

SWPPP INDEX OF SHEETS

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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: S.R. 397 (MACK HATCHER PARKWAY)
 FROM SOUTH OF S.R. 96 WEST OF FRANKLIN
 TO EAST OF S.R. 106 (US 431) NORTH OF FRANKLIN (1A)
 COUNTY: WILLIAMSON
 PIN: 101454.01
- 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) 51-51W, DRAINAGE MAP SHEET(S) 36-39, USGS QUAD MAP, AND THE OUTFALL TABLE IN SECTION 17.

- 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): 129.02 ACRES
- 2.7. TOTAL AREA TO BE DISTURBED (3.5.1.c): 89.01 ACRES (PER CONSTRUCTION SEQUENCING, NO MORE THAN 50 ACRES WILL BE DISTURBED AT ANY TIME)
- 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 06/04/2009 (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)
ARMOUR SILT LOAM	B	41.7	0.43
BRAXTON CHERTY SILT LOAM	C	4.8	0.17
CAPTINA SILT LOAM, PHOSPHATIC	D	3.3	0.49
DUNNING SILT LOAM, PHOSPHATIC	C/D	1.4	0.43
EGAM SILT LOAM, PHOSPHATIC	C	1.6	0.37
HAMPSHIRE SILT LOAM	C	0.7	0.32
HUNTINGTON SILT LOAM, PHOSPHATIC	B	11.8	0.37
LANTON SILT LOAM, PHOSPHATIC	C/D	5.3	0.37
LINDELL SILT LOAM	B/D	1.0	0.32
MADE LAND	N/A	0.2	N/A
MAURY SILT LOAM	A	8.9	0.32
ASHWOOD-MIMOSA-ROCK OUTCROP COMPLEX	D	0.8	0.32
ROCKLAND	N/A	0.2	N/A
SEES SILTY CLAY LOAM	C/D	17.7	0.37
WATER	N/A	0.6	N/A

- 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	19.04	14.8		0.8
PERVIOUS	109.04	84.5		0.2
WATER	0.94	0.7		N/A
WEIGHTED CURVE NUMBER OR C-FACTOR =				0.29

RUNOFF COEFFICIENTS FOR POST-CONSTRUCTION CONDITIONS				
AREA TYPE	AREA(AC)	PERCENTAGE OF TOTAL AREA (%)	RUNOFF CN	C FACTOR
IMPERVIOUS	42.80	33.2		0.8
PERVIOUS	85.5	66.3		0.2
WATER	0.72	0.5		N/A
WEIGHTED CURVE NUMBER OR C-FACTOR =				0.40

- 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 SHEET(S) 7-A, 52U)
 - 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 CONSTRUCTION.
 - 3.9. INSTALL INLET AND CULVERT PROTECTION ONCE STRUCTURES ARE IN PLACE AND CAPABLE OF INTERCEPTING FLOW.
 - 3.10. PERFORM FINAL GRADING AND INSTALL BASE STONE.
 - 3.11. COMPLETE FINAL PAVING AND SEALING OF CONCRETE.
 - 3.12. INSTALL TRAFFIC CONTROL AND PROTECTION DEVICES.
 - 3.13. COMPLETE FINAL STABILIZATION (TOPSOIL, SEEDING, MULCH, EROSION CONTROL BLANKET, SOD, ETC.)
 - 3.14. REMOVE TEMPORARY EROSION CONTROLS AND ACCUMULATED SEDIMENT FROM AREAS THAT HAVE ESTABLISHED AT LEAST 70 PERCENT UNIFORM PERMANENT VEGETATIVE COVER.
 - 3.15. RE-STABILIZE AREAS DISTURBED BY REMOVAL ACTIVITIES.

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

- 4.1. STREAM INFORMATION (3.5.1.j, 3.5.1.k)
- 4.1.1. WILL CONSTRUCTION AND/OR EROSION PREVENTION AND SEDIMENT CONTROLS IMPACT ANY STREAMS WITHIN THE PROJECT LIMITS? YES NO
IF YES, THE IMPACT(S) HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE WATER QUALITY PERMITS.
- 4.1.2. HAVE ANY OF THE RECEIVING STATE WATERS LESS THAN OR EQUAL TO 1 FLOW MILE DOWN GRADIENT OF THE PROJECT LIMITS BEEN CLASSIFIED BY TDEC AS FOLLOWS (CHECK ALL THAT APPLY):
- 303d WITH UNAVAILABLE PARAMETERS FOR SILTATION
- 303d WITH UNAVAILABLE PARAMETERS FOR HABITAT ALTERATION
- EXCEPTIONAL TENNESSEE WATERS (ETW)
- 4.1.3. RECEIVING WATERS OF THE STATE (3.5.1.k).

RECEIVING WATERS OF THE STATE INFORMATION					
TDOT STATE WATER LABEL FROM EBR	NAME OF RECEIVING STATE WATER	303d WITH UNAVAILABLE PARAMETERS FOR SILTATION OR HABITAT ALTERATION (YES OR NO)	ETW (YES OR NO)	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN ≤ 1 FLOW MILE DOWN GRADIENT OF PROJECT LIMITS (YES OR NO)
STR-2	HATCHER SPRING CREEK	YES	NO	NO	YES
STR-4	HATCHER SPRING CREEK	YES	NO	YES	YES
STR-5	UNNAMED TRIBUTARY TO HATCHER SPRING CREEK	YES	NO	YES	YES
STR-10	HARPEATH RIVER	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-FOOT 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-FOOT FOR ALL OTHER STREAMS (AVERAGE WIDTH PER SIDE WITH A MINIMUM OF 15-FEET).

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

- 4.1.5. ARE THERE ANY WATER QUALITY RIPARIAN BUFFER ZONES NOT REQUIRED FOR STATE WATERS DUE TO A TDEC ARAP? (9.0)
 YES NO
- 4.1.6. ARE THERE WATER QUALITY RIPARIAN BUFFER ZONE EXEMPTIONS? (4.1.2.1) YES NO
IF YES, EXISTING CONDITIONS DESCRIPTION: _____
- 4.1.7. EVERY ATTEMPT SHOULD BE MADE FOR CONSTRUCTION ACTIVITIES TO NOT TAKE PLACE WITHIN THE WATER QUALITY RIPARIAN BUFFER ZONE AND FOR EXISTING FORESTED AREAS TO BE PRESERVED. (5.4.2.)
- 4.1.8. BECAUSE OF HEAVY SEDIMENT LOAD ASSOCIATED WITH CONSTRUCTION SITE RUNOFF, WATER QUALITY RIPARIAN BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE WATER QUALITY RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA.
- 4.1.9. WHERE IT IS NOT PRACTICABLE TO MAINTAIN A FULL WATER QUALITY RIPARIAN BUFFER, BEST MANAGEMENT PRACTICES (BMPs) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MUST BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE SWPPP. THE ENVIRONMENTAL AND ROADWAY DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CGP. WHERE ISSUED, ARAP/401 REQUIREMENTS WILL PREVAIL IF IN CONFLICT WITH THESE BUFFER ZONE REQUIREMENTS.

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

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

RECEIVING WOTUS (EPHEMERAL) INFORMATION		
TDOT WOTUS LABEL	LOCATED WITHIN PROJECT LIMITS (YES OR NO)	LOCATED WITHIN 15-FT OF THE PROJECT LIMITS (YES OR NO)
WWC-1	NO	NO
WWC-2	NO	NO
EPH-4/WWC-4	YES	YES
EPH-13/WWC-13	YES	YES
EPH-17	YES	YES
EPH-18/WWC-18	YES	YES
EPH-19/WWC-19	YES	YES
EPH-20/WWC-20	YES	YES

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

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

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

4.3. OUTFALL INFORMATION

- 4.3.1. OUTFALL TABLE (3.5.1.e). SEE SWPPP SHEETS S-8 AND S-9 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-2	817+25 LT	820+75 LT	0.000	0.000
WTL-3	816+25 RT	823+55 RT	N/A	0.333
WTL-4	821+00 LT	822+50 LT	N/A	0.020
WTL-5	824+30 LT	826+20 LT	N/A	0.084
WTL-6	22+50 RT S.R. 96	23+80 RT S.R. 96	N/A	0.003
WTL-7	23+80 RT S.R. 96	24+00 RT S.R. 96	N/A	N/A
WTL-10	24+50 LT S.R. 96	26+20 LT S.R. 96	N/A	0.032
WTL-11	38+70 RT S.R. 96	45+20 RT S.R. 96	N/A	N/A
WTL-12	45+50 RT S.R. 96	45+90 RT S.R. 96	0.000	0.000
WTL-13	45+50 RT S.R. 96	50+00 RT S.R. 96	N/A	0.003
WTL-15	861+30 RT	862+20 RT	N/A	0.057

- 4.5. TOTAL MAXIMUM DAILY LOADS (TMDL) INFORMATION (3.5.10)
- 4.5.1. IS THIS PROJECT LOCATED IN A HUC-8 WATERSHED THAT MAINTAINS AN EPA APPROVED TMDL FOR SILTATION AND HABITAT ALTERATION?
 YES NO
- 4.5.2. IF YES, IS THIS PROJECT LOCATED WITHIN A HUC-12 SUBWATERSHED WITH A WASTE LOAD ALLOCATION (WLA)?
 YES NO
- 4.5.3. IF YES, DOES THE PROJECT HAVE A DIRECT DISCHARGE TO A 303(d) LISTED STREAM FOR SILTATION OR HABITAT ALTERATION?
 YES NO
- 4.5.4. IF YES, HAS A SUMMARY OF THE CONSULTATION LETTER BEEN SUBMITTED/RECEIVED?
 YES NO
- 4.6. ECOLOGY INFORMATION (3.5.5.e)
DOES THE TDOT ENVIRONMENTAL BOUNDARIES REPORT SPECIFY SPECIAL NOTES TO BE ADDED TO THE PLAN SHEETS?
 YES NO
IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) _____.
- 4.7. ENVIRONMENTAL COMMITMENTS
ARE THERE ANY NOTES ON THE ENVIRONMENTAL COMMITMENT SHEET?
 YES NO
IF YES, THEY HAVE BEEN INCLUDED ON PLAN SHEET(S) 1-E.
5. **EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES** (3.5.3)
- 5.1. EPSC MEASURES MUST BE DESIGNED, INSTALLED AND MAINTAINED TO CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE EROSION (4.1.1).
- 5.2. EPSC MEASURES MUST CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOWS AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS, STREAM CHANNELS, AND STREAM BANKS. (4.1.1)
- 5.3. HAVE THE CONTROL MEASURES BEEN DESIGNED PER THE SIZE AND SLOPE OF THE DISTURBED DRAINAGE AREA (3.5.3.3)?
 YES NO
- 5.4. THE CONTROL MEASURES HAVE, AT A MINIMUM, BEEN DESIGNED FOR THE 5-YEAR, 24 HOUR STORM EVENT (3.5.3.3, 5.4.1.a).
- 5.5. ARE THE LIMITS OF DISTURBANCE CLEARLY MARKED ON THE EPSC PLANS (3.5.1.h)? YES NO

- 5.6. AREAS TO BE UNDISTURBED SHALL BE CLEARLY MARKED IN THE FIELD BEFORE CONSTRUCTION ACTIVITIES BEGIN.
- 5.7. UNLESS OTHERWISE NOTED IN THE PLANS, THE CONTRACTOR SHALL NOT CLEAR/DISTURB ANY AREA BEYOND 15 FEET FROM SLOPE LINES OR ROW/ EASEMENT LINE, WHICHEVER IS LESSER.
- 5.8. CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. EXISTING VEGETATION, INCLUDING STREAM AND WETLAND BUFFERS (UNLESS PERMITTED), SHOULD BE PRESERVED TO THE MAXIMUM EXTENT POSSIBLE. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.
- 5.9. HAVE STAGED EPSC PLANS BEEN PREPARED FOR THE PROJECT (3.5.2)?
YES NO (IF YES, CHECK ONE BELOW)
- 5.9.1. PROJECT DISTURBED AREA IS THAN LESS THAN 5 ACRES (MINIMUM OF TWO STAGES OF EPSC PLANS)
- 5.9.2. PROJECT DISTURBED AREA IS GREATER THAN 5 ACRES (MINIMUM OF THREE STAGES OF EPSC PLANS)
- 5.10. STEEP SLOPES ARE DEFINED AS A NATURAL OR CREATED SLOPE OF 35% GRADE OR GREATER REGARDLESS OF HEIGHT. HAVE STEEP SLOPES BEEN MINIMALLY DISTURBED AND/OR PROTECTED BY CONVEYING RUNOFF NON-EROSIVELY AROUND OR OVER THE SLOPE (3.5.3.2) (10. "STEEP SLOPE")? YES NO N/A
- 5.11. THE STRUCTURAL EPSC MEASURES HAVE BEEN INCLUDED IN THE TOTAL PROJECT IMPACTS AND HAVE BEEN INCLUDED IN THE AQUATIC RESOURCE ALTERATION (ARAP) PERMIT OR SECTION 401 CERTIFICATION (3.5.1.j). REFER TO THE LIST OF APPLICABLE ENVIRONMENTAL PERMITS LOCATED ON SWPPP SHEET S-7. ALL PERMITS WILL BE MAINTAINED ON SITE WITHIN THE "DOCUMENTATION AND PERMITS" BINDER.
- 5.12. THE EPSC CONTROL MEASURES LISTED IN THE QUANTITIES TABLE ON SHEET(S) 2-A, 2-A1, 2-A2, 50A 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 2-A, 2-A1, 2-A2, 50A (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 MANUFACTURER'S GUIDELINES AND FULLY DESCRIBED ON THE EPSC PLANS (3.5.3.1.b).
- 6.3. FLOCCULANTS SHALL BE HANDLED IN ACCORDANCE WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) MATERIAL SAFETY DATA SHEET (MSDS) REQUIREMENTS AND SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIED USE CONFORMING TO ALL FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS.
- 6.4. ALL VENDORS AND SUPPLIERS OF FLOCCULANTS SHALL PRESENT OR SUPPLY A WRITTEN TOXICITY REPORT FOR BOTH ACUTE AND CHRONIC TOXICITY TESTS WHICH VERIFIES THAT THE FLOCCULANT EXHIBITS ACCEPTABLE TOXICITY PARAMETERS WHICH MEET OR EXCEED THE EPA REQUIREMENTS FOR THE STATE AND FEDERAL WATER QUALITY STANDARDS. WHOLE EFFLUENT TESTING DOES NOT MEET THIS REQUIREMENT AS PRIMARY REACTIONS HAVE OCCURRED AND TOXIC POTENTIALS HAVE BEEN REDUCED.
- 6.5. DO NOT APPLY FLOCCULANTS DIRECTLY TO, OR WITHIN 60 FEET, OF ANY STREAMS, WETLANDS, OR OTHER NATURAL WATER RESOURCE LOCATED ON OR ADJACENT TO THE CONSTRUCTION SITE. DO NOT APPLY FLOCCULANTS DIRECTLY INTO WATERS CONTAINED WITHIN SEDIMENT PONDS OR TO SLOPES THAT PRODUCE RUNOFF DIRECTLY INTO A STREAM, WETLAND, OR OTHER NATURAL WATER RESOURCE. DO NOT APPLY FLOCCULANTS IMMEDIATELY AT A STORMWATER OUTFALL WHERE RUNOFF LEAVES THE PROJECT LIMITS.
- 6.6. BEFORE FLOCCULANTS CAN BE USED ON A CONSTRUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES MUST BE OBTAINED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE, TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND APPLICATION RATE. SINCE FLOCCULANT EFFICACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION OR DOSAGE RATE. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA. DO NOT APPLY EMULSION FORMS OF FLOCCULANTS DIRECTLY TO STORMWATER RUNOFF OR TO STREAMS, WETLANDS, OR OTHER WATER RESOURCES DUE TO SURFACTANT TOXICITY.
- 6.7. FLOCCULANT POWDER MAY BE APPLIED BY A HAND SPREADER OR A MECHANICAL SPREADER. IF APPROVED BY THE MANUFACTURER, FLOCCULANT MAY BE MIXED WITH DRY SILICA SAND, FERTILIZER, SEED, OR OTHER SOIL AMENDMENTS TO AID IN SPREADING. FLOCCULANTS MAY ALSO BE APPLIED WITH A WATER TRUCK OR AS PART OF HYDRO-SEEDING. APPLICATION METHOD SHALL ENSURE UNIFORM COVERAGE TO THE TARGET AREA.
- 6.8. MANUFACTURER'S GUIDANCE SHOULD BE FOLLOWED FOR BLOCK, LOG AND SOCK SPACING CONFIGURATIONS. BEFORE FLOCCULANTS CAN BE USED ON A CONSTRUCTION PROJECT, SITE-SPECIFIC SOIL SAMPLES MUST BE OBTAINED AND TESTED BY THE MANUFACTURER OR THEIR REPRESENTATIVE, TO IDENTIFY THE OPTIMUM FLOCCULANT TYPE AND APPLICATION RATE. SINCE FLOCCULANT EFFICACY IS HIGHLY DEPENDENT ON SOIL TYPE, SOIL SAMPLES WILL NEED TO BE OBTAINED FROM EACH SOIL HORIZON THAT WILL BE ACCESSED DURING EXCAVATION. FLOCCULANTS SHOULD BE APPLIED ON A CONSTRUCTION SITE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION OR DOSAGE RATE.

7. UTILITY RELOCATION

ARE UTILITIES INCLUDED IN THE CONTRACT? YES NO

IF YES, THE FOLLOWING APPLY:

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

- 7.2. SILT FENCE SHALL BE INSTALLED ON THE DOWNGRADIENT SIDE OF STOCKPILED SOIL. ANY TRENCHING ACROSS WET WEATHER CONVEYANCES SHALL BE DONE DURING DRY CONDITIONS, REMOVED AND STABILIZED BY THE END OF THE WORK DAY.
- 7.3. UTILITY CROSSINGS IN ENVIRONMENTAL FEATURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. ENVIRONMENTAL PERMITS APPLY TO UTILITIES IN THIS PROJECT. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMITS.
- 7.4. IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR TO PROTECT EXPOSED EARTH FROM EROSION AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM THEIR WORK. PRIOR TO BEGINNING WORK, ADEQUATE EPSC MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME, SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND ENTERING WATERS OF THE STATE/U.S.
- 7.5. FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN FOURTEEN DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOILS OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EPSC MEASURES OR RECEIVE SEPARATE EPSC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVERNIGHT, APPROPRIATE EPSC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL THE TRENCH IS BACKFILLED.
- 7.6. IN REGARDS TO EPSC, TDEC REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS ON THIS PROJECT. THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT.
- 7.7. TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORMWATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE. ADDITIONAL EPSC MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.
- 7.8. FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, EPSC MEASURES SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.
- 7.9. THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS AS APPROVED BY THE TDOT RESPONSIBLE PARTY.
- 7.10. THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EPSC MEASURES TO REPLACE ONSITE EPSC MEASURES REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT ENGINEER BEFORE COMMENCING WORK.
- 7.11. FOR UTILITY CROSSINGS THAT UTILIZE HORIZONTAL DIRECTIONAL DRILLING THE FOLLOWING SHALL APPLY:
 - 7.11.1. THE ENTRY AND EXIT POINTS SHALL BE AT LEAST 50 FEET FROM THE STREAM BANK OR WETLAND BOUNDARY.
 - 7.11.2. THE DEPTH OF BORE BELOW THE STREAMBED IS SUFFICIENT TO PREVENT RELEASE OF DRILLING FLUID, BASED ON THE PARENT MATERIAL.
 - 7.11.3. A SITE-SPECIFIC CONTINGENCY AND CONTAINMENT PLAN FOR INADVERTENT RELEASE OF DRILLING FLUID SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK. THIS PLAN SHALL BE SUBMITTED TO THE TDOT PROJECT ENGINEER AND THE TDOT ENVIRONMENTAL DIVISION PERMITS AND/OR COMPLIANCE AND FIELD SERVICES OFFICE FOR REVIEW AND APPROVAL.

8. MAINTENANCE AND INSPECTION

- 8.1. INSPECTION PRACTICES (3.5.8)
 - 8.1.1. PROJECT EPSC INSPECTORS AND ENGINEERS (INCLUDING TDOT STAFF, CONSULTANTS AND CONTRACTOR STAFF) RESPONSIBLE FOR THE INSPECTION, IMPLEMENTATION, MAINTENANCE. AND/OR REPAIR OF EPSC MEASURES SHALL MEET ONE OF THE FOLLOWING REQUIREMENTS (3.5.8.1.):

- 8.1.1.1. SUCCESSFULLY COMPLETED THE TDOT EPSC INSPECTIONS TRAINING AND ANY RECERTIFICATION COURSE AS REQUIRED.
- 8.1.1.2. SUCCESSFULLY COMPLETED THE TDEC "LEVEL I - FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" COURSE AND ANY RECERTIFICATION COURSES AS REQUIRED.
- 8.1.1.3. BE A CURRENT TN LICENSED PROFESSIONAL ENGINEER OR LANDSCAPE ARCHITECT.
- 8.1.1.4. BE A CURRENT CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC).
- 8.1.1.5. SUCCESSFULLY COMPLETED TDEC "LEVEL II - DESIGN PRINCIPLES FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES" COURSE AND ANY RECERTIFICATION COURSE AS REQUIRED.
- 8.1.2. THE TDOT CONSTRUCTION ENGINEER (OR THEIR DULY AUTHORIZED REPRESENTATIVE) AND THE CONTRACTOR'S SITE SUPERINTENDENT ARE RESPONSIBLE FOR INSPECTIONS. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE TDOT CONSTRUCTION ENGINEER OR THEIR DULY AUTHORIZED REPRESENTATIVE SHALL COMPLETE THE EPSC INSPECTION REPORTS AND DISTRIBUTE COPIES PER THE CONTRACT.
- 8.1.3. THE INSPECTOR SHALL CONDUCT PRE-CONSTRUCTION INSPECTIONS TO VERIFY AREAS THAT ARE NOT TO BE DISTURBED HAVE BEEN MARKED IN THE SWPPP AND IN THE FIELD BEFORE LAND DISTURBANCE ACTIVITIES BEGIN AND INITIAL MEASURES HAVE BEEN INSTALLED (10 "INSPECTOR") (3.5.1.o).
- 8.1.4. EPSC CONTROLS SHALL BE INSPECTED TO VERIFY MEASURES HAVE BEEN INSTALLED AND MAINTAINED IN ACCORDANCE WITH TDOT STANDARD DRAWINGS, SPECIFICATIONS, AND GOOD ENGINEERING PRACTICES. EPSC INSPECTIONS SHALL BE DOCUMENTED ON THE TDOT EPSC INSPECTION REPORT FORM AND THE TDEC CONSTRUCTION STORMWATER INSPECTION CERTIFICATION (TWICE-WEEKLY INSPECTIONS) FORM.
- 8.1.5. OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EPSC MEASURES ARE EFFECTIVE IN PREVENTING EROSION AND CONTROLLING SEDIMENT INCLUDING SIGNIFICANT IMPACTS TO SURROUNDING STATE WATERS, WOTUS (EPHEMERAL), WETLANDS, OTHER NATURAL RESOURCES AND ADJACENT PROPERTY OWNERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWN GRADIENT LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
- 8.1.6. INSPECTIONS WILL BE CONDUCTED AT LEAST TWICE EVERY CALENDAR WEEK AND AT LEAST 72 HOURS APART (3.5.8.2.a). A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY. QUALITY ASSURANCE INSPECTIONS OF TDOT EPSC, NPDES AND WATER QUALITY PERMIT REQUIREMENTS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE.
- 8.1.7. THE FREQUENCY OF EPSC INSPECTIONS MAY BE REDUCED TO ONCE A MONTH WHERE SITES OR PORTIONS OF SITES HAVE BEEN TEMPORARILY STABILIZED UNTIL CONSTRUCTION ACTIVITIES RESUME WITH WRITTEN NOTIFICATION BY THE TDOT REGIONAL ENGINEER TO TDEC NASHVILLE CENTRAL OFFICE AND SUBSEQUENT TDEC APPROVAL. WRITTEN NOTIFICATION MUST INCLUDE THE INTENT TO CHANGE FREQUENCY AND JUSTIFICATION (3.5.8.2.a).
- 8.1.8. ALL DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR MATERIAL STORAGE THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AND EACH OUTFALL WILL BE INSPECTED (3.5.8.2.b).
- 8.1.9. THE INSPECTOR WILL OVERSEE THE REQUIREMENTS OF OTHER CONSTRUCTION-RELATED WATER QUALITY PERMITS (I.E. TDEC ARAP, USACE SECTION 404, AND TVA SECTION 26a PERMITS) FOR CONSTRUCTION ACTIVITIES AROUND WATERS OF THE STATE (10 "INSPECTOR").
- 8.1.10. THE SWPPP WILL BE REVISED AS NECESSARY BASED ON THE RESULTS OF THE INSPECTION. REVISION(S) WILL BE RECORDED WITHIN 7 DAYS OF THE INSPECTION. REVISION(S) WILL BE IMPLEMENTED WITHIN 14 DAYS OF THE INSPECTION (3.5.8.2.e AND 3.5.8.2.f).

