60
Q50=142.20 cfs
Q100=155.43 cfs

(16) DRAINAGE AREA
9.069 ACRES
C=0.65
Q50=34.19 cfs
Q100=35.37 cfs

(17) DRAINAGE AREA
22.298 ACRES
C=0.85
Q50=85.88 cfs
Q100=91.76 cfs

(14) DRAINAGE AREA
4.759 ACRES
C=0.80
Q50=25.89 cfs
Q100=26.55 cfs

(10) DRAINAGE AREA
5.130 ACRES
C=0.80
Q50=27.91 cfs
Q100=28.73 cfs

(15) DRAINAGE AREA
80.970 ACRES
C=0.50
Q50=174.09 cfs
Q100=190.28 cfs

EXISTING 54" RCP
EXISTING 15" RCP
EXISTING 36" RCP
EXISTING 48" RCP
EXISTING 18" RCP
EXISTING 48" CMP
PROP. 60" RCP
EXTEND 30" RCP
EXTEND 36" RCP

RAMP F
RAMP G
RAMP H
RAMP J
RAMP K
RAMP L
RAMP M

PROPOSED ℄ I-40
PROP. ℄ S.R. 186

MATCH LINE STA. 177+00 SEE SHEET 47
MATCH LINE STA. 229+00 SEE SHEET 49

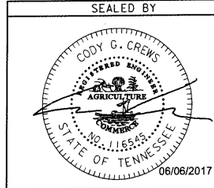
STA. 203+21.32 ℄ I-40=
STA. 417+18.12 ℄ S.R. 186 (45-BY-PASS)
N 496647.2132
E 1120860.7869

END ℄ RAMP "J" STA. 708+38.85=
℄ I-40 STA. 218+93.61 OFF 62.00' RT.

MATCH ADJACENT PROJECT
NH-186(15)
S.P. 57009-22646-14

LIMIT OF CONST.
STA. 407+00.00

SEALED BY



COORDINATES ARE NAD/83(1995), ARE DATUM ADJUSTED BY THE FACTOR OF 1.000 AND TIED TO THE TGRN. ALL ELEVATIONS ARE REFERENCED TO THE NAVD 1988.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

I-40
STA. 177+00 TO STA. 229+00
SCALE: 1"=200'

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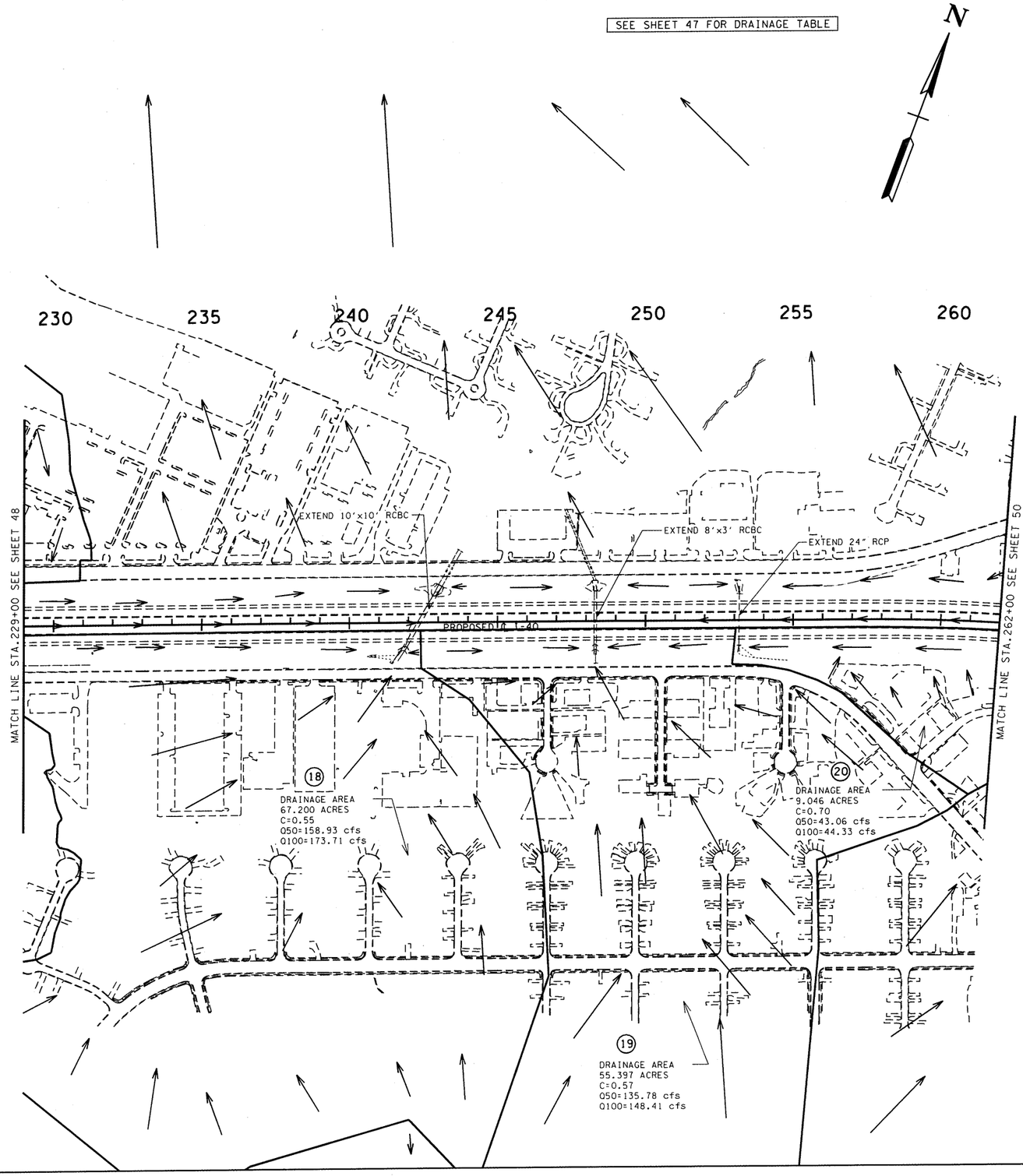
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	44
CONST.	2017	NH-I-40-1(348)	49

SEE SHEET 47 FOR DRAINAGE TABLE



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CODY G. CREWS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 119545
STATE OF TENNESSEE

06/06/2017

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

I-40
STA. 229+00 TO STA. 262+00
SCALE: 1"=200'

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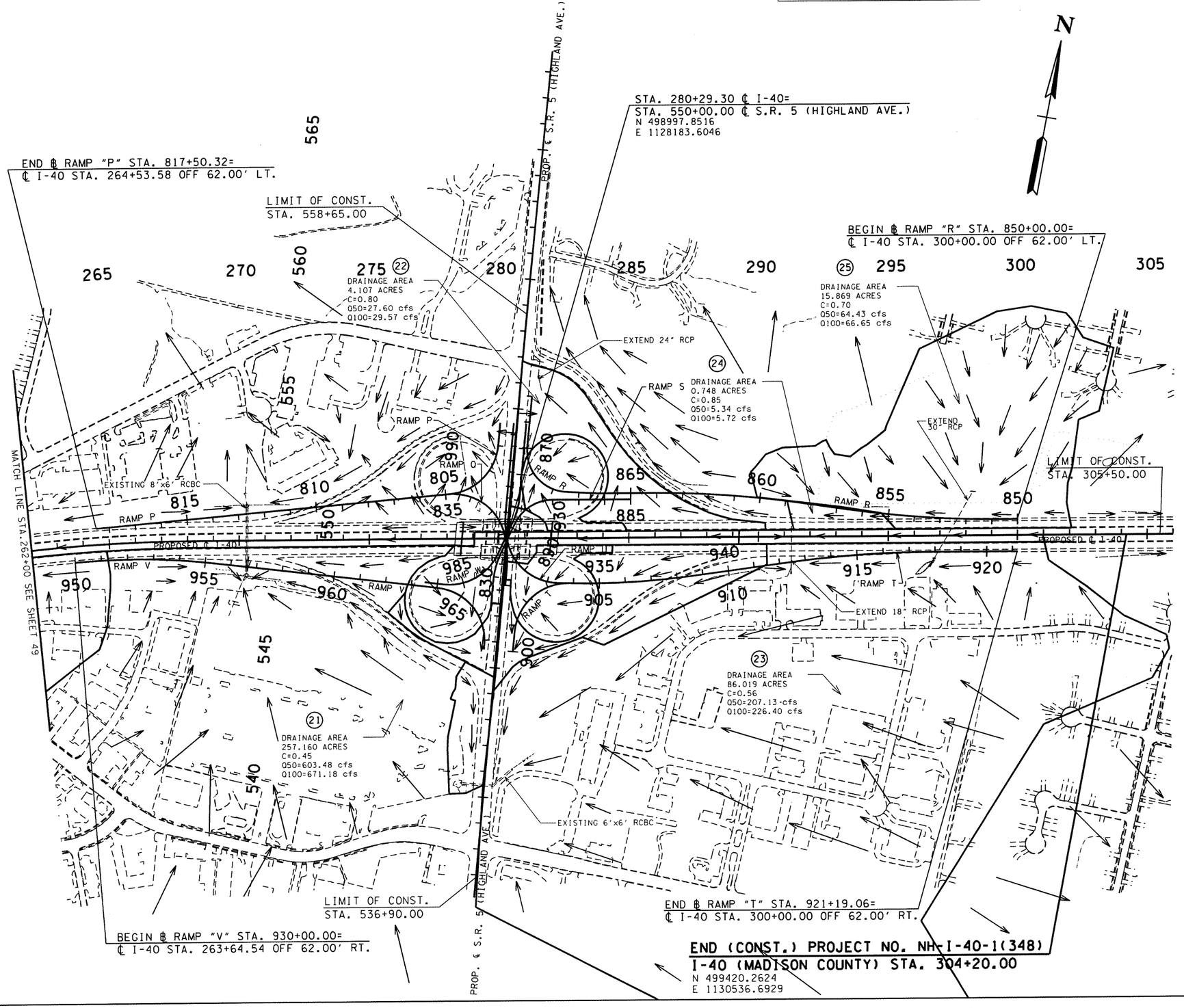
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	45
CONST.	2017	NH-I-40-1(348)	50

SEE SHEET 47 FOR DRAINAGE TABLE



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CODY G. CREWS
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COMMERCE
No. 115545
STATE OF TENNESSEE
06/06/2017

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP

I-40
STA. 262+00 TO E.O.P.
SCALE: 1"=200'

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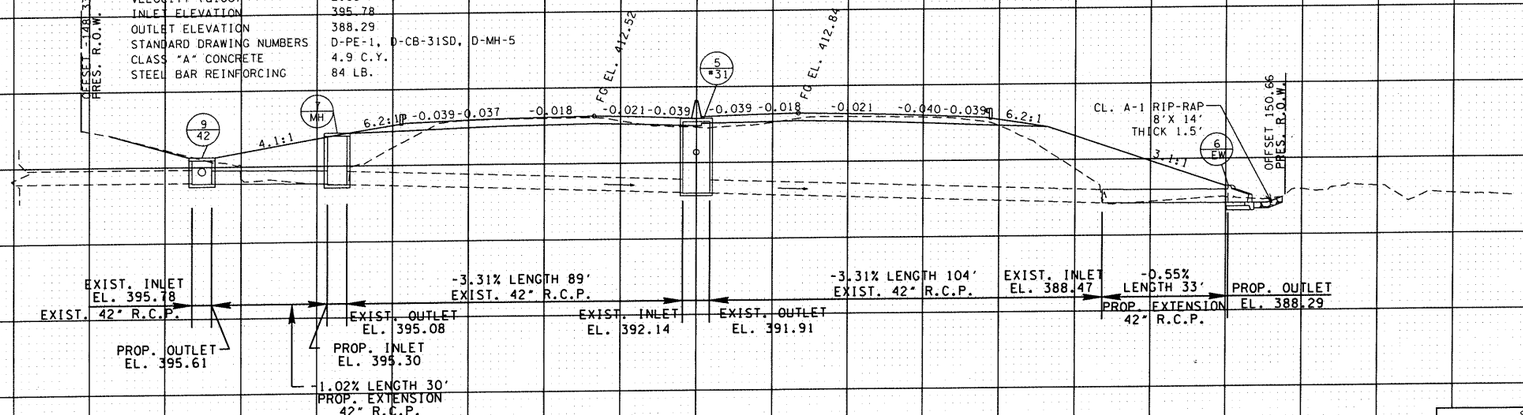
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	46
CONST.	2017	NH-I-40-1(348)	51

REV. 04/26/2017
UPDATED CULVERT XS TO REFLECT PROPOSED DRAINAGE REVISIONS.

STATION	170+51.32
STRUCTURE	256' OF 42" RCP (63' PROPOSED)
SKEW	75° RT.
DRAINAGE AREA	5.029 AC.
DESIGN DISCHARGE (Q50)	27.36 CFS
DESIGN DISCHARGE (Q100)	28.16 CFS
OVERTOPPING ELEV.	411.12
ALLOWABLE HEADWATER ELEV.	408.58
Q50 HEADWATER ELEV.	398.78
Q100 HEADWATER ELEV.	398.80
VELOCITY (Q50)	2.84 FT/S
VELOCITY (Q100)	2.93 FT/S
INLET ELEVATION	395.78
OUTLET ELEVATION	388.29
STANDARD DRAWING NUMBERS	D-PE-1, D-CB-31SD, D-MH-5
CLASS "A" CONCRETE	4.9 C.Y.
STEEL BAR REINFORCING	84 LB.



I-40
170+51.32

SEALED BY

CODY G. CREWS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 116345
STATE OF TENNESSEE
06/06/2017

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 170+51.32

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

480 460 440 420 400 380 360

280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

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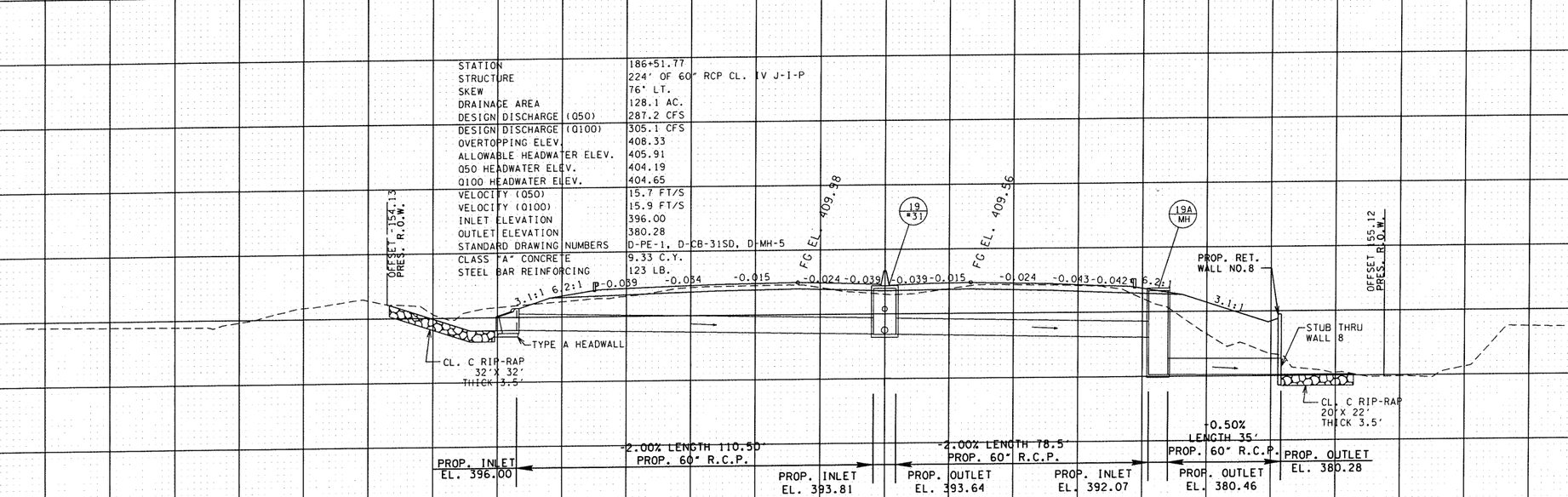
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	47
CONST.	2017	NH-I-40-1(348)	52

REV. 04/26/2017
UPDATED CULVERT XS TO REFLECT PROPOSED DRAINAGE REVISIONS.

STATION	186+51.77
STRUCTURE	224' OF 60" RCP CL. IV J-I-P
SKEW	76° LT.
DRAINAGE AREA	128.1 AC.
DESIGN DISCHARGE (Q50)	287.2 CFS
DESIGN DISCHARGE (Q100)	305.1 CFS
OVERTOPPING ELEV.	408.33
ALLOWABLE HEADWATER ELEV.	405.91
Q50 HEADWATER ELEV.	404.19
Q100 HEADWATER ELEV.	404.65
VELOCITY (Q50)	15.7 FT/S
VELOCITY (Q100)	15.9 FT/S
INLET ELEVATION	396.00
OUTLET ELEVATION	380.28
STANDARD DRAWING NUMBERS	D-PE-1, D-CB-31SD, D-MH-5
CLASS "A" CONCRETE	9.33 C.Y.
STEEL BAR REINFORCING	123 LB.



I-40
186+51.77

SEALED BY

CODY G. CREWS
REGISTERED ENGINEER
AGRICULTURE
COMPANY
NO. 115545
STATE OF TENNESSEE
06/06/2017

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA. 186+51.77

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

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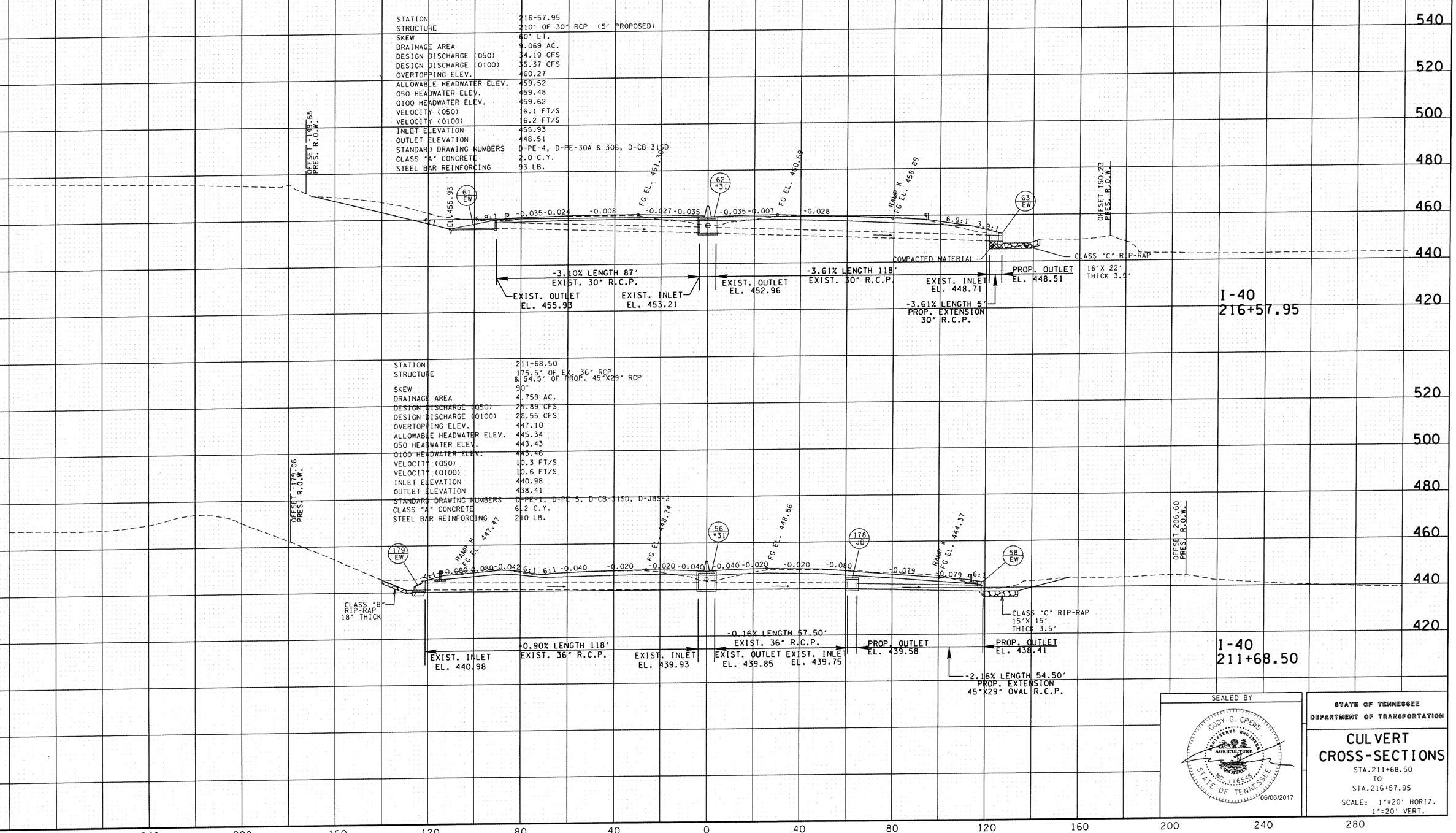
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	48
CONST.	2017	NH-I-40-1(348)	53

REV. 04/26/2017
UPDATED CULVERT XS TO REFLECT PROPOSED DRAINAGE REVISIONS.