- 8.1.11. DOCUMENTATION OF INSPECTIONS WILL BE MAINTAINED ON SITE IN THE "DOCUMENTATION AND PERMITS" BINDER. REPORTS WILL BE SUBMITTED TO THE TDOT PROJECT ENGINEER PER THE CONTRACT.
- 8.1.12. THESE INSPECTION REQUIREMENTS DO NOT APPLY TO DEFINABLE AREAS OF THE SITE THAT HAVE MET FINAL STABILIZATION REQUIREMENTS AND HAVE BEEN NOTED IN THE SWPPP.
- 8.1.13. TRAINED CERTIFIED INSPECTORS SHALL COMPLETE INSPECTION TO THE BEST OF THEIR ABILITY. FALSIFYING INSPECTION RECORDS OR OTHER DOCUMENTATION OR FAILURE TO COMPLETE INSPECTION DOCUMENTATION SHALL RESULT IN A VIOLATION OF THIS PERMIT AND ANY OTHER APPLICABLE ACTS OR RULES (3.5.8.2.h).
- 8.2. DULY AUTHORIZED REPRESENTATIVE (7.7.3)
THE PROJECT ENGINEER MAY DELEGATE AN INDIVIDUAL AND/OR CONSULTANT TO SIGN EPSC INSPECTIONS REPORTS. FOR SATISFYING SIGNATORY REQUIREMENTS FOR EPSC INSPECTION REPORTS, THE PROJECT ENGINEER AND NEWLY AUTHORIZED INDIVIDUAL ACCEPTING RESPONSIBILITY MUST COMPLETE AND SIGN THE TDOT CONSTRUCTION DIVISION EPSC DELEGATION OF AUTHORITY.
- 8.3. MAINTENANCE PRACTICES (3.5.3.1 AND 3.5.7)
 - 8.3.1. ALL CONTROLS WILL BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING ORDER AND IN ACCORDANCE WITH TDOT STANDARD DRAWINGS AND GOOD ENGINEERING PRACTICES. (3.5.3.1.b)
 - 8.3.2. MAINTENANCE AND REPAIR ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
 - 8.3.3. UPON CONCLUSION OF THE INSPECTIONS, EPSC MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE, MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICAL WITHIN THE 24-HOUR TIMEFRAME, WRITTEN DOCUMENTATION PROVIDED BY THE CONTRACTOR SHALL BE PLACED IN THE FIELD DIARY AND EPSC INSPECTION REPORT. AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION. (3.5.8.2.e).
 - 8.3.4. SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES (SEDIMENT TRAPS, SILT FENCE, SEDIMENT BASINS, OTHER CONTROLS, ETC.) WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). (3.5.3.1.e).
 - 8.3.5. DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE STEPS TO ENSURE THAT STRUCTURAL COMPONENTS OF EPSC MEASURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE EPSC MEASURES AT THE CONTRACTOR'S OWN EXPENSE.
 - 8.3.6. CHECK DAMS WILL BE INSPECTED FOR STABILITY. SEDIMENT WILL BE REMOVED WHEN DEPTH REACHES ONE-HALF (½) THE HEIGHT OF THE DAM.
 - 8.3.7. SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS, DOES NOT MIGRATE INTO FEATURES REMOVED FROM, AND DOES NOT MIGRATE ONTO ADJACENT PROPERTIES AND/OR INTO WATERS OF THE STATE/U.S.
 - 8.3.8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER WILL BE PICKED UP AND REMOVED FROM STORMWATER EXPOSURE PRIOR TO ANTICIPATED STORM EVENTS OR BEFORE BEING CARRIED OFF THE SITE BY WIND, OR OTHERWISE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORMWATER DISCHARGES. AFTER USE, MATERIALS USED FOR EROSION CONTROL WILL BE REMOVED (3.5.3.1.f).
 - 8.3.9. ALL SEEDED AREAS WILL BE CHECKED FOR BARE SPOTS, EROSION WASHOUTS, AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS.

- 9. **SITE ASSESSMENTS** (3.1.2)
QUALITY ASSURANCE SITE ASSESSMENTS OF EROSION PREVENTION AND SEDIMENT CONTROLS SHALL BE PERFORMED PER THE TDOT ENVIRONMENTAL DIVISION COMPLIANCE AND FIELD SERVICES OFFICE GUIDELINES.

- 10. **STORMWATER MANAGEMENT** (3.5.4)
 - 10.1. STORMWATER MANAGEMENT WILL BE HANDLED BY TEMPORARY CONTROLS OUTLINED IN THIS SWPPP AND ANY PERMANENT CONTROLS NEEDED TO MEET PERMANENT STORMWATER MANAGEMENT NEEDS IN THE POST CONSTRUCTION PERIOD. PERMANENT CONTROLS WILL BE DEPICTED ON THE PLANS AND NOTED AS PERMANENT.
 - 10.2. DESCRIBE ANY SPECIFIC POST-CONSTRUCTION MEASURES THAT WILL CONTROL VELOCITY, POLLUTANTS, AND/OR EROSION (3.5.4): RIPRAP
 - 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.

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.

12.3. 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.

12.5. 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.

12.4. SPILL MANAGEMENT

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

- 12.4.1. FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED. SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.
- 12.4.2. APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE AND UNDER COVER. AS APPROPRIATE, EQUIPMENT AND MATERIALS MAY INCLUDE ITEMS SUCH AS BOOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR CLEAN UP PURPOSES.
- 12.4.3. ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- 12.4.4. THE CONTRACTOR'S RESPONSIBLE PARTY WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.
- 12.4.5. IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING THE SITE AND ENTERING RECEIVING WATERS, PERSONNEL WILL

13. RECORD-KEEPING

13.1. REQUIRED RECORDS

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

- 13.1.1. THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR.
- 13.1.2. THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE.
- 13.1.3. THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.
- 13.1.4. RECORDS EPSC INSPECTION REPORTS AND CORRECTIVE MEASURES.
- 13.1.5. RECORDS OF QUALITY ASSURANCE SITE ASSESSMENTS.
- 13.1.6. COPY OF SITE EPSC INSPECTOR'S CERTIFICATION AND/OR LICENSING
- 13.1.7. COPY OF REQUIRED SOIL ANALYSIS

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

13.2. RAINFALL MONITORING PLAN (3.5.3.1.o):

13.2.1. EQUIPMENT

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

13.2.2. LOCATION

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

13.2.3. METHODS

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

13.2.4.

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

13.2.5.

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

13.2.6.

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

13.2.7.

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

13.3. KEEPING PLANS CURRENT (3.4)

13.3.1.

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

- 13.3.2. THE STAGES DEPICTED WITHIN THE EPSC PLANS MAY NOT COINCIDE WITH THE ACTUAL STAGES OF CONSTRUCTION ESTABLISHED BY THE CONTRACTOR DURING CONSTRUCTION, THUS MODIFICATIONS WILL BE REQUIRED TO ENSURE THE EPSC PLAN IS MAINTAINED TO DEPICT CURRENT SITE CONDITIONS. IT SHOULD BE MAINTAINED SUCH THAT IT WILL ALWAYS REFLECT THE MEASURES THAT ARE INSTALLED DURING THE VARIOUS STAGES OF CONSTRUCTION. IT IS IMPRACTICAL TO DETERMINE ALL THE INTERMEDIATE STAGES OF CONSTRUCTION THAT WILL OCCUR, THUS THESE DOCUMENTS MUST BE UPDATED THROUGHOUT THE LIFE OF THE CONSTRUCTION PROJECT.
- 13.3.3. THE TDOT EPSC INSPECTOR OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL MODIFY AND UPDATE THE SWPPP WHEN ANY OF THE FOLLOWING CONDITIONS APPLY:
- 13.3.3.1. WHENEVER THERE IS A CHANGE IN THE SCOPE OF THE PROJECT THAT WOULD BE EXPECTED TO HAVE A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE SWPPP;
 - 13.3.3.2. WHENEVER INSPECTIONS OR INVESTIGATIONS BY SITE OPERATORS, LOCAL, STATE, OR FEDERAL OFFICIALS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANTS FROM CONSTRUCTION ACTIVITY SOURCES, OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY; WHERE LOCAL, STATE, OR FEDERAL OFFICIALS DETERMINE THAT THE SWPPP IS INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES, A COPY OF ANY CORRESPONDENCE TO THAT EFFECT MUST BE RETAINED IN THE SWPPP;
 - 13.3.3.3. WHEN ANY NEW OPERATOR AND/OR SUB-OPERATOR IS ASSIGNED OR RELIEVED OF THEIR RESPONSIBILITY TO IMPLEMENT A PORTION OF THE SWPPP;
 - 13.3.3.4. TO PREVENT A NEGATIVE IMPACT TO LEGALLY PROTECTED STATE OR FEDERALLY LISTED OR PROPOSED THREATENED OR ENDANGERED AQUATIC FAUNA;
 - 13.3.3.5. WHEN THERE IS A CHANGE IN CHEMICAL TREATMENT METHODS INCLUDING: USE OF DIFFERENT TREATMENT CHEMICALS, DIFFERENT DOSAGE OR APPLICATION RATES OR A DIFFERENT AREA OF APPLICATION NOT SPECIFIED ON THE EPSC PLANS.
 - 13.3.3.6. ALL SWPPP REVISION(S) SHALL BE RECORDED WITHIN 7 DAYS BY THE PROJECT EPSC INSPECTOR.
 - 13.3.3.7. WHEN A TMDL IS DEVELOPED FOR THE RECEIVING WATERS FOR A POLLUTANT OF CONCERN (SILTATION AND/OR HABITAT ALTERATION), CONSTRUCTION SHALL NOTIFY THE PERMITS SECTION FOR PROPER COORDINATION.
- 13.4. MAKING PLANS ACCESSIBLE
- 13.4.1. TDOT WILL RETAIN A COPY OF THIS SWPPP (INCLUDING A COPY OF THE "DOCUMENTATION AND PERMITS" BINDER AT THE CONSTRUCTION SITE (OR OTHER LOCATION ACCESSIBLE TO TDEC AND THE PUBLIC) FROM THE DATE CONSTRUCTION COMMENCES TO THE DATE OF FINAL STABILIZATION. TDOT WILL HAVE A COPY OF THE SWPPP AVAILABLE AT THE LOCATION WHERE WORK IS OCCURRING ON-SITE FOR THE USE OF OPERATORS AND THOSE IDENTIFIED AS HAVING RESPONSIBILITIES UNDER THE SWPPP WHENEVER THEY ARE ON THE CONSTRUCTION SITE (6.2).
- 13.4.2. PRIOR TO THE INITIATION OF LAND DISTURBING ACTIVITIES AND UNTIL THE SITE HAS MET THE FINAL STABILIZATION CRITERIA, TDOT OR THEIR DULY AUTHORIZED REPRESENTATIVE WILL POST A NOTICE NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE WITH THE FOLLOWING INFORMATION (3.3.3) (6.2.1):
- 13.4.2.1. A COPY OF THE NOTICE OF COVERAGE (NOC) WITH THE NPDES PERMIT NUMBER FOR THE PROJECT;
 - 13.4.2.2. THE INDIVIDUAL NAME, COMPANY NAME, E-MAIL ADDRESS (IF APPLICABLE) AND TELEPHONE NUMBER OF THE LOCAL PROJECT SITE OWNER AND OPERATOR CONTACT;
 - 13.4.2.3. A BRIEF DESCRIPTION OF THE PROJECT; AND
 - 13.4.2.4. THE LOCATION OF THE SWPPP.

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

14. SITE WIDE/PRIMARY PERMITTEE CERTIFICATION (7.7.5)

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED BY ME, OR UNDER MY DIRECTION OR SUPERVISION. THE SUBMITTED INFORMATION IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

Michael D. White

 AUTHORIZED TDOT PERSONNEL SIGNATURE (3.3.1)

Michael D. White

 PRINTED NAME

Transportation Project Specialist Supervisor 2

 TITLE

10/23/2018

 DATE

15. SECONDARY PERMITTEE (OPERATOR) CERTIFICATION (7.7.6)

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE REVIEWED THIS DOCUMENT, ANY ATTACHMENTS, AND THE SWPPP REFERENCED ABOVE. BASED ON MY INQUIRY OF THE CONSTRUCTION SITE OWNER/DEVELOPER IDENTIFIED ABOVE AND/OR MY INQUIRY OF THE PERSON DIRECTLY RESPONSIBLE FOR ASSEMBLING THIS NOI AND SWPPP, I BELIEVE THE INFORMATION SUBMITTED IS ACCURATE. I AM AWARE THAT THIS NOI, IF APPROVED, MAKES THE ABOVE-DESCRIBED CONSTRUCTION ACTIVITY SUBJECT TO NPDES PERMIT NUMBER TNR100000, AND THAT CERTAIN OF MY ACTIVITIES ONSITE ARE THEREBY REGULATED. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS, AND FOR FAILURE TO COMPLY WITH THESE PERMIT REQUIREMENTS. AS SPECIFIED IN TENNESSEE CODE ANNOTATED SECTION 39-16-702(a)(4), THIS DECLARATION IS MADE UNDER PENALTY OF PERJURY.

 AUTHORIZED OPERATOR (CONTRACTOR) 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.

17. **OUTFALL TABLE (3.5.1.d, 5.4.1.g)**

EPSC STAGE	OUTFALL LABEL	SUB OUT-FALL	STATION CL, LT OR RT	STAGE 1 SLOPE WITHIN ROW (%)	STAGE 2 SLOPE WITHIN ROW (%)	STAGE 3 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, 3	1		821+70 CL	0.6%	1.6%	1.6%	0.44	0.12	0.12	N/A	WTL-3	
1, 2, 3	2		824+90 LT	1.0%	1.5%	1.5%	0.14	0.85	0.85	N/A	WTL-5	
1	3		32+45 RT S.R. 96	1.4%			1.21			N/A	EPH-4 / WWC-4	
1, 2, 3	4		38+60 RT S.R. 96	1.9%	2.9%	2.9%	2.35	0.14	0.14	N/A	EPH-4 / WWC-4 & STR-5	
1, 2, 3	5A		24+10 LT S.R. 96	1.3%	1.3%	1.3%	1.35	1.35	1.35	N/A	STR-4	
1, 2, 3	5B		24+40 LT S.R. 96	1.2%	1.2%	1.2%	0.13	0.13	0.13	N/A	STR-4	
1, 2	5C		24+10 RT S.R. 96	2.2%	2.2%		0.2	0.2		N/A	STR-4	
1, 2, 3	5D		29+50 RT S.R. 96	0.9%			2.9			N/A	STR-5	
1, 2, 3	6		837+30 LT	1.7%	1.7%	1.7%	46.35	46.35	46.35	NO	EPH-13/WWC-13	STAGE 1: TEMPORARY DIVERSION STAGES 2 & 3: CLEAN RUN-ON THROUGH PROJECT
2, 3		6A	837+50 RT		4.0%	4.0%		1.4	1.4	N/A	EPH-13/WWC-13	
2, 3	7		844+40 LT		2.3%	2.3%		0.47	0.47	N/A	EPH-17	
1, 2, 3	8		848+00 LT	2.3%	2.3%	2.3%	4.5	16.05	16.05	NO	EPH-17	STAGES 2 & 3: CLEAN RUN-ON THROUGH PROJECT
2, 3		8A	848+30 RT		1.9%	1.9%		0.68	0.68	N/A	EPH-17	
2, 3		8B	848+00 RT		2.6%	2.6%		0.16	0.16	N/A	EPH-17	
1, 2, 3	9		861+20 LT	1.3%	1.3%	1.3%	76.81	76.81	76.81	NO	EPH-18/WWC-18	CLEAN RUN-ON THROUGH PROJECT
2, 3		9A	861+20 RT		2.0%	2.0%		0.8	0.8	N/A	EPH-18/WWC-18	
2, 3		9B	862+10 RT		1.5%	1.5%		0.7	0.7	N/A	EPH-18/WWC-18	
2, 3		9C	861+50 LT		0.6%	0.6%		2.63	2.63	N/A	EPH-18/WWC-18	
1, 2, 3	10		892+00 LT	2.2%	2.2%	2.2%	41.73	41.73	41.73	NO	STR-10	CLEAN RUN-ON THROUGH PROJECT
1		10A	891+50 LT	2.5%			3.4			N/A	STR-10	
1		10B	892+50 LT	3.5%			1.6			N/A	STR-10	
2, 3		10C	892+00 CL		1.5%	1.5%		0.80	0.80	N/A	STR-10	
2, 3		10D	891+50 RT		1.9%	1.9%		1.10	1.10	N/A	STR-10	
2, 3		10E	892+50 RT		1.2%	1.2%		0.30	0.30	N/A	STR-10	
1, 2, 3	12		55+30 RT DEL RIO PIKE N	0.5%	0.5%	0.5%	117.5	117.5	117.5	NO	EPH-19/WWC-19	CLEAN RUN-ON THROUGH PROJECT
1, 2, 3		11A	55+30 LT DEL RIO PIKE N	2.0%	2.2%	2.2%	0.65	0.37	0.37	N/A	EPH-19/WWC-19	
2, 3		11B	55+40 LT		1.5%	1.5%		0.59	0.59	N/A	EPH-19/WWC-19	
1, 2, 3		12A	55+40 RT DEL RIO PIKE N	2.4%	2.4%	2.4%	0.34	0.34	0.34	N/A	EPH-19/WWC-19	
1, 2, 3		12B	55+30 RT DEL RIO PIKE N	2.1%	2.1%	2.1%	0.52	0.52	0.52	N/A	EPH-19/WWC-19	
1, 2, 3	13		904+00 LT	3.5%	2.8%	2.8%	3.9	9.1	9.1	NO	EPH-19/WWC-19	REFER TO SUBOUTFALLS 13A-13C.
1, 2, 3		13A	904+50 RT	3.5%	3.5%	3.5%	1.1	0.3	0.3	N/A	STR-5	
1, 2, 3		13B	904+50 CL	3.0%	1.0%	1.0%	0.75	0.4	0.4	N/A	STR-5	
2, 3		13C	904+20 RT		0.7%	0.7%		4.10	4.10	N/A	STR-5	
1, 2, 3	14		912+50 LT	2.7%	2.7%	2.7%	59.25	59.25	59.25	NO	EPH-20/WWC-20	STAGE 1: REFER TO SUBOUTFALLS 14A-14B. STAGES 2 & 3: CLEAN RUN-ON THROUGH PROJECT
1		14A	911+90 LT	2.7%			1.80			NO	EPH-20/WWC-20	
1		14B	912+50 LT	2.7%			1.40			NO	EPH-20/WWC-20	
2, 3		14C	910+10 RT		3.5%	3.5%		1.14	1.14	N/A	EPH-20/WWC-20	
2, 3		14D	910+60 RT		7.3%	7.3%		3.81	3.81	N/A	EPH-20/WWC-20	

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

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	
CONST.	2018	STP/HPP-397(10)	S-9

1, 2, 3	15		915+00 LT	5.0%	5.0%	5.0%	1.37	1.37	1.37	N/A	STR-5	
1, 2, 3	16A		927+30 RT	3.2%	3.2%	3.2%	0.44	0.44	0.44	N/A	STR-10	
1, 2	16B		928+00 RT	2.8%	2.8%		0.5	0.5		N/A	STR-10	
1, 2, 3	16C		927+30 LT	2.8%	2.8%	2.8%	0.34	0.34	0.34	N/A	STR-10	
1, 2, 3	16D		929+50 RT	1.2%	1.2%	1.2%	0.80	0.80	0.80	N/A	STR-10	
1, 2	16E		929+50 CL	3.0%	3.0%		1.00	1.00		N/A	STR-10	
1, 2, 3	16F		932+20 LT	2.1%	2.1%	2.1%	1.40	1.40	1.40	N/A	STR-10	
1, 2, 3	17		947+00 RT	3.1%	3.1%	3.1%	0.9	0.9	0.9	N/A	STR-10	
1, 2, 3	18		951+70 RT	4.0%	2.4%	2.4%	0.9	0.9	0.9	N/A	STR-10	
1, 2, 3	19		952+30 LT	3.9%	3.0%	3.0%	0.6	0.6	0.6	N/A	STR-10	
2, 3	20		965+20 RT		1.1%	1.1%		2.9	2.9	N/A	STR-10	
2, 3	21A		75+50 RT S.R. 106		0.5%	0.5%		0.53	0.53	N/A	STR-10	
2, 3	21B		75+10 RT S.R. 106		0.5%	0.5%		0.1	0.1	N/A	STR-10	
2, 3	21C		74+50 RT S.R. 106		0.5%	0.5%		0.09	0.09	N/A	STR-10	
2, 3	21D		73+50 RT S.R. 106		0.5%	0.5%		0.16	0.16	N/A	STR-10	
2, 3	21E		71+50 RT S.R. 106		0.5%	0.5%		0.11	0.11	N/A	STR-10	
2, 3	21F		71+50 LT S.R. 106		0.5%	0.5%		0.03	0.03	N/A	STR-10	
2, 3	21G		72+10 LT S.R. 106		0.5%	0.5%		0.04	0.04	N/A	STR-10	
2, 3	21H		73+75 LT S.R. 106		0.5%	0.5%		0.12	0.12	N/A	STR-10	
2, 3	21I		75+10 LT S.R. 106		0.5%	0.5%		0.22	0.22	N/A	STR-10	
2, 3	21J		76+10 LT S.R. 106		0.5%	0.5%		0.23	0.23	N/A	STR-10	
2, 3	21K		83+40 LT S.R. 106		0.6%	0.6%		0.16	0.16	N/A	STR-10	
2, 3	21L		82+50 LT S.R. 106		0.6%	0.6%		0.1	0.1	N/A	STR-10	
2, 3	21M		81+60 LT S.R. 106		0.5%	0.5%		0.07	0.07	N/A	STR-10	
2, 3	21N		81+00 LT S.R. 106		0.4%	0.4%		0.2	0.2	N/A	STR-10	
1, 2, 3	22		87+50 LT S.R. 106	2.5%	2.5%	2.5%	0.19	0.1	0.1	N/A	STR-10	
2, 3	22A		86+00 LT S.R. 106		0.6%	0.6%		0.32	0.32	N/A	STR-10	
2, 3	22B		84+50 LT S.R. 106		0.5%	0.5%		0.17	0.17	N/A	STR-10	
2, 3	22C		84+00 LT S.R. 106		0.5%	0.5%		0.18	0.18	N/A	STR-10	

ALL UNUSED FIELDS WITHIN THE OUTFALL TABLE ARE TO BE SHADED, HATCHED, OR REMOVED TO INDICATE THEIR NON-USAGE. SOME ROWS WERE LEFT FOR ADDITIONAL OUTFALLS IF NEEDED.

SEE SHEET NO. 1A FOR INDEX

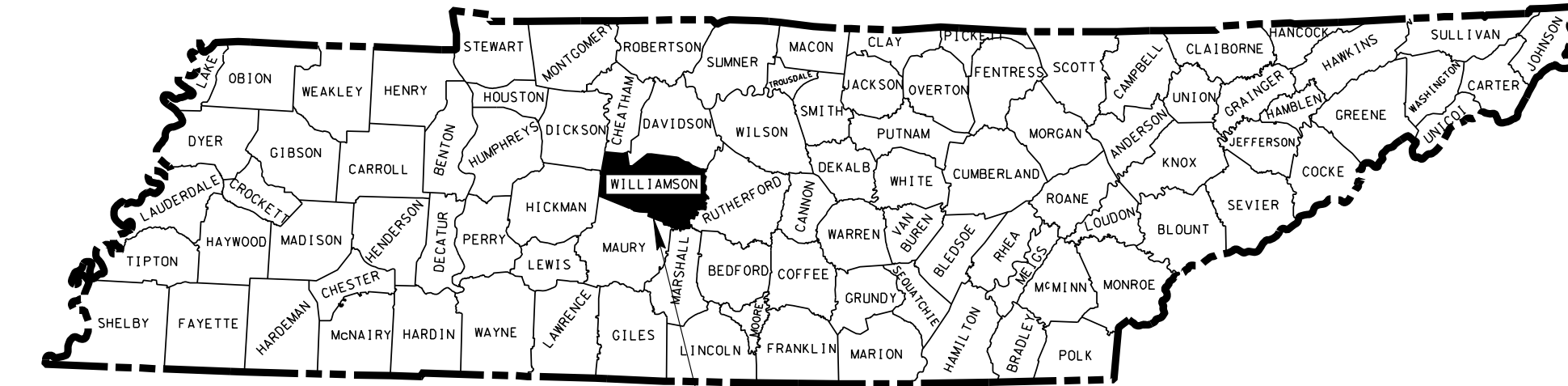
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF ENGINEERING

WILLIAMSON COUNTY
S.R. 397 (MACK HATCHER PARKWAY)
FROM SOUTH OF S.R. 96 WEST OF FRANKLIN TO EAST OF S.R. 106 (US 431)
NORTH OF FRANKLIN (IA)
CONSTRUCTION

GRADE, DRAIN, BASE, PAVE, GUARDRAIL, BRIDGE, SIGN, STRIPE,
SIGNALIZATION, LIGHTING, AND LANDSCAPING

TENN.	YEAR 2018	SHEET NO. 1
FED. AID PROJ. NO.	R-STP/HPP-NH-397(10)	
STATE PROJ. NO.	94092-3231-14	

REV. 6-14-18: UPDATED FEDERAL AND STATE PROJECT NUMBERS (APPLICABLE TO ALL SHEETS).
UPDATED PROJECT DESCRIPTION THIS SHEET.