STATION	216+57.95
STRUCTURE	210' OF 30" RCP (5' PROPOSED)
SKEW	60° LT.
DRAINAGE AREA	9.069 AC.
DESIGN DISCHARGE (Q50)	34.19 CFS
DESIGN DISCHARGE (Q100)	35.37 CFS
OVERTOPPING ELEV.	460.27
ALLOWABLE HEADWATER ELEV.	459.52
Q50 HEADWATER ELEV.	459.48
Q100 HEADWATER ELEV.	459.62
VELOCITY (Q50)	16.1 FT/S
VELOCITY (Q100)	16.2 FT/S
INLET ELEVATION	455.93
OUTLET ELEVATION	448.51
STANDARD DRAWING NUMBERS	D-PE-4, D-PE-30A & 30B, D-CB-31SD
CLASS "A" CONCRETE	2.0 C.Y.
STEEL BAR REINFORCING	93 LB.



STATION	211+68.50
STRUCTURE	175.5' OF EX. 36" RCP & 54.5' OF PROP. 45"X29" RCP
SKEW	90°
DRAINAGE AREA	4.759 AC.
DESIGN DISCHARGE (Q50)	25.89 CFS
DESIGN DISCHARGE (Q100)	26.55 CFS
OVERTOPPING ELEV.	447.10
ALLOWABLE HEADWATER ELEV.	445.34
Q50 HEADWATER ELEV.	443.43
Q100 HEADWATER ELEV.	443.46
VELOCITY (Q50)	10.3 FT/S
VELOCITY (Q100)	10.6 FT/S
INLET ELEVATION	440.98
OUTLET ELEVATION	438.41
STANDARD DRAWING NUMBERS	D-PE-1, D-PE-3, D-CB-31SD, D-JBS-2
CLASS "A" CONCRETE	6.2 C.Y.
STEEL BAR REINFORCING	210 LB.

SEALED BY

CODY G. CREWS
REGISTERED ENGINEER
AGRICULTURE
NO. 116545
STATE OF TENNESSEE
06/06/2017

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.211+68.50
TO
STA.216+57.95

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

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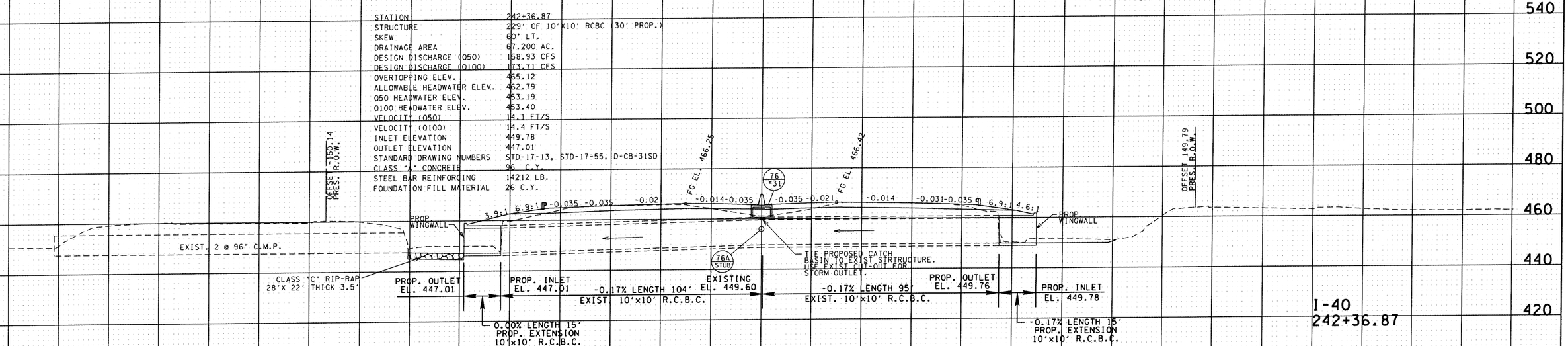
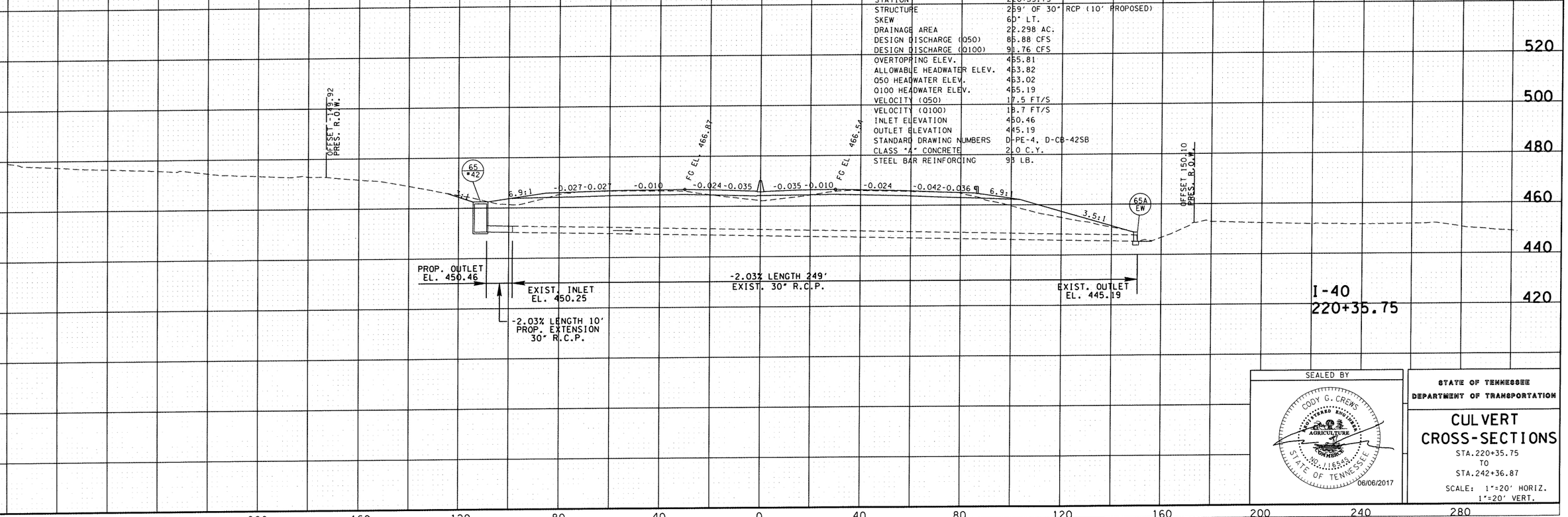
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	49
CONST.	2017	NH-I-40-1(348)	54

REV. 04/26/2017
UPDATED CULVERT XS TO REFLECT PROPOSED DRAINAGE REVISIONS.





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CODY G. CREWS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 115545
STATE OF TENNESSEE
06/06/2017

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.220+35.75
TO
STA.242+36.87

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

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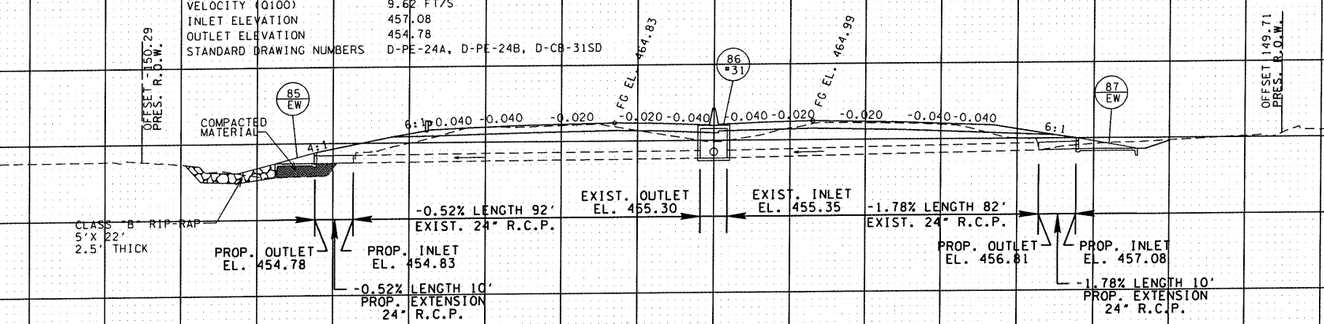
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	49A
CONST.	2017	NH-I-40-1(348)	55

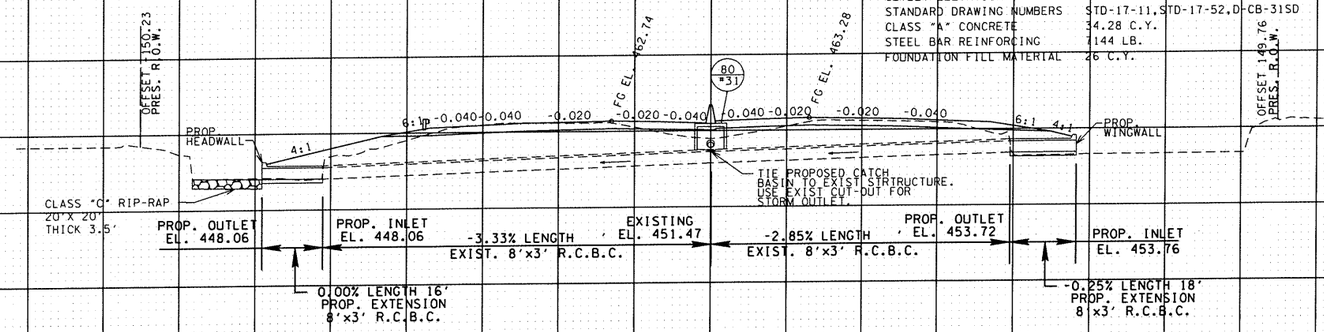
REV. 04/26/2017
UPDATED CULVERT XS TO REFLECT PROPOSED DRAINAGE REVISIONS.

STATION	253+16.34
STRUCTURE	174' OF 24" RCP (20' PROPOSED)
SKEW	90°
DRAINAGE AREA	9.046 AC.
DESIGN DISCHARGE (Q50)	43.06 CFS
DESIGN DISCHARGE (Q100)	44.33 CFS
OVERTOPPING ELEV.	463.55
ALLOWABLE HEADWATER ELEV.	463.55
Q50 HEADWATER ELEV.	463.58
Q100 HEADWATER ELEV.	463.58
VELOCITY (Q50)	9.55 FT/S
VELOCITY (Q100)	9.62 FT/S
INLET ELEVATION	457.08
OUTLET ELEVATION	454.78
STANDARD DRAWING NUMBERS	D-PE-24A, D-PE-24B, D-CB-31SD



I-40
253+16.34

STATION	248+31.79
STRUCTURE	212' OF 8'X3' RCBC (34' PROP.)
SKEW	90°
DRAINAGE AREA	55.397 AC.
DESIGN DISCHARGE (Q50)	135.78 CFS
DESIGN DISCHARGE (Q100)	148.41 CFS
OVERTOPPING ELEV.	461.84
ALLOWABLE HEADWATER ELEV.	459.21
Q50 HEADWATER ELEV.	457.35
Q100 HEADWATER ELEV.	457.58
VELOCITY (Q50)	16.5 FT/S
VELOCITY (Q100)	16.9 FT/S
INLET ELEVATION	453.76
OUTLET ELEVATION	448.06
STANDARD DRAWING NUMBERS	STD-17-11,STD-17-52,D-CB-31SD
CLASS "A" CONCRETE	34.28 C.Y.
STEEL BAR REINFORCING	7144 LB.
FOUNDATION FILL MATERIAL	26 C.Y.



I-40
248+31.76

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CODY G. CREWS
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 116545
STATE OF TENNESSEE
06/06/2017

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.248+31.76
TO
STA.253+16.34

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

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540 520 500 480 460 440 420

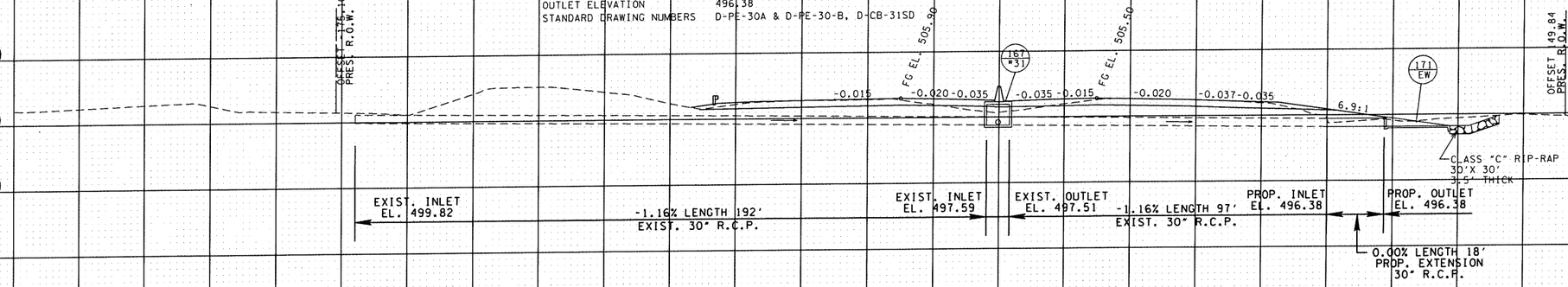
280 240 200 160 120 80 40 0 40 80 120 160 200 240 280

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	49B
CONST.	2017	NH-I-40-1(348)	56

REV. 04/26/2017
UPDATED CULVERT XS TO REFLECT PROPOSED DRAINAGE REVISIONS.

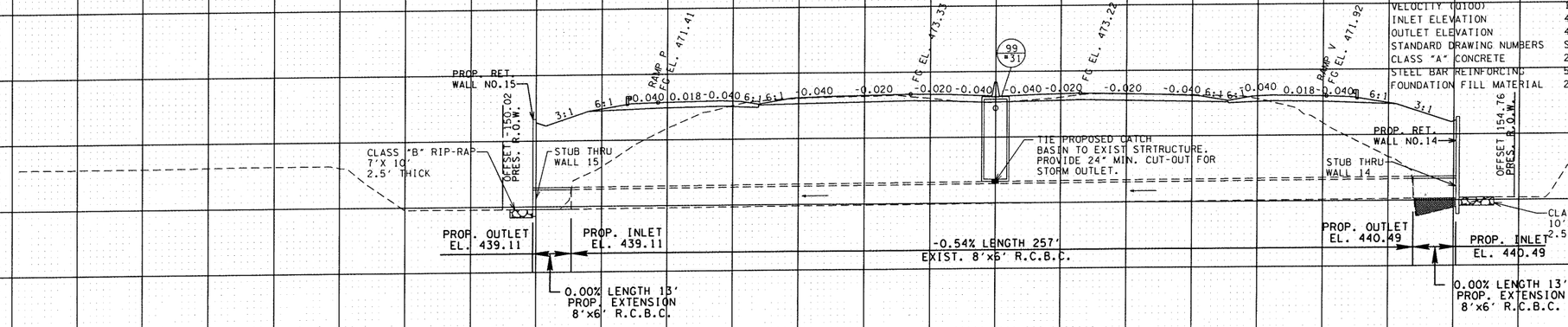
STATION	297+29.06
STRUCTURE	289' OF 30" RCP (18' PROPOSED)
SKEW	60° LT.
DRAINAGE AREA	15.869 AC.
DESIGN DISCHARGE (Q50)	64.43 CFS
DESIGN DISCHARGE (Q100)	66.65 CFS
OVERTOPPING ELEV.	510.26
ALLOWABLE HEADWATER ELEV.	509.26
Q50 HEADWATER ELEV.	508.40
Q100 HEADWATER ELEV.	510.10
VELOCITY (Q50)	14.1 FT/S
VELOCITY (Q100)	13.4 FT/S
INLET ELEVATION	499.82
OUTLET ELEVATION	496.38
STANDARD DRAWING NUMBERS	D-PE-30A & D-PE-30-B, D-CB-31SD

NOTE:
ØVERTOPPING ELEVATION REFERS TO TOP OF BERM NEAR INLET NOT ROADWAY



I-40
297+29.06

STATION	270+30.45
STRUCTURE	283' OF 8'X6' RCBC (26' PROPOSED)
SKEW	90°
DRAINAGE AREA	257.20 AC.
DESIGN DISCHARGE (Q50)	603.48 CFS
DESIGN DISCHARGE (Q100)	671.18 CFS
OVERTOPPING ELEV.	471.60
ALLOWABLE HEADWATER ELEV.	469.40
Q50 HEADWATER ELEV.	451.52
Q100 HEADWATER ELEV.	453.03
VELOCITY (Q50)	14.9 FT/S
VELOCITY (Q100)	13.9 FT/S
INLET ELEVATION	440.49
OUTLET ELEVATION	439.11
STANDARD DRAWING NUMBERS	STD-17-52, D-CB-31SD
CLASS "A" CONCRETE	24.44 C.Y.
STEEL BAR REINFORCING	5460 LB.
FOUNDATION FILL MATERIAL	20 C.Y.



I-40
270+30.45

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CODY G. CREWS
REGISTERED ENGINEER
DEPARTMENT OF AGRICULTURE
DEPARTMENT OF COMMERCE
NO. 116545
STATE OF TENNESSEE
06/06/2017

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

CULVERT CROSS-SECTIONS

STA.270+30.45
TO
STA.297+29.06

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

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	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50
CONST.	2017	NH-I-40-1(348)	57

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

STREAMS, WETLANDS, AND BUFFER ZONES

(1) ANY WORK WITHIN THE STREAM CHANNEL AREA (E.G., FOR PIER FOOTING, RIP-RAP PLACEMENT, MULTI-BARREL CULVERT/BRIDGE CONSTRUCTION, ETC.) SHALL BE SEPARATED FROM FLOWING WATER OR EXPECTED FLOW PATH AND PERFORMED DURING LOW FLOW CONDITIONS. ALL ITEMS USED WITHIN THE STREAM CHANNEL AREA FOR DIVERSION OF FLOW (OR EXPECTED FLOW), UNLESS SPECIFIED IN THE PLANS, SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE INCLUDED IN THE COST OF OTHER ITEMS. THIS NOTE EXCLUDES ANY ITEMS SPECIFIED IN THE PLANS FOR THE TEMPORARY DIVERSION CHANNELS, EC-STR-31 AND TEMPORARY DIVERSION CULVERTS, EC-STR-32 FOR SINGLE BARREL CULVERT CONSTRUCTION.

ENVIRONMENTAL

(2) 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.

SPECIAL PROJECT NOTES

CULVERT CONSTRUCTION WITHIN STREAMS

(3) THE PROPOSED CULVERT EXTENSIONS WITHIN STREAMS 2, 3, 4, AND 5 SHALL BE CONSTRUCTED DURING A "NO FLOW" PERIOD. THE CONTRACTOR SHALL PLAN HIS WORK SO THAT THE PROPOSED CULVERT, IN-STREAM MANHOLES, BOXES, WINGWALLS, ENDWALLS, STREAM STABILIZATION, ETC. ARE COMPLETED WITHIN THE SAME "NO FLOW" PERIOD. THE CONTRACTOR SHALL PUMP ANY SEEPAGE WATER FROM THE WORK AREA INTO SEDIMENT FILTER DEVICES PRIOR TO RELEASING DOWNSTREAM.

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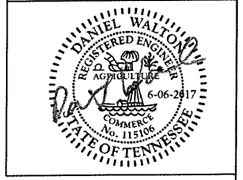

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50
CONST.	2017	NH-I-40-1(348)	57A

EPSC QUANTITIES

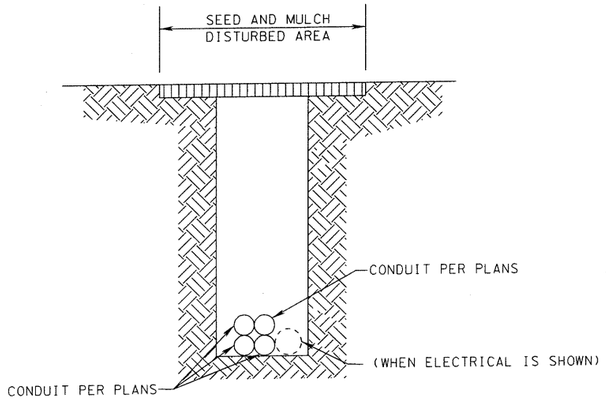
	ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
	203-01	ROAD & DRAIN EXCAVATION (UNCLASSIFIED)	C.Y.	9641
	209-02.05	12" TEMPORARY SLOPE DRAIN	L.F.	311
	209-05	SEDIMENT REMOVAL	C.Y.	2004
	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	19662
	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	L.F.	61452
	209-08.05	ENHANCED SILT FENCE CHECK (V-DITCH)	EACH	73
	209-08.07	ROCK CHECK DAM	EACH	7
	209-08.08	ENHANCED ROCK CHECK DAM	EACH	50
	209-09.01	SANDBAGS	BAG	4500
	209-09.03	SEDIMENT FILTER BAG (15' X 15')	EACH	10
	209-09.43	CURB INLET PROTECTION (TYPE 4)	EACH	177
(4)	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	S.Y.	600
	209-40.30	CATCH BASIN PROTECTION (TYPE A)	EACH	26
	209-40.33	CATCH BASIN PROTECTION (TYPE D)	EACH	60
	209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EACH	39
	209-40.44	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EACH	138
	209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EACH	31
	209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EACH	4
	209-40.48	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	EACH	2
	303-10.01	MINERAL AGGREGATE (SIZE 57)	TON	150
	621-03.04	30" TEMPORARY DRAINAGE PIPE	L.F.	260
	621-03.07	48" TEMPORARY DRAINAGE PIPE	L.F.	625
	707-08.11	HIGH-VISIBILITY CONSTRUCTION FENCE	L.F.	189
	709-05.05	MACHINED RIPRAP (CLASS A-3)	TON	1200
	709-05.06	MACHINED RIPRAP (CLASS A-1)	TON	1361
(1)	740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	S.Y.	2533
(2)	740-11.02	TEMPORARY SEDIMENT TUBE 12IN	L.F.	26257
(3)	801-01	SEEDING (WITH MULCH)	UNIT	670
	801-01.02	CROWN VETCH MIXTURE (WITH MULCH)	UNIT	101
	801-02	SEEDING (WITHOUT MULCH)	UNIT	85
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	UNIT	1411
	801-02.08	TEMPORARY SEEDING (WITHOUT MULCH)	UNIT	85
	801-02.15	FERTILIZER	TON	15
	801-03	WATER (SEEDING & SODDING)	M.G.	2294
	803-01	SODDING (NEW SOD)	S.Y.	215288
	805-12.01	EROSION CONTROL BLANKET (TYPE I)	S.Y.	7084
	805-12.02	EROSION CONTROL BLANKET (TYPE II)	S.Y.	2329

(1) INCLUDES 2060 S.Y. FOR TEMPORARY CONSTRUCTION EXITS

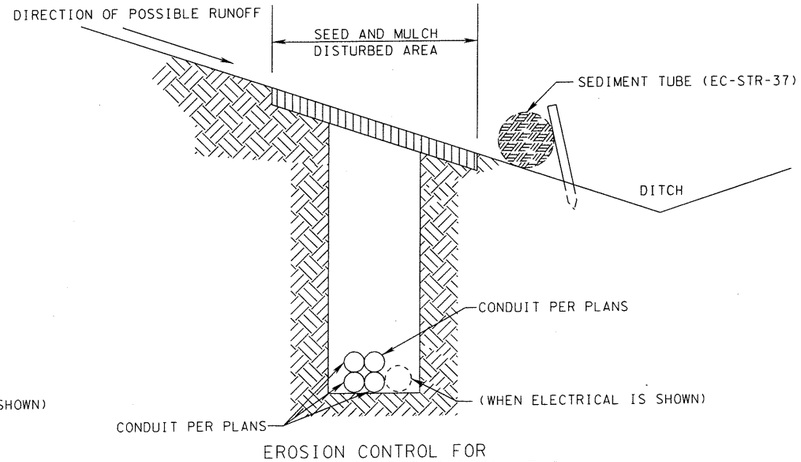
(2) INCLUDES 2500 L.F. FOR ITS, SIGNAL AND LIGHTING CONSTRUCTION

(3) INCLUDES 55 UNITS FOR ITS, SIGNAL AND LIGHTING CONSTRUCTION, 305 UNITS FOR PERMENANT AND TEMPORARY PAVEMENT REMOVAL, AND 309 UNITS FOR EXCESS

(4) INCLUDES 300 S.Y. FOR SUSPENDED PIPE DIVERSIONS AND 300 S.Y. TO BE USED AS DIRECTED BY THE ENGINEER.



EROSION CONTROL FOR
TYPICAL TRENCH CONFIGURATION
FOR COMMUNICATION AND POWER
CONDUITS IN EARTH
N.T.S.



EROSION CONTROL FOR
TYPICAL TRENCH CONFIGURATION NEAR
STREAMS FOR COMMUNICATION AND POWER
CONDUITS IN EARTH
N.T.S.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.	
SFB BJS BJS BJS SFB	SEDIMENT FILTER BAG	EC-STR-2	
SF SF SF SF	SILT FENCE	EC-STR-3B	(1)
SFB SFB SFB	SILT FENCE WITH WIRE BACKING	EC-STR-3C	(1)
	ENHANCED SILT FENCE CHECK (V-DITCH)	EC-STR-4A	
	ROCK CHECK DAM (V-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	
	CULVERT PROTECTION (TYPE 1)	EC-STR-11	
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A	
A	CATCH BASIN PROTECTION (TYPE A)	EC-STR-19	
D	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19	
TCE	TEMPORARY CONSTRUCTION EXIT	EC-STR-25	
	RIPRAP	EC-STR-27	
	TEMPORARY BERM	EC-STR-27	
	TEMPORARY SLOPE DRAIN	EC-STR-27	
	TEMPORARY SLOPE DRAIN WITH TEMPORARY BERM	EC-STR-27	
	SUSPENDED PIPE DIVERSION	EC-STR-33 EC-STR-33A	
	EROSION CONTROL BLANKET	EC-STR-34	
TUBE TUBE TUBE	SEDIMENT TUBE	EC-STR-37	
4	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A	
1	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41	
4	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44	
6	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46	
7	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	EC-STR-47	
8	CATCH BASIN FILTER ASSEMBLY (TYPE 8)	EC-STR-48	
HVF HVF	HIGH VISIBILITY FENCE	S-F-1	
OUT - 1	STORMWATER OUTFALL		

(1) PROVIDE "J" HOOKS WHEN NOT PARALLEL WITH CONTOURS.

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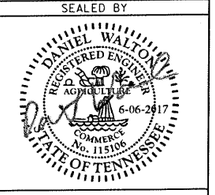

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION & SEDIMENT CONTROL (EPSC) LEGEND & TABULATION

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50X
CONST.	2017	NH-I-40-1(348)	57B

STORM WATER OUTFALLS STAGE 1

OUTFALL NO.	DRAINAGE AREA (AC.)	PERCENT SLOPE (%)
11	1.62	1.88
12	0.91	2.05
13A	0.97	0.58
13B	1.95	3.46
13C	0.70	2.67
13D	0.39	10.17
14	2.44	1.91
14A	2.40	4.60
14B	3.35	0.99
15	2.87	3.22
16	1.75	4.01
16A	0.93	0.34
16B	1.74	1.02
16C	0.19	0.91
17	3.26	8.48
17A	2.90	13.66
17B	0.50	2.47
17C	0.30	2.47
17D	1.16	2.06
17E	2.76	2.82
17F	2.96	8.44
17G	1.80	2.74
18	0.85	3.69
18A	1.61	3.81
19	1.85	2.99
20	0.82	3.66
21	0.46	4.37
21A	1.53	1.19
21B	0.73	0.41
22	2.06	3.06
22A	2.29	1.78
23	3.80	1.53
23A	2.08	0.70
23B	4.11	1.36
24	1.66	1.36
24A	1.15	1.19
24B	1.29	0.70
24C	1.33	2.56
24D	0.67	3.62
25	3.81	0.68
25A	2.66	0.35
26	4.69	1.13
26A	3.74	1.21
26B	1.03	2.93
27	1.86	5.77
28	2.20	2.90
29	0.73	2.95
29A	2.91	3.53
29B	2.91	2.91
29C	3.04	6.54
30	1.29	0.41
31	0.11	0.89
31A	1.27	1.10
31B	0.82	5.38
31C	2.25	10.21
31D	2.49	7.42
31E	1.35	0.48
31F	0.85	3.82
31G	1.14	2.29
31H	1.94	2.52

STORM WATER OUTFALLS STAGE 1 (CONT'D.)

OUTFALL NO.	DRAINAGE AREA (AC.)	PERCENT SLOPE (%)
32	0.27	3.57
32A	0.82	4.10
32B	0.47	4.62
32C	1.04	2.17
33	2.17	2.32
34	1.34	1.26
34A	1.45	0.44
34B	4.15	0.57

STORM WATER OUTFALLS STAGE 2

OUTFALL NO.	DRAINAGE AREA (AC.)	PERCENT SLOPE (%)
11	1.62	1.88
12	0.91	2.05
13E	0.95	3.96
13F	1.14	0.44
13G	0.42	0.54
13H	0.26	0.54
14A	2.40	4.60
14C	2.97	0.60
14D	2.82	0.59
14E	0.08	3.23
14F	0.22	3.23
14G	0.18	3.23
14H	0.07	1.32
14I	0.20	0.59
14J	0.24	0.59
14K	0.36	0.59
14L	0.36	0.57
14M	0.30	0.54
14N	0.36	3.23
14P	0.36	3.23
14Q	0.37	0.34
15	2.87	3.22
16	1.75	4.01
16A	0.93	0.34
16B	1.74	1.02
16C	0.19	0.91
16D	0.36	0.34
17H	0.46	0.34
17I	0.95	0.34
17J	0.27	0.65
17K	0.92	2.22
17L	0.70	2.55
17M	0.36	0.34
17N	0.24	0.34
17P	0.24	2.55
17Q	0.39	2.55
17R	0.47	4.84
17S	1.43	5.09
17T	1.21	3.69
17U	1.71	7.35
18B	0.18	0.75
18C	0.33	1.41
20A	0.26	2.55
20B	0.32	2.55
20C	1.22	3.39
21	0.46	4.37
21C	0.82	0.83
21D	0.24	1.39
21E	0.46	1.39
21F	0.48	1.39
21G	0.32	1.39
22B	1.51	2.45
23A	2.08	0.70
23B	4.11	1.36
23C	0.24	0.70
23D	0.24	0.70
23E	0.24	0.70
23F	0.24	0.70
23G	0.24	0.70
23H	0.15	0.70

STORM WATER OUTFALLS STAGE 2 (CONT'D.)

OUTFALL NO.	DRAINAGE AREA (AC.)	PERCENT SLOPE (%)
23I	3.80	1.53
24E	0.07	0.70
24F	0.21	0.70
24G	0.23	0.70
24H	0.24	0.70
24I	0.11	0.35
24J	0.15	0.35
24K	0.15	0.35
24L	0.14	0.35
24M	1.66	1.36
24N	1.15	1.19
24P	1.33	2.56
24Q	0.67	3.62
25A	2.66	0.35
25B	0.24	0.35
25C	0.24	0.35
25D	0.24	0.35
25E	0.25	0.35
25F	0.23	0.35
25G	0.24	0.26
25H	0.25	0.26
25I	0.22	0.26
26	4.69	1.13
26A	3.74	1.21
26B	1.03	2.93
26C	0.36	2.93
26D	0.59	2.63
26E	0.17	2.93
26F	1.13	2.73
28	2.20	2.90
29	0.73	2.95
29A	2.91	3.53
29D	0.15	0.76
29E	0.12	0.76
29F	0.15	0.76
29G	0.13	0.76
29H	0.52	3.58
29I	1.99	3.06
30	1.29	0.41
31G	1.14	2.29
31H	1.94	2.52
34	1.34	1.26
34A	1.45	0.44
34C	0.25	0.44
34D	0.25	0.54
34E	0.25	0.55
34F	0.30	0.55
35	0.30	0.83
35A	0.10	0.90
35B	0.16	0.90
35C	0.15	0.90
35D	0.16	0.90
35E	0.16	0.90
35F	0.14	0.90
35G	0.81	0.90
35H	0.12	0.67
35I	0.11	0.67
35J	0.26	0.12
35K	0.49	0.62
35L	0.18	1.04
35M	0.09	1.56
35N	0.20	2.63
35P	0.13	1.56
35Q	0.57	0.81

STORM WATER OUTFALLS STAGE 2 (CONT'D.)

OUTFALL NO.	DRAINAGE AREA (AC.)	PERCENT SLOPE (%)
35R	0.15	1.56
35T	0.22	2.41
35U	0.12	0.76
36	0.07	1.46
36A	0.13	1.12
36B	0.12	1.37
36C	0.15	1.44
36D	0.16	1.30
36E	0.17	1.25
36F	0.21	1.27
36G	0.35	0.89
36H	0.01	2.02
36K	0.74	6.81
36L	0.34	3.85
36M	1.17	3.85
36N	0.13	0.30
36P	0.13	0.44
36Q	0.07	0.44
36R	0.23	0.44
36S	0.25	0.44
36T	0.25	0.44
36U	0.13	0.67
36V	0.22	0.66
36X	1.11	3.69
36Y	0.16	1.04
36Z	0.10	1.56
36AA	0.23	3.85
36BB	0.16	1.56
36CC	0.25	1.56
36DD	0.15	1.57
36EE	0.89	2.75
38H	0.81	2.10
38I	0.36	2.35
38J	0.36	1.45
38K	0.09	0.54

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EPSC OUTFALL AREAS & SLOPES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2017	NH-I-40-1(348)	57C

STORM WATER OUTFALLS STAGE 3		
OUTFALL NO.	DRAINAGE AREA (AC.)	PERCENT SLOPE (%)
13G	0.42	0.54
13H	0.26	0.54
14E	0.08	3.23
14F	0.22	3.23
14G	0.18	3.23
14H	0.07	1.32
14I	0.20	0.59
14J	0.24	0.59
14K	0.36	0.59
14L	0.36	0.57
14M	0.30	0.54
14N	0.36	3.23
14P	0.36	3.23
14Q	0.37	0.34
16	1.75	4.01
16A	0.93	0.34
16B	1.74	1.02
16C	0.19	0.91
16D	0.36	0.34
17H	0.46	0.34
17I	0.95	0.34
17J	0.27	0.65
17K	0.92	2.22
17L	0.70	2.55
17M	0.36	0.34
17N	0.24	0.34
17P	0.24	2.55
17Q	0.39	2.55
17R	0.47	4.84
17S	1.43	5.09
17T	1.21	3.69
17U	1.71	7.35
18B	0.18	0.75
18C	0.33	1.41
20A	0.26	2.55
20B	0.32	2.55
21D	0.24	1.39
21E	0.46	1.39
21F	0.48	1.39
21G	0.32	1.39
22B	1.51	2.45
23A	2.08	0.70
23C	0.24	0.70
23D	0.24	0.70
23E	0.24	0.70
23F	0.24	0.70
23G	0.24	0.70
23H	0.15	0.70
24E	0.07	0.70
24F	0.21	0.70
24G	0.23	0.70
24H	0.24	0.70
24I	0.11	0.35
24J	0.15	0.35
24K	0.15	0.35
24L	0.14	0.35
25A	2.66	0.35
25B	0.24	0.35
25C	0.24	0.35
25D	0.24	0.35

STORM WATER OUTFALLS STAGE 3 (CONT'D.)		
OUTFALL NO.	DRAINAGE AREA (AC.)	PERCENT SLOPE (%)
25E	0.25	0.35
25F	0.23	0.35
25G	0.24	0.26
25H	0.25	0.26
25I	0.22	0.26
26B	1.03	2.93
26C	0.36	2.93
26D	0.59	2.63
26E	0.17	2.93
28	2.20	2.90
29D	0.15	0.76
29E	0.12	0.76
29F	0.15	0.76
29G	0.13	0.76
29H	0.52	3.58
29I	1.99	3.06
31G	1.14	2.29
31H	1.94	2.52
34A	1.45	0.44
34C	0.25	0.44
34D	0.25	0.54
34E	0.25	0.55
34F	0.30	0.55
35	0.30	0.83
35A	0.10	0.90
35B	0.16	0.90
35C	0.15	0.90
35D	0.16	0.90
35E	0.16	0.90
35F	0.14	0.90
35G	0.81	0.90
35H	0.12	0.67
35I	0.11	0.67
35J	0.26	0.12
35K	0.49	0.62
35L	0.18	1.04
35M	0.09	1.56
35N	0.20	2.63
35P	0.13	1.56
35Q	0.57	0.81
35R	0.15	1.56
35T	0.22	2.41
35U	0.12	0.76
36	0.07	1.46
36A	0.13	1.12
36B	0.12	1.37
36C	0.15	1.44
36D	0.16	1.30
36E	0.17	1.25
36F	0.21	1.27
36G	0.35	0.89
36H	0.01	2.02
36K	0.74	6.81
36L	0.34	3.85
36M	1.17	3.85
36N	0.13	0.30
36P	0.13	0.44
36Q	0.07	0.44
36R	0.23	0.44
36S	0.25	0.44
36T	0.25	0.44
36U	0.13	0.67
36V	0.22	0.66
36X	1.11	3.69

STORM WATER OUTFALLS STAGE 3 (CONT'D.)		
OUTFALL NO.	DRAINAGE AREA (AC.)	PERCENT SLOPE (%)
36Y	0.16	1.04
36Z	0.10	1.56
36AA	0.23	3.85
36BB	0.16	1.56
36CC	0.25	1.56
36DD	0.15	1.57
36EE	0.89	2.75
38H	0.81	2.10
38I	0.36	2.35
38J	0.36	1.45
38K	0.09	0.54

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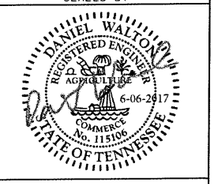

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DEPARTMENT OF TRANSPORTATION

EPSC OUTFALL AREAS & SLOPES

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50E
CONST.	2017	NH-I-40-1(348)	58

BEGIN (CONST.) PROJECT NO. NH-I-40-1(348)
I-40 (MADISON COUNTY) STA. 151+50.00
S.P. 57201-3149-44
N 494875.2667
E 1116002.5659

LIMIT OF PAVING
STA. 151+50.00

LIMIT OF PAVING
STA. 151+50.00

BEGIN FULL WIDTH DESIGN
STA. 156+50.00

NOTE: CONTOURS SHOWN ARE EXISTING

RUSHMEADE RD.

WETLAND

VANN DRIVE

I-40 WESTBOUND ASP.

I-40 EASTBOUND ASP.

PROPOSED ℄ I-40

N 66° 11' 47" E

N 70° 00' 19" E

145

150

155

158+00 SEE SHEET NO. 58A

STA. 158+00

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STATE OF TENNESSEE
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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 1
STA. 145+00 TO STA. 158+00
SCALE: 1"= 50'

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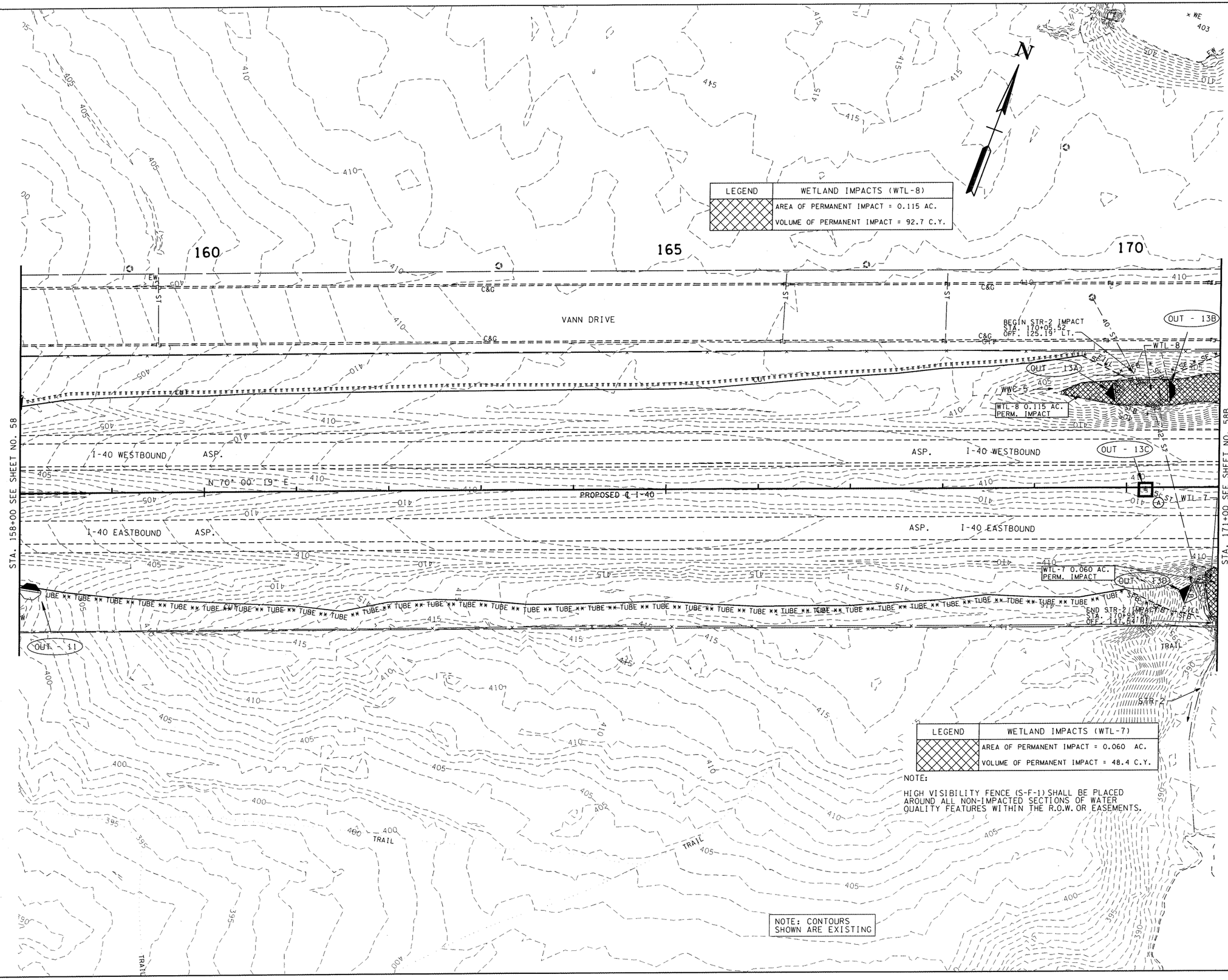
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50F
CONST.	2017	NH-I-40-1(348)	58A



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STAGE 1

STA. 158+00 TO STA. 171+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50C
CONST.	2017	NH-I-40-1(348)	58B

LEGEND	WETLAND IMPACTS (WTL-8)
	AREA OF PERMANENT IMPACT = 0.115 AC.
	VOLUME OF PERMANENT IMPACT = 92.7 C.Y.