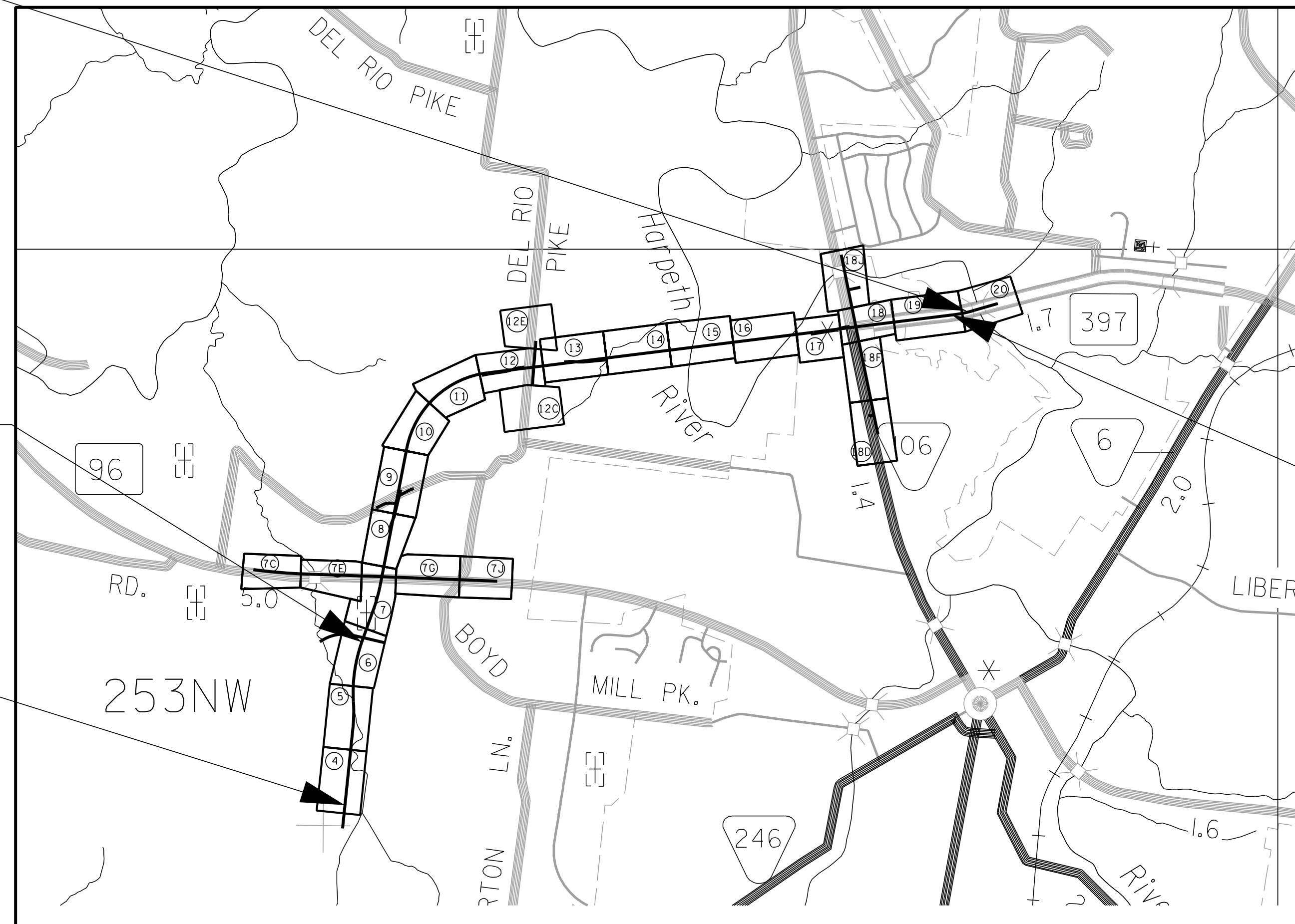


PROJECT LOCATION
WILLIAMSON COUNTY

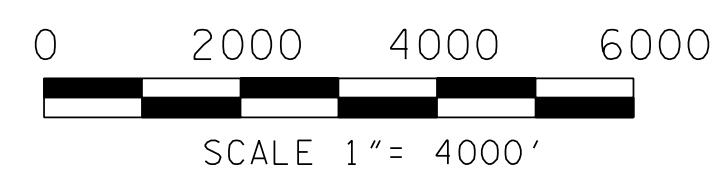
END PROJECT R-STP/HPP-NH-397(10) (CONST.)
STA. 987+32.51 @ S.R. 397
(MACK HATCHER PKWY.)
N 588,181.71
E 1,710,498.03

BEGIN PROJECT R-STP/HPP-NH-397(10) (CONST.)
STA. 821+22.00 @ S.R. 397
(MACK HATCHER PKWY.)
N 581,397.35
E 1,697,867.77

BEGIN PROJECT STP/HPP-397(10) (R.O.W.)
STA. 787+48.05 @ S.R. 397
(MACK HATCHER PKWY.)
N 578,054.76
E 1,697,515.23



STATE HIGHWAY NO. - 397 F.A.H.S. NO. - NONE



NO EXCLUSIONS
NO EQUATIONS

END PROJECT STP/HPP-397(10) (R.O.W.)
STA. 978+99.38 @ S.R. 397
(MACK HATCHER PKWY.)
N 588,026.38
E 1,709,782.96

UNOFFICIAL
SET
NOT FOR
BIDDING

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

DATE: _____

APPROVED: John Schroer
JOHN SCHROER, COMMISSIONER

SPECIAL NOTES

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

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

TDOT DESIGN MANAGER JERRY G. HUGHES, SR.
TENNESSEE DEPARTMENT OF TRANSPORTATION

CITY OF FRANKLIN ENGINEERING DEPT. PAUL HOLZEN, P.E.
DIRECTOR OF ENGINEERING

DESIGNER ROBERT D. HALL
CDM Smith

CHECKED BY R. JEFF MIZE, P.E.
CDM Smith

P.E. NO. 94092-1224-14

PIN NO. 101454.01

ROADWAY LENGTH 2.620 MILES
BRIDGE LENGTH 0.526 MILES
BOX BRIDGE LENGTH 0.000 MILES
PROJECT LENGTH 3.146 MILES

TRAFFIC DATA	
ADT (2018)	14,940
ADT (2038)	29,890
DHV (2038)	3,330
D	55 - 45
T (ADT)	4 %
T (DHV)	3 %
V	45 MPH

SURVEY DATE: SEPTEMBER 23, 2014

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR DATE

Index of Sheets

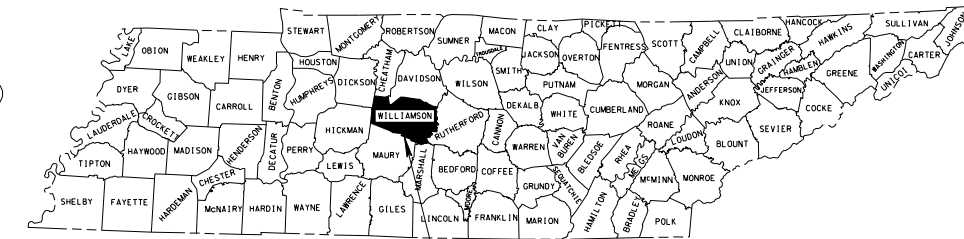
DESCRIPTION	SHEET NO.
TITLE SHEET	..... 1
TYPICAL SECTIONS	..... 2-2B,2B1,2C,2C1,2D-2G
PROPERTY MAPS	..... 3-3K
ACQUISITION TABLES	..... 3L & 3M
PRESENT LAYOUT SHEETS	..... 4-7,7C,7E,7G,7I,8-12,12C, 12E, 13-18,18D,18F,18I,19 & 20
R.O.W. DETAIL SHEETS	..... 17C,18C & 18G
PROPOSED LAYOUT SHEETS	..... 4A-7A,7D,7F,7H,7J,8A-12A,12D,12F, 13A-18A,18E,18H,18J,19A & 20A
MAINLINE PROFILES	..... 4B-19B
SIDEROAD PROFILES	..... 21-25, 25A, 26-29
DRIVEWAY PROFILES	..... 41-43
GREENWAY SHEETS	..... 44A-44F
DRAINAGE MAPS	..... 45,45A-45C
CULVERT SECTIONS	..... 46,46A-46L
EROSION CONTROL SHEETS	..... 48-55, 55-1, 56-70, 49A-55A, 55-1A, 56A-70A
EXISTING CONTOURS SHEETS	..... 72-80, 80A, 81-94
PROPOSED CONTOURS SHEETS	..... 97-105, 105A, 106-112, 114-119
ROADWAY CROSS SECTIONS	..... X1-X74
SIDEROAD CROSS SECTIONS	..... X75-X105
SHEETS NOT USED	..... 30-40, 44, 47, 71, 95, 96, 113

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

WILLIAMSON COUNTY S.R. 397 (MACK HATCHER PARKWAY) FROM 4743'± SOUTH OF S.R. 96 TO 2614'± EAST OF S.R. 106 (HILLSBORO ROAD) RIGHT-OF-WAY

TENN.	YEAR	SHEET NO.
	2009	1
FED. AID PROJ. NO.	STP-397 (8)	
STATE PROJ. NO.	94092-2226-14	

NOTE: FED. AID PROJ. NO. APPLIES TO ALL RIGHT-OF-WAY SHEETS.
REV. 2/10/2010: ADDED LANDSCAPE PLANS TO INDEX, ADDED INCIDENTALS NOTE, AND UPDATED FED. AID PROJ. NO.
REV. 1/26/2015: UPDATED INDEX, TRAFFIC DATA.
REV. 2/11/2015: UPDATED INDEX

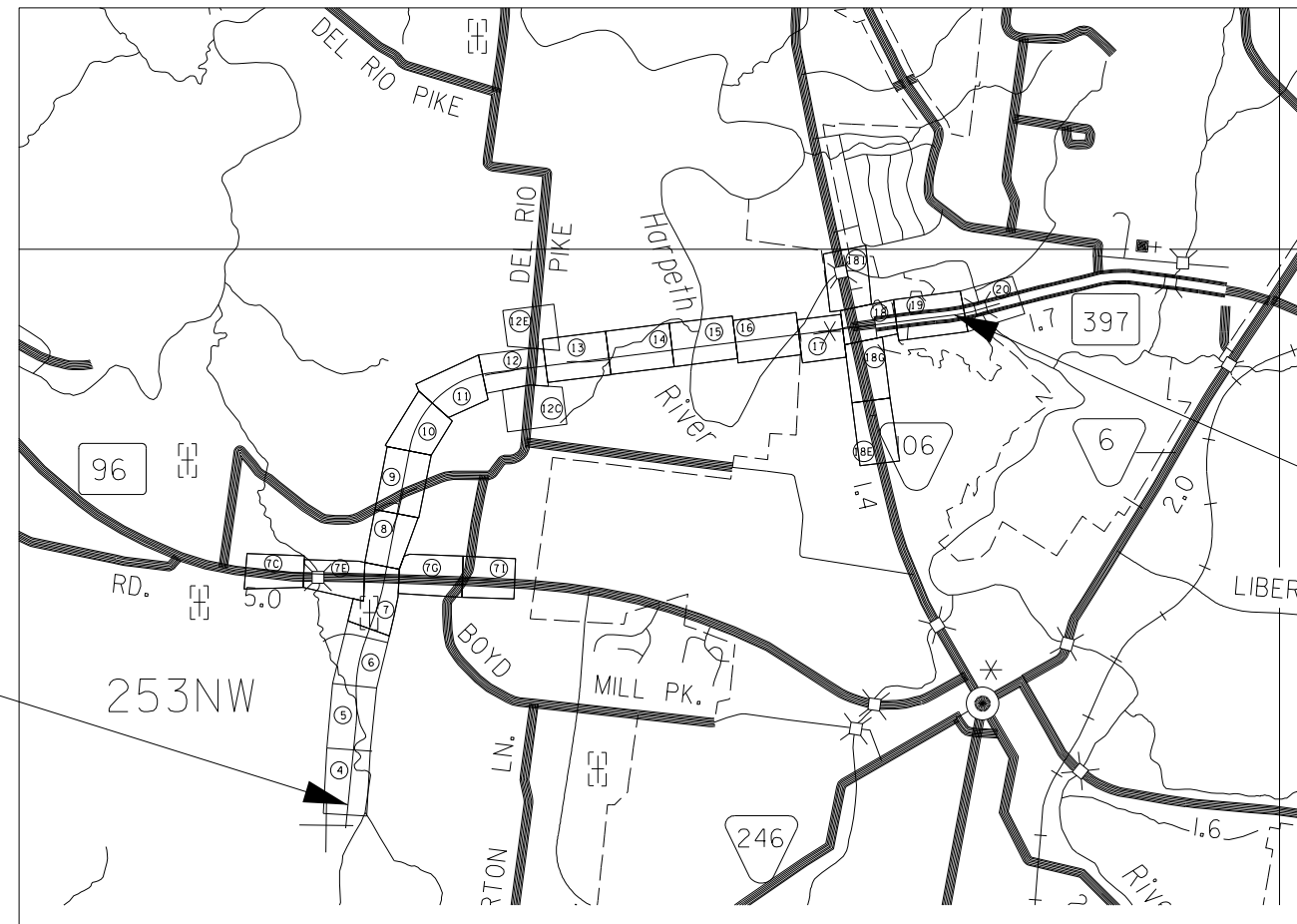


PROJECT LOCATION
WILLIAMSON COUNTY

NO EXCLUSIONS
NO EQUATIONS

R.O.W. PLANS

NOTE: RIGHT-OF-WAY INCIDENTALS AND APPRAISALS TO BE PERFORMED BY LOCAL GOVERNMENT.



END PROJECT STP-397(8) (R.O.W.)
STA. 978+99.38 @ S.R. 397
(MACK HATCHER PKWY.)
N 588,026.38
E 1,709,782.96

BEGIN PROJECT STP-397(8) (R.O.W.)
STA. 787+48.05 @ S.R. 397
(MACK HATCHER PKWY.)
N 578,054.76
E 1,697,515.23

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

TDOT DESIGN MANAGER JERRY G. HUGHES, SR.
TENNESSEE DEPARTMENT OF TRANSPORTATION

CITY OF FRANKLIN ENGINEERING DEPT. PAUL HOLZEN, P.E.
DIRECTOR OF ENGINEERING

DESIGNER R. JEFF MIZE, P.E.
CDM Smith

CHECKED BY PATRICK MURRAY, P.E.
CDM Smith

P.E. NO. 94092-1224-14

PIN NO. 101454.01

ROADWAY LENGTH 3.627 MILES
BRIDGE LENGTH 0.526 MILES
BOX BRIDGE LENGTH 0.000 MILES
PROJECT LENGTH 3.627 MILES



TRAFFIC DATA	
ADT (2015)	20,323
ADT (2035)	31,740
DHV (2035)	3,491
D	65 - 35
T (ADT)	4 %
T (DHV)	3 %
V	45 MPH

SURVEY DATE: SEPTEMBER 23, 2014



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

DATE: _____

APPROVED: John Schroer
JOHN SCHROER, COMMISSIONER

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED: _____
DIVISION ADMINISTRATOR DATE

ROADWAY INDEX

STANDARD ROADWAY DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	1-A

94092-3231-14

REV. 6-14-18: ADDED SHEETS 1E1, 52V, 52W, 53U AND 53V TO INDEX.

SHEET NAME	SHEET NO.
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
STANDARD ROADWAY DRAWINGS	1B-1C
STANDARD TRAFFIC OPERATIONS & STRUCTURE DRAWINGS	1D
PROJECT COMMITMENTS	1E & 1E1
ESTIMATED BRIDGE QUANTITIES AND BRIDGE INDEX	2
ESTIMATED ROADWAY QUANTITIES	2A – 2A1
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B – 2B10
GENERAL NOTES	2C – 2C2
SPECIAL NOTES	2D
TABULATED QUANTITIES	2E – 2E8
DETAIL SHEETS	2F – 2F2
RIGHT-OF-WAY NOTES, UTILITY NOTES and UTILITY OWNERS	3
PROPERTY MAP(S) AND RIGHT-OF-WAY ACQUISITION TABLE(S)	3A – 3S
PRESENT LAYOUT(S)	4-7,7C,7E,7G 7J,8-12,12C,12E, 13-16,16C,16D, 17-18,18D,18F, 18J,19-20
PROPOSED LAYOUT(S)	4A-7A,7D,7F,7H, 7K,8A-12A,12D, 12F, 13A-18A,18E, 18H, 18K,19A-20A
PROPOSED PROFILE(S)	4B-19B
RIGHT OF WAY DETAILS	17C,18C & 18G
SIDE ROADS PROFILE(S)	21 - 32
PRIVATE DRIVE, BUSINESS, AND FIELD ENTRANCE PROFILE(S)	33 - 34
MULTI-USE PATH PLAN & PROFILE	35 - 35E
DRAINAGE MAP(S)	36 - 39
CULVERT SECTION(S)	40 - 49
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) NOTES	50
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) LEGEND & TABULATION	50A
EROSION PREVENTION & SEDIMENT CONTROL (EPSC) PLANS	51 - 51W 52 – 52W 53 – 53V
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL	54
TRAFFIC CONTROL PHASING NOTES, LEGEND & TABULATION	54A
TRAFFIC CONTROL DETAILS	54B
TRAFFIC CONTROL PLANS	55 - 57H
SIGNING AND PAVEMENT MARKING PLAN(S)	58 - 68
PROPOSED SIGNAL LAYOUT(S)	69 - 72
TRAFFIC SIGNAL DETAILS	69A - 72A
PROPOSED LIGHTING LAYOUT(S)	73 – 73D
LIGHTING DETAILS	74 – 74D

SHEET NAME	SHEET NO.
SOILS SHEET(S)	G-1 – G-78
ROADWAY CROSS SECTIONS	75-147
SIDE ROAD CROSS SECTIONS	148-176
STORM WATER POLLUTION PREVENTION PLAN (SWPPP) INDEX ...	S-1
UTILITIES INDEX	U2-1 – U5-10
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED IN NUMBERING OF SHEETS.	

DWG. REV. DESCRIPTION

ROADWAY DESIGN STANDARDS

RD-A-1	12-18-99	STANDARD ABBREVIATIONS
RD-L-1	10-26-94	STANDARD LEGEND
RD-L-2	09-05-01	STANDARD LEGEND FOR UTILITY INSTALLATIONS
RD-L-3	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-4	03-16-17	STANDARD LEGEND FOR SIGNALIZATION AND LIGHTING
RD-L-5	05-01-08	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	03-30-10	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	05-24-12	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-8		STANDARD LEGEND FOR NATURAL STREAM DESIGN
RD01-TS-1	02-05-16	DESIGN STANDARDS FOR LOCAL ROADS AND STREETS
RD01-TS-1A	02-05-16	DESIGN STANDARDS FOR LOW-VOLUME LOCAL ROADS (ADT<=400)
RD01-TS-3	10-15-02	DESIGN STANDARD FOR 2-LANE ARTERIAL HIGHWAYS
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-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-TS-7	10-15-02	DESIGN STANDARDS 2-LANE HIGHWAY WITH CONTINUOUS 2-WAY LEFT-TURN LANE
RD01-TS-7A	10-15-02	DESIGN STANDARDS 2-LANE CURB AND GUTTER WITH CONTINUOUS 2-WAY LEFT-TURN LANE
RD01-TS-8	03-16-17	SHARED USE PATH TYPICAL SECTIONS
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

DWG.	REV.	DESCRIPTION
RD01-S-11A	10-15-02	ROADSIDE DITCH DETAILS FOR DESIGN AND CONSTRUCTION
RD01-SD-1		INTERSECTION SIGHT DISTANCE DESIGN AND GENERAL NOTES
RD01-SD-2		INTERSECTION SIGHT DISTANCE LANDSCAPE AND OBSTRUCTION
RD01-SD-3		INTERSECTION SIGHT DISTANCE 2-LANE ROADWAYS
RD01-SD-4		INTERSECTION SIGHT DISTANCE 5-LANE AND 4-LANE UNDIVIDED ROADWAYS
RD01-SD-5		INTERSECTION SIGHT DISTANCE 4-LANE DIVIDED HIGHWAYS
RD-UD-3	09-05-96	UNDERDRAIN DETAILS
RD-UD-4	01-25-16	UNDERDRAIN LATERAL DETAILS
RD-UD-6	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 1:1 & 2:1 SLOPES
RD-UD-7	12-18-94	LATERAL UNDERDRAIN ENDWALL DETAIL FOR 3:1 & 4:1 SLOPES
RD-UD-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

D-FLU-1		FLUME DETAILS
D-PB-1	03-16-17	STANDARD DETAILS FOR CONCRETE PIPE INSTALLATION
D-PB-2	01-29-14	STANDARD DETAILS FOR FLEXIBLE PIPE INSTALLATION
D-PB-3		INDUCED TRENCH SOIL EMBANKMENT FOR PIPE CULVERT INSTALLATION
D-PG-3	04-15-97	FERROUS AND ALUMINUM CORRUGATED METAL PIPE
D-PG-4	07-29-94	FERROUS AND ALUMINUM CORR. METAL PIPE-ARCHES
D-PO-1	05-27-01	STANDARD OVAL & FLAT BASE CONCRETE CULVERT PIPE
D-PS-1	03-15-76	STRUTTING DETAILS FOR CORR. METAL & STRUCTURAL PLATE ROUND PIPE
D-PE-18A	01-06-15	18" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-24A	07-05-17	24" CONCRETE ENDWALL CROSS DRAIN (FOR 3:1, 4:1 & 6:1 SLOPES)
D-PE-30A	10-10-16	30" CONCRETE ENDWALL CROSS DRAIN WITH STEEL PIPE GRATE (FOR 3:1, 4:1 & 6:1 SLOPES)
D-SEW-1A	03-16-17	SIDE DRAIN CONCRETE ENDWALL WITH STEEL PIPE GRATE FOR 15" AND 18" PIPES - 6:1 SLOPE
D-SEW-12D	06-14-13	CONCRETE ENDWALL TYPE "SD" WITH STEEL PIPE GRATE FOR 15" AND 18" PIPES 12:1 SLOPE
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

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

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**INDEX AND
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S.R. 397
(MACK HATCHER PARKWAY)

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	1-B

94092-3231-14

DWG.	REV.	DESCRIPTION
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-25LP	08-01-12	LOW PROFILE 32" X 32" SQUARE CONCRETE NO. 25LP CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25P	03-11-14	STANDARD PRECAST RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25RA	01-27-16	STANDARD PRECAST 48" CIRCULAR NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25RB	01-27-16	STANDARD PRECAST CIRCULAR NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25S	03-11-14	STANDARD RECTANGULAR CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SC	03-11-14	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-25SE	03-11-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 25 CATCH BASIN (FOR USE WITH 6" MOUNTABLE CURB)
D-CB-42RB	03-11-14	STANDARD PRECAST CIRCULAR NO. 42 CATCH BASIN
D-CB-42S	08-01-12	STANDARD 32" X 32" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SB	03-11-14	STANDARD 4' X 4' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SC	03-11-14	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-42SD	03-11-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 42 CATCH BASIN
D-CB-43R	03-11-14	STANDARD PRECAST CIRCULAR NO. 43R CATCH BASIN
D-CB-43SB	03-11-14	STANDARD 8' X 4' RECTANGULAR CONCRETE NO. 43SB CATCH BASIN
D-CB-43SC	03-11-14	STANDARD 8' X 5' 2" RECTANGULAR CONCRETE NO. 43SC CATCH BASIN

DWG.	REV.	DESCRIPTION
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-12B	05-27-01	TYPE 'B' CAST IRON FRAME, GRATE & 6" MOUNTABLE INLET DETAILS FOR NOS. 25, 26 & 27 TYPE CATCH BASINS
D-CBB-13	05-27-01	TYPE 'B' CAST IRON FRAME, GRATE & NONMOUNTABLE INLET DETAILS FOR NO. 13 TYPE CATCH BASINS
D-CBB-42	05-27-01	CAST IRON GRATE DETAILS FOR NOS. 42, 43 & 44 TYPE CATCH BASINS
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	08-01-12	STANDARD NO. 3 MANHOLE CASTINGS AND STEPS
D-MH-5	04-01-14	STANDARD 5' 2" X 5' 2" SQUARE CONCRETE NO. 3 MANHOLE
D-MH-6	04-01-14	STANDARD 7' X 7' SQUARE CONCRETE NO. 3 MANHOLE
D-MH-7	04-01-14	STANDARD 9' X 9' SQUARE CONCRETE NO. 3 MANHOLE
D-RF-1	02-02-16	STANDARD PRECAST RISER
RP-D-15	04-08-16	DETAILS OF STANDARD CONCRETE DRIVEWAYS
RP-D-16	04-08-16	DETAILS OF LOWERED STANDARD CONCRETE DRIVEWAYS
RP-DHO-1	10-26-93	MEDIAN OPENINGS ON 4-LANE DIVIDED HIGHWAY
RP-I-5	12-18-96	EXAMPLES OF STREET & ALLEY INTERSECTIONS
RP-R-1	05-27-01	STANDARD RAMPS TO SIDE ROADS
RP-PMR-1	05-27-01	STANDARD DETAILS FOR PROPOSED PERMANENT MAINTENANCE RAMP
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-NMC-11	02-28-02	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-8	10-10-16	PERPENDICULAR CURB RAMP PLACED OUTSIDE CURVE
RP-H-9	10-10-16	PARALLEL CURB RAMP IN CURVE
RP-S-7	07-05-17	DETAILS FOR CONCRETE SIDEWALKS
RP-S-8	02-05-16	DETAILS FOR STANDARD CONCRETE STEPS AND PIPE HANDRAILS
RP-S-9		ALTERNATE DETAILS FOR PEDESTRIAN FACILITIES
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

ROADWAY AND PAVEMENT APPURTENANCES

DWG.	REV.	DESCRIPTION
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-2	10-10-16	SAFETY PLAN AT SIDEROADS OR PRIVATE DRIVES
S-PL-6	10-10-16	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
S-PL-6A	07-05-17	SAFETY PLAN SAFETY HARDWARE PLACEMENT IN MEDIAN
S-GR31-1	03-28-17	W-BEAM GUARDRAIL
S-GR31-1A		W-BEAM BARRIER FASTENING HARDWARE
S-GRS-1	03-28-17	SPECIAL CASE LONG SPAN GUARDRAIL ONE POST OMITTED
S-GRS-2	07-05-17	SPECIAL CASE: GUARDRAIL ATTACHMENT TO CONCRETE DECKS
S-GRS-3	03-28-17	SPECIAL CASE: GUARDRAIL FOOTING
S-GRC-1	10-10-16	GUARDRAIL CONNECTION TO BRIDGE ENDS OR BARRIER WALL
S-GRT-1	03-16-17	TYPE 12 GUARDRAIL TERMINAL BURIED-IN-BACKSLOPE
S-GRT-2	03-28-17	TYPE 38 GUARDRAIL TERMINAL
S-GRT-2P	07-05-17	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
S-GRT-2R	07-05-17	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL (RETROFIT)
S-GRT-3	03-28-17	TYPE 21 GUARDRAIL END TERMINAL
S-GRA-1	10-10-16	TYPE 12 GUARDRAIL ANCHOR
S-GRA-1A		GUARDRAIL ANCHOR FOR TYPE 12 TERMINAL (ALTERNATIVE)
S-GRA-3	07-05-17	TYPE 13 GUARDRAIL ANCHOR
S-GRA-4	07-05-17	IN-LINE GUARDRAIL ANCHOR
S-GRA-5	03-28-17	FLARED GUARDRAIL ANCHOR
S-SSMB-1	08-19-13	32" 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-BPR-1	07-05-17	BIKE/PEDESTRIAN SAFETY RAIL
S-F-1	05-24-12	HIGH VISIBILITY FENCE
S-F-10	11-15-17	STANDARD RIGHT-OF-WAY STOCK FENCE
S-F-10A	11-15-17	STANDARD RIGHT-OF-WAY STOCK FENCE WITH TIMBER POSTS
S-F-10B	11-15-17	STANDARD RIGHT-OF-WAY CHAIN LINK FENCE
S-F-10C	11-15-17	RIGHT-OF-WAY FENCE AT BRIDGES AND BOX CULVERTS
S-FG-11	11-15-17	STANDARD STOCK FENCE GATE
S-FG-20	11-15-17	EXAMPLES OF WATER GATES AND WATER CROSSINGS
S-RP-2	02-08-16	STANDARD CONCRETE RIGHT-OF-WAY MARKERS

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**STANDARD
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(CONT.)**
S.R. 397
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	1-C

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DWG.	REV.	DESCRIPTION
DESIGN - TRAFFIC CONTROL		
T-M-1	07-05-17	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	07-05-17	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	07-24-14	MARKING STANDARDS FOR TRAFFIC ISLANDS, MEDIANS & PAVED SHOULDERS ON CONVENTIONAL ROADS
T-M-4	10-10-16	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-10	06-15-12	SIGNING AND PAVEMENT MARKINGS FOR SHARED-USE PATHS
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-M-15A	01-30-15	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-M-16	01-30-15	ASPHALT SHOULDER RUMBLE STRIPE INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED ROUTES
T-FAB-1	05-27-97	FLASHING YELLOW ARROW BOARD
T-PBR-1	03-16-17	INTERCONNECTED PORTABLE BARRIER RAIL
T-PBR-2	03-16-17	DETAIL FOR 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-16	03-15-17	LANE SHIFT ON DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-18	03-05-17	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
T-WZ-19	03-05-17	MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS
T-WZ-20	12-18-99	GEOMETRIC MEDIAN CROSS-OVER DETAIL ON DIVIDED HIGHWAYS
T-WZ-21	03-05-17	LANE CLOSURE WITH LEFT HAND MERGE AND LANE SHIFT
T-WZ-30	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (40 MPH OR LESS)
T-WZ-31	09-01-05	TRAFFIC CONTROL 2-LANE, 2-WAY DIVERSION (GREATER THAN 40 MPH)
T-WZ-36	03-05-17	LANE CLOSURE ON LOW-VOLUME 2-LANE HIGHWAY
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

DWG.	REV.	DESCRIPTION
DWG.	REV.	DESCRIPTION

DWG.	REV.	DESCRIPTION
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-8	06-10-14	FILTER SOCK
EC-STR-27	08-01-12	TEMPORARY SLOPE DRAIN AND BERM
EC-STR-34	08-01-12	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
EC-STR-37	06-10-14	SEDIMENT TUBE
EC-STR-6	05-06-16	ROCK CHECK DAM
EC-STR-6A	05-06-16	ENHANCED ROCK CHECK DAM
EC-STR-7	08-01-12	SEDIMENT TRAP WITH CHECK DAM
EC-STR-11	08-01-12	CULVERT PROTECTION TYPE 1
EC-STR-19	04-01-08	CATCH BASIN PROTECTION
EC-STR-39	08-01-12	CURB INLET PROTECTION TYPE 1 & 2
EC-STR-39A	08-01-12	CURB INLET PROTECTION TYPE 3 & 4
EC-STR-40		CATCH BASIN FILTER ASSEMBLY FOR CIRCULAR STRUCTURES
EC-STR-41		CATCH BASIN FILTER ASSEMBLY (TYPE 1)
EC-STR-41A		CATCH BASIN FILTER ASSEMBLY (TYPE 1) SLIPCOVER DETAILS
EC-STR-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-11A	08-01-12	CULVERT PROTECTION TYPE 2
EC-STR-25	08-01-12	TEMPORARY CULVERT CROSSING, CONSTRUCTION EXIT, CONSTRUCTION FORD
EC-STR-30A		INSTREAM DIVERSION (WITH TRAFFIC)
EC-STR-31	08-01-12	TEMPORARY DIVERSION CHANNEL
EC-STR-31A	04-01-08	TEMPORARY DIVERSION CHANNEL DESIGN
EC-STR-36	08-01-12	TURF REINFORCEMENT MAT FOR CHANNEL

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	1-D

STANDARD TRAFFIC OPERATIONS DRAWINGS

STANDARD STRUCTURE DRAWINGS

DWG.	REV.	DESCRIPTION
SIGNS		
T-S-9	06-10-14	STANDARD LAYOUT GROUND MOUNTED SIGNS
T-S-10	04-04-12	STANDARD MOUNTING DETAILS FLAT SHEET SIGNS ALUMINUM-STEEL DESIGN
T-S-11	06-06-11	DELINEATOR AND MILEPOST DETAILS
T-S-12	07-02-15	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, SQUARE TUBES
T-S-13	07-20-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, I-BEAMS
T-S-14	08-17-12	STANDARD STEEL GROUND MOUNTED SIGNS, BREAK-AWAY TYPE POST FOOTING DETAILS, WF-BEAMS
T-S-16	07-02-15	GROUND MOUNTED ROADSIDE SIGN PLACEMENT DETAILS
T-S-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
SIGNALS		
T-SG-2	06-27-16	LOOP LEAD-INS, CONDUIT AND PULL BOXES
T-SG-3	06-27-16	STANDARD NOTES AND DETAILS OF INDUCTIVE LOOPS
T-SG-3A	06-27-16	ALTERNATE DETECTION DETAILS
T-SG-4	06-27-16	SPAN WIRE AND MESSENGER CABLE DETAILS
T-SG-5	06-27-16	CONTROLLER CABINET DETAILS
T-SG-6		PEDESTRIAN SIGNAL DETAILS
T-SG-7	06-27-16	SIGNAL HEAD ASSEMBLIES
T-SG-7A		TYPICAL SIGNAL HEAD PLACEMENT APPROACHES WITH NO THROUGH MOVEMENTS
T-SG-7B		TYPICAL SIGNAL HEAD PLACEMENT APPROACHES WITH NO THROUGH MOVEMENTS
T-SG-7C		TYPICAL SIGNAL HEAD PLACEMENT ONE-LANE AND TWO-LANE APPROACHES
T-SG-7D		TYPICAL SIGNAL HEAD PLACEMENT TWO-LANE APPROACHES
T-SG-7E		TYPICAL SIGNAL HEAD PLACEMENT THREE-LANE APPROACHES
T-SG-7F		TYPICAL SIGNAL HEAD PLACEMENT THREE-LANE APPROACHES
T-SG-7G		TYPICAL SIGNAL HEAD PLACEMENT THREE-LANE APPROACHES
T-SG-7H		TYPICAL SIGNAL HEAD PLACEMENT THREE-LANE AND FOUR-LANE APPROACHES
T-SG-7I		TYPICAL SIGNAL HEAD PLACEMENT FOUR-LANE APPROACHES
T-SG-7J		TYPICAL SIGNAL HEAD PLACEMENT FOUR-LANE APPROACHES
T-SG-7K		TYPICAL SIGNAL HEAD PLACEMENT FOUR-LANE APPROACHES

DWG.	REV.	DESCRIPTION
T-SG-7L		TYPICAL SIGNAL HEAD PLACEMENT FOUR-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-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-3		FIBER OPTIC AERIAL CONNECTION DETAILS
T-FO-4		FIBER OPTIC PULL BOX, CABINET & POLE DETAILS
T-L-1	12-04-13	STANDARD LIGHTING FOUNDATION DETAILS
T-L-1SA	09-11-13	STANDARD LIGHTING DETAILS FOR SINGLE ARM SUPPORTS
T-L-1TM		STANDARD LIGHTING DETAILS TENON MOUNTED OFFSET LIGHTING SUPPORTS
T-L-2	12-04-13	FOUNDATION DETAIL FOR LUMINAIRE MOUNTED ON 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
NEW STRUCTURES		
STD-1-1	05-01-14	BRIDGE RAILING CONCRETE PARAPET
STD-1-1SS	05-01-14	BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET
STD-1-2	03-28-08	SLIDER PLATE AND DECK DRAIN
STD-1-2SS		SLIDER PLATES FOR SINGLE SLOPE PARAPETS AND DECK DRAINS
STD-1-3	07-31-00	STD. CONCRETE MEDIAN BARRIER
STD-1-3SS	11-01-10	STD. SINGLE SLOPE CONCRETE MEDIAN BARRIER
STD-1-4	01-05-01	SLIDER PLATES FOR MEDIAN BARRIER
STD-1-4SS		SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE MEDIAN BARRIER
STD-1-5	03-26-14	PAVEMENT AT BRIDGE ENDS
STD-1-6	04-28-97	BRIDGE END DRAIN W/ PAVEMENT AT BRIDGE ENDS
STD-1-7	08-24-11	BRIDGE END DRAIN W/ PAVEMENT AT BRIDGE ENDS
STD-1-8	05-01-95	BRIDGE END DRAIN 2' X 8' 7" W/ PAVEMENT AT BRIDGE ENDS
STD-1-9	05-01-95	BRIDGE END DRAIN 4' X 7" W/ PAVEMENT AT BRIDGE ENDS
STD-1-10	03-28-94	BRIDGE END DRAIN W/O PAVEMENT AT BRIDGE ENDS
STD-1-11	08-24-11	BRIDGE END DRAIN W/O PAVEMENT AT BRIDGE ENDS
STD-1-12	03-28-94	BRIDGE END DRAIN 2'x8'7" W/O PAVEMENT AT BRIDGE ENDS
STD-1-13	03-28-94	BRIDGE END DRAIN 4'x8'7" W/O PAVEMENT AT BRIDGE ENDS
STD-2-1	11-01-10	BRIDGE MOUNTED INTERCONNECTED PORTABLE BARRIER RAIL

DWG.	REV.	DESCRIPTION
STD-2-2		VERTICAL PANEL DETAILS
STD-3-1	11-01-10	STRIPSEAL EXPANSION JOINT
STD-3-2	11-01-10	STRIPSEAL EXPANSION JOINT
STD-4-1	04-08-05	STD. PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS
STD-4-2	04-08-05	STD. PRECAST PRESTRESSED BRIDGE DECK PANELS DESIGN CRITERIA
STD-4-3	03-02-02	STD. PRECAST PRESTRESSED BRIDGE DECK PANELS GENERAL DETAILS
STD-4-4	06-10-96	STD. PRECAST PRESTRESSED BRIDGE DECK PANELS CONSTRUCTION DETAILS
STD-5-1	10-25-93	STD. PILE DETAILS
STD-5-2	05-01-14	STD. PILE DETAILS
STD-6-1	11-01-10	STANDARD SEISMIC DETAILS
STD-6-2	11-07-94	STANDARD SEISMIC DETAILS
STD-7-1	06-02-14	STD. CONCRETE RAIL
STD-8-2	11-01-10	LIGHT STANDARD SUPPORT DETAILS
STD-8-2SS		SINGLE SLOPE PARAPET STANDARD LIGHT SUPPORT DETAILS
STD-8-3	09-01-91	MEDIAN BARRIER LIGHT STANDARD SUPPORT DETAILS
STD-8-3SS		SINGLE SLOPE MEDIAN BARRIER STANDARD LIGHT SUPPORT DETAILS
STD-8-4		SIGN, LUMINAIRE, AND TRAFFIC SIGNAL SUPPORTS
STD-9-1	10-07-08	REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS
STD-10-1	04-08-05	MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS
STD-11-1	05-01-14	BRIDGE RAILING W/ STRUCTURAL TUBING
STD-14-1	05-01-14	STD. DETAILS AND INT. DIAPH. DETAILS FOR BULB - TEE BEAMS
STD-14-2	11-01-10	STD. DETAILS AND INT. DIAPH. DETAILS FOR I-BEAMS
STD-14-3	10-15-08	STD. DETAILS FOR PRESTRESSED BOX BEAMS

LRFD BOX CULVERTS

STD-17-52		BOX BRIDGE, 1 BARREL AT 8', CLEAR HTS. 3' - 5', 0 - 60' FILL
STD-17-54		BOX BRIDGE, 1 BARREL AT 10', CLEAR HTS. 4' - 6', 0 - 60' FILL
STD-17-57		BOX BRIDGE, 1 BARREL AT 12', CLEAR HTS. 7' - 9', 0 - 60' FILL
STD-17-65		BOX BRIDGE, 1 BARREL AT 18', CLEAR HTS. 6' - 8', 0 - 60' FILL
STD-17-72		BOX BRIDGE, 2 BARRELS AT 8', CLEAR HTS. 3' - 5', 0 - 60' FILL
STD-17-142		SLAB BRIDGE, 2 BARRELS AT 16', CLEAR HTS. 6' - 8', 0 - 60' FILL

BOX CULVERTS (Previous)

DWG.	REV.	DESCRIPTION
STD-15-26		PRECAST BOX CULVERT DETAILS
STD-17-20		LOW FLOW CHANNEL CONSTRUCTION DETAILS FOR CULVERT INLET AND OUTLET

94092-3231-14

REV. 6-14-18: ADDED STANDARD DRAWING STD-17-20.

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**STANDARD
DRAWINGS
(CONT.)**
S.R. 397
(MACK HATCHER PARKWAY)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	1-E

94092-3231-14

REV. 6-14-18: REVISED PROJECT COMMITMENTS PER TDOT ENVIRONMENTAL.

PROJECT COMMITMENTS

COMMITMENT ID	SOURCE DIVISION	DESCRIPTION	Sta./Location
EDML014	Environmental Division - Multiple	As stated in the 2015 MOA, the duration of the agreement document is ten years. If any of the stipulations contained within the Phase I segment of the MOA have not been implemented within ten (10) calendar years after execution of the MOA, the parties to the MOA shall review the MOA to determine whether revisions are needed.	980+00
EDML009	Environmental Division - Multiple	To minimize visual impacts in the vicinity of the historic Winstead Hill / Harrison House Historic District, the row of trees along Hillview Lane will be preserved and Hillview Lane will become a segment of the Selected Alternative's multi-use path.	980+00
EDML007	Environmental Division - Multiple	Use of all impact devices including pile drivers, hoe rams, jackhammers, chiseling devices, and pavement breakers, shall be prohibited during the nighttime hours (i.e. 10:00 PM to 7:00 AM). Any necessary use of impact devices between 10:00 PM and 7:00 AM shall be reviewed by the Engineer in advance and allowed as an exception only upon sufficient justification and only if sound minimizing measures are utilized. Sound-proofing housing or enclosures for impact devices including pile drivers, hoe rams, jackhammers, chiseling devices, and pavement breakers shall be provided at the following locations: Between STA 842+00 and 849+00 (near Franklin Christian Academy) Between STA 946+00 to STA 978+99 (near Rebel Meadows subdivision) Truck tailgate banging is prohibited. All truck tailgates shall be secured to prevent excessive noise from banging.	980+00
EDML013	Environmental Division - Multiple	Phase II: To mitigate the effects of the construction of this project to the Harpeth River Historic District, the Federal Highway Administration (FHWA) and the Tennessee State Historic Preservation Office (TN-SHPO) entered into a Section 106 Memorandum of Agreement (MOA), to which TDOT was a signatory. Native non-formal landscaping to visually separate the divided roadways Grassy median.	980+00
EDML012	Environmental Division - Multiple	Phase II (Ultimate Improvement) of the SR 397 (Mack Hatcher Parkway) Extension will consist of: Access points at Hillsboro Road (at-grade intersection), Del Rio Pike (at-grade intersection) and SR 96 (at-grade intersection). A typical section featuring four 12-foot travel lanes, separated by a 42-foot raised, grassed median, within 250 feet of right-of-way. The second bridge crossing of the Harpeth River with two travel lanes and shoulders and a sidewalk for westbound pedestrians within 108 feet of the 250 feet of right-of-way already acquired for the project. Stone facing on the bridges and retaining walls. Median landscaping and vegetation. Landscaping at right-of-way lines. A guardrail constructed of powder coated black or brown steel. Bridge railings that will be decorative in nature. All signage and markers related to the Harpeth River Bridge crossings.	980+00
EDML010	Environmental Division - Multiple	The owners of Walker Dam and Gentry Dam will be notified if any blasting is to take place in and/or around their facilities. The contact information can be obtained from Mr. Lyle Bentley, Manager of the Safe Dams Section of the Division of Water Supply at the Tennessee Department of Environment and Conservation (TDEC). Mr. Bentley may be reached at (615) 532-0154.	980+00
EDML008	Environmental Division - Multiple	In order to fulfill conditions under Section 4(f) Temporary Occupancy, any work completed on Cheek Park (located within Tract 44) must have the following construction conditions met: The duration of the occupancy will be less than the time needed for construction of the project and there will be no change in ownership. The scope of work would be minor resulting in minimal changes to the property. No significant features of the property would be adversely affected. The occupied segments of the property would be returned to their as-found conditions or better. If any of the above conditions cannot be met, the TDOT Environmental Division is to be notified immediately in writing.	980+00
EDML006	Environmental Division - Multiple	The construction contractor will be required to provide such equipment (sound deadening devices, shields, physical barriers) and take such noise abatement measures that may be necessary to restrict the transmission of construction-related noise to sensitive sites such as homes and churches in the immediate vicinity of the project. These measures may include, but are not necessarily limited to, the following: provide sound-proofing housing or enclosures for stationary noise-producing machinery such as drills and augers, cranes, derricks, compactors and pile drivers; Provide efficient intake and exhaust mufflers on internal combustion machines; Perform proper maintenance of all noise producing equipment to prevent excessive rattling and vibration of metal surfaces; and Restrict construction operations in the vicinity of noise sensitive locations to the periods of the day when excessive noise would be least harmful.	980+00
EDML005	Environmental Division - Multiple	Water wells, if impacted by construction related activities, shall be properly terminated, sealed and abandoned by a licensed well contractor according to applicable state guidelines.	980+00
EDML004	Environmental Division - Multiple	To mitigate the effects of the construction of this project to the Harpeth River Historic District, Intersections at SR 96 and Del Rio Pike will be at-grade intersections instead of elevated interchange design Divided Highway with independent horizontal and vertical alignments Grassy median Stabilized grass shoulders to limit the amount of pavement within the district Discontiguous multi-use pedestrian and bike path rather than sidewalks that will further limit the contiguous amount of pavement on the roadway and give the feeling of a smaller rural roadway Bridge/Culvert Details, such as stone facing on the culverts Vinyl coated fencing Recordation; with archival photography to be housed at TDOT at the TN-SHPO.	980+00
EDML002	Environmental Division - Multiple	A guardrail constructed of powder coated black or brown steel. Bridge railings that will be decorative in nature. Bridge overlooks for pedestrian use. Traffic signal poles and arms that are black powder coated at all signalized intersections. Street lights that will be constructed of aluminum powder coat that will match all traffic signal poles and mast arms. Pedestrian scale lighting that will be constructed of a decorative style pole and fixture.	980+00
EDML001	Environmental Division - Multiple	For more commitments and details on the ones entered in PPRM, please see the green sheets in the approved environmental document.	980+00

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**PROJECT
COMMITMENTS**

S.R. 397
(MACK HATCHER PARKWAY)

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R. O. W.	2009	STP/HPP-397 (10)	1-E1
CONST.	2018	STP/HPP-397 (10)	1-E1

94092-3231-14

REV. 6-14-18: ADDED THIS SHEET TO PLANS.

PROJECT COMMITMENTS	
SOURCE DIVISON	DESCRIPTION
Right-of-Way	<p>1) Following commencement of construction, no construction activity of any type, including construction traffic, would be allowed within the temporary construction easement area for Tract 9 on days of scheduled horse events listed:</p> <p><u>2018</u> March 9-10; April 6-8; April 15-21; April 22-28; May 21-28; May 29-June 3; June 8-10; June 25-July 1; July 2-8; August 24-26; Sept 3-9 ; Sept 10-16; October 5-7; Oct 15-21; Oct 22-28; November 1-4</p> <p><u>2019</u> March 8-9; April 5-7; April 15-21; April 22-28; May 20-26; May 27-June 2; June 14-16; June 24-30; July 1-8; August 23-25; Sept 2-8; Sept 9-15; October 4-6; Oct 14-20; Oct 21-27; October 31-November 3; November 8-10</p> <p><u>2020</u> March 13-14; April 3-5; April 13-19; April 20-26; May 18-24; May 25-31; June 12-14; June 22-28; June 29-July 5; August 21-23; August 31-Sept 6; Sept 7-13; October 2-4; Oct 12-18; Oct 19-25; November 5-8; November 13-15</p> <p>Work may at all times continue within the area taken as permanent right-of-way.</p> <p>2) The Department will provide the landowner with notice of the first date upon which the construction period begins. The Department anticipates that the construction of the project will be completed within three (3) years; however, the Department reserves the right to extend the project construction period as needed due to events beyond the Department's control.</p> <p>3) Subject to Commitment No. 1, construction activity within the temporary construction easement area shall be limited to ninety (90) days following commencement of construction and a ninety (90) day period towards the end of the construction period as determined by the Department. The Department shall give the landowner notice of the commencement dates of both ninety (90) day periods. The intention of this paragraph is that the total of one hundred eighty (180) days is to be used at the beginning and near the end of the project in connection with the temporary bridge construction and removal. However, in the unlikely and unexpected event that the Department needs to use the temporary construction easement at other times or in an emergency, and subject to the provisions of Commitment No. 1, it shall be permitted to do so, in coordination with the landowner.</p> <p>4) The Department shall designate a representative who will be responsible for communication with the landowner for the life of the project.</p> <p>5) The general contractor selected by the Department shall provide evidence of general liability insurance coverage during the life of the project. Such general liability coverage shall be endorsed to include Brownland Farm, LLC, Anderton Family Management, Margaret B. Anderton, Mr. and Mrs. Robert Anderton, and Mr. and Mrs. Peter Anderton as additional insured using the additional insured endorsement CG2010, or its equivalent. This general liability insurance coverage shall be in the amount of the limits required for the contractor and shall remain in effect during the time for construction of the project.</p> <p>6) Current fencing and landscaping shall remain intact. To the extent that there is any damage done to fencing and landscaping such features shall be replaced by the Contractor during the project or within a reasonable time after the project is complete with like or equivalent fencing or landscaping. All damage to the existing fencing and landscaping within the temporary easement shall not be measured and paid for directly and included in other line items.</p> <p>7) The Department shall obligate the contractor to take reasonable measures to mitigate dust on the project.</p> <p>8) When major construction is complete, the Department will prepare the appropriate base and put an asphalt topping on the driveway within the temporary construction easement area up to 20' in width. This 20' asphalt will run the entire distance of the temporary construction easement, from Hillsboro Rd down to the right-of-way.</p> <p>9) The Loading dock shall be removed and paid for as part of the appraisal.</p> <p>10) Temporary fence as shown in plans shall allow access to southern portion of Tract 9 throughout the duration of construction. Access through the work zone shall be coordinated directly with the property owner.</p> <p>11) No slopes in the excavation area on Tract 9 should exceed 3:1. The area is to be restored to "pasture-like" condition as directed by the engineer upon completion of construction. The haul road for tract 9 shall be removed and area shall be restored to pre-existing conditions (grades and stabilization).</p>

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**PROJECT
COMMITMENTS**

S.R. 397
(MACK HATCHER PARKWAY)

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ESTIMATED ROADWAY QUANTITIES				
Footnotes	Item No.	Description	Total	Unit
	105-01	CONSTRUCTION STAKES, LINES AND GRADES	1	L.S.
	201-01	CLEARING AND GRUBBING	1	L.S.
	202-03.01	REMOVAL OF ASPHALT PAVEMENT	110	S.Y.
1	202-06.01	REMOVAL OF BUILDINGS (TRACT NO. 1)	1	L.S.
1	202-06.02	REMOVAL OF BUILDINGS (TRACT NO. 79)	1	L.S.
2	203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	271,069	C.Y.
3,4,66	203-02.01	BORROW EXCAVATION (GRADED SOLID ROCK)	15,443	TON
	203-04	PLACING AND SPREADING TOPSOIL	13,374	C.Y.
5	203-06	WATER	254	M.G.
	203-08	CHANNEL EXCAVATION (UNCLASSIFIED)	60	C.Y.
	204-01	CULVERT EXCAVATION (UNCLASSIFIED)	1,863	C.Y.
64	204-08	FOUNDATION FILL MATERIAL	589	C.Y.
6	204-08.01	BACKFILL MATERIAL (FLOWABLE FILL)	50	C.Y.
34	207-20.01	ROADWAY SUBGRADE TIMBER MAT(TEMP)	34	L.F.
	208-01.04	ENGINEERED AGGREGATE-TOPSOIL (EAT) MIX	20,579	S.Y.
7,55	209-02.05	12" TEMPORARY SLOPE DRAIN	433	LF
7,55	209-02.06	15" TEMPORARY SLOPE DRAIN	65	LF
7,55	209-02.07	18" TEMPORARY SLOPE DRAIN	50	LF
7,55	209-03.20	FILTER SOCK (8")	1,000	LF
7,55	209-03.23	FILTER SOCK 24"	4,000	LF
7,55	209-05	SEDIMENT REMOVAL	821	CY
7,55	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	22,654	LF
7,55	209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	32,762	LF
7,55	209-08.07	ROCK CHECK DAM	154	EACH
7,8,55	209-08.08	ENHANCED ROCK CHECK DAM	54	EACH
7,10,55	209-08.09	FILTER SOCK CHECK DAM	83	EACH
7,8,55	209-09.01	SANDBAGS	500	BAG
7,55	209-09.03	SEDIMENT FILTER BAG (15'X15')	5	EACH
7,55	209-09.40	CURB INLET PROTECTION (TYPE 1)	25	EACH
7,55	209-09.41	CURB INLET PROTECTION (TYPE 2)	25	EACH
7,55	209-09.42	CURB INLET PROTECTION (TYPE 3)	10	EACH
7,55	209-09.43	CURB INLET PROTECTION (TYPE 4)	159	EACH
7,55	209-10.20	TEMPORARY SEDIMENT TRAP	2,774	CY
7,55	209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	33	SY
7,55	209-40.33	CATCH BASIN PROTECTION (TYPE D)	30	EACH
7,55	209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	5	EACH
7,55	209-40.44	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	6	EACH
7,55	209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	99	EACH
7,55	209-65.03	TEMPORARY DIVERSION CHANNEL	926	LF
7,55	209-65.04	TEMPORARY IN STREAM DIVERSION	365	LF
52	303-01.01	GRANULAR BACKFILL (ROADWAY)	2,799	TON
3,7,55,56,66	303-10.01	MINERAL AGGREGATE (SIZE 57)	410	TON
	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	1,796	TON
	307-01.20	ASP. CONC. MIX(PG64-22) (BPMB-HM) GR. A-S	1,171	TON
	307-01.21	ASP. CONC. MIX(PG70-22) (BPMB-HM) GR. A-S	11,628	TON
	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	14,858	TON
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING B-M2	9,733	TON
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	72	TON
49	407-20.05	SAW CUTTING ASPHALT PAVEMENT	6,375	L.F.
	411-01.07	ACS MIX (PG64-22) GRADING E SHOULDER	561	TON
13	411-01.10	ACS MIX (PG64-22) GRADING D	1,386	TON
	411-02.10	ACS MIX (PG70-22) GRADING D	7,908	TON
	411-12.04	SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (4IN WIDTH)	8.3	L.M.
37	415-01.01	COLD PLANING BITUMINOUS PAVEMENT	2,181	TON
62	604-02.01	CLASS A CONCRETE (BOX BRIDGE)	1,416	C.Y.
63	604-02.02	STEEL BAR REINFORCEMENT (BOX BRIDGE)	286,193	LB.
	604-01.20	BOX TUBE SAFETY RAIL	3,177	L.F.
50	606-24.12	TEMPORARY SHEET PILES	3,000	S.F.
18	607-03.02	18" CONCRETE PIPE CULVERT (CLASS III)	3,810	L.F.
	607-05.02	24" CONCRETE PIPE CULVERT (CLASS III)	2,427	L.F.
19	607-06.02	30" CONCRETE PIPE CULVERT (CLASS III)	531	L.F.
	607-07.02	36" CONCRETE PIPE CULVERT (CLASS III)	170	L.F.
20	607-08.02	42" CONCRETE PIPE CULVERT (CLASS III)	177	L.F.
24	607-09.02	48" CONCRETE PIPE CULVERT (CLASS III)	380	L.F.
29	607-10.02	54" CONCRETE PIPE CULVERT (CLASS III)	264	L.F.
	607-11.02	60" CONCRETE PIPE CULVERT (CLASS II)	163	L.F.