N

175

180

VANN DRIVE

CURB

C&G

WTL-8 0.115 AC. PERM. IMPACT

WTL-8

I-40 WESTBOUND ASP.

PROPOSED ℄ I-40

N 70° 00' 19" E

I-40 EASTBOUND ASP.

WTL-7 0.060 AC. PERM. IMPACT

WTL-7 (REMAINING PORTION NOT TO BE DISTURBED)

TRAIL

STA. 171+00 SEE SHEET NO. 58A

STA. 184+00 SEE SHEET NO. 58C

LEGEND	WETLAND IMPACTS (WTL-7)
	AREA OF PERMANENT IMPACT = 0.060 AC.
	VOLUME OF PERMANENT IMPACT = 48.4 C.Y.

NOTE:

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE R.O.W. OR EASEMENTS.

NOTE: CONTOURS SHOWN ARE EXISTING

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STAGE 1

STA. 171+00 TO STA. 184+00

SCALE: 1"= 50'

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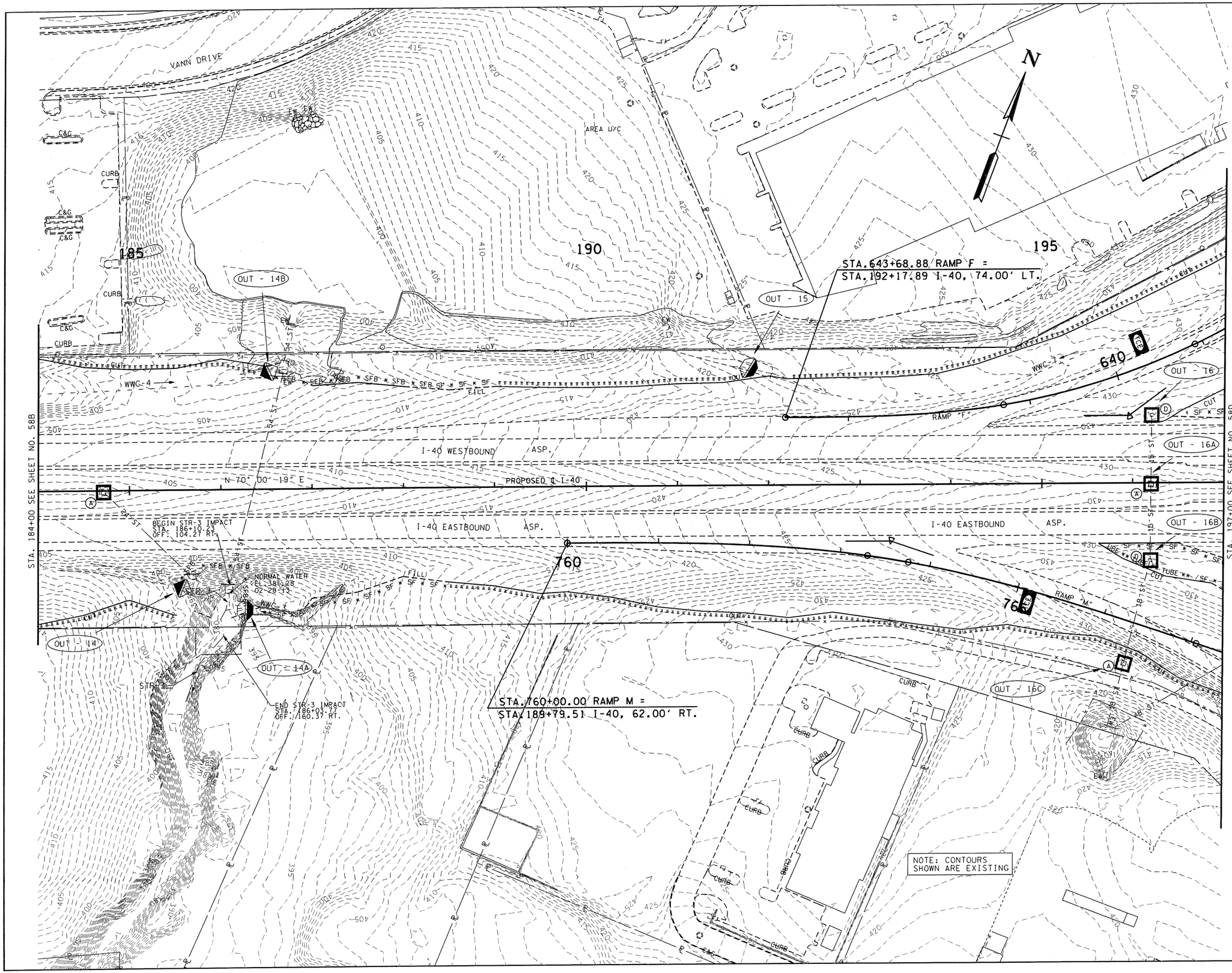
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50H
CONST.	2017	NH-I-40-1(348)	58C



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STATE OF TENNESSEE

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STAGE 1

STA.184+00 TO STA.197+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50J
CONST.	2017	NH-I-40-1(348)	58D

STA.603+72.35 RAMP E=
STA.634+92.54 RAMP F, 12.00' RT.

STA. 422+00 SEE SHEET NO. 58F

STA. 197+00 SEE SHEET NO. 58C

STA. 210+00 SEE SHEET NO. 58G

STA. 412+00 SEE SHEET NO. 58E

STA.657+43.88 RAMP G=
STA.418+85.66 SR-186, 74.0' LT.
N - 496803.9628
E 1120766.0391

STA.650+00.00 RAMP G=
STA.201+38.77 I-40, 62.00' LT.
N 496643.0583
E 1120668.0462

STA.630+00.00 RAMP F=
STA.419+99.43 SR-186, 26.0' RT.

STA.740+00.00 RAMP L=
STA.205+03.86 I-40, 62.00' RT.

STA.747+43.88 RAMP L=
STA.415+50.57 SR-186, 74.0' RT.

STA. 203+21.32 ℄ I-40
STA. 417+18.12 ℄ SR-186 (45-BY-PASS)
N 496847.2132
E 1120860.7869

STA.693+53.07 RAMP K=
STA.723+38.30 RAMP J

I-40 WESTBOUND ASP.
I-40 EASTBOUND ASP.
PROPOSED ℄ I-40
PROP. ℄ S.R. 186
RAMP "E"
RAMP "F"
RAMP "G"
RAMP "H"
RAMP "J"
RAMP "K"
RAMP "L"
15-ST
18-ST
24-ST
48-ST
OUT - 17
OUT - 17A
OUT - 17B
OUT - 17C
OUT - 17D
OUT - 17E
OUT - 17F
OUT - 19
OUT - 20
WTL-9 0.083 AC. PERM. IMPACT
N 88° 47' 26" E
S 88° 55' 07" E
N 82° 40' 38" E
N 70° 00' 19" E
N 33° 11' 42" E
S 82° 40' 43" W
S 33° 11' 14" W
200
205
210
415
420
630
635
650
655
690
695
740
745
770

NOTE: CONTOURS SHOWN ARE EXISTING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 1
STA.197+00 TO STA.210+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50K
CONST.	2017	NH-I-40-1(348)	58E

NOTE: CONTOURS SHOWN ARE EXISTING

N

STA. 412+00 SEE SHEET NO. 58D

STA.774+58.37 RAMP M=
STA.410+59.39 SR-186, 70.80' LT.

STA.720+00.00 RAMP J =
STA.410+90.32 SR-186, 69.89' RT.

MATCH ADJACENT PROJECT
NH-186(15)
S.P. 57009-2264-14
N 495637.3917
E 1120990.5511

PROP. ℄ S.R. 186

WILEY PARKER RD.

CASEY JONES LANE

CARRIAGE HOUSE DRIVE

S.R. 186

405

410

120

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 1
STA. 405+00 TO STA.412+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50L
CONST.	2017	NH-I-40-1(348)	58F

N

PROP. ℄ S.R. 186

S. R. 186

RAMP "E"

EMPORIUM DRIVE

NOTE: CONTOURS SHOWN ARE EXISTING

STA. 422+00 SEE SHEET NO. 58D

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STAGE 1

STA. 422+00 TO STA. 430+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50M
CONST.	2017	NH-I-40-1(348)	58C

STA. 210+00 SEE SHEET NO. 58D

STA. 223+00 SEE SHEET NO. 58H

EMPORIUM DRIVE

CARRIAGE HOUSE DRIVE

RAMP "H"

RAMP "K"

I-40 WESTBOUND ASP.

I-40 EASTBOUND ASP.

PROPOSED ℄ I-40

N 68° 35' 01" E

STA.670+00.00 RAMP H =
STA.215+61.38 I-40, 62.00' LT.

STA.708+58.85 RAMP K =
STA.218+93.61 I-40, 62.00' RT.

NOTE: CONTOURS SHOWN ARE EXISTING

N

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STAGE 1

STA.210+00 TO STA.223+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50N
CONST.	2017	NH-I-40-1(348)	58H

225

230

235

VANN DRIVE

I-40 WESTBOUND ASP.

N 70° 00' 19" E

PROPOSED ℄ I-40

I-40 EASTBOUND ASP.

CARRIAGE HOUSE DRIVE

STA.223+00 SEE SHEET NO. 58G

STA. 236+00 SEE SHEET NO. 58J

NOTE: CONTOURS SHOWN ARE EXISTING

N

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STAGE 1

STA.223+00 TO STA.236+00

SCALE: 1"= 50'

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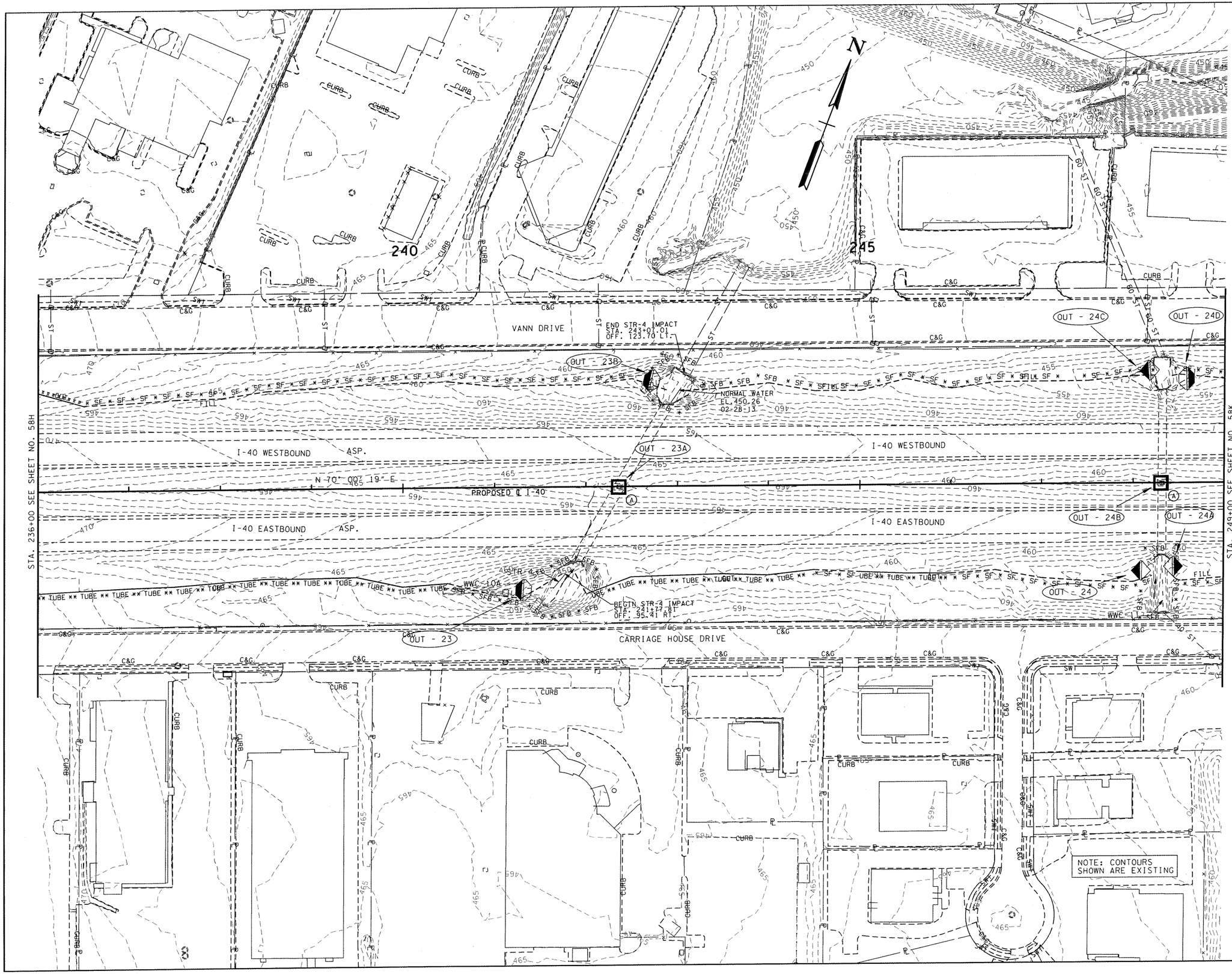
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50P
CONST.	2017	NH-I-40-1(348)	58J



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STAGE 1

STA. 236+00 TO STA. 249+00

SCALE: 1"= 50'

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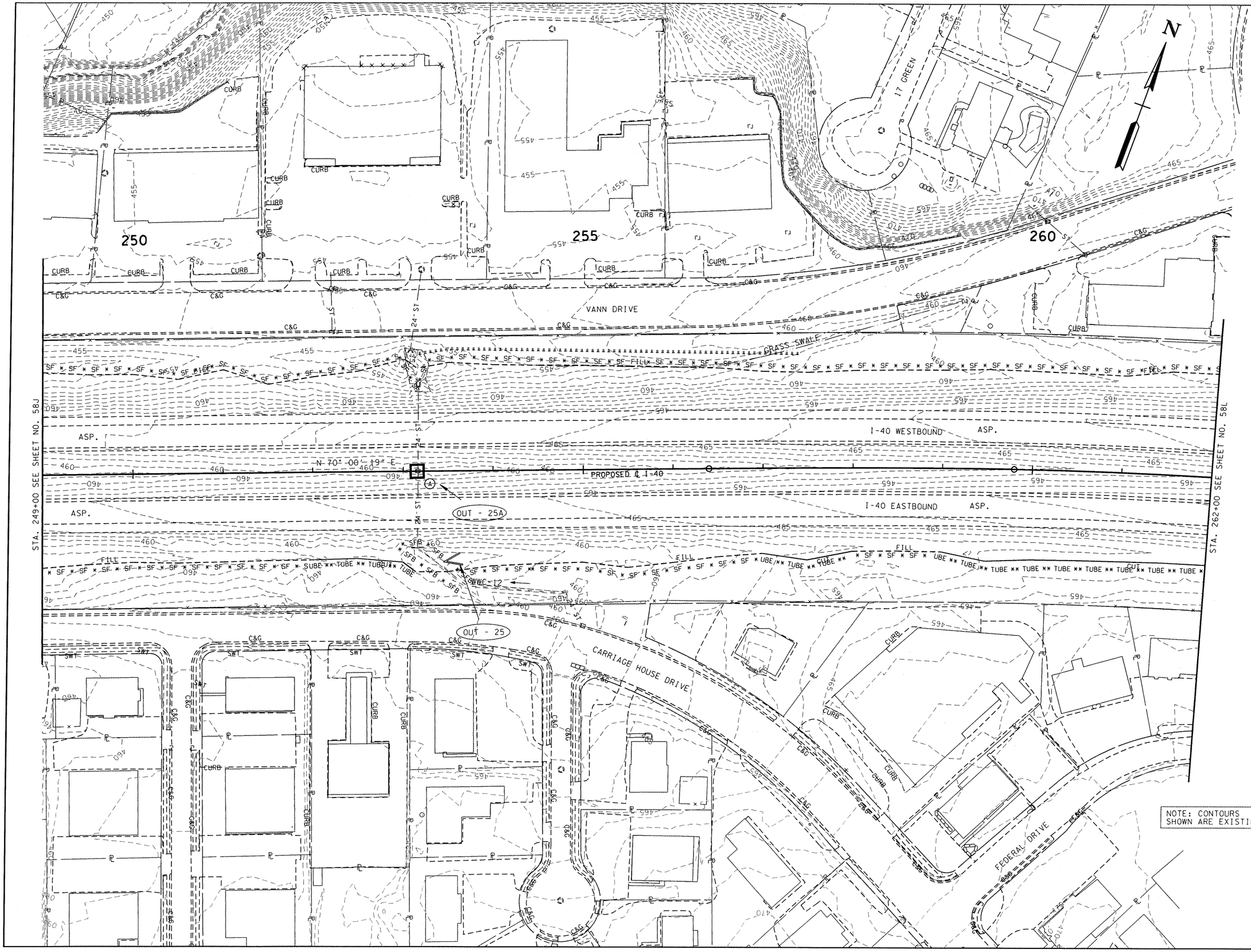
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	500
CONST.	2017	NH-I-40-1(348)	58K



NOTE: CONTOURS SHOWN ARE EXISTING

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STAGE 1

STA.249+00 TO STA.262+00

SCALE: 1" = 50'

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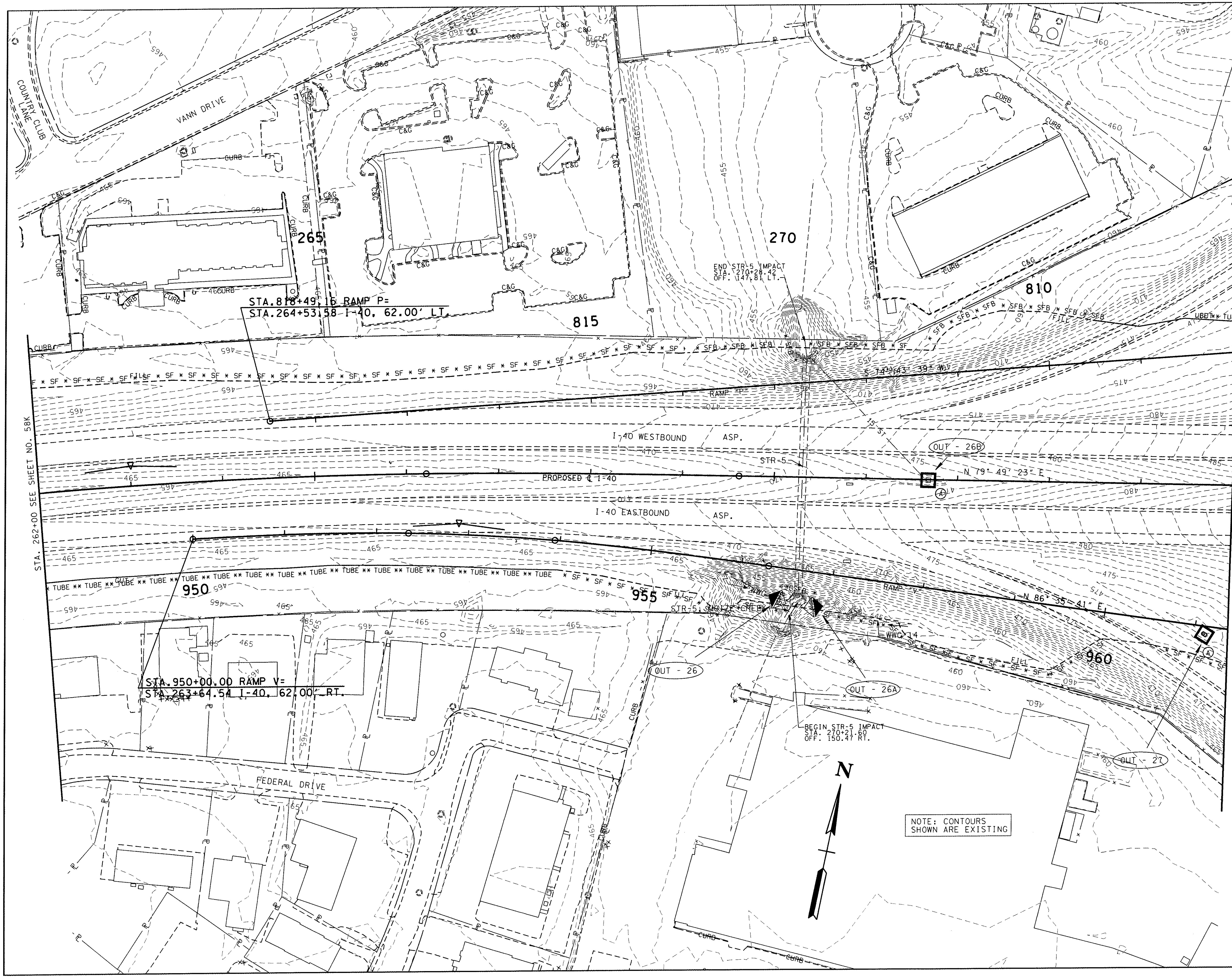
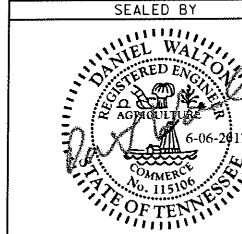
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50R
CONST.	2017	NH-I-40-1(348)	58L



VANN DRIVE
COUNTRY CLUB LANE
FEDERAL DRIVE
265
270
275
810
815
950
955
960
STA.818+49.16 RAMP P=
STA.264+53.58 I-40, 62.00' LT.
STA.950+00.00 RAMP V=
STA.263+64.54 I-40, 62.00' RT.
END STR-5 IMPACT
STA. 270+28.42
OFF. 147.81 LT.
BEGIN STR-5 IMPACT
STA. 270+21.60
OFF. 150.47 RT.
I-40 WESTBOUND ASP.
I-40 EASTBOUND ASP.
PROPOSED ℄ I-40
STR-5
RAMP P
RAMP V
OUT - 26
OUT - 26A
OUT - 26B
OUT - 27
N 79° 49' 23" E
N 86° 35' 41" E
STA. 262+00 SEE SHEET NO. 58K
STA. 275+00 SEE SHEET NO. 58M
NOTE: CONTOURS SHOWN ARE EXISTING
N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STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 1

STA.262+00 TO STA.275+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50S
CONST.	2017	NH-I-40-1(348)	58M

STA. 555+00 SEE SHEET NO. 58P

STA. 926+11.62 RAMP U=
STA. 554+44.24 SR-5 12.00' LT.