ESTIMATED ROADWAY QUANTITIES				
Footnotes	Item No.	Description	Total	Unit
	16	610-07.03 18" PIPE DRAIN (BRIDGE DRAIN)	184	L.F.
		611-01.02 MANHOLES, > 4' - 8' DEPTH	1	EACH
33	611-07.01	CLASS A CONCRETE (PIPE ENDWALLS)	87	C.Y.
40	611-07.02	STEEL BAR REINFORCEMENT (PIPE ENDWALLS)	1,795	LB.
	611-07.54	18" ENDWALL (CROSS DRAIN) 3:1	4	EACH
	611-07.55	18" ENDWALL (CROSS DRAIN) 4:1	2	EACH
	611-07.57	24" ENDWALL (CROSS DRAIN) 3:1	2	EACH
	611-07.58	24" ENDWALL (CROSS DRAIN) 4:1	1	EACH
41	611-07.60	30" ENDWALL (CROSS DRAIN) 3:1	2	EACH
	611-09.02	REWORK CATCHBASIN	5	EACH
	611-09.03	CAPPING EXISTING CATCHBASIN	3	EACH
	611-12.01	CATCH BASIN, TYPE 12, 0' - 4' DEPTH	16	EACH
	611-12.02	CATCH BASIN, TYPE 12, > 4' - 8' DEPTH	51	EACH
	611-12.03	CATCH BASIN, TYPE 12, > 8' - 12' DEPTH	10	EACH
	611-12.04	CATCH BASIN, TYPE 12, > 12' - 16' DEPTH	4	EACH
	611-14.02	CATCH BASIN, TYPE 14, > 4' - 8' DEPTH	9	EACH
	611-14.03	CATCH BASIN, TYPE 14, > 8' - 12' DEPTH	2	EACH
	611-14.04	CATCH BASINS, TYPE 14, > 12' - 16' DEPTH	1	EACH
	611-25.01	CATCH BASINS, TYPE 25, 0' - 4' DEPTH	1	EACH
	611-25.02	CATCH BASINS, TYPE 25, > 4' - 8' DEPTH	4	EACH
	611-25.04	CATCH BASINS, TYPE 25, > 12' - 16' DEPTH	1	EACH
	611-42.01	CATCH BASIN, TYPE 42, > 0' - 4' DEPTH	9	EACH
	611-42.02	CATCH BASIN, TYPE 42, > 4' - 8' DEPTH	2	EACH
	611-42.03	CATCH BASINS, TYPE 42, > 8' - 12' DEPTH	2	EACH
	611-43.02	CATCH BASIN, TYPE 43, > 4' - 8' DEPTH	2	EACH
51	621-05.02	TEMPORARY SHORING	1	L.S.
27	701-01.01	4 INCH CONCRETE SIDEWALK	183,300	S.F.
	701-01.02	CONCRETE SIDEWALK (6")	2,117	S.F.
	701-02.03	CONCRETE HANDICAP RAMP	3,579	S.F.
	701-03	CONCRETE MEDIAN PAVEMENT	28	C.Y.
	702-01	CONCRETE CURB	42	C.Y.
	702-03	CONCRETE COMBINED CURB & GUTTER	2,072	C.Y.
	705-08.10	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-2	3	EACH
14	705-11.01	GUARDRAIL AT BRIDGE ENDS (POWDER COATED)	4	EACH
14	705-11.03	SINGLE GUARDRAIL (TYPE 2) (POWDER COATED)	2,744	L.F.
14	705-11.08	GUARDRAIL TERMINAL (TYPE 13) (POWDER COATED)	4	EACH
14	705-11.11	TAN ENERGY ABSORB TERMINAL (NCHRP 350, TL 3)(POWDER COATED)	10	EACH
15	707-02.01	CHAIN-LINK FENCE (4') (VINYL COATED)	21,491	L.F.
15	707-02.02	END & CORNER POST ASSEMBLIES (4' VINYL COATED)	66	EACH
	707-03.03	STOCK FENCE GATE (PAINTED 2 IN. TUBE GATE, 10 T.)	3	EACH
61	707-03.08	TEMPORARY STOCK FENCE	567	L.F.
	707-08.01	FENCE (FOUR BOARD)	992	L.F.
42,55	707-08.11	HIGH VISIBILITY CONSTRUCTION FENCE	4,106	L.F.
	708-02.01	MARKERS (CONCRETE R.O.W. POSTS)	97	EACH
38,55	709-05.05	MACHINED RIP-RAP (CLASS A-3)	33,563	TON
39,55	709-05.06	MACHINED RIP-RAP (CLASS A-1)	7,034	TON
	710-04	FILTER CLOTH UNDERDRAIN (WITH PIPE)	29,523	L.F.
	710-06.12	LATERAL UNDERDRAIN ENDWALL (3:1)	19	EACH
	710-06.13	LATERAL UNDERDRAIN ENDWALL (4:1)	71	EACH
	710-06.15	LATERAL UNDERDRAIN ENDWALL (6:1)	6	EACH
12	712-01	TRAFFIC CONTROL	1	L.S.
36	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	4,925	L.F.
	712-02.36	REMOVE AND RELOCATE PORTABLE BARRIER RAIL	4,850	L.F.
21	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	237	EACH
	712-04.50	PORTABLE BARRIER RAIL DELINEATOR	70	EACH
22	712-05.01	WARNING LIGHTS (TYPE A)	20	EACH
	712-05.03	WARNING LIGHTS (TYPE C)	25	EACH
23	712-06	SIGNS (CONSTRUCTION)	938	S.F.
	712-07.03	TEMPORARY BARRICADES (TYPE III)	168	L.F.
	712-08.10	MOBILE MESSAGE SIGN UNIT W/ATTENUATOR	4	EACH
	713-01.01	CLASS A CONCRETE (FOUNDATION FOR SIGN SUPPORTS)	1	CY
	713-01.02	STEEL BAR REINFORCEMENT(FOUNDATION FOR SIGN SUPPORTS)	200	LB
	713-06	STEEL I-BEAMS & WF-BEAMS(BREAKAWAY) SIGN SUPPORT	1,344	LB
	713-11.01	"U" SECTION STEEL POSTS	740	LB
	713-11.02	PERFORATED/KNOCKOUT SQUARE TUBE POST	5,120	LB
	713-13.02	FLAT SHEET ALUMINUM SIGNS (0.08" THICK)	329	SF

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	2-A

94092-3231-14

REV. 6-14-18: REVISED ITEM NOS. 209-08.08, 209-09.43, 209-40.46, 303-01, 307-01.08, 402-01, 402-02, 403-01, 411-01.10, 604-02.02, 607-03.02, 607-06.02, 607-09.02, 611-09.03, 611-14.02, 611-43.02, 701-01.01, 716-08.04 AND 740-10.04. ADDED ITEM NOS. 270-20.01, 710-06.15, 714-01.38 AND 730-23.99. REMOVED ITEM NOS. 411-01.11, 710-06.16 & 730-23.100. REVISED FORMAT OF TABLE FOR ALTERNATE BID ITEMS. REVISED FOOTNOTES 27 & 66. REMOVED FOOTNOTE 67 CALLOUT FROM ITEM 203-01. ADDED FOOTNOTE 67 TO ITEM 714-25.22.

**UNOFFICIAL
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ESTIMATED ROADWAY QUANTITIES				
Footnotes	Item No.	Description	Total	Unit
	713-13.03	FLAT SHEET ALUMINUM SIGNS (0.10" THICK)	962	SF
	713-14	EXTRUDED ALUMINUM PANEL SIGNS	150	SF
	713-16.06	DEAD END SIGN AND SUPPORT	10	EACH
	713-16.07	END OF ROADWAY SIGN AND SUPPORT	2	EACH
32, 44	713-16.20	SIGNS (INTERNALLY ILLUMINATED STREET NAME SIGN)	15	EACH
44	713-16.21	SIGNS (R3-5, 30"x36")	1	EACH
44	713-16.22	SIGNS (R3-TO TN SR 397, 30"x42")	1	EACH
44	713-16.23	SIGNS (R10-11A, 36"x48")	1	EACH
	714-01.38	LIGHT POLE RELOCATION	6	EACH
	714-02.02	ENCASED CONDUIT (2" PVC, SCHEDULE 40)	240	L.F.
	714-02.03	ENCASED CONDUIT (3" PVC, SCHEDULE 40)	70	L.F.
	714-03.01	DIRECT BURIAL CONDUIT (2" PVC, SCHEDULE 40)	3,945	L.F.
	714-03.02	DIRECT BURIAL CONDUIT (3" PVC, SCHEDULE 40)	2,640	L.F.
	714-05.02	PULL BOXES (13"X24" - TYPE A)	29	EACH
	714-05.03	PULL BOXES (24"X36" - TYPE B)	19	EACH
	714-06.04	CABLE (1/C # 8 AWG)	6,715	L.F.
	714-06.05	CABLE (1/C # 6 AWG)	3,965	L.F.
	714-06.06	CABLE (1/C # 4 AWG)	6,630	L.F.
	714-06.07	CABLE (1/C # 2 AWG)	400	L.F.
	714-08.09	LIGHT STANDARDS (ALUMINUM, 45')	30	EACH
	714-08.20	FOUNDATION (ONLY) FOR LIGHT STANDARD	30	EACH
	714-08.28	FOUNDATION FOR LIGHT STANDARDS (ROADWAY)(DESCRIPTION)	30	EACH
	714-09.04	LUMINAIRES (336 WATT LED - TYPE A)	32	EACH
	714-12	CONTROL CENTER	1	LS
	714-25	ELECTRICAL CONNECTION	4	EACH
67	714-25.22	INSTALL SVC RISER	4	EACH
	716-01.22	SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIRECTION,1 COLOR)	365	EACH
	716-01.23	SNOWPLOWABLE RAISED PAVEMENT MARKERS (MONO DIRECTION,1 COLOR)	984	EACH
	716-02.04	PLASTIC PAVEMENT MARKING (CHANNELIZATION STRIPING)	2,673	S.Y.
	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	776	L.F.
	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	82	EACH
	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	108	L.F.
	716-02.08	PLASTIC PAVEMENT MARKING (8" DOTTED LINE)	2,046	L.F.
	716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	1,638	L.F.
	716-03.01	PLASTIC WORD PAVEMENT MARKING (ONLY)	4	EACH
	716-03.05	PLASTIC WORD PAVEMENT MARKING (BIKE LANE)	12	EACH
	716-04.04	CHANNELIZATION (SHOULDER)	4,855	S.Y.
	716-04.05	PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	43	EACH
	716-04.13	PLASTIC PAVEMENT MARKING (BIKELANE SYMBOL & ARROW)	8	EACH
	716-04.14	LANE REDUCTION ARROW	2	EACH
	716-04.15	PLASTIC PAVEMENT MARKING-BIKE SYMBOL/ARROW SHARED	15	EACH
	716-05.01	PAINTED PAVEMENT MARKING (4" LINE)	16.0	L.M.
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	576	L.F.
	716-05.06	PAINTED PAVEMENT MARKING (TURN LANE ARROW)	30	EACH
	716-05.21	PAINTED PAVEMENT MARKING(4"DOTTED LINE)	466	L.F.
	716-05.50	PAINTED PAVEMENT MARKINGS(8" LINE)	22,295	L.F.
	716-08.01	REMOVAL OF PAVEMENT MARKING (LINE)	15,357	L.F.
	716-08.04	REMOVAL OF PAVEMENT MARKING (CHANNELIZATION STRIPING)	116	L.F.
	716-08.06	REMOVAL OF PAVEMENT MARKING (TURN LANE ARROW)	17	EACH
	716-10.30	TRUNCATED DOME DETECTABLE WARNING MAT	27	S.F.
17	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	21.0	L.M.
	717-01	MOBILIZATION	1	L.S.
	725-02.79	FIBER SPLICE ENCLOSURE(UNDERGROUND 60 COUNT)	4	EACH
	725-05.02	FIBER OPTIC CABLE (60 STRAND SINGLE MODE)	1,497	L.F.
25	730-01.02	REMOVAL OF SIGNAL EQUIPMENT	2	EACH
	730-02.09	SIGNAL HEAD ASSEMBLY (130 WITH BACKPLATE)	34	EACH
	730-02.17	SIGNAL HEAD ASSEMBLY (150 A2H WITH BACKPLATE)	1	EACH
	730-02.18	SIGNAL HEAD ASSEMBLY (150 A2V)	20	EACH
	730-02.30	SIGNAL HEAD ASSEMBLY (130 A3 WITH BACKPLATE)	21	EACH
	730-02.31	SIGNAL HEAD ASSEMBLY (130 A1)	1	EACH
	730-03.21	INSTALL PULL BOX (TYPE B)	31	EACH
	730-03.23	INSTALL PULL BOX (FIBER OPTIC-TYPE A)	3	EACH
	730-03.24	INSTALL PULL BOX (FIBER OPTIC-TYPE B)	5	EACH
	730-03.25	INSTALL PULL BOX (TYPE C)	2	EACH
26,45	730-05.01	ELECTRICAL SERVICE CONNECTION	4	EACH
	730-05.03	SERVICE CABLE (RADAR DETECTION CABLE)	10,451	L.F.

ESTIMATED ROADWAY QUANTITIES				
Footnotes	Item No.	Description	Total	Unit
	730-08.01	SIGNAL CABLE - 3 CONDUCTOR	13,572	L.F.
	730-08.02	SIGNAL CABLE - 5 CONDUCTOR	12,236	L.F.
	730-08.03	SIGNAL CABLE - 7 CONDUCTOR	21,580	L.F.
58	730-08.10	SIGNAL CABLE (PRE-EMPTION CABLE MODEL 138)	9,240	L.F.
	730-08.31	INTERCONNECT CABLE (12 FIBER SINGLE-MODE)	825	L.F.
	730-12.01	CONDUIT 1" DIAMETER (PVC)	489	L.F.
	730-12.02	CONDUIT 2" DIAMETER (PVC)	5,430	L.F.
	730-12.03	CONDUIT 3" DIAMETER (PVC)	676	L.F.
	730-12.08	CONDUIT 2" DIAMETER (RGS)	5,427	L.F.
	730-12.09	CONDUIT 3" DIAMETER (RGS)	1,662	L.F.
	730-12.16	CONDUIT (3" WITH 2-1" INTERDUCT)	1,400	L.F.
	730-12.30	TRENCHING	6,994	L.F.
46	730-13.06	VEHICLE DET. (OPTICALLY ACTIVATED PRIORITY CONTROL)	15	EACH
46	730-13.08	VEHICLE DETECTOR (RADIO/GPS ACTIVATED PRIORITY CONTROL)	15	EACH
47	730-13.13	VEHICLE DETECTOR (RADAR)	28	EACH
59	730-15.32	CABINET (EIGHT PHASE BASE MOUNTED)	4	EACH
60	730-16.02	EIGHT PHASE ACTUATED CONTROLLER	4	EACH
28,48	730-23.02	STEEL STRAIN POLE (26' HEIGHT)	13	EACH
28,48	730-23.30	PEDESTAL POLE (15' HEIGHT)	21	EACH
28,48	730-23.36	CANTILEVER SIGNAL SUPPORT (1 ARM @ 60)	1	EACH
28,48	730-23.37	CANTILEVER SIGNAL SUPPORT (1 ARM @ 55)	3	EACH
28,48	730-23.96	CANTILEVER SIGNAL SUPPORT (1 ARM @ 50)	2	EACH
28,48	730-23.97	CANTILEVER SIGNAL SUPPORT (1 ARM @ 65)	4	EACH
28,48	730-23.98	CANTILEVER SIGNAL SUPPORT (1 ARM @ 70)	4	EACH
28,48	730-23.99	CANTILEVER SIGNAL SUPPORT (2 @ 60 & 55)	1	EACH
28,48	730-26.11	COUNTDOWN PED SGNL HEAD W/AUDIBLE PUSH BUTTON & 15IN SIGN	48	EACH
28,48	730-26.06	PEDESTRIAN PUSHBUTTON POST	6	EACH
	740-07.01	GEOGRID REINFORCEMENT	210	S.Y.
	740-08.01	CELLULAR CONFINEMENT SYSTEM (GRASS SHOULDERS)	20,579	S.Y.
	740-10.02	GEOTEXTILE (TYPE II) (SEDIMENT CONTROL)	20,579	S.Y.
43,55	740-10.03	GEOTEXTILE (TYPE III) (EROSION CONTROL)	26,166	S.Y.
3,66	740-10.04	GEOTEXTILE (TYPE IV)(STABILIZATION)	5,354	S.Y.
8,55	740-11.02	TEMPORARY SEDIMENT TUBE 12 INCH	14,433	L.F.
8,55	740-11.03	TEMPORARY SEDIMENT TUBE 18 INCH	5,323	L.F.
	801-01	SEEDING (WITH MULCH)	2,037	UNIT
	801-01.07	TEMPORARY SEEDING (WITH MULCH)	2,750	UNIT
	801-01.65	TEMPORARY MULCH	2,750	UNIT
53	801-03	WATER (SEEDING & SODDING)	1,138	MG
	801-07	SEED (SUPPLEMENTAL APPLICATION)	459	LBS
	801-08	FERTILIZER (SUPPLEMENTAL APPLICATION)	4	TON
9	802-02.30	CUTTINGS: SALIX NIGRA (18IN-24IN LENGTH)	25	EACH
9	802-02.32	CUTTINGS: CORNUS AMOMUM (18-24IN)	25	EACH
30	802-11.02	ACER RUBRUM (RED MAPLE 2-5 FT CNTNR GRWN)	12	EACH
30	802-11.11	CERCIS CANADENSIS (REDBUD 2-5FT CNTNR GRWN)	12	EACH
30	802-11.12	CORNUS FLORIDA (FLOWERING DOGWOOD 2-5 FT CNTNR GRWN)	11	EACH
30	802-11.13	CRATAEGUS PHAENOPYRYUM (WSHNGTN HAWTHORN 2-5FT CNTNR GRWN)	11	EACH
30	802-11.41	SASSAFRAS ALBIDUM (SASSAFRAS 2-5FT CNTNR GRWN)	11	EACH
30	802-12.02	ACER RUBRUM (RED MAPLE SEEDOHG B.R.)	22	EACH
30	802-12.11	CERCIS CANADENSIS (REDBUD SEEDLNG B.R.)	22	EACH
30	802-12.12	CORNUS FLORIDA (FLOWERING DOGWOOD SEEDLNG B.R.)	22	EACH
30	802-12.13	CRATAEGUS PHAENOPYRYUM (WSHNGTN HAWTHORN SEEDLNG B.R.)	22	EACH
30	802-12.41	SASSAFRAS ALBIDUM (SASSAFRAS SEEDLNG B.R.)	22	EACH
30	802-13.54	CARYA CORDIFORMIS (BITTERNUT HICKORY SEEDLING B.R.)	21	EACH
30	802-13.56	CARYA ILLINOINENSIS (PECAN SEEDLING B.R.)	21	EACH
30	802-13.58	OXYDENDRUM ARBOREUM (SOURWOOD SDLNG B.R.)	21	EACH
30	802-13.60	KALMIA LATIFOLIA (MOUNTAIN LAUREL SEEDLING B.R.)	20	EACH
	803-01	SODDING (NEW SOD)	65,915	S.Y.
54	805-01.01	TURF REINFORCEMENT MAT (CLASS 1)	3,800	S.Y.
31	806-02.03	PROJECT MOWING	25	CYCL.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	2-A1
94092-3231-14			
REV. 6-14-18: REVISED ITEM NOS. 209-08.08, 209-09.43, 209-40.46, 303-01, 307-01.08, 402-01, 402-02, 403-01, 411-01.10, 604-02.02, 607-03.02, 607-06.02, 607-09.02, 611-09.03, 611-14.02, 611-43.02, 701-01.01, 716-08.04 AND 740-10.04. ADDED ITEM NOS. 270-20.01, 710-06.15, 714-01.38 AND 730-23.99. REMOVED ITEM NOS. 411-01.11, 710-06.16 & 730-23.100. REVISED FORMAT OF TABLE FOR ALTERNATE BID ITEMS. REVISED FOOTNOTES 27 & 66. REMOVED FOOTNOTE 67 CALLOUT FROM ITEM 203-01. ADDED FOOTNOTE 67 TO ITEM 714-25.22.			
UNOFFICIAL SET NOT FOR BIDDING			
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION			
ESTIMATED ROADWAY QUANTITIES			
S.R. 397 (MACK HATCHER PARKWAY)			

ESTIMATED ROADWAY QUANTITIES

Footnotes	Item No.	Description	Total	Unit
		ALTERNATE A		
11	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	81,409	TON
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC) AT 0.35 GALS PER SQ. YD.	167	TON
	402-02	AGGREGATE FOR COVER MATERIAL (PC) AT 10 LBS. PER S.Y.	551	TON
		ALTERNATE B		
11	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	62,252	TON
	309-01.01	MINERAL AGGREGATE (A-CBC)	18,361	TON
	309-01.02	PORTLAND CEMENT (A-CBC)	709	TON
	309-02	BITUMINOUS MATERIAL (A-CBC)	59	TON
	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC) AT 0.35 GALS PER SQ. YD.	58	TON
	402-02	AGGREGATE FOR COVER MATERIAL (PC) AT 10 LBS. PER S.Y.	191	TON

FOOTNOTES

- 1 COST INCLUDES THE REMOVAL OF 1 METAL BARN AND 1 SILO LEFT OF STA 830+00, MACK HATCHER PKWY.
- 2 TOTAL INCLUDES 283 C.Y. FOR REBEL CIRCLE AND VICTORIA DR.; 10888 C.Y. FOR S.R. 96; 102 C.Y. FOR OLD CHARLOTTE PIKE WEST; 12549 C.Y. FOR DEL RIO PIKE; 876 C.Y. FOR S.R. 106; 30926 C.Y. OF COMMON EXCAVATION, 1000 C.Y. OF TOPSOIL AND 3000 C.Y. OF UNSUITABLE MATERIAL FOR HARPETH RIVER BENCHING; 414 C.Y. FOR EROSION CONTROL.
- 3 MAY BE INCREASED OR DECREASED AS DIRECTED BY THE ENGINEER. REFER TO SOILS SHEETS FOR FURTHER INFORMATION.
- 4 USE IN LIEU OF UNDERCUTTING: ITEM NO. 203-02.01 IN COMBINATION WITH ITEM NO. 740-10.04. REFER TO SOILS SHEETS FOR FURTHER INFORMATION.
- 5 FOR EMBANKMENT AND BASE. SIX (6) TIMES THE CALCULATED QUANTITY IS USED FOR DUST CONTROL. INCLUDES 282 M.G. FOR ITEMS 309-01.01 AND 309-01.02.
- 6 TO BE USED TO FILL PIPES ABANDONED IN PLACE. USE AS DIRECTED BY THE ENGINEER.
- 7 SEE SUBSECTION 209.07 OF THE TDOT STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT.
- 8 ITEM NOS. 209-08.07 AND 208-08.09 MAY BE SUBSTITUTED IN THE FIELD.
- 9 FOR BANK RESTORATION AT TEMPORARY CROSSING AND CRANE PADS IN RIVER.
- 10 FOR TEMPORARY DIVERSION CHANNELS.
- 11 INCLUDES 1865 TONS FOR HAUL RD.
- 12 TO INCLUDE TRAFFIC CONTROL ITEMS PER STD. SPECIFICATION SECTION 712.
- 13 THE CONTRACTOR HAS THE OPTION OF USING THE PERFORMANCE GRADE MIX OR REGULAR ASPHALT ON THE PAVING OF DRIVEWAYS AND BUSINESS ENTRANCES.
- 14 ALL GUARDRAIL SHALL POWDER COATED BROWN.
- 15 ALL FENCE SHALL BE BLACK VINYL COATED.
- 16 STANDARD DRAWING STD-1-7 IS TO BE USED FOR BURIAL OF THE OUTLET PIPE AND FOR END TREATMENT DETAILS, EXCEPT AS MODIFIED ON SHEET 15-A.
- 17 THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMED PLASTIC FOR THERMOPLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME UNIT PRICE AS BID FOR THERMOPLASTIC.
- 18 INCLUDES 3760 LF FOR STORM DRAIN PIPES AND 68 LF FOR SIDEDRAINS.
- 19 INCLUDES 381 LF FOR STORM DRAIN PIPES AND 150 LF FOR CROSS DRAINS.
- 20 INCLUDES 177 LF FOR CROSS DRAINS.
- 21 MAXIMUM ESTIMATED QUANTITY REQUIRED. NO SEPARATE PAYMENT WILL BE MADE FOR RELOCATION AND RE-USE OF ITEM NO. 712-04-01. COST SHALL BE INCLUDED IN ITEM NO. 712-01, TRAFFIC CONTROL.
- 22 FOR USE WITH TYPE III BARRICADES.
- 23 COST TO INCLUDE THE FURNISHING AND INSTALLING OF SIGN, SUPPORT AND HARDWARE.
- 24 INCLUDES 170 LF FOR STORM DRAINS AND 210 LF FOR CROSS DRAINS.
- 25 INCLUDES REMOVAL OF EXISTING SIGNAL POLES, FOUNDATIONS, CONTROLLER BOX, HEADS, SPAN WIRES, WIRING, AND SIGNS.
- 26 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY FOR OBTAINING THE ESTIMATE FOR ANY CHARGES BY THE UTILITY FOR PROVIDING ELECTRICAL SERVICE TO THE SIGNAL CONTROLLER. THESE CHARGES SHALL BE INCLUDED IN THE PRICE BID FOR THIS ITEM FOR PAYMENT BY THE CONTRACTOR.
- 27 INCLUDES 173195 S.F. FOR MULTI-USE PATH
- 28 SEE SHEETS 69A, 70A, 71A AND 72A FOR FOOTING DEPTHS.
- 29 INCLUDES 264 LF FOR CROSS DRAINS.
- 30 TREE SPECIES FOR STREAM MITIGATION.