STA. 991+95.07 RAMP W=
STA. 554+44.24 SR-5 36.00' RT.

STA. 801+11.78 RAMP P=
STA. 554+40.78 SR-5 64.00' LT.

STA. 885+00.00 RAMP S=
STA. 865+00.00 RAMP R 24.00' LT.

STA. 804+88.95 RAMP P=
STA. 834+88.94 RAMP Q

STA. 983+50.00 RAMP W=
STA. 963+50.00 RAMP V 16.0' LT.

STA. 893+18.91 RAMP S=
STA. 547+30.72 SR-5 36.00' LT.

STA. 967+35.73 RAMP V=
STA. 545+67.98 SR-5 48.00' LT.

STA. 933+84.07 RAMP U=
STA. 903+84.08 RAMP T

STA. 280+29.30 ℄ I-40
STA. 550+00.00 ℄ S.R. 5
N 498997.8516
E 1128183.6046

STA. 827+48.16 RAMP D=
STA. 545+67.98 SR-5 12.00' RT.

STA. 900+00.00 RAMP I=
STA. 545+67.98 SR-5 64.00' RT.

STA. 275+00 SEE SHEET NO. 58L

STA. 288+00 SEE SHEET NO. 58R

STA. 545+00 SEE SHEET NO. 58N

PROPOSED ℄ I-40

I-40 WESTBOUND

I-40 EASTBOUND

N. HIGHLAND AVE. (S.R. 5)

PROP. ℄ HIGHLAND AVE. (S.R. 5)

BRIDGE

EXECUTIVE DRIVE

RAMP "P"

RAMP "Q"

RAMP "R"

RAMP "S"

RAMP "T"

RAMP "U"

RAMP "V"

RAMP "W"

OUT - 28

OUT - 29

OUT - 29A

OUT - 29B

OUT - 29C

OUT - 31B

OUT - 31C

OUT - 31D

OUT - 31E

OUT - 31F

OUT - 31G

OUT - 31H

OUT - 33

S 74° 43' 89" W

S 82° 37' 38" W

S 79° 49' 23" W

N 79° 49' 23" E

N 86° 35' 41" E

N 81° 07' 57" E

S 5° 16' 40" E

N 5° 16' 40" W

ASP.

TUBE ** TUBE ** TUBE ** TUBE

SF * SF * SF

WWF 16

NOTE: CONTOURS SHOWN ARE EXISTING

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AGRICULTURE
6-06-2017
COMMERCE
No. 115100
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 1

STA. 275+00 TO STA. 288+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50T
CONST.	2017	NH-I-40-1(348)	58N

STA. 545+00 SEE SHEET NO. 58M

545

540

PROP. ℄ HIGHLAND AVE. (S.R. 5)

N. HIGHLAND AVE.

N 5° 16' 40" W

CARRIAGE HOUSE DR

RIDGECREST RD

OUT - 31A

OUT - 31

OUT - 32C

OUT - 32B

OUT - 32A

OUT - 32

CURB

C&G

ASP.

SFB

TUBE

NOTE: CONTOURS SHOWN ARE EXISTING

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 1
L.O.C. TO STA.545+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50U
CONST.	2017	NH-I-40-1(348)	58P

N 4° 58' 25" W

PROP. ℄ HIGHLAND AVE. (S.R. 5)

M.O.P. 91.5 N

MANOR ROAD

VANN DRIVE

500

555

OUT - 30

STA.872+00.51 RAMP R=
STA.555+52.56 SR-5 48.00' RT.

STA. 555+00 SEE SHEET NO. 58M

NOTE: CONTOURS SHOWN ARE EXISTING

N

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DEPARTMENT OF TRANSPORTATION

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STAGE 1
TO STA.555+00 TO L.O.C.
SCALE: 1"= 50'

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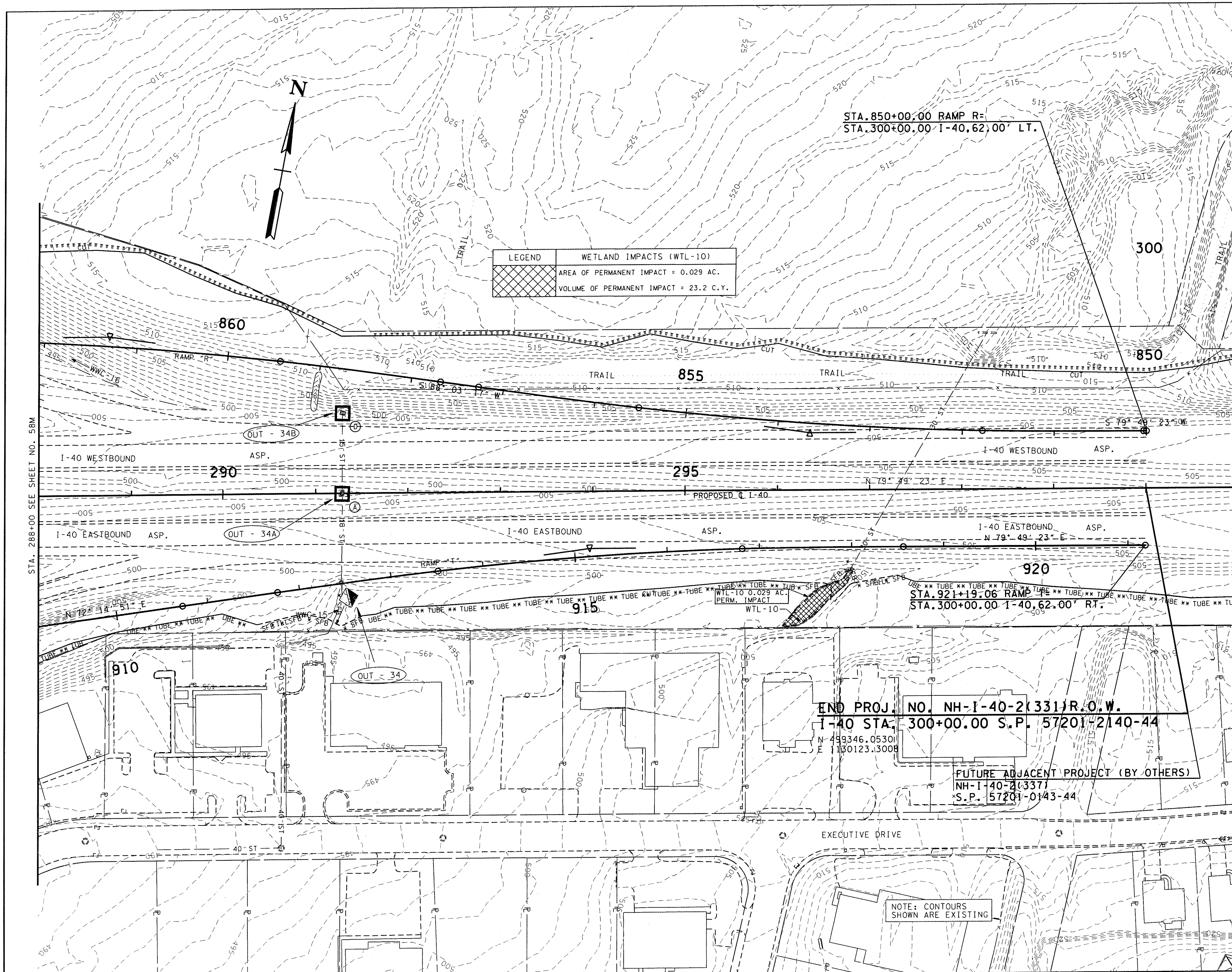
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50V
CONST.	2017	NH-I-40-1(348)	58R



N
LEGEND
WETLAND IMPACTS (WTL-10)
AREA OF PERMANENT IMPACT = 0.029 AC.
VOLUME OF PERMANENT IMPACT = 23.2 C.Y.
STA.850+00.00 RAMP R=
STA.300+00.00 I-40,62.00' LT.
RAMP "R"
TRAIL
I-40 WESTBOUND
ASP.
PROPOSED ℄ I-40
N 79° 49' 23" E
S 79° 49' 23" W
I-40 EASTBOUND
RAMP "T"
OUT - 34B
OUT - 34A
OUT - 34
WTL-10 0.029 AC.
PERM. IMPACT
WTL-10
STA.921+19.06 RAMP
STA.300+00.00 I-40,62.00' RT.
END PROJ. NO. NH-I-40-2(331)R.O.W.
I-40 STA. 300+00.00 S.P. 57201-2140-44
N 459346.0530
E 1130123.3008
FUTURE ADJACENT PROJECT (BY OTHERS)
NH-I-40-2(337)
S.P. 57201-0143-44
EXECUTIVE DRIVE
NOTE: CONTOURS
SHOWN ARE EXISTING
STA. 288+00 SEE SHEET NO. 58M
STA. 301+00 SEE SHEET NO. 58S

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DEPARTMENT OF TRANSPORTATION

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STAGE 1

STA.288+00 TO STA. 301+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50W
CONST.	2017	NH-I-40-1(348)	58S

END (CONST.) PROJECT NO. NH-I-40-1(348)
I-40 (MADISON COUNTY) STA. 304+20.00
N 499420.2624
E 1130536.6929

305

310

I-40 WESTBOUND ASP.

PROPOSED ℄ I-40

I-40 EASTBOUND ASP.

TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE

EXECUTIVE DRIVE

WESLAKE COVE

NOTE: CONTOURS SHOWN ARE EXISTING

STA. 301+00 SEE SHEET NO. 58R

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 1
STA.301+00 TO STA.314+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50E1
CONST.	2017	NH-I-40-1(348)	59

BEGIN (CONST.) PROJECT NO. NH-I-40-1(348)
I-40 (MADISON COUNTY) STA. 151+50.00
S.P. 57201-3149-44
N 494875.2667
E 1116002.5659

LIMIT OF PAVING
STA. 151+50.00

LIMIT OF PAVING
STA. 151+50.00

BEGIN FULL WIDTH DESIGN
STA. 156+50.00

NOTE: CONTOURS SHOWN ARE EXISTING

SEE SHEET NO. 59A
STA. 158+00

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STATE OF TENNESSEE
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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2
STA. 145+00 TO STA. 158+00
SCALE: 1"= 50'

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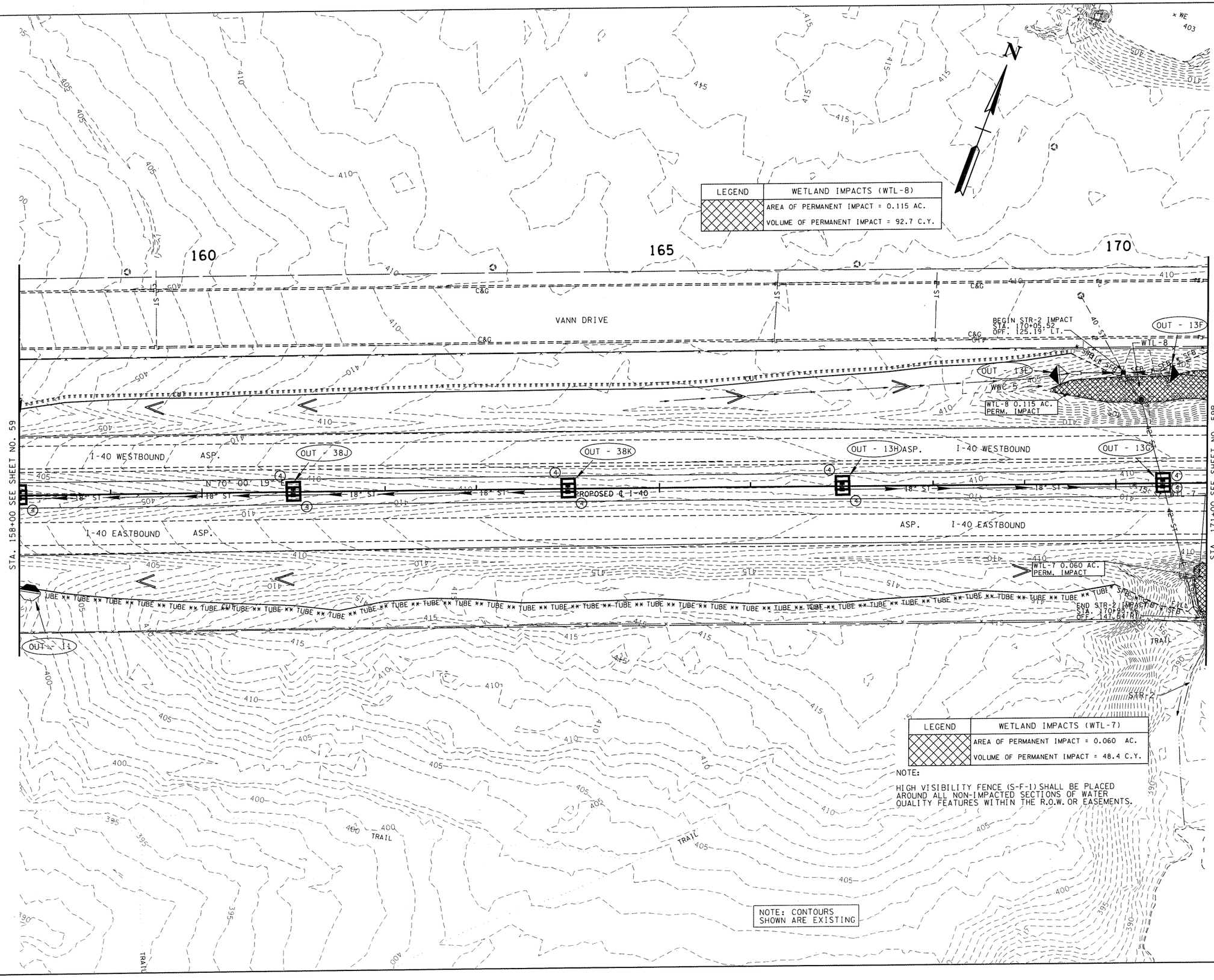
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	5OF1
CONST.	2017	NH-I-40-1(348)	59A



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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2

STA. 158+00 TO STA. 171+00

SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50G
CONST.	2017	NH-I-40-1(348)	59B

LEGEND	WETLAND IMPACTS (WTL-8)
	AREA OF PERMANENT IMPACT = 0.115 AC.
	VOLUME OF PERMANENT IMPACT = 92.7 C.Y.

N

175

180

VANN DRIVE

CURB

C&G

WTL-8 0.115 AC. PERM. IMPACT

WTL-8

SFB

OUT - 14M

OUT - 14L

OUT - 14K

OUT - 14J

OUT - 14I

OUT - 14H

OUT - 14G

N 70° 00' 19" E

PROPOSED ℄ I-40

18" SI

24" SI

I-40 WESTBOUND ASP.

I-40 EASTBOUND ASP.

WTL-7 0.060 AC. PERM. IMPACT

WTL-7 (REMAINING PORTION NOT TO BE DISTURBED)

TRAIL

FILL

LEGEND	WETLAND IMPACTS (WTL-7)
	AREA OF PERMANENT IMPACT = 0.060 AC.
	VOLUME OF PERMANENT IMPACT = 48.4 C.Y.

NOTE:

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE R.O.W. OR EASEMENTS.

NOTE: CONTOURS SHOWN ARE EXISTING

STA. 171+00 SEE SHEET NO. 59A

STA. 184+00 SEE SHEET NO. 59C

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STATE OF TENNESSEE

DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2

STA. 171+00 TO STA. 184+00

SCALE: 1"= 50'

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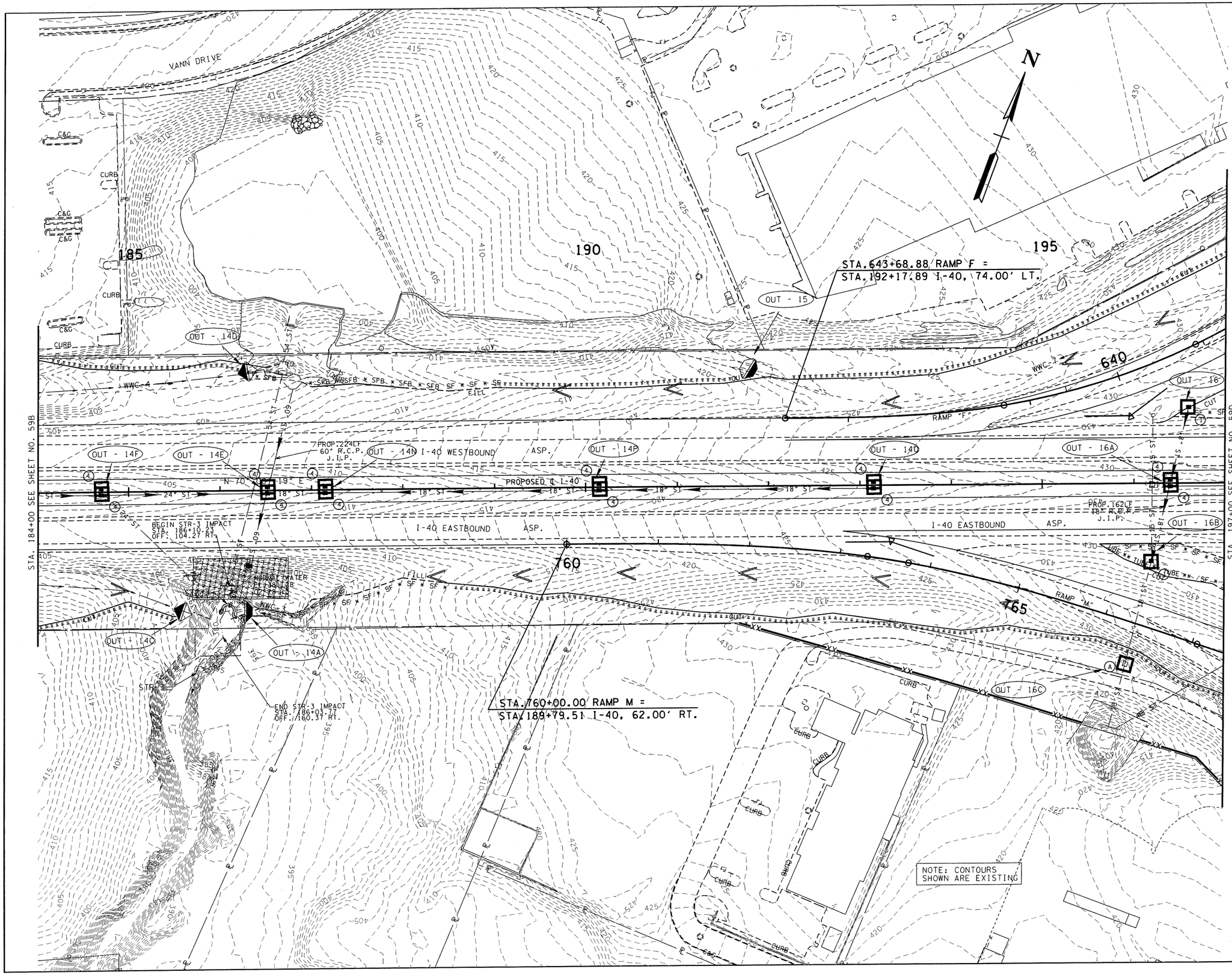
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50H1
CONST.	2017	NH-I-40-1(348)	59C



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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2

STA. 184+00 TO STA. 197+00

SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50J1
CONST.	2017	NH-I-40-1(348)	59D

STA.603+72.35 RAMP E=
STA.634+92.54 RAMP F, 12.00' RT.

LIMIT OF CONST. STA.662+71.32

STA. 422+00 SEE SHEET NO. 59F

RAMP "E"

S 82° 40' 43" W

RAMP "F"

635

S 33° 14' 14" W

655

RAMP "G"

420

STA.657+43.88 RAMP G=
STA.418+85.66 SR-186, 74.0' LT.
N 496803.9628
E 1120766.0391

650

630

PROP. ℄ S.R. 186

STA.630+00.00 RAMP F=
STA.419+99.43 SR-186, 26.0' RT.

LIMIT OF CONST. STA.677+00.00

210

RAMP "H"

STA.650+00.00 RAMP G=
STA.201+38.77 I-40, 62.00' LT.
N 496643.0583
E 1120668.0462

200

OUT - 17R

OUT - 17S

OUT - 17U

OUT - 17T

OUT - 16D

I-40 WESTBOUND ASP.

OUT - 17M

OUT - 17N

205

N 70° 00' 19" E

OUT - 17P

OUT - 17Q

I-40 WESTBOUND ASP.

PROPOSED ℄ I-40

PROPOSED ℄ I-40

I-40 EASTBOUND ASP.

I-40 EASTBOUND ASP.

STA. 197+00 SEE SHEET NO. 59C

STA. 210+00 SEE SHEET NO. 59G

WTL-9 0.083 AC. PERM. IMPACT

OUT - 17H

415

OUT - 17I

OUT - 17J

740

STA. 203+21.32 ℄ I-40=
STA. 417+18.12 ℄ SR-186 (45-BY-PASS)
N 496847.2032
E 1120860.7869

OUT - 17K

OUT - 17L

STA.740+00.00 RAMP L=
STA.205+03.86 I-40, 62.00' RT.

N 88° 47' 26" E

770

S 88° 55' 07" E

690

RAMP "K"

RAMP "L"

N 82° 40' 38" E

745

STA.747+43.88 RAMP L=
STA.415+50.57 SR-186, 74.0' RT.

N 35° 11' 42" E

695

STA.693+53.07 RAMP K =
STA.723+38.30 RAMP J

STA. 412+00 SEE SHEET NO. 59E

RAMP "J"

NOTE: CONTOURS SHOWN ARE EXISTING

N

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2
STA.197+00 TO STA.210+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	60K1
CONST.	2017	NH-I-40-1(348)	59E

NOTE: CONTOURS SHOWN ARE EXISTING

N

STA. 412+00 SEE SHEET NO. 59D

STA. 774+58.37 RAMP M=
STA.410+59.39 SR-186, 70.80' LT.

STA. 720+00.00 RAMP J =
STA.410+90.32 SR-186, 69.89' RT.

MATCH ADJACENT PROJECT
NH-186(15)
S.P. 57009-22646-14
N 495637.3917
E 1120990.5511

ULIMIT OF CONST.
STA. 401+00.00

CASEY JONES LANE

WILEY PARKER RD.

CARRIAGE HOUSE DRIVE

S.R. 186

405

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2

STA. 405+00 TO STA.412+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50L1
CONST.	2017	NH-I-40-1(348)	59F

N

LIMIT OF CONST.
STA. 429+08.75

PROP. ℄ S.R. 186

S.R. 186

RAMP "E"

EMPORIUM DRIVE

STA. 422+00 SEE SHEET NO. 59D

NOTE: CONTOURS SHOWN ARE EXISTING

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STAGE 2

STA. 422+00 TO STA. 430+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50M1
CONST.	2017	NH-I-40-1(348)	59G

STA.670+00.00 RAMP H =
STA.215+61.38 I-40, 62.00' LT.

STA.708+58.85 RAMP K =
STA.218+93.61 I-40, 62.00' RT.

N 68° 35' 01" E

EMPORIUM DRIVE

CARRIAGE HOUSE DRIVE

RAMP "H"

RAMP "K"

I-40 WESTBOUND

I-40 EASTBOUND

PROPOSED ℄ I-40

ASP.

OUT - 20A

OUT - 20B

OUT - 20C

OUT - 21

OUT - 21C

OUT - 21D

OUT - 21E ASP.

OUT - 21F

OUT - 22

OUT - 22B

675

670

705

700

210

215

220

STA. 210+00 SEE SHEET NO. 59D

STA. 223+00 SEE SHEET NO. 59H

NOTE: CONTOURS SHOWN ARE EXISTING

N

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STAGE 2

STA.210+00 TO STA.223+00

SCALE: 1"= 50'

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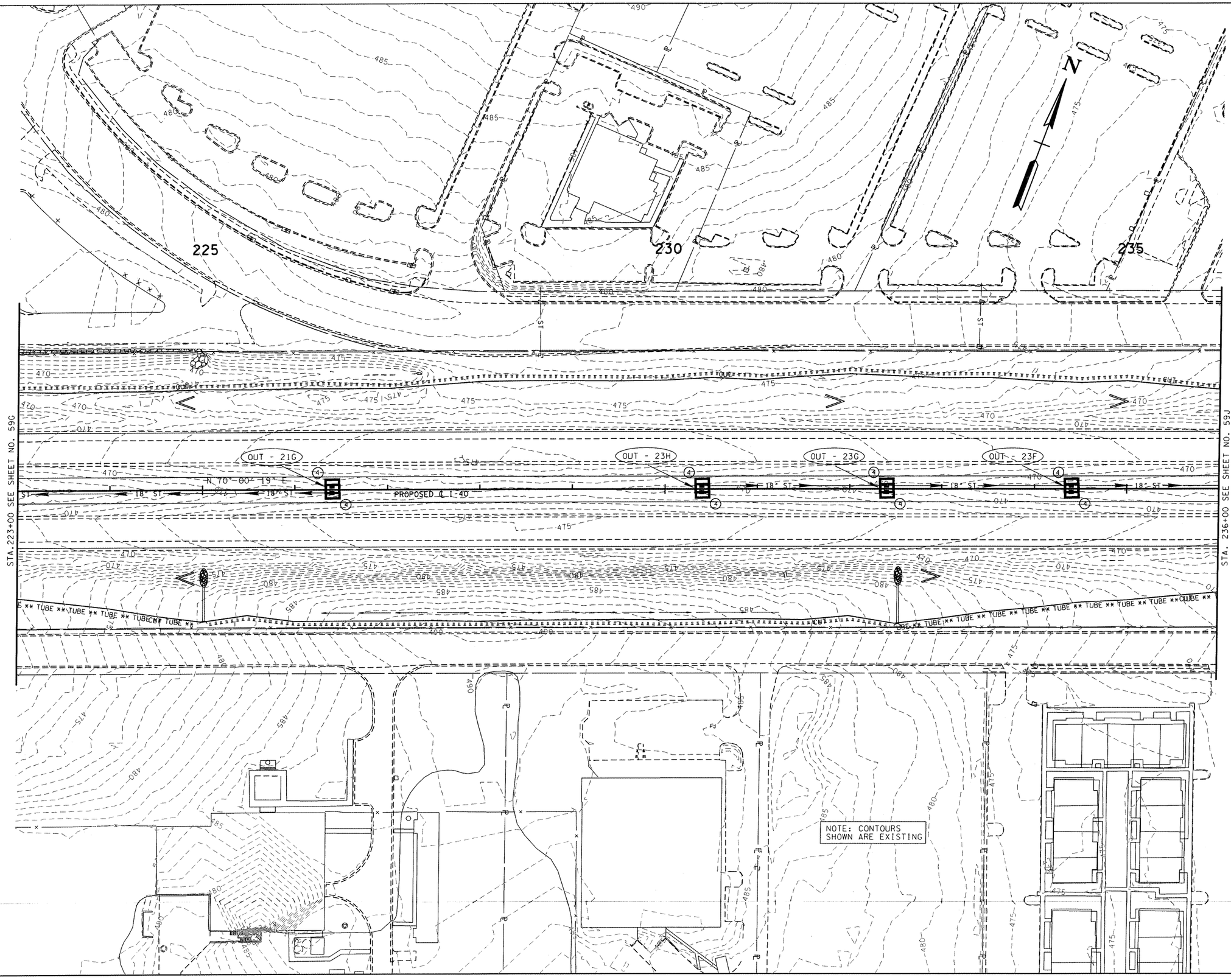
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50N1
CONST.	2017	NH-I-40-1(348)	59H



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STAGE 2

STA.223+00 TO STA.236+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50P1
CONST.	2017	NH-I-40-1(348)	59J

N

240

245

VANN DRIVE

END STR-4 IMPACT
STA. 243+07.01
OFF. 123.70 LT.

NORMAL WATER
EL. 450.26
02-28-13

OUT - 23B

OUT - 24P

OUT - 24O

OUT - 23E

OUT - 23D

I-40 WESTBOUND

ASP.

OUT - 23C

OUT - 23A

OUT - 24H

I-40 WESTBOUND

OUT - 24G

OUT - 24F

OUT - 24E

OUT - 24I

N 70° 00' 19" E

PROPOSED ℄ I-40

I-40 EASTBOUND

ASP.

I-40 EASTBOUND

260' OF
30" TEMP.
DRAINAGE PIPE

OUT - 24N

BEGIN STR-4 IMPACT
STA. 241+17.81
OFF. 95.41 RT.

OUT - 23I

310' OF
48" TEMP.
DRAINAGE PIPE

CARRIAGE HOUSE DRIVE

OUT - 24M

NOTE: CONTOURS SHOWN ARE EXISTING

STA. 236+00 SEE SHEET NO. 59H

STA. 249+00 SEE SHEET NO. 59K

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DANIEL WALTON
REGISTERED ENGINEER
AGRICULTURE
6-06-2017
COMMERCE
No. 115106
STATE OF TENNESSEE

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

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2

STA.236+00 TO STA.249+00

SCALE: 1"= 50'

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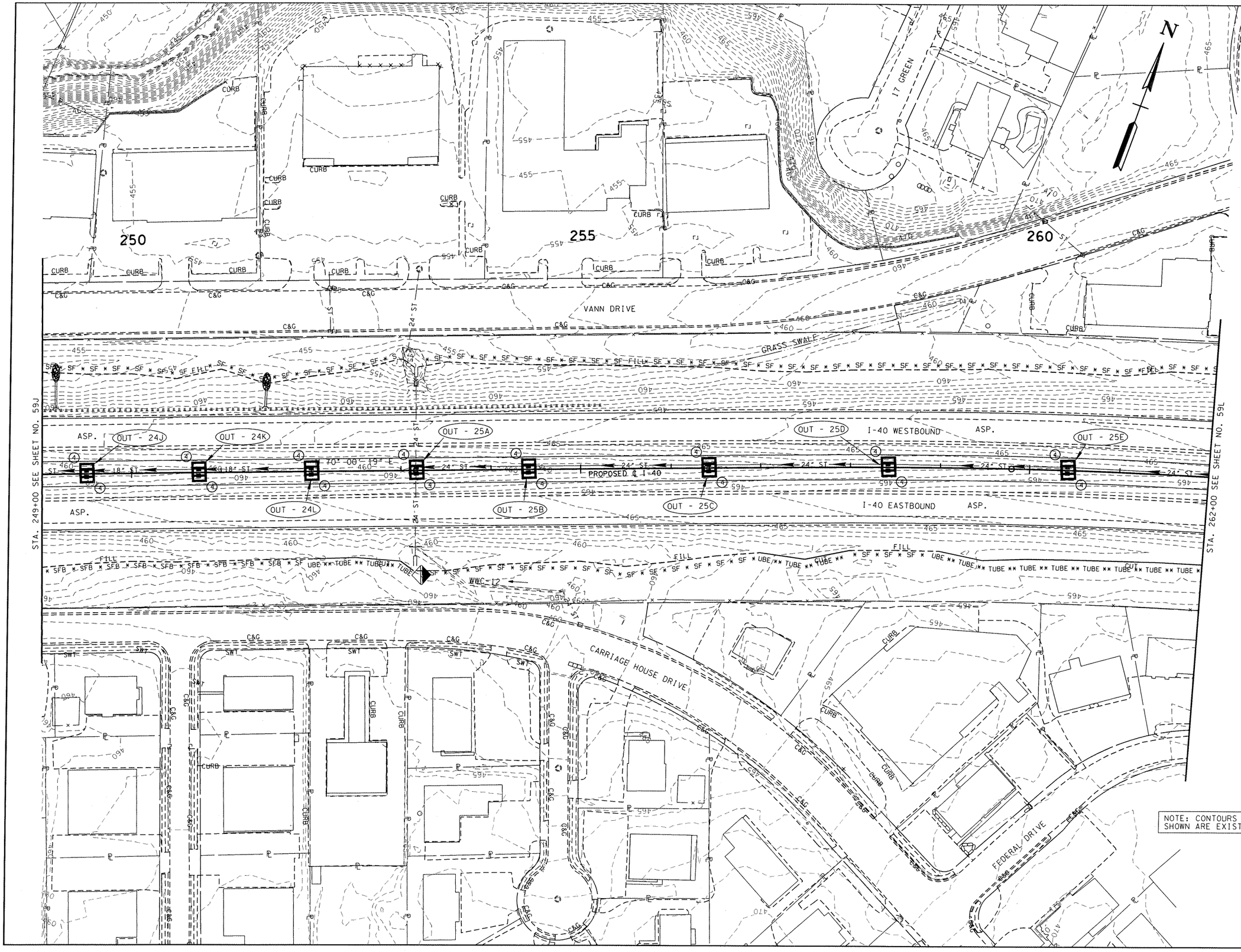
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	5001
CONST.	2017	NH-I-40-1(348)	59K



NOTE: CONTOURS SHOWN ARE EXISTING

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AGENT LICENSE
6-06-2017
COMMERCE
No. 115106
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2

STA.249+00 TO STA.262+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50R1
CONST.	2017	NH-I-40-1(348)	59L

STA. 262+00 SEE SHEET NO. 59K

STA. 275+00 SEE SHEET NO. 59M

VANN DRIVE

COUNTRY LAKE CLUB

FEDERAL DRIVE

STA.818+49.16 RAMP P=
STA.264+53.58 I-40, 62.00' LT.

STA.950+00.00 RAMP V=
STA.263+64.54 I-40, 62.00' RT.

END STR-5 IMPACT
STA. 270+28.42
OFF. 147.81 LT.

BEGIN STR-5 IMPACT
STA. 270+21.60
OFF. 150.47 RT.

315' OF
48" TEMP.
DRAINAGE PIPE

I-40 WESTBOUND ASP.

I-40 EASTBOUND ASP.

PROPOSED ℄ I-40

RAMP P

RAMP V

STR-5

STR-5A

OUT - 25F
OUT - 25G
OUT - 25H
OUT - 25I
OUT - 26
OUT - 26A
OUT - 26B
OUT - 26C
OUT - 26E

N 79° 49' 23" E

N 86° 35' 41" E

265
270
275
810
815
950
955
960

NOTE: CONTOURS SHOWN ARE EXISTING

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AGENT LICENSE
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2

STA.262+00 TO STA.275+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50S1
CONST.	2017	NH-I-40-1(348)	59M

STA. 555+00 SEE SHEET NO. 59P

STA. 926+11.62 RAMP U=
STA. 554+44.24 SR-5 12.00' LT.

STA. 991+95.07 RAMP W=
STA. 554+44.24 SR-5 36.00' RT.

STA. 801+11.78 RAMP P=
STA. 554+40.78 SR-5 64.00' LT.

STA. 885+00.00 RAMP S=
STA. 865+00.00 RAMP R 24.00' LT.

STA. 804+88.95 RAMP P=
STA. 834+88.94 RAMP Q

STA. 983+50.00 RAMP W=
STA. 963+00.00 RAMP V 46.0' LT.

STA. 893+18.91 RAMP S=
STA. 547+30.73 SR-5 36.00' LT.

STA. 967+35.73 RAMP V=
STA. 545+67.98 SR-5 48.00' LT.

STA. 933+84.07 RAMP U=
STA. 903+84.08 RAMP T

STA. 280+29.30 ℄ I-40=
STA. 550+00.00 ℄ S.R. 5
N 498997.8516
E 1128183.6046

STA. 827+48.16 RAMP D=
STA. 545+67.98 SR-5 12.00' RT.

STA. 900+00.00 RAMP I=
STA. 545+67.98 SR-5 64.00' RT.

STA. 545+00 SEE SHEET NO. 59N

STA. 275+00 SEE SHEET NO. 59L

STA. 288+00 SEE SHEET NO. 59R

N. HIGHLAND AVE. (S.R. 5)

PROP. ℄ HIGHLAND AVE. (S.R. 5)

I-40 WESTBOUND

I-40 EASTBOUND

BRIDGE

EXECUTIVE DRIVE

RAMP "P"

RAMP "Q"

RAMP "R"

RAMP "S"

RAMP "T"

RAMP "U"

RAMP "V"

RAMP "W"

NOTE: CONTOURS SHOWN ARE EXISTING

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DANIEL WALTON
REGISTERED ENGINEER
AGENCY ID 115106
6-06-2017
COMMERCE
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2

STA. 275+00 TO STA. 288+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50T1
CONST.	2017	NH-I-40-1(348)	59N

STA. 545+00 SEE SHEET NO. 59M

545

540

N. HIGHLAND AVE.
PROP. ℄ HIGHLAND AVE. (S-R. 5)
N 5° 16' 40" W

OUT - 35F
OUT - 35E
OUT - 35D
OUT - 35C
OUT - 35B
OUT - 35A
OUT - 35

OUT - 36F
OUT - 36E
OUT - 36D
OUT - 36C
OUT - 36B
OUT - 36A
OUT - 36

CARRIAGE HOUSE DR

RIDGECREST RD

LIMIT OF CONST.
STA. 536+90.00

NOTE: CONTOURS SHOWN ARE EXISTING

N

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AGRICULTURE
COMMERCE
No. 115106
6-06-2017
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2
L.O.C. TO STA.545+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50U1
CONST.	2017	NH-I-40-1(348)	59P

N 47° 58' 25" W

PROP. ℄ HIGHLAND AVE. (S.R. 5)

MANOR ROAD

VANN DRIVE

LIMIT OF CONST.
STA. 568+65.00

560

555

24" SD

OUT - 30

STA.872+00.51 RAMP R=
STA.555+52.56 SR-5 48.00^ RT.