- 31 ITEM INCLUDES LITTER AND TRASH REMOVAL. THIS WORK WILL NOT BE MEASURED AND PAID FOR DIRECTLY BUT WILL BE INCLUDED IN THE COST OF ITEM NO. 806-02.03, PROJECT MOWING, CYCL. SPECIAL CARE IS TO BE TAKEN AT ALL INTERSECTING ROADS.
- 32 SEE SHEETS 69, 70, 71 AND 72 FOR DETAILS.
- 33 INCLUDES 46 CY FOR STORM DRAINAGE ENDWALLS AND 41 CY FOR CROSS DRAIN ENDWALLS.
- 34 FOR HORSE CROSSING AT HAUL ROAD - SEE DETAIL SHEET 2F2 AND 2F3
- 35 NOT USED
- 36 INCLUDES 75 L.F. OF INTERCONNECTED PORTABLE BARRIER RAIL FOR USE BETWEEN STA 925+40 RT. TO BRIDGE APPROACH SLAB. BARRIER RAIL IS TO BE NEW AND WILL REMAIN AT THE COMPLETION OF CONSTRUCTION.
- 37 INCLUDES 601.2 TONS ON S.R.-96 AND 1579 TONS ON HILLSBORO ROAD. SEE TYPICAL SECTIONS FOR MORE DETAIL.
- 38 INCLUDES 1000 TON FOR EROSION CONTROL AND 32563 TON FOR HAUL RD.
- 39 INCLUDES 5323 TON FOR EROSION CONTROL AND 1711 TON FOR HAUL RD.
- 40 INCLUDES 1185 LBS FOR STORM DRAINAGE ENDWALLS AND 610 LBS FOR CROSS DRAIN ENDWALLS.
- 41 INCLUDES 2 EACH FOR STORM DRAINAGE ENDWALL AND 2 EACH FOR CROSS DRAIN ENDWALL.
- 42 INCLUDES 3744 LF FOR EROSION CONTROL.
- 43 INCLUDES 7882 SY FOR EROSION CONTROL AND 18284 SY FOR HAUL RD.
- 44 ITEM INCLUDES MOUNTING OF SIGN OVERHEAD ON MAST ARM. OVERHEAD SIGNS TO BE MOUNTED USING ASTRO-BRACKET CABLE CLAMPS. SCREWING SIGNS TO MAST ARMS WILL NOT BE ACCEPTABLE.
- 45 ITEM INCLUDES A MILBANK METER PEDESTAL. ALSO INCLUDES WIRING TO THE TRANSFORMER.
- 46 ITEM INCLUDES FURNISHING AND INSTALLING A GLOBAL TRAFFIC TECHNOLOGIES, LLC (GTT) OPTICOM EMERGENCY PREEMPTION UNITS OR APPROVED EQUAL AND ALL WIRING AND EQUIPMENT NEEDED TO PROVIDE EMERGENCY VEHICLE PREEMPTION FOR EACH SIGNALIZED APPROACH.
- 47 ITEM INCLUDES 14 RADAR UNITS FOR STOP LINE DETECTION THAT SHALL BE WAVETRONIX SMARTSENSOR MATRIX OR APPROVED EQUAL, 14 RADAR DETECTION UNITS FOR ADVANCED DETECTION THAT SHALL BE WAVETRONIX SMARTSENSOR ADVANCE OR APPROVED EQUAL AND 13 RADAR DETECTION UNITS FOR SYSTEM MONITORING THAT SHALL BE WAVETRONIX SMARTSENSOR HD OR APPROVED EQUAL. DETECTION UNITS SHALL INCLUDE INSTALLATION, WIRING, AND ALL COMPONENTS NECESSARY TO PROVIDE A FULLY OPERATIONAL DETECTION SYSTEM.
- 48 ITEM INCLUDES SUPPORT POLE. INSTALLATION OF SUPPORT POLE AND FOUNDATION.
- 49 INCLUDES 4070 L.F. ON S.R. 96 AND 2305 L.F. ON HILLSBORO ROAD.
- 50 FOR TEMPORARY CRANE PADS AT BRIDGE OVER HARPETH RIVER. SEE SHEET 54B.
- 51 FOR BOX CULVERT CONSTRUCTION S.R. 96 (STA 24+26 AND STA 24+55). ITEM INCLUDES ALL MATERIALS AND WORK NECESSARY TO COMPLETE TEMPORARY SHORING FOR PHASED CONSTRUCTION OF BOX CULVERT. SEE SHEET 55A-55B.
- 52 INCLUDES 1,374 C.Y. FOR BOX BRIDGE AND 1425 CY FOR BOX CULVERTS
- 53 INCLUDES 203 M.G. FOR PERMANENT SEEDING, 660 M.G. FOR SOD AND 275 M.G. FOR EROSION CONTROL TEMPORARY SEEDING
- 54 INCLUDES 1900 S.Y. FOR PREMENENT OUTLET PROTECTION AND 1900 S.Y. FOR EROSION CONTROL TEMPORARY OUTLET PROTECTION AS DIRECTED BY THE ENGINEER FOR EPSC
- 56 INCLUDES 410 C.Y. FOR EROSION CONTROL
- 57 FOR EROSION CONTROL PERMANENT OUTLET PROTECTION
- 58 ITEM REFERS TO GLOBAL TRAFFIC TECHNOLOGIES, LLC (GTT) OPTICOM INFRARED SYSTEM – MODEL 138 DETECTOR CABLE
- 59 ITEM SHALL BE EAGLE SIZE P-UPS CABINET (MODEL NO. ELS1014) OR APPROVED EQUAL. THE CABINET SHALL BE A NEMA TS2 TYPE 2 CABINET.
- 60 MODEL OF CONTROLLER SHALL BE SIEMENS M60 SERIES ATC OR APPROVED EQUAL
- 61 TARTER 6 BAR ECONOMY CARRAL PANEL 12" (L = 140" X H = 60") OR APPROVED EQUAL
- 62 INCLUDES 570 CY FOR BOX BRIDGE AND 846 CY FOR BOX CULVERTS
- 63 INCLUDES 112,101 LBS FOR BOX BRIDGE AND 174092 LBS FOR BOX CULVERT
- 64 INCLUDES 231 CY FOR BOX BRIDGE AND 358 CY FOR BOX CULVERTS
- 65 INCLUDES 1863 CY FOR BOX CULVERTS
- 66 INCLUDES 5254 SY FOR WETLAND REPAIR AND 100 SY FOR POTENTIAL SINKHOLE REPAIR.
- 67 FOR LIGHTING SERVICE CONNECTIONS AT S.R. 96, DEL RIO PK. AND S.R. 106 (2)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	2-A2

94092-3231-14

REV. 6-14-18: REVISED ITEM NOS. 209-08.08, 209-09.43, 209-40.46, 303-01, 307-01.08, 402-01, 402-02, 403-01, 411-01.10, 604-02.02, 607-03.02, 607-06.02, 607-09.02, 611-09.03, 611-14.02, 611-43.02, 701-01.01, 716-08.04 AND 740-10.04. ADDED ITEM NOS. 270-20.01, 710-06.15, 714-01.38 AND 730-23.99. REMOVED ITEM NOS. 411-01.11, 710-06.16 & 730-23.100. REVISED FORMAT OF TABLE FOR ALTERNATE BID ITEMS. REVISED FOOTNOTES 27 & 66. REMOVED FOOTNOTE 67 CALLOUT FROM ITEM 203-01. ADDED FOOTNOTE 67 TO ITEM 714-25.22.

**UNOFFICIAL
SET
NOT FOR
BIDDING**

**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**ESTIMATED
ROADWAY
QUANTITIES**

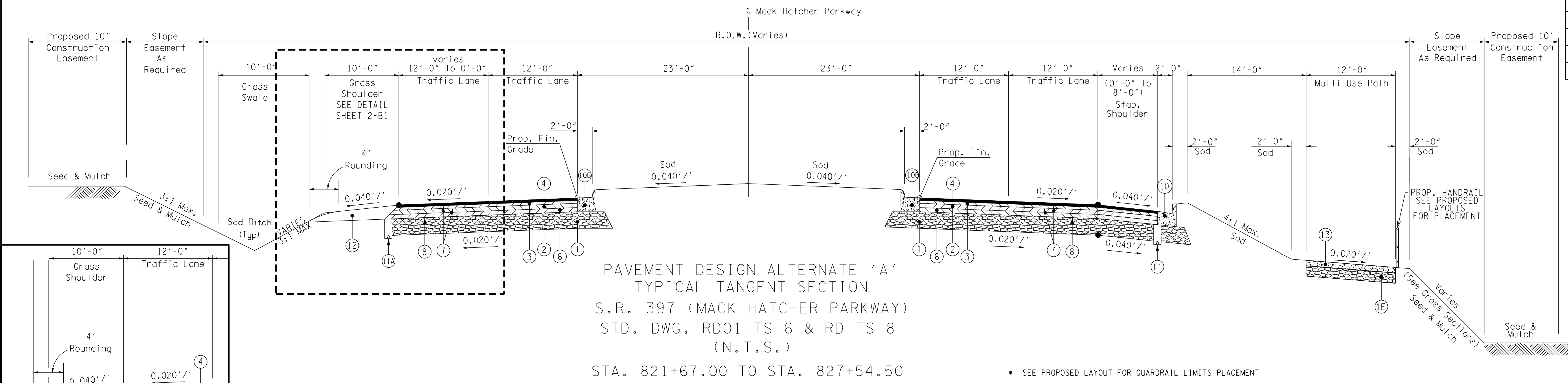
S.R. 397
(MACK HATCHER PARKWAY)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	2
CONST.	2018	STP/HPP-397(10)	2-B

94092-3231-14

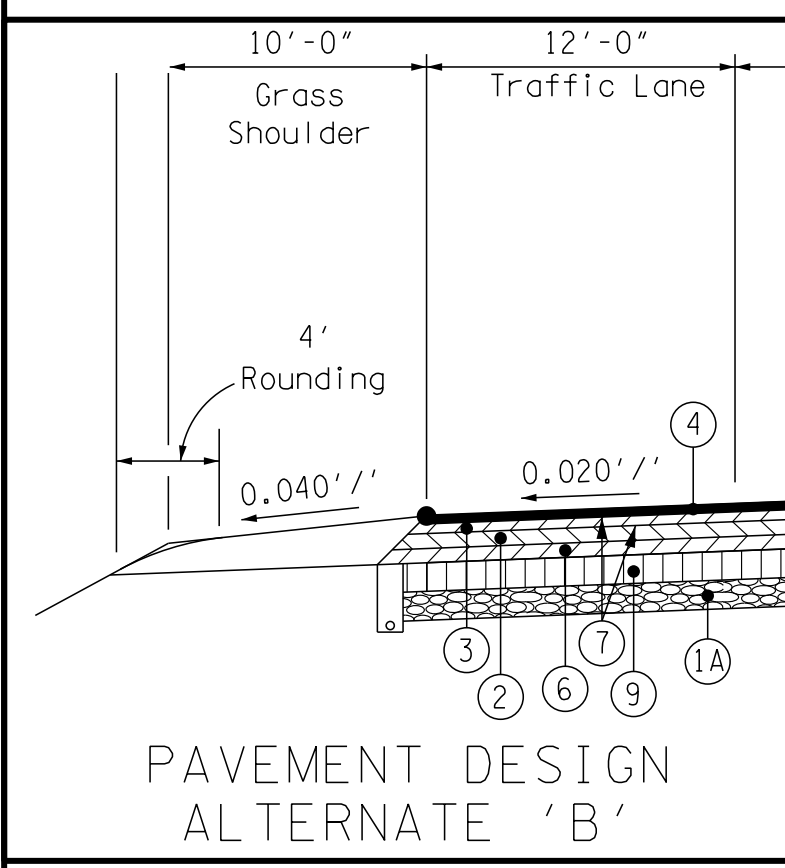
REV. 1-26-15: CHANGED TYPICAL SECTIONS FOR PHASED BUILD OUT AND ELIMINATED ROUNDABOUTS

REV. 6-14-18: REVISED PAVEMENT SCHEDULE FOR MULTI-USE PATH PAVEMENT DESIGN.

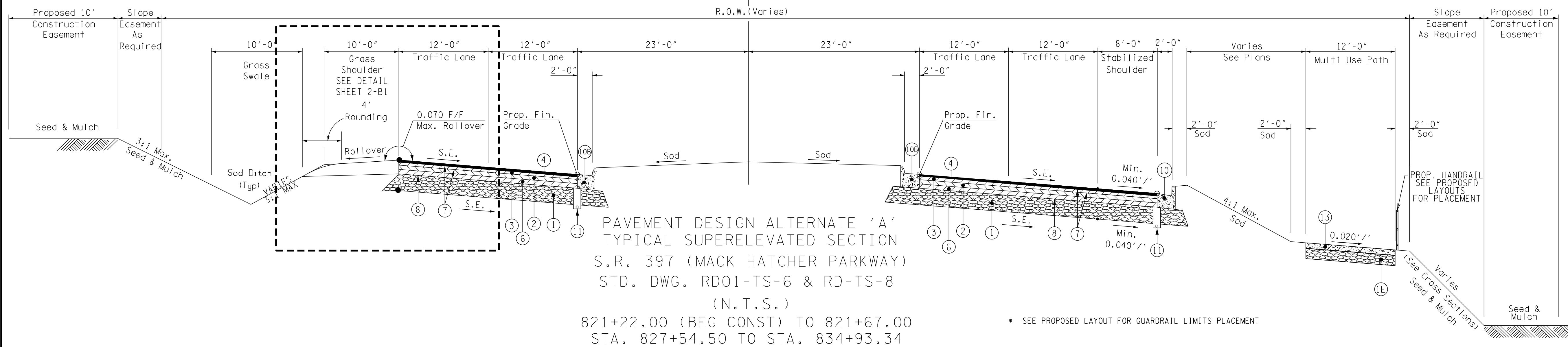


PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL TANGENT SECTION
S.R. 397 (MACK HATCHER PARKWAY)
STD. DWG. RD01-TS-6 & RD-TS-8
(N.T.S.)
STA. 821+67.00 TO STA. 827+54.50

• SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT



PAVEMENT DESIGN ALTERNATE 'B'



PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL SUPERELEVATED SECTION
S.R. 397 (MACK HATCHER PARKWAY)
STD. DWG. RD01-TS-6 & RD-TS-8
(N.T.S.)
821+22.00 (BEG CONST) TO 821+67.00
STA. 827+54.50 TO STA. 834+93.34

• SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT

PROPOSED PAVEMENT SCHEDULE

① MINERAL AGGREGATE, TYPE A BASE, GRADING D	④ BITUMINOUS SURFACING (ROADWAY) AT 1.25 INCHES+ THICK (APPROX. 132.5 LBS PER SQ. YD.)	⑦ TACK COAT	⑩ CURB AND GUTTER
② BITUMINOUS PLANT MIX BASE AT 3 INCHES+ THICK (APPROX. 345 LBS. PER SQ. YD.)	⑤ BITUMINOUS SURFACING (ROADWAY) AT 1.25 INCHES+ THICK (APPROX. 132.5 lbs. PER SQ. YD.)	⑧ PRIME COAT	⑪ 6" MOUNTABLE CONCRETE COMBINED CURB AND GUTTER
③ BITUMINOUS BINDER COURSE (PG70-22)	⑥ BITUMINOUS SURFACING (ROADWAY) AT 1.5 INCHES+ THICK (APPROX. 159 LBS. PER SQ. YD.)	⑨ AGGREGATE CEMENT BASE - LIMESTONE	⑫ 6" TYPE "A" MOUNTABLE DETACHED CONCRETE CURB
④ BITUMINOUS BINDER AT 2 INCHES+ THICK (APPROX. 226 LBS. PER SQ. YD.)	⑦ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	⑩ CEMENT TREATED BASE AT 5" THICK UNDER ROADWAY	⑬ CONCRETE CURB (STANDARD DRAWING NO. RP-MC-2).
⑤ BITUMINOUS BINDER COURSE (PG64-22)	⑧ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	⑪ CURB AND GUTTER	⑭ UNDERDRAIN
⑥ BITUMINOUS BINDER AT 2 INCHES+ THICK (APPROX. 226 lbs. PER SQ. YD.)	⑨ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	⑫ 6" NONMOUNTABLE CONCRETE COMBINED CURB AND GUTTER	⑮ 710-04 FILTER CLOTH UNDERDRAINS (WITH PIPE)
⑦ BITUMINOUS BINDER COURSE (PG64-22)	⑩ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	⑬ 6" NONMOUNTABLE CONCRETE COMBINED CURB AND GUTTER	⑯ 710-04 FILTER CLOTH UNDERDRAINS (WITH PIPE)
⑧ BITUMINOUS BINDER AT 2 INCHES+ THICK (APPROX. 226 lbs. PER SQ. YD.)	⑪ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	⑭ 6" MOUNTABLE CONCRETE COMBINED CURB AND GUTTER	⑰ SEEDING (WITH MULCH) PER UNIT
⑨ BITUMINOUS BINDER COURSE (PG64-22)	⑫ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	⑮ 6" MOUNTABLE CONCRETE COMBINED CURB AND GUTTER	⑱ SIDEWALK / MULTI-USE PATH
⑩ BITUMINOUS BINDER AT 2 INCHES+ THICK (APPROX. 226 lbs. PER SQ. YD.)	⑬ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	⑯ 6" MOUNTABLE CONCRETE COMBINED CURB AND GUTTER	⑳ 701-01.01 CONCRETE SIDEWALK (4")
⑪ BITUMINOUS BINDER COURSE (PG64-22)	⑭ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	⑰ 6" MOUNTABLE CONCRETE COMBINED CURB AND GUTTER	㉑ (SEE STANDARD DRAWING NO. RP-S-7)
⑫ BITUMINOUS BINDER AT 2 INCHES+ THICK (APPROX. 226 lbs. PER SQ. YD.)	⑮ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	⑱ 6" MOUNTABLE CONCRETE COMBINED CURB AND GUTTER	
⑬ BITUMINOUS BINDER COURSE (PG64-22)	⑯ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	⑳ 6" MOUNTABLE CONCRETE COMBINED CURB AND GUTTER	
⑭ BITUMINOUS BINDER AT 2 INCHES+ THICK (APPROX. 226 lbs. PER SQ. YD.)	⑰ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)	㉑ 6" MOUNTABLE CONCRETE COMBINED CURB AND GUTTER	
⑮ BITUMINOUS BINDER COURSE (PG64-22)	⑱ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)		
⑯ BITUMINOUS BINDER AT 2 INCHES+ THICK (APPROX. 226 lbs. PER SQ. YD.)	⑳ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)		
⑰ BITUMINOUS BINDER COURSE (PG64-22)	㉑ BITUMINOUS SURFACING (ROADWAY) AT 2.0 INCHES+ THICK (APPROX. 206 LBS PER SQ. YD.)		
⑱ BITUMINOUS BINDER AT 2 INCHES+ THICK (APPROX. 226 lbs. PER SQ. YD.)			

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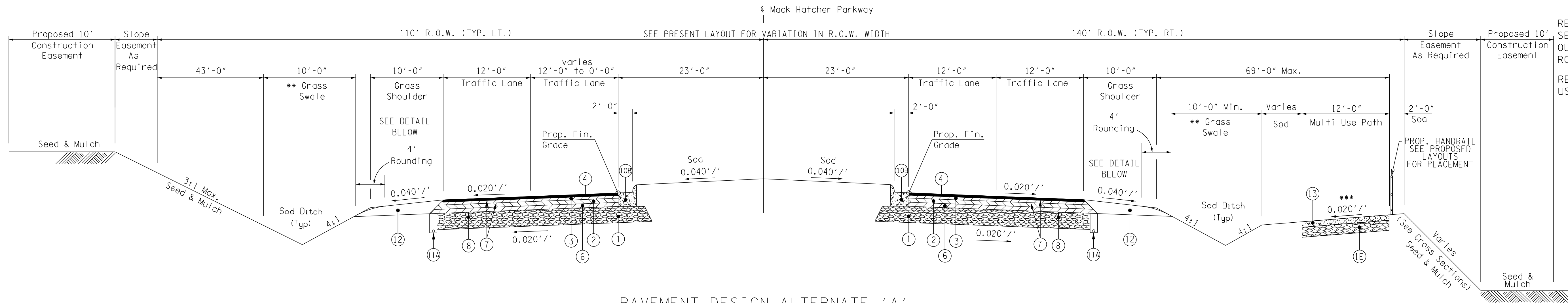
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

TYPICAL
SECTIONS
AND
PAVEMENT
SCHEDULE

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	2-A
CONST.	2018	STP/HPP-397(10)	2-B1

94092-3231-14

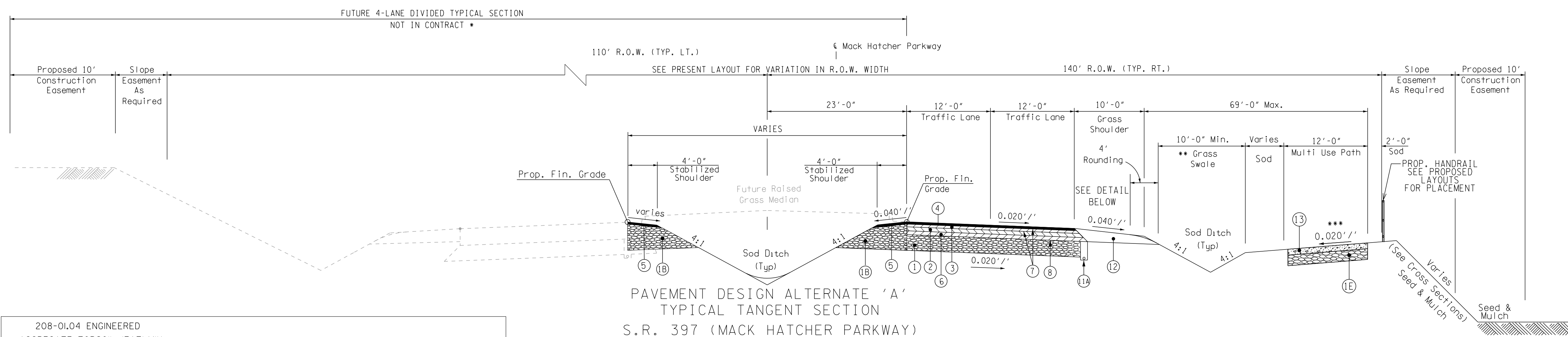


REV. 1-26-15: CHANGED TYPICAL SECTIONS FOR PHASED BUILD OUT AND ELIMINATED ROUNDABOUTS
 REV. 6-14-18: REVISED MULTI-USE PATH PAVEMENT DESIGN.

PAVEMENT DESIGN ALTERNATE 'A'
 TYPICAL TANGENT SECTION
 S.R. 397 (MACK HATCHER PARKWAY)
 STD. DWG. RD01-TS-6, RD01-TS-3A, & RD-TS-8
 (N.T.S.)

STA. 834+93.34 TO STA. 844+27.00
 STA. 893+20.38 TO STA. 901+34.00

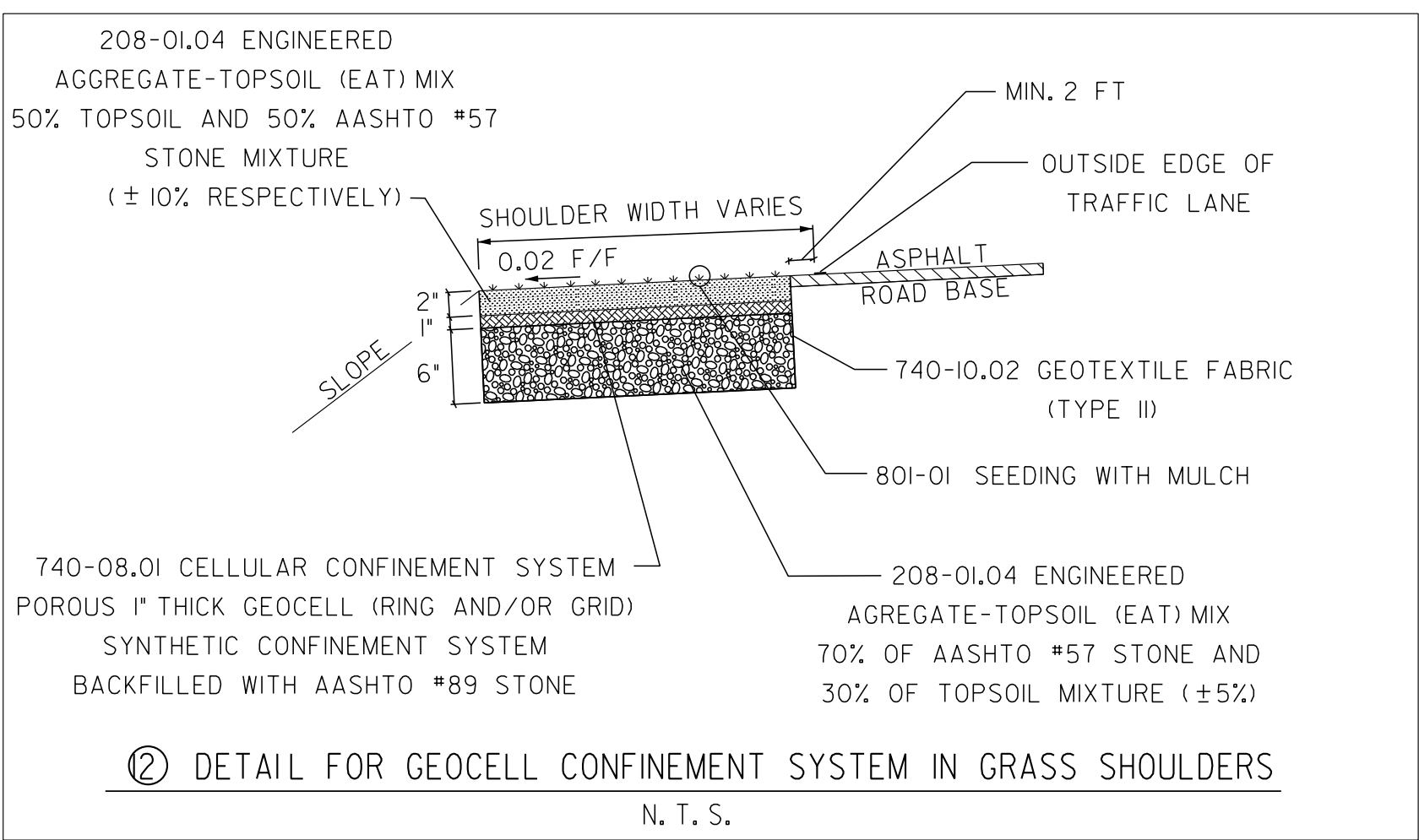
- ** CONSTRUCT SWALE LEFT AND RIGHT IN CUT SECTIONS AND/OR BETWEEN ROADWAY AND MULTI-USE PATH AS SHOWN IN PLANS.
- *** GREENWAY CROSS SLOPE IS REVERSED (0.02. '//' TO THE OUTSIDE) THROUGH THE FOLLOWING STATION RANGES (SEE CROSS SECTIONS): 888+50 TO 894+00
- **** SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT



PAVEMENT DESIGN ALTERNATE 'A'
 TYPICAL TANGENT SECTION
 S.R. 397 (MACK HATCHER PARKWAY)
 STD. DWG. RD01-TS-6, RD01-TS-3A, & RD-TS-8
 (N.T.S.)

STA. 844+27.00 TO STA. 847+61.65
 STA. 901+34.00 TO STA. 904+20.11

- SEE MEDIAN CROSSOVER TYPICAL SECTIONS SHT. 2-B5
- ** CONSTRUCT SWALE LEFT AND RIGHT IN CUT SECTIONS AND/OR BETWEEN ROADWAY AND MULTI-USE PATH AS SHOWN IN PLANS. SEE DITCH TYPICAL SECTIONS AND PROPOSED LAYOUT FOR VARIATION IN DITCH LINING.
- *** SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT



NOTE: SEE INSET ON SHEET 2-B FOR PAVEMENT DESIGN ALTERNATE 'B'

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 BIDDING

STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION

TYPICAL
 SECTIONS

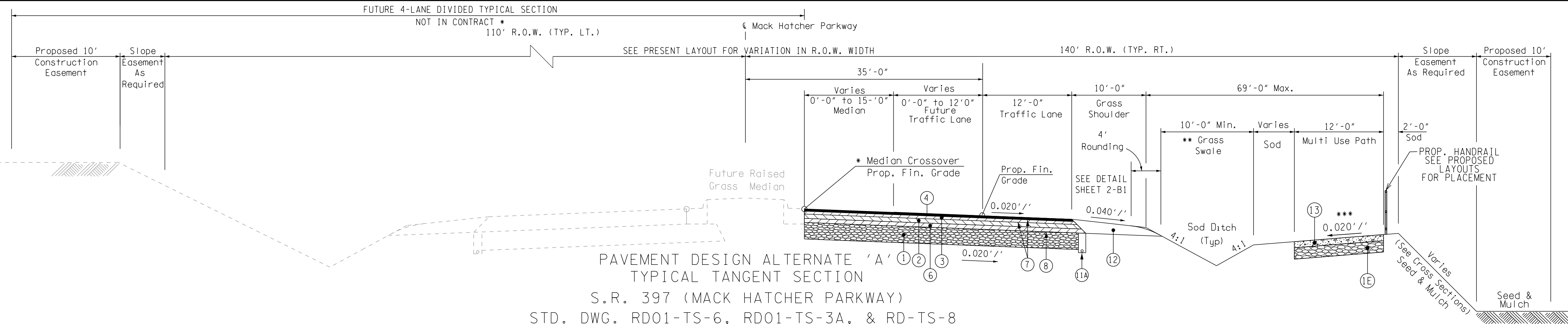
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	2-B
CONST.	2018	STP/HPP-397(10)	2-B2

94092-3231-14

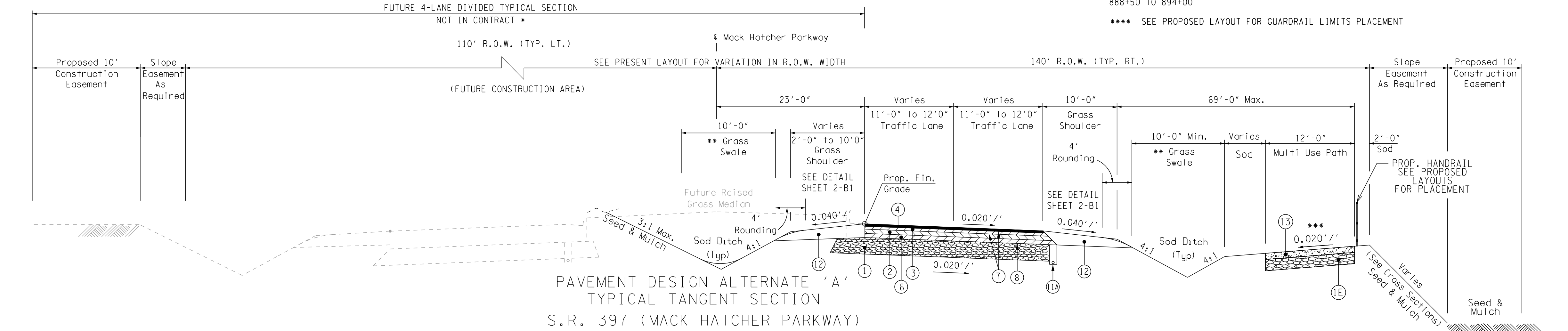
REV. 1-26-15: CHANGED TYPICAL SECTIONS FOR PHASED BUILD OUT AND ELIMINATED ROUNDABOUTS

REV. 6-14-18: REVISED MULTI-USE PATH PAVEMENT DESIGN.



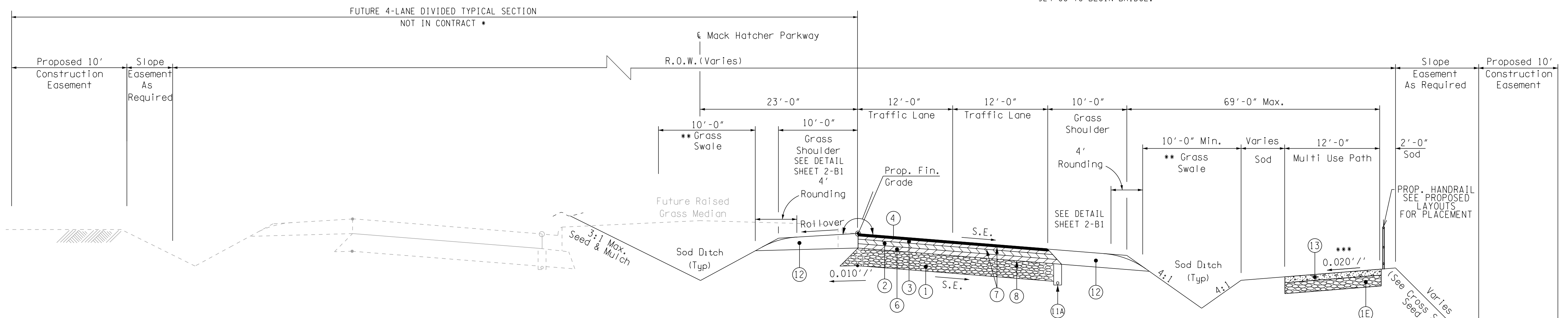
PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL TANGENT SECTION
S.R. 397 (MACK HATCHER PARKWAY)
STD. DWG. RD01-TS-6, RD01-TS-3A, & RD-TS-8
(N.T.S.)
STA. 847+61.65 TO STA. 853+04.23
STA. 884+40.60 TO STA. 890+16.00
STA. 904+20.11 TO STA. 910+11.23

- * SEE MEDIAN CROSSOVER TYPICAL SECTIONS SH. 2-B5
- ** CONSTRUCT SWALE LEFT AND RIGHT IN CUT SECTIONS AND/OR BETWEEN ROADWAY AND MULTI-USE PATH AS SHOWN IN PLANS.
- *** GREENWAY CROSS SLOPE IS REVERSED (0.02. ' / ' TO THE OUTSIDE) THROUGH THE FOLLOWING STATION RANGES (SEE CROSS SECTIONS):
888+50 TO 894+00
- **** SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT



PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL TANGENT SECTION
S.R. 397 (MACK HATCHER PARKWAY)
STD. DWG. RD01-TS-6, RD01-TS-3A, & RD-TS-8
(N.T.S.)
STA. 853+04.23 TO STA. 862+06.60
STA. 910+11.23 TO STA. 926+45.00 (BEGIN BRIDGE) RIGHT

- * SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT
- ** CONSTRUCT SWALE LEFT AND RIGHT IN CUT SECTIONS AND/OR BETWEEN ROADWAY AND MULTI-USE PATH AS SHOWN IN PLANS.
- *** GREENWAY CROSS SLOPE IS REVERSED (0.02. ' / ' TO THE OUTSIDE) THROUGH THE FOLLOWING STATION RANGES (SEE CROSS SECTIONS):
924+00 TO BEGIN BRIDGE.



PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL SUPERELEVATED SECTION
S.R. 397 (MACK HATCHER PARKWAY)
STD. DWG. RD01-TS-6, RD01-TS-3A, & RD-TS-8
(N.T.S.)
STA. 862+06.60 TO STA. 884+40.60

- * SEE MEDIAN CROSSOVER TYPICAL SECTIONS SH. 2-B5
- ** CONSTRUCT SWALE LEFT AND RIGHT IN CUT SECTIONS AND/OR BETWEEN ROADWAY AND MULTI-USE PATH AS SHOWN IN PLANS.
- *** SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT

NOTE: SEE INSET ON SHEET 2-B FOR PAVEMENT DESIGN ALTERNATE 'B'

NOTE: SEE INSET ON SHEET 2-B1 FOR GEOCELL CONFINEMENT DETAIL

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NOT FOR
BIDDING

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

TYPICAL
SECTIONS

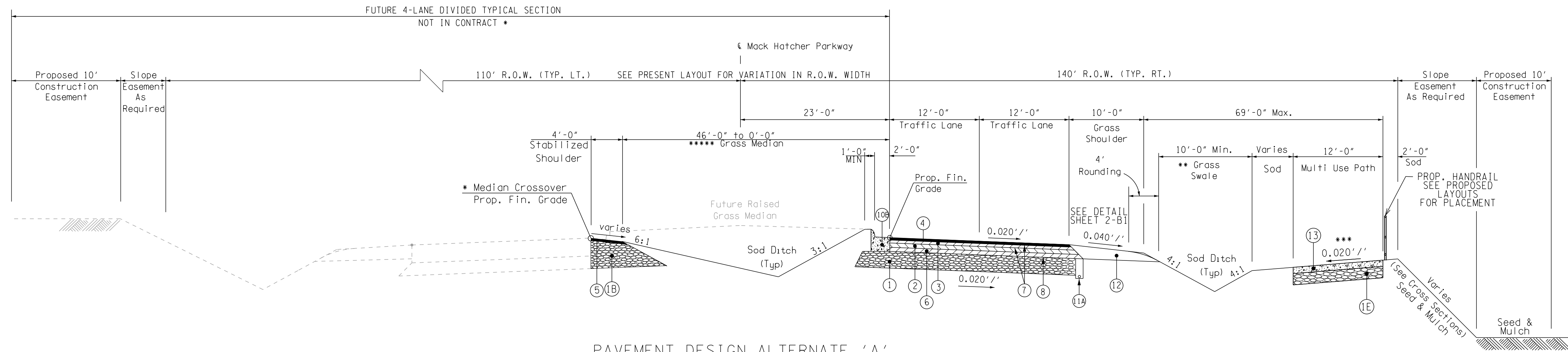
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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	2-B3

94092-3231-14

REV. 1-26-15: CHANGED TYPICAL SECTIONS FOR PHASED BUILD OUT AND ELIMINATED ROUNDABOUTS

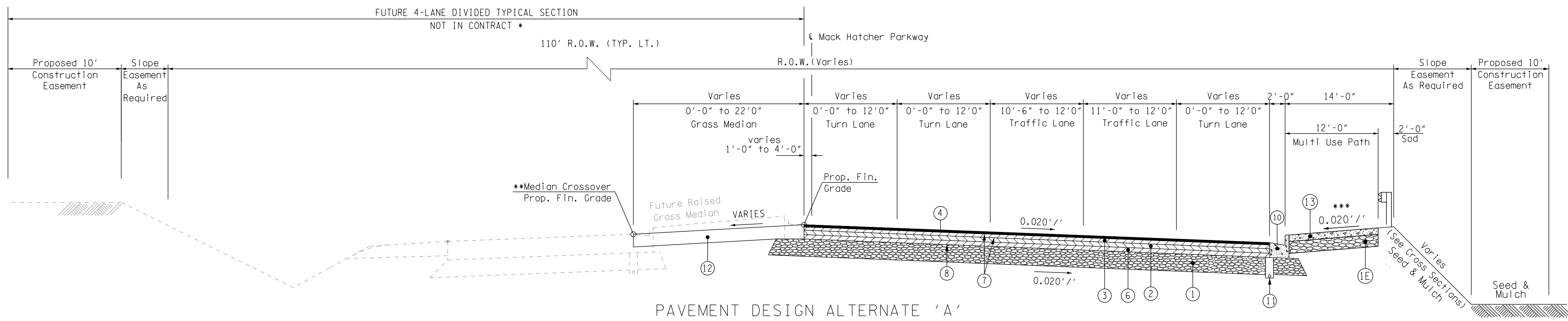
REV. 6-14-18: REVISED MULTI-USE PATH PAVEMENT DESIGN.



PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL TANGENT SECTION
S.R. 397 (MACK HATCHER PARKWAY)
STD. DWG. RD01-TS-6, RD01-TS-3A, & RD-TS-8
(N.T.S.)

STA. 890+16.00 TO STA. 893+20.38

- SEE MEDIAN CROSSOVER TYPICAL SECTIONS SHT. 2-B5
- ** CONSTRUCT SWALE LEFT AND RIGHT IN CUT SECTIONS AND/OR BETWEEN ROADWAY AND MULTI-USE PATH AS SHOWN IN PLANS. SEE DITCH TYPICAL SECTIONS AND PROPOSED LAYOUT FOR VARIATION IN DITCH LINING.
- *** GREENWAY CROSS SLOPE IS REVERSED (0.020'/' TO THE OUTSIDE) THROUGH THE FOLLOWING STATION RANGES (SEE CROSS SECTIONS): 888+50 TO 894+00
- **** SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT
- ***** SEE CROSS SECTIONS FOR DETAILS



PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL TANGENT SECTION
S.R. 397 (MACK HATCHER PARKWAY)
STD. DWG. RD01-TS-6 & RD-TS-8
(N.T.S.)

STA. 954+30.00 (END BRIDGE) TO STA. 959+25.94 RIGHT

- * SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT
- ** SEE MEDIAN CROSSOVER TYPICAL SECTIONS SHT. 2-B5

NOTE: SEE INSET ON SHEET 2-B FOR PAVEMENT DESIGN ALTERNATE 'B'

NOTE: SEE INSET ON SHEET 2-B1 FOR GEOCELL CONFINEMENT DETAIL

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SET
NOT FOR
BIDDING

STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

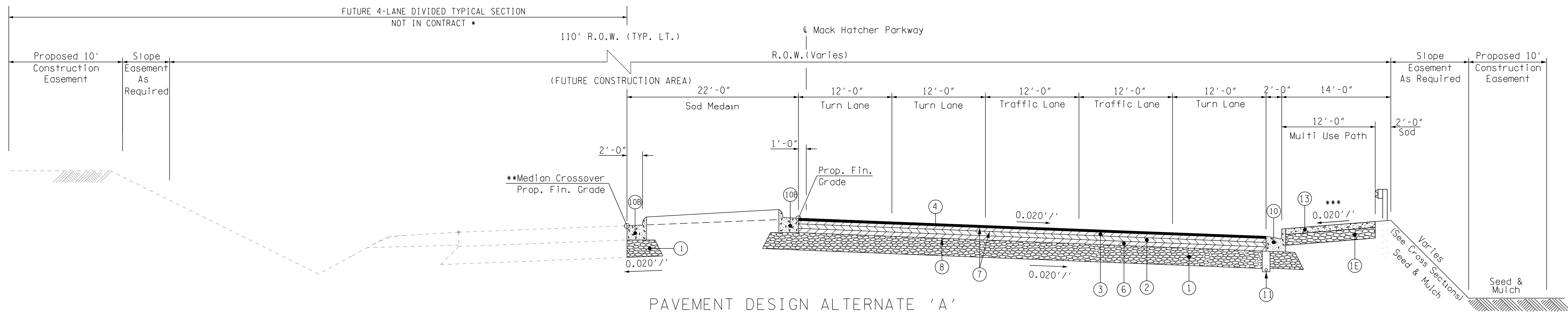
TYPICAL
SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	2-C
CONST.	2018	STP/HPP-397(10)	2-B4

94092-3231-14

REV. 1-26-15: CHANGED TYPICAL SECTIONS FOR PHASED BUILD OUT AND ELIMINATED ROUNDABOUTS

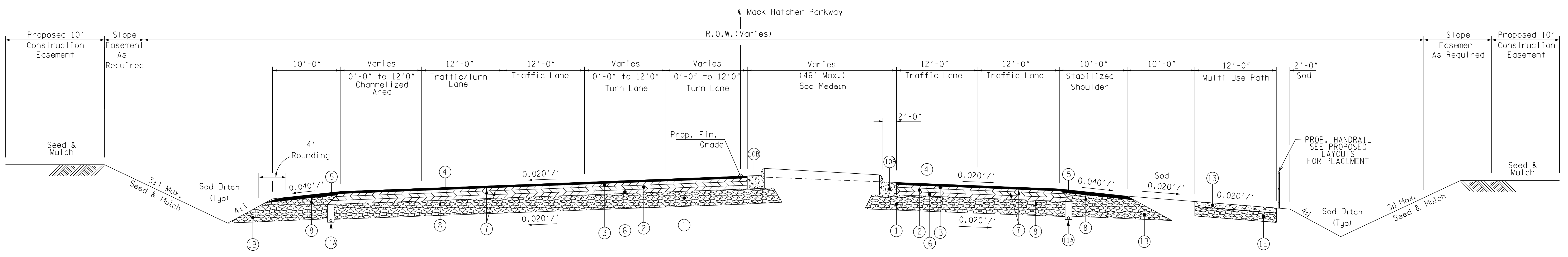
REV. 6-14-18: REVISED MULTI-USE PATH PAVEMENT DESIGN.



PAVEMENT DESIGN ALTERNATE 'A'

STA. 959+25.94 TO STA. 960+15.00 RIGHT

- * SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT
- ** SEE MEDIAN CROSSOVER TYPICAL SECTIONS SHT. 2-B5



PAVEMENT DESIGN ALTERNATE 'A'

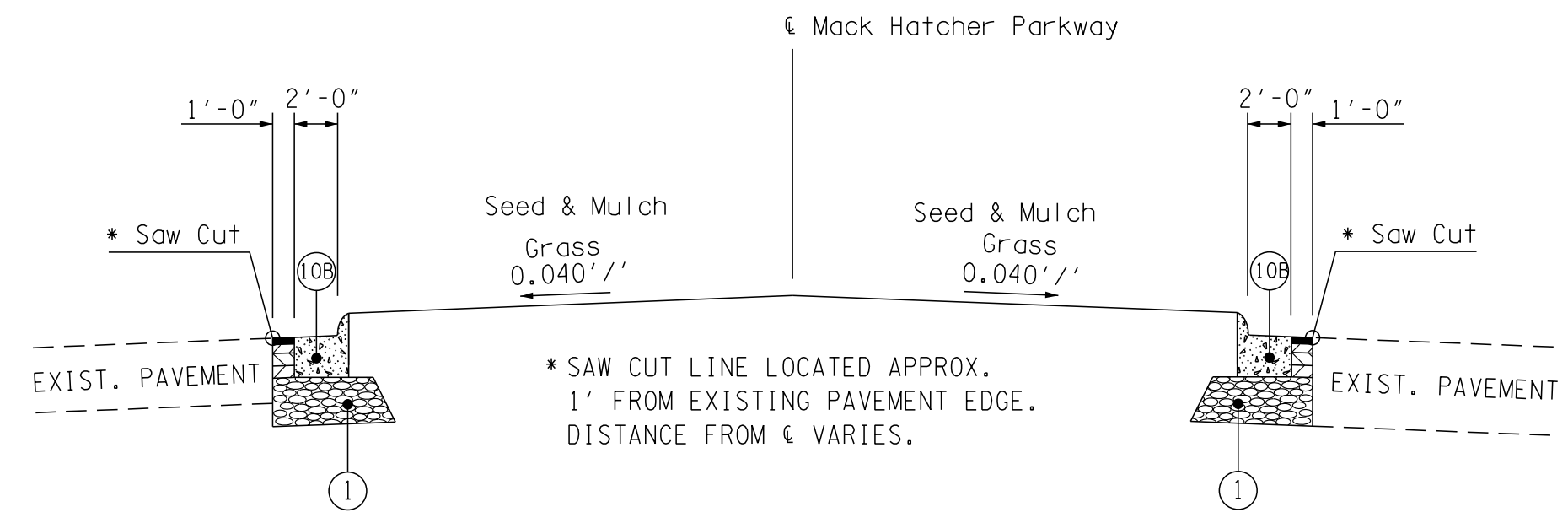
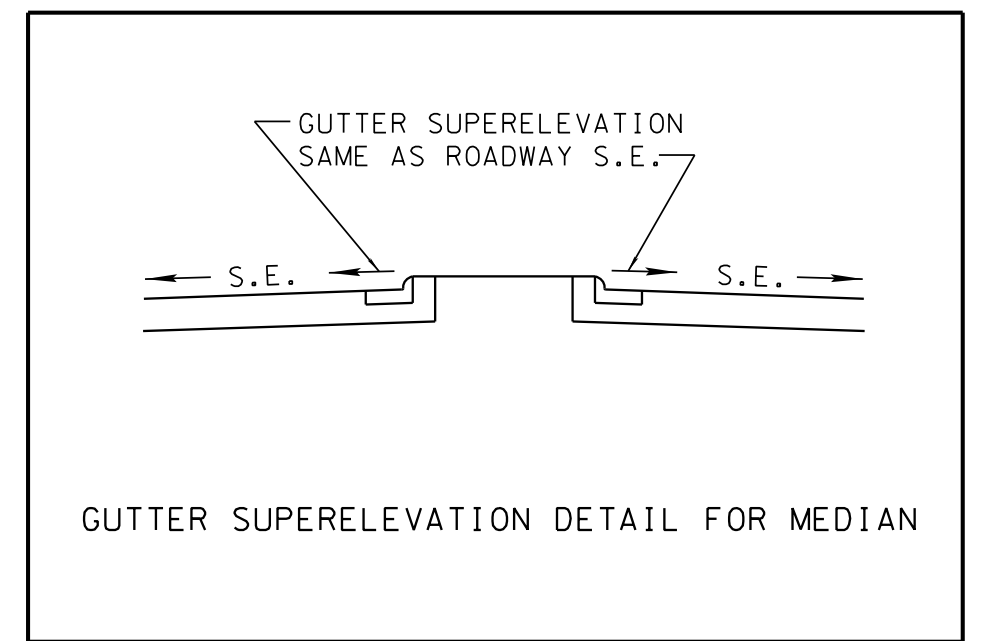
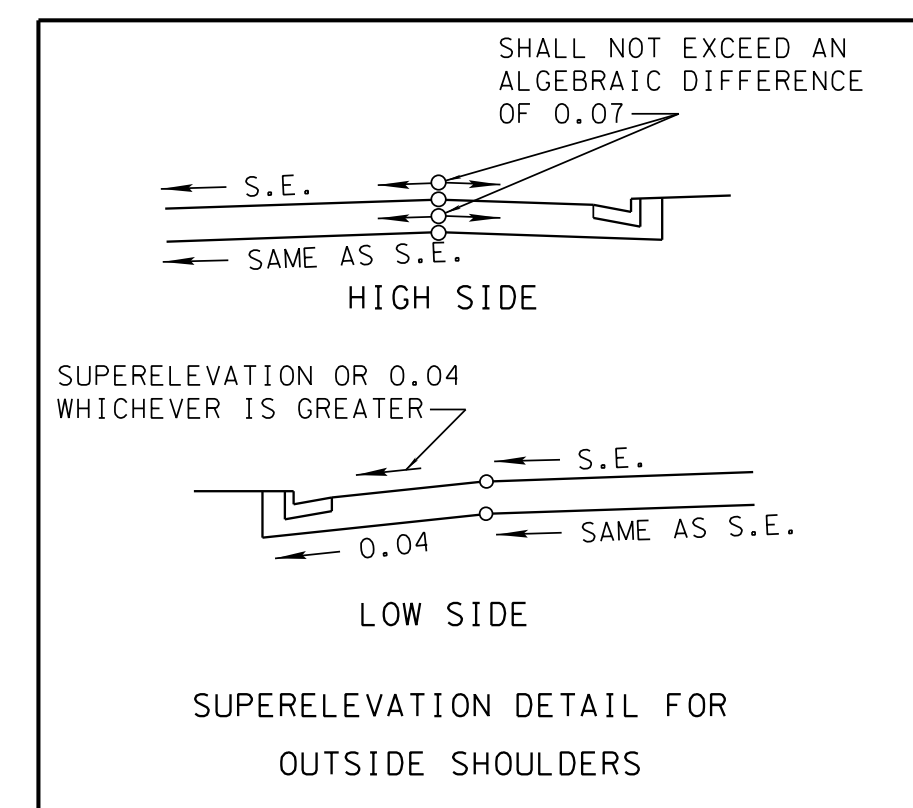
TYPICAL TANGENT SECTION

S.R. 397 (MACK HATCHER PARKWAY)
STD. DWG. RD01-TS-6 & RD-TS-8
(N.T.S.)