STA. 555+00 SEE SHEET NO. 59M

NOTE: CONTOURS SHOWN ARE EXISTING

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STATE OF TENNESSEE
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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2
TO STA.555+00 TO L.O.C.
SCALE: 1"= 50'

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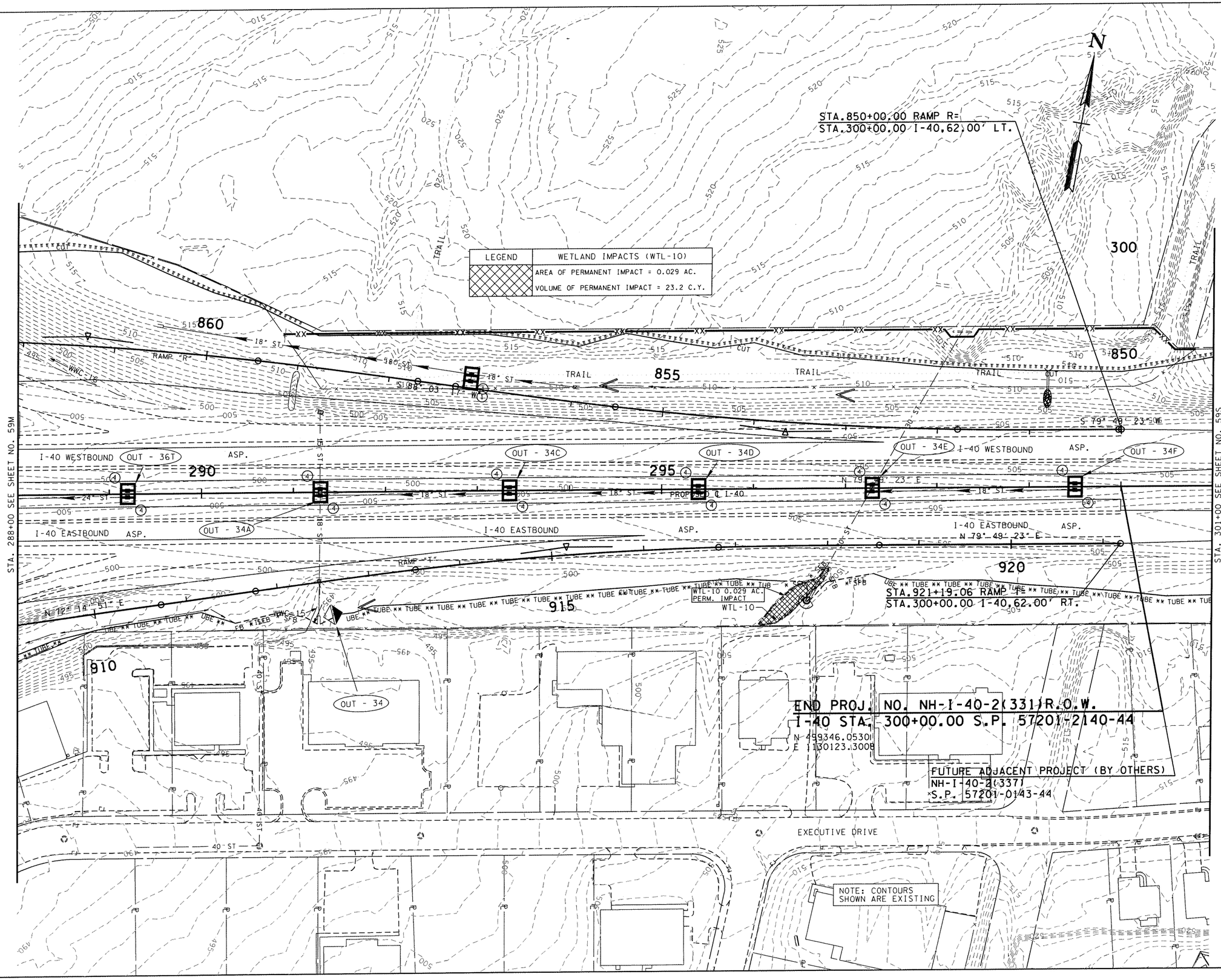
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50V1
CONST.	2017	NH-I-40-1(348)	59R



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No. 115106
6-06-2017
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2

STA.288+00 TO STA. 301+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50WI
CONST.	2017	NH-I-40-1(348)	59S

END (CONST.) PROJECT NO. NH-I-40-1(348)
I-40 (MADISON COUNTY) STA. 304+20.00
N 499420.2624
E 1130536.6929

305

310

N

CUT

LIMIT OF CONST.
STA. 305+50.00

I-40 WESTBOUND

ASP.

PROPOSED ℄ I-40

I-40 EASTBOUND

ASP.

STA. 301+00 SEE SHEET NO. 59R

** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE ** TUBE **

EXECUTIVE DRIVE

WESLAKE COVE

NOTE: CONTOURS SHOWN ARE EXISTING

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AGRICULTURE
COMMERCE
No. 115106
STATE OF TENNESSEE
6-06-2017

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 2
STA. 301+00 TO STA. 314+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50E2
CONST.	2017	NH-I-40-1(348)	60

BEGIN (CONST.) PROJECT NO. NH-I-40-1(348)
I-40 (MADISON COUNTY) STA. 151+50.00
S.P. 57201-3149-44
N 494875.2667
E 1116002.5659

145 150 155

WETLAND

WWC-6

LIMIT OF PAVING
STA. 151+50.00

FILL

PROPOSED ℄ I-40

N 66° 11' 47" E

N 70° 00' 19" E

OUT - 381

OUT - 38H

18" ST

18" ST

CUT

LIMIT OF PAVING
STA. 151+50.00

BEGIN FULL WIDTH DESIGN
STA. 156+50.00

ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

STA. 158+00 SEE SHEET NO. 60A

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REGISTERED ENGINEER
6-06-2017
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3
STA. 145+00 TO STA. 158+00
SCALE: 1" = 50'

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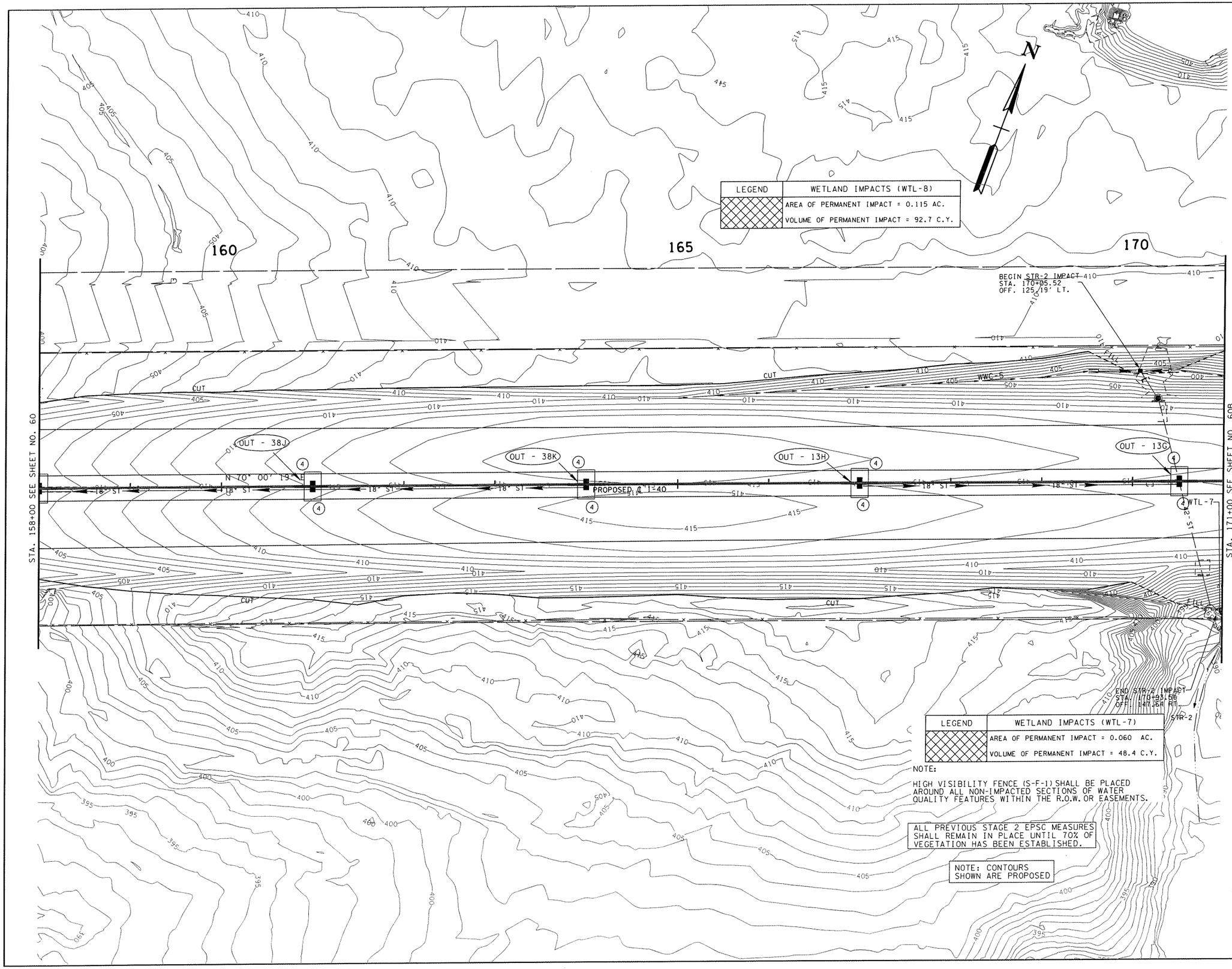
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50F2
CONST.	2017	NH-I-40-1(348)	60A



NOTE:

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE R.O.W. OR EASEMENTS.

ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

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DANIEL WALTON
REGISTERED ENGINEER
AGRICULTURE & ENVIRONMENT
6-06-2017
COMMERCE No. 115106
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3

STA. 158+00 TO STA. 171+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50G2
CONST.	2017	NH-I-40-1(348)	60B

LEGEND	WETLAND IMPACTS (WTL-8)
	AREA OF PERMANENT IMPACT = 0.115 AC.
	VOLUME OF PERMANENT IMPACT = 92.7 C.Y.

N

175

180

STA. 171+00 SEE SHEET NO. 60A

STA. 184+00 SEE SHEET NO. 60C

OUT - 14M

OUT - 14L

OUT - 14K

OUT - 14J

OUT - 14I

OUT - 14H

OUT - 14G

N 70° 00' 19" E

PROPOSED ℄ I-40

18" ST

24" ST

WTL-7
(REMAINING PORTION NOT TO BE DISTURBED)

LEGEND	WETLAND IMPACTS (WTL-7)
	AREA OF PERMANENT IMPACT = 0.060 AC.
	VOLUME OF PERMANENT IMPACT = 48.4 C.Y.

NOTE:

HIGH VISIBILITY FENCE (S-F-1) SHALL BE PLACED AROUND ALL NON-IMPACTED SECTIONS OF WATER QUALITY FEATURES WITHIN THE R.O.W. OR EASEMENTS.

ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

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REGISTERED ENGINEER
AGRICULTURE
6-06-2017
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No. 115106
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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3

STA. 171+00 TO STA. 184+00

SCALE: 1" = 50'

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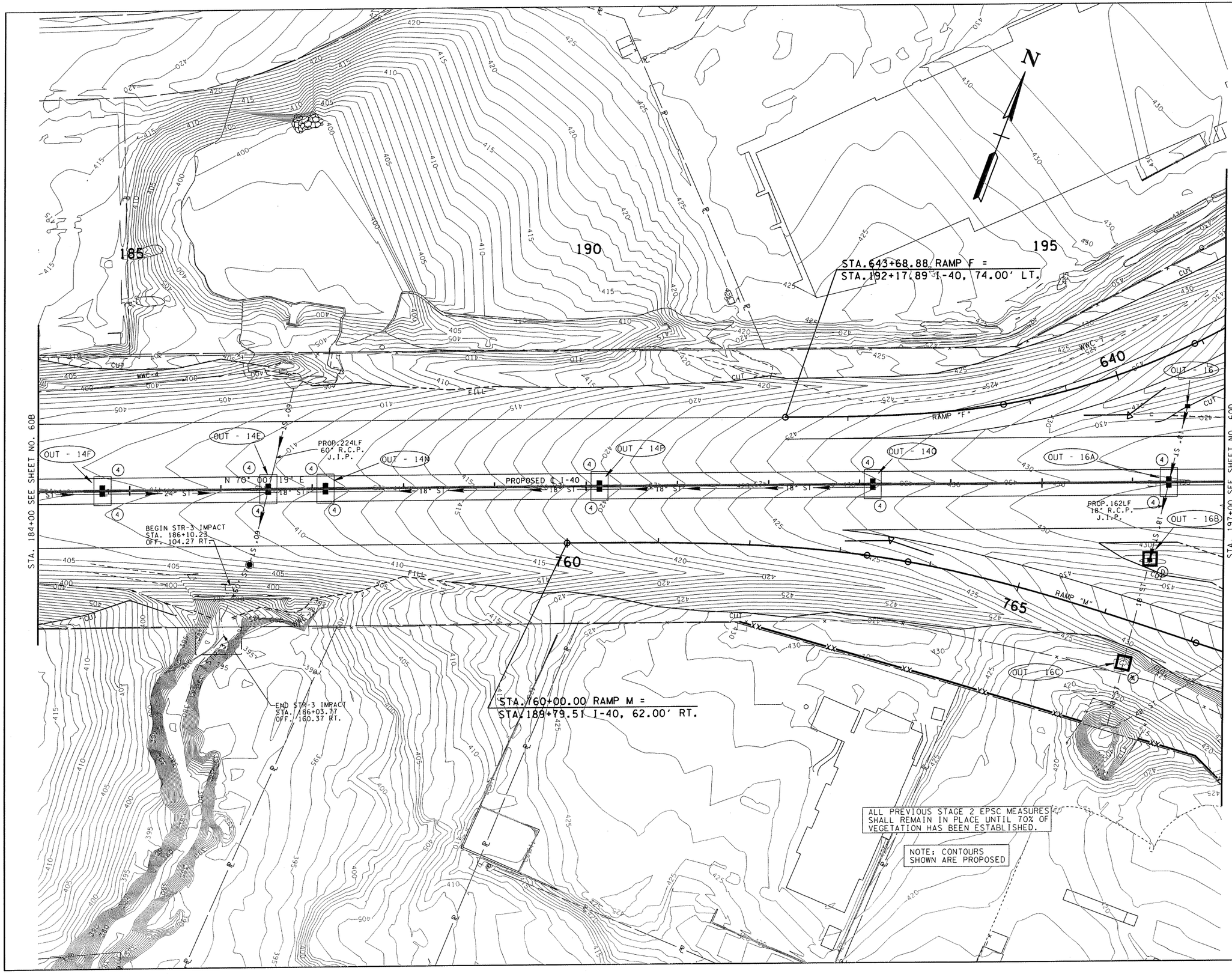
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50H2
CONST.	2017	NH-I-40-1(348)	60C



ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

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REGISTERED ENGINEER
6-06-2017
STATE OF TENNESSEE

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3

STA.184+00 TO STA.197+00

SCALE: 1"= 50'

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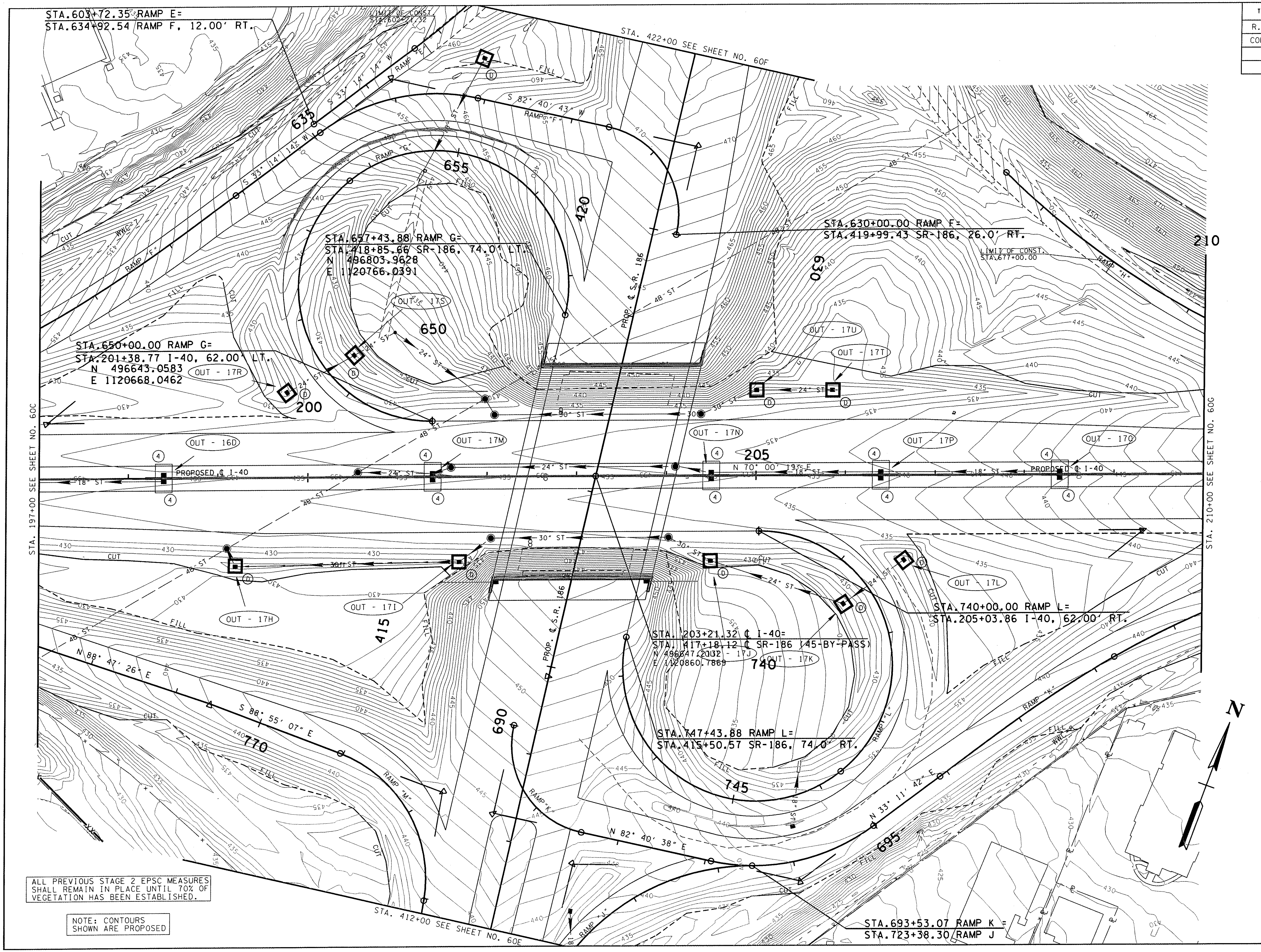
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50J2
CONST.	2017	NH-I-40-1(348)	60D



STA.603+72.35 RAMP E=
STA.634+92.54 RAMP F, 12.00' RT.
LIMIT OF CONST. STA.602+21.32
STA. 422+00 SEE SHEET NO. 60F
S 33° 14' 14" W
S 82° 40' 43" W
RAMP "F"
RAMP "G"
635
655
420
PROP. ℄ S.R. 186
STA.630+00.00 RAMP F=
STA.419+99.43 SR-186, 26.0' RT.
LIMIT OF CONST. STA.677+00.00
RAMP "H"
210
630
STA.657+43.88 RAMP G=
STA.418+85.66 SR-186, 74.0' LT.
N 496803.9628
E 1120766.0391
OUT - 17S
650
OUT - 17U
OUT - 17T
STA.650+00.00 RAMP G=
STA.201+38.77 I-40, 62.00' LT.
N 496643.0583
E 1120668.0462
OUT - 17R
200
STA. 197+00 SEE SHEET NO. 60C
STA. 210+00 SEE SHEET NO. 60G
OUT - 16D
OUT - 17M
OUT - 17N
OUT - 17P
OUT - 17O
205
PROPOSED ℄ I-40
N 70° 00' 19" E
OUT - 17I
OUT - 17H
OUT - 17L
STA.740+00.00 RAMP L=
STA.205+03.86 I-40, 62.00' RT.
415
STA. 203+21.32 ℄ I-40=
STA. 417+18.12 ℄ SR-186 (45-BY-PASS)
N 496647.2032
E 1120860.7869
OUT - 17J
OUT - 17K
740
N 88° 47' 26" E
S 88° 55' 07" E
770
RAMP "M"
690
RAMP "K"
RAMP "L"
STA.747+43.88 RAMP L=
STA.415+50.57 SR-186, 74.0' RT.
745
N 82° 40' 38" E
N 33° 11' 42" E
695
RAMP "J"
STA.693+53.07 RAMP K =
STA.723+38.30 RAMP J
STA. 412+00 SEE SHEET NO. 60E
N

ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

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REGISTERED ENGINEER
AGRICULTURE
COMMERCE
No. 115106
STATE OF TENNESSEE
6-06-2017

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3
STA.197+00 TO STA.210+00
SCALE: 1"= 50'

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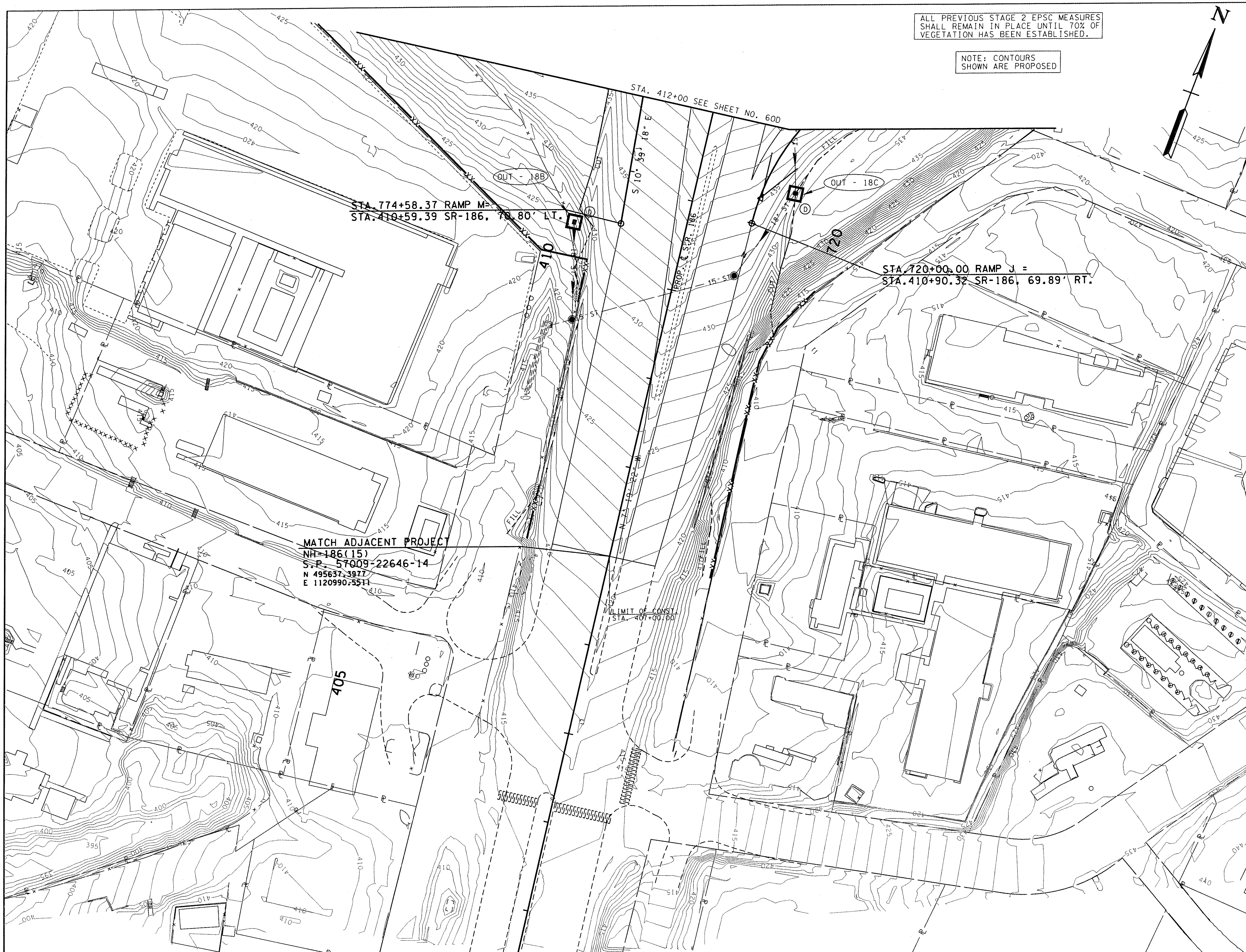
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50K2
CONST.	2017	NH-I-40-1(348)	60E



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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3
STA. 405+00 TO STA. 412+00
SCALE: 1" = 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	60L2
CONST.	2017	NH-I-40-1(348)	60F

ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

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AGREEMENT No. 115106
COMMERCE
STATE OF TENNESSEE
6-06-2017

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STAGE 3

STA. 422+00 TO STA. 430+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50M2
CONST.	2017	NH-I-40-1(348)	60G

STA. 210+00 SEE SHEET NO. 60D

STA. 223+00 SEE SHEET NO. 60H

STA.670+00.00 RAMP H =
STA.215+61.38 I-40, 62.00' LT.

STA.708+38.85 RAMP K =
STA.218+93.61 I-40, 62.00' RT.

OUT - 20A

OUT - 20B

OUT - 21D

OUT - 21E

OUT - 21F

OUT - 22B

RAMP "H"

RAMP "K"

PROPOSED ℄ I-40

N 68° 35' 01" E

ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

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COMMERCE
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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3
STA.210+00 TO STA.223+00
SCALE: 1"= 50'

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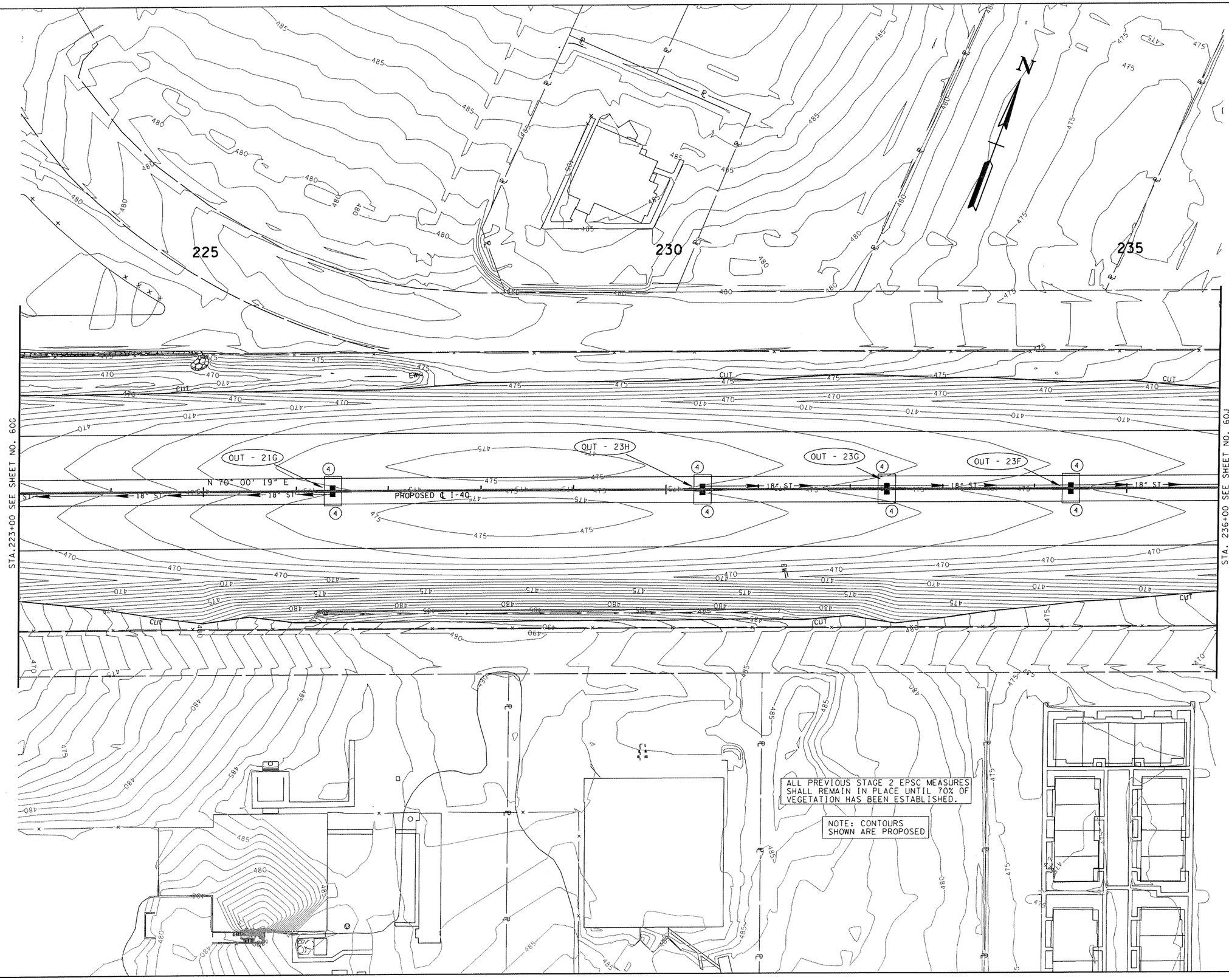
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50N2
CONST.	2017	NH-I-40-1(348)	60H



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REGISTERED ENGINEER
AGRICULTURE
6-06-2017
COMMERCE No. 115106
STATE OF TENNESSEE

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3

STA.223+00 TO STA.236+00

SCALE: 1"= 50'

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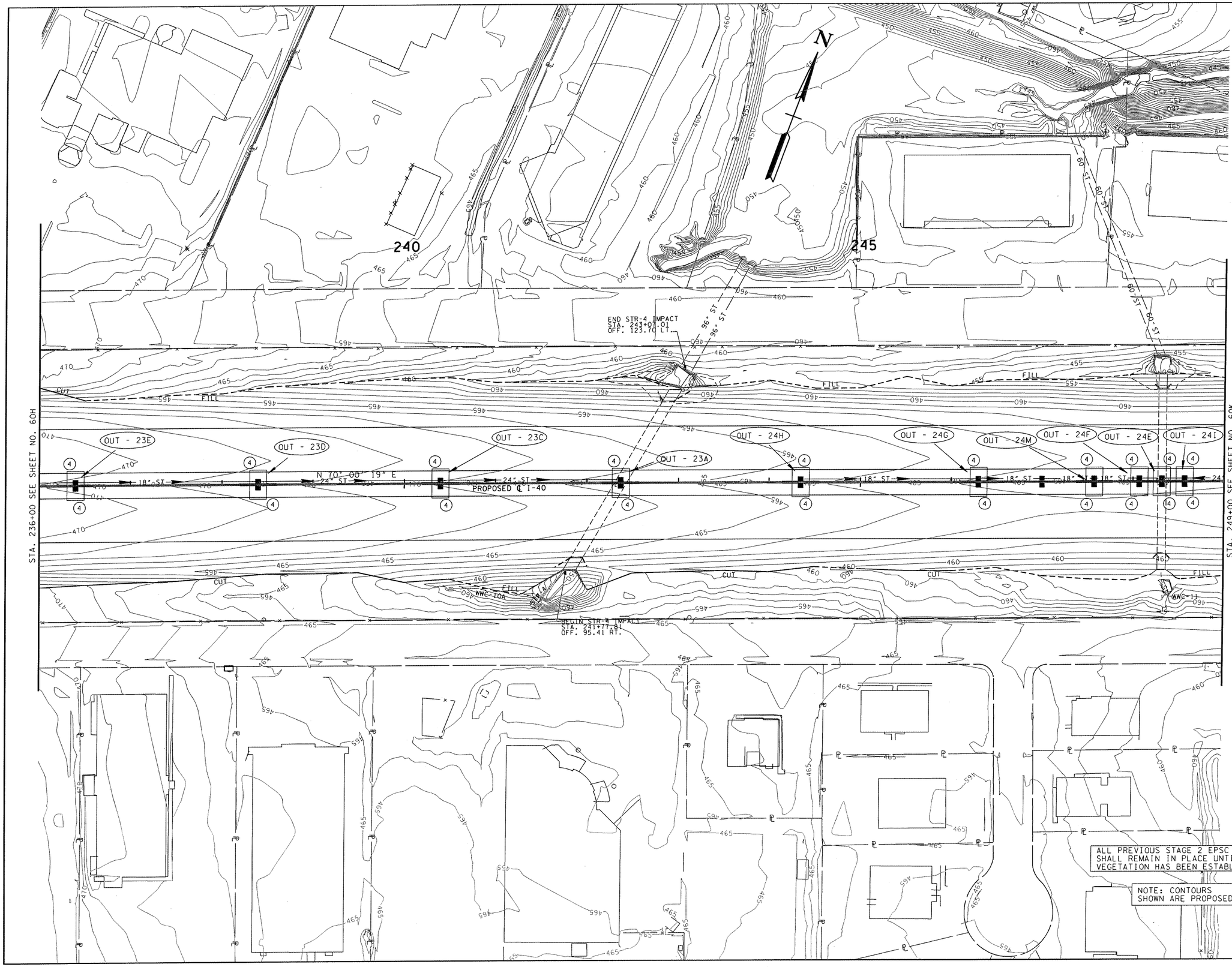
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50P2
CONST.	2017	NH-I-40-1(348)	60J



ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

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STATE OF TENNESSEE
DEPT. OF AGRICULTURE
6-06-2017
COMMERCE
No. 115106

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3

STA.236+00 TO STA.249+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	5002
CONST.	2017	NH-I-40-1(348)	60K

STA. 249+00 SEE SHEET NO. 60J

STA. 262+00 SEE SHEET NO. 60L

250 255 260

N

24" ST

N 70° 00' 19" E

PROPOSED ℄ I-40

OUT - 24J

OUT - 24K

OUT - 24L

OUT - 25A

OUT - 25B

OUT - 25C

OUT - 25D

OUT - 25E

WWC-12

FILL

CUT

ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

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No. 115106
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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3

STA.249+00 TO STA.262+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50R2
CONST.	2017	NH-I-40-1(348)	60L

STA.818+49.15 RAMP P=
STA.264+53.58 I-40, 62.00' LT.

END STR-5 IMPACT
STA. 270+28.42
OFF. 147.81 LT.

STA. 262+00 SEE SHEET NO. 60K

STA. 275+00 SEE SHEET NO. 60M

OUT - 25F | OUT - 25G | OUT - 25H | OUT - 25I | OUT - 26E | STR-5 | OUT - 26B | OUT - 26C

PROPOSED ℄ I-40

18" ST.

RAMP "P"

S 74° 43' 39" W

N 79° 49' 23" E

RAMP "V"

N 86° 35' 41" E

STR-5 INLET

WWC-14

OUT - 26F

BEGIN STR-5 IMPACT
STA. 270+21.60
OFF. 150.47 RT.

STA.950+00.00 RAMP V=
STA.263+64.54 I-40, 62.00' RT.

FILL | CUT

ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

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No. 115106
STATE OF TENNESSEE
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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3

STA.262+00 TO STA.275+00

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50S2
CONST.	2017	NH-I-40-1(348)	60M

STA. 555+00 SEE SHEET NO. 60P

STA.926+11.62 RAMP U=
STA.554+44.24 SR-5 12.00' LT.

STA.801+11.78 RAMP P=
STA.554+40.78 SR-5 64.00' LT.

STA.804+88.95 RAMP P=
STA.834+88.94 RAMP Q

STA.991+95.07 RAMP W=
STA.554+44.24 SR-5 36.00' RT.

STA.885+00.00 RAMP S=
STA.865+00.00 RAMP R 24.00' LT.

STA.983+50.00 RAMP W=
STA.963+50.00 RAMP V, 16.0' LT.

STA.893+18.91 RAMP S=
STA.547+30.72 SR-5 36.00' LT.

STA.967+35.73 RAMP V=
STA.545+67.98 SR-5 48.00' LT.

STA.933+84.07 RAMP U=
STA.903+84.08 RAMP T

STA. 280+29.30 ℄ I-40=
STA. 550+00.00 ℄ S.R. 5
N 498997.8516
E 1128183.6046

STA.827+48.16 RAMP Q=
STA.545+67.98 SR-5 12.00' RT.

STA.900+00.00 RAMP T=
STA.545+67.98 SR-5 64.00' RT.

STA. 275+00 SEE SHEET NO. 60L

STA. 288+00 SEE SHEET NO. 60R

STA. 545+00 SEE SHEET NO. 60N

ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

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6-06-2017
STATE OF TENNESSEE

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DEPARTMENT OF TRANSPORTATION

EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3
STA.275+00 TO STA.288+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50T2
CONST.	2017	NH-I-40-1(348)	60N

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No. 115106
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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3
L.O.C. TO STA.545+00
SCALE: 1"= 50'

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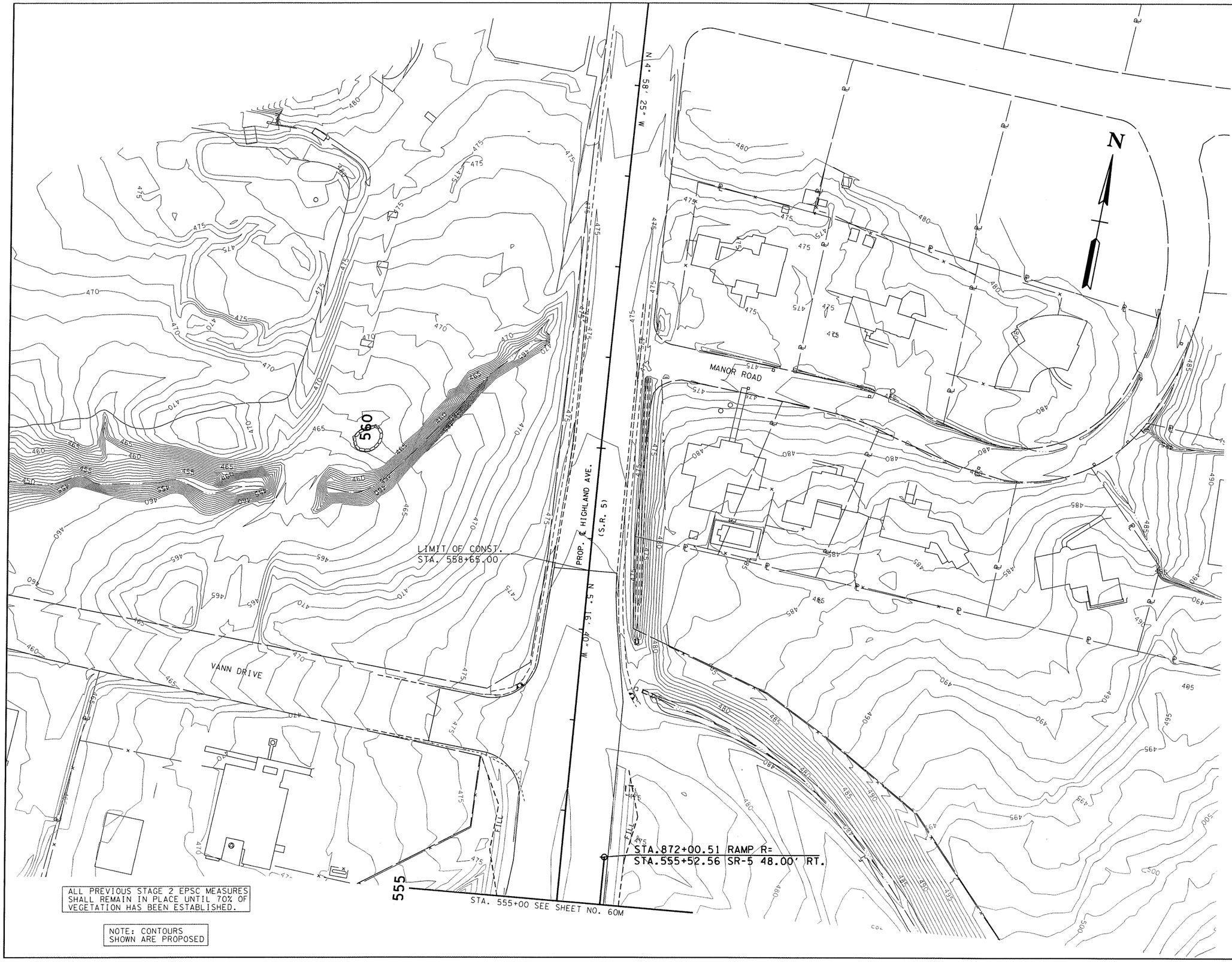
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50U2
CONST.	2017	NH-I-40-1(348)	60P



ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

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AGRICULTURE
6-06-2017
COMMERCE
No. 115106
STATE OF TENNESSEE

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3

TO STA.555+00 TO L.O.C.

SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50V2
CONST.	2017	NH-I-40-1(348)	60R

LEGEND	WETLAND IMPACTS (WTL-10)
	AREA OF PERMANENT IMPACT = 0.029 AC.
	VOLUME OF PERMANENT IMPACT = 23.2 C.Y.

STA. 288+00 SEE SHEET NO. 60P

STA. 301+00 SEE SHEET NO. 60S

STA.850+00.00 RAMP R=
STA.300+00.00 I-40,62.00' LT.

STA.921+19.06 RAMP T=
STA.300+00.00 I-40,62.00' RT.

END PROJ. NO. NH-I-40-2(331)R.O.W.
I-40 STA. 300+00.00 S.P. 57201-2140-44
N 499346.0530
E 1130123.3008

FUTURE ADJACENT PROJECT (BY OTHERS)
NH-I-40-2(337)
S.P. 57201-0143-44

ALL PREVIOUS STAGE 2 EPSC MEASURES SHALL REMAIN IN PLACE UNTIL 70% OF VEGETATION HAS BEEN ESTABLISHED.

NOTE: CONTOURS SHOWN ARE PROPOSED

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DEPARTMENT OF TRANSPORTATION

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STAGE 3
STA.288+00 TO STA. 301+00
SCALE: 1"= 50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2016	NH-I-40-2(331)	50W2
CONST.	2017	NH-I-40-1(348)	60S

END (CONST.) PROJECT NO. NH-I-40-1(348)
I-40 (MADISON COUNTY) STA. 304+20.00
N 499420.2624
E 1130536.6929

305

310

N

CUT

LIMIT OF CONST.
STA. 305+50.00

I-40 WESTBOUND

ASP.

PROPOSED ℄ I-40

I-40 EASTBOUND

ASP.

STA. 301+00 SEE SHEET NO. 60R

CUT

EXECUTIVE DRIVE

WESLAKE COVE

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EROSION PREVENTION AND SEDIMENT CONTROL PLAN

STAGE 3
STA. 301+00 TO STA. 314+00
SCALE: 1"= 50'

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