STA. 962+28.00 TO STA. 977+30.00 LEFT
STA. 962+25.00 TO STA. 968+30.00 RIGHT

- * SEE PROPOSED LAYOUT FOR GUARDRAIL LIMITS PLACEMENT

NOTE: SEE INSET ON SHEET 2-B FOR PAVEMENT DESIGN ALTERNATE 'B'



PAVEMENT DESIGN ALTERNATE 'A'

TYPICAL MEDIAN SECTION
S.R. 397 (MACK HATCHER PARKWAY)
(N.T.S.)

STA. 977+30.00 TO STA. 981+32.93 LEFT
STA. 968+30.00 TO STA. 981+32.93 RIGHT

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DEPARTMENT OF
TRANSPORTATION

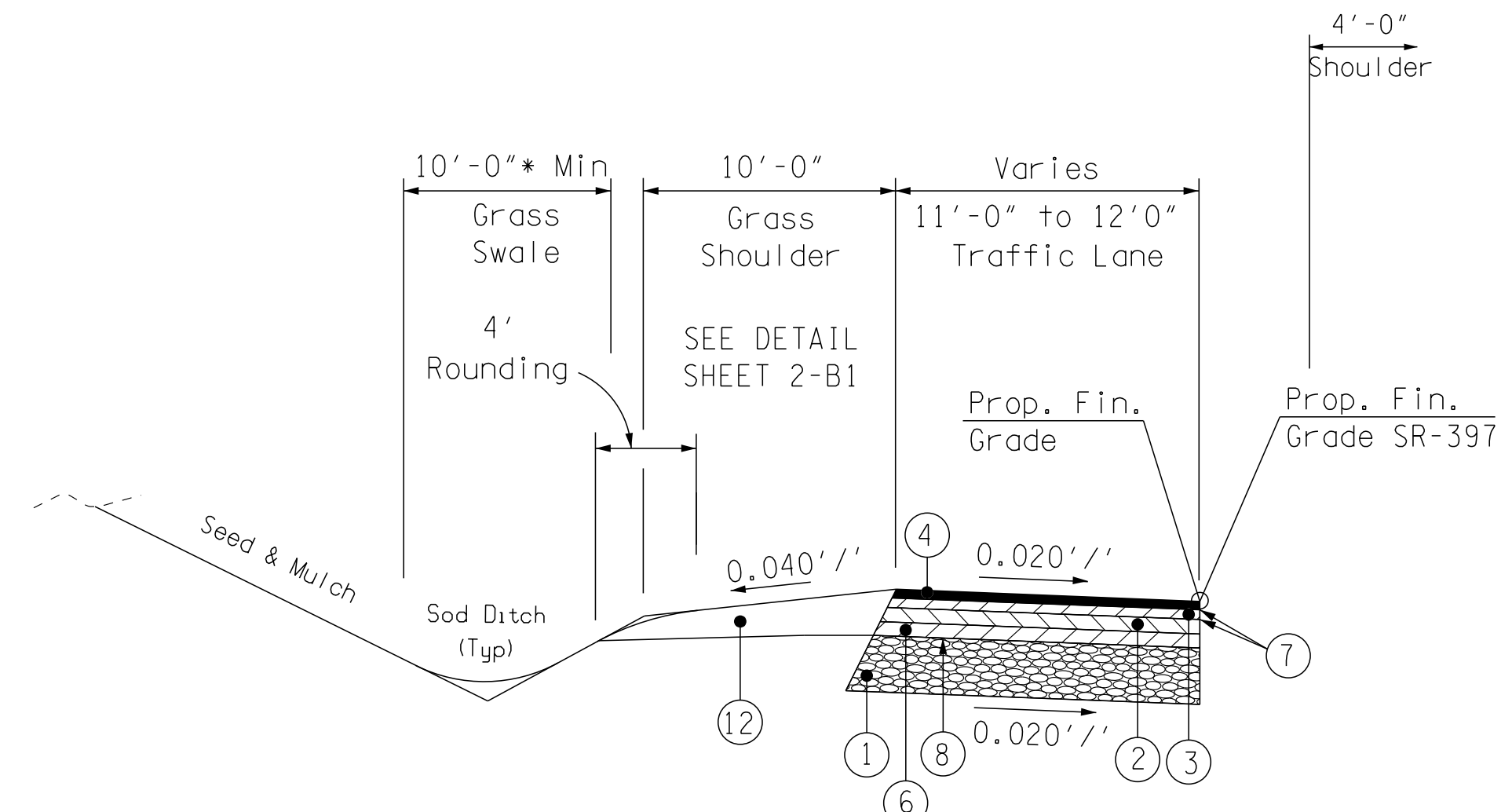
TYPICAL
SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	2-B5

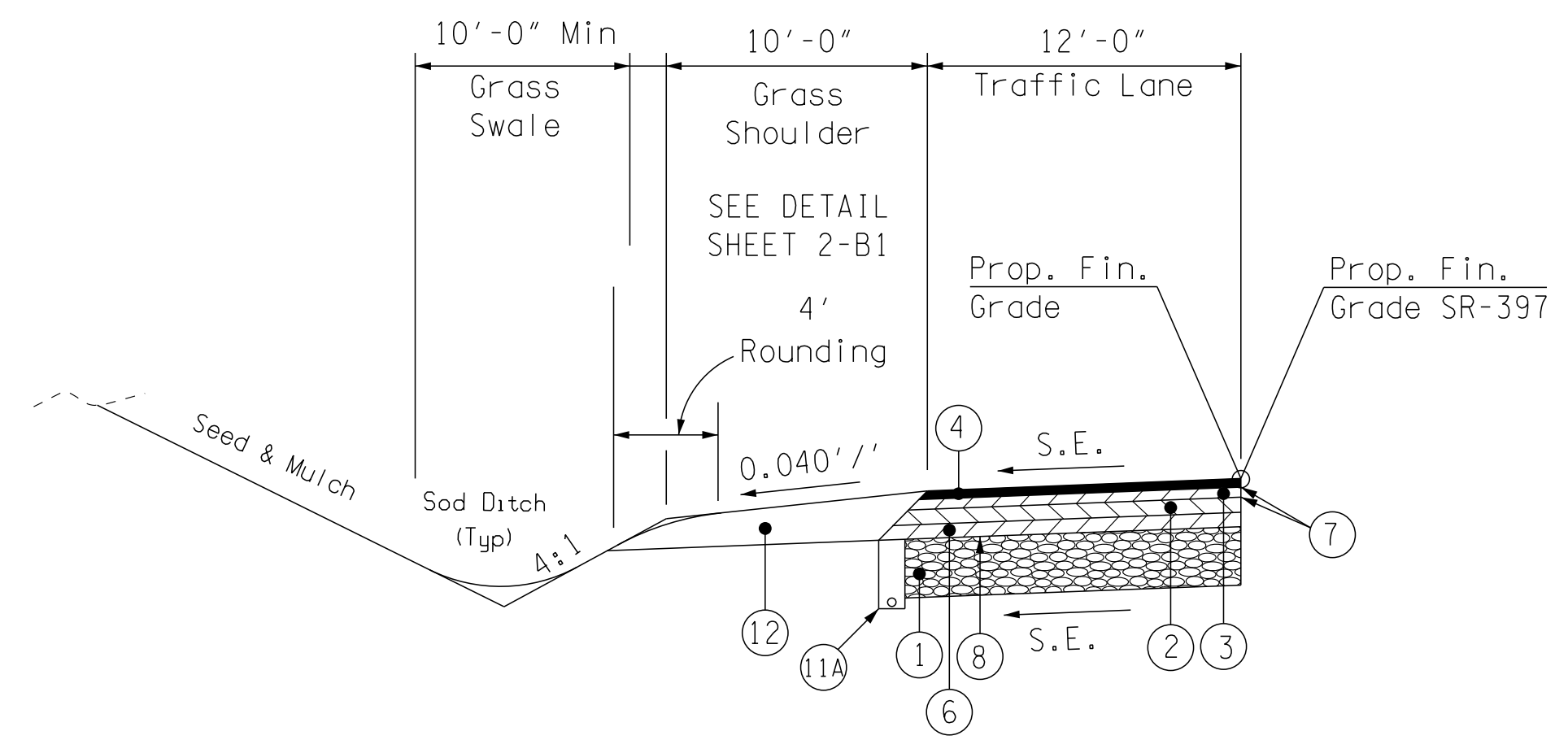
94092-3231-14

REV. 1-26-15: CHANGED TYPICAL SECTIONS FOR PHASED BUILD OUT AND ELIMINATED ROUNDABOUTS

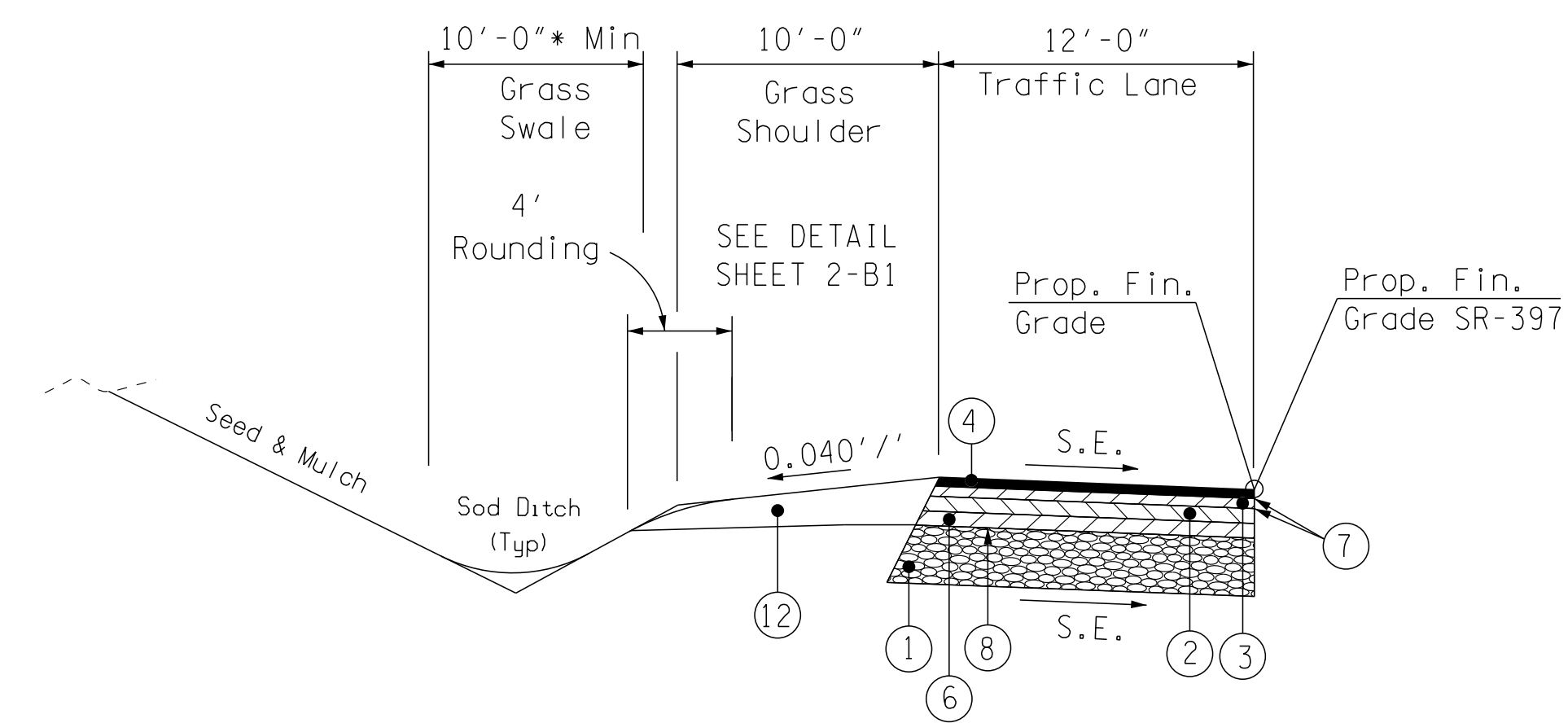


* CONSTRUCT SWALE LEFT AND RIGHT IN CUT SECTIONS AND/OR BETWEEN ROADWAY AND MULTI-USE PATH AS SHOWN IN PLANS. SEE DITCH TYPICAL SECTIONS AND PROPOSED LAYOUT FOR VARIATION IN DITCH LINING.

PAVEMENT DESIGN ALTERNATE 'A'
 S.R. 397 (MACK HATCHER PARKWAY)
 MEDIAN CROSSOVER
 STD. DWG. RD01-TS-6 & RD-TS-8
 (N.T.S.)
 STA. 849+02.86 TO STA. 853+08.02
 STA. 885+15.87 TO STA. 888+46.00
 STA. 906+10.00 TO STA. 910+15.02
 STA. 951+91.02 TO STA. 955+30.64

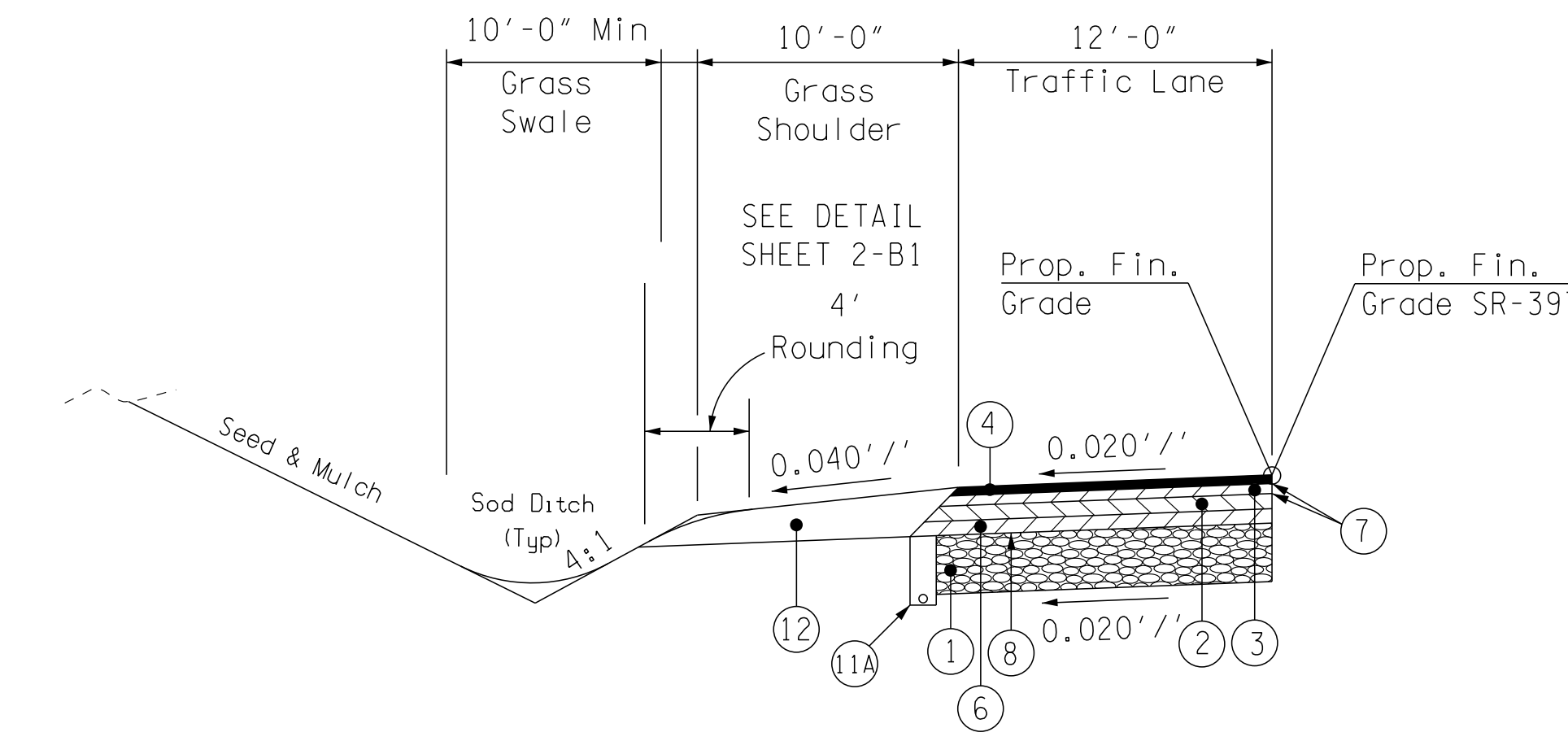


PAVEMENT DESIGN ALTERNATE 'A'
 S.R. 397 (MACK HATCHER PARKWAY)
 MEDIAN CROSSOVER
 STD. DWG. RD01-TS-6 & RD-TS-8
 (N.T.S.)
 STA. 846+76.00 TO STA. 849+02.86
 STA. 888+46.00 TO STA. 890+73.00
 STA. 903+83.00 TO STA. 906+10.00
 STA. 955+30.64 TO STA. 957+63.58



* CONSTRUCT GRASS SWALE LEFT AND RIGHT IN CUT SECTIONS AND/OR BETWEEN ROADWAY AND MULTI-USE PATH AS SHOWN IN PLANS. SEE DITCH TYPICAL SECTIONS AND PROPOSED LAYOUT FOR VARIATION IN DITCH LINING.

PAVEMENT DESIGN ALTERNATE 'A'
 S.R. 397 (MACK HATCHER PARKWAY)
 MEDIAN CROSSOVER
 STD. DWG. RD01-TS-6 & RD-TS-8
 (N.T.S.)
 STA. 844+27.00 TO STA. 846+76.00
 STA. 884+40.60 TO STA. 885+15.87
 STA. 890+73.00 TO STA. 893+22.00
 STA. 901+34.00 TO STA. 903+83.00
 STA. 957+63.58 TO STA. 959+96.52



PAVEMENT DESIGN ALTERNATE 'A'
 S.R. 397 (MACK HATCHER PARKWAY)
 MEDIAN CROSSOVER
 STD. DWG. RD01-TS-6 & RD-TS-8
 (N.T.S.)
 STA. 844+27.00 TIE IN
 STA. 893+22.00 TIE IN
 STA. 901+34.00 TIE IN
 STA. 959+96.52 TIE IN

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STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION

TYPICAL
 SECTIONS

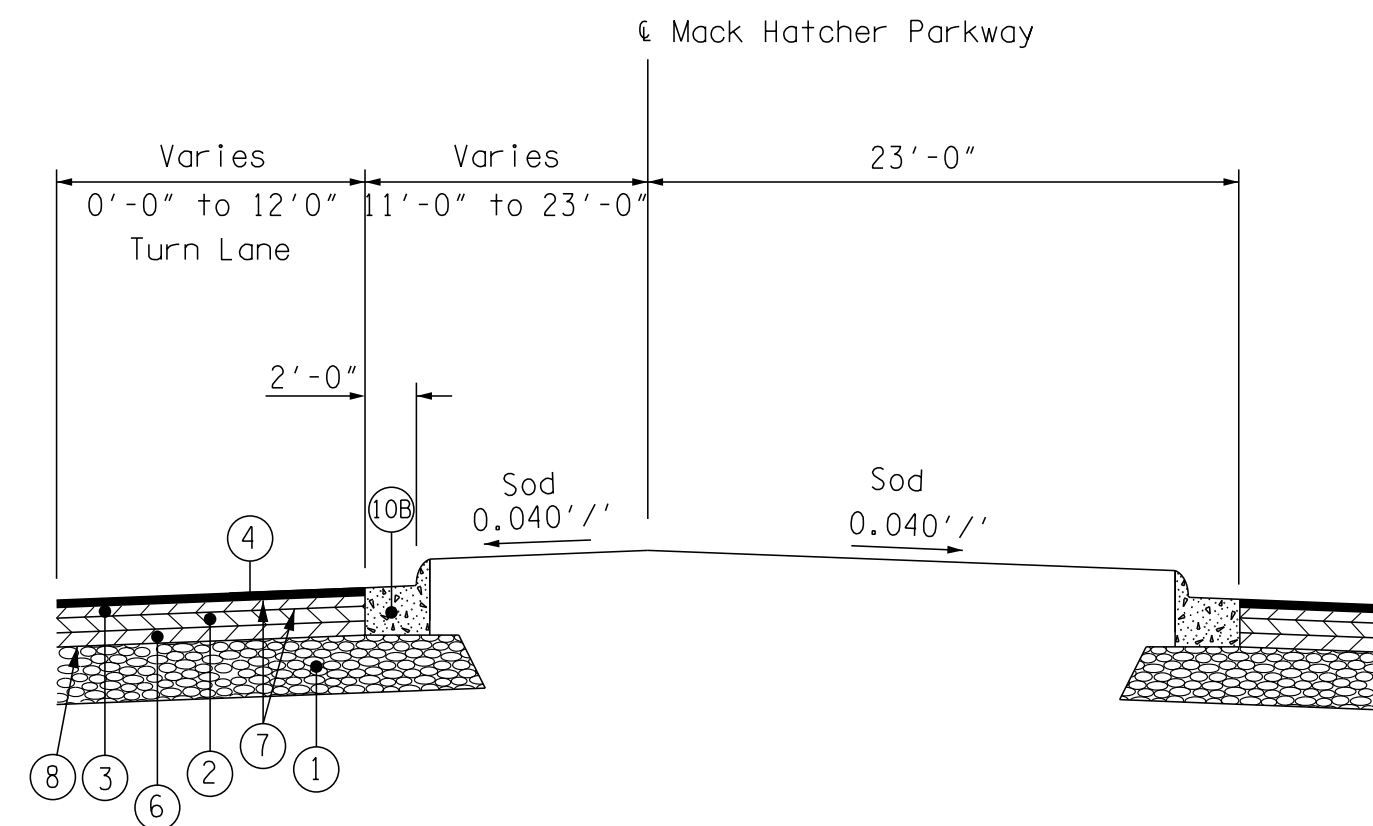
NOTES:
 - SEE INSET ON SHEET 2-B FOR PAVEMENT DESIGN ALTERNATE 'B'
 - STATIONING REFERS TO MEDIAN CROSSOVER ALIGNMENT
 - SEE PRESENT LAYOUT SHEETS FOR PROPOSED ROW

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	2-D
CONST.	2018	STP/HPP-397(10)	2-B6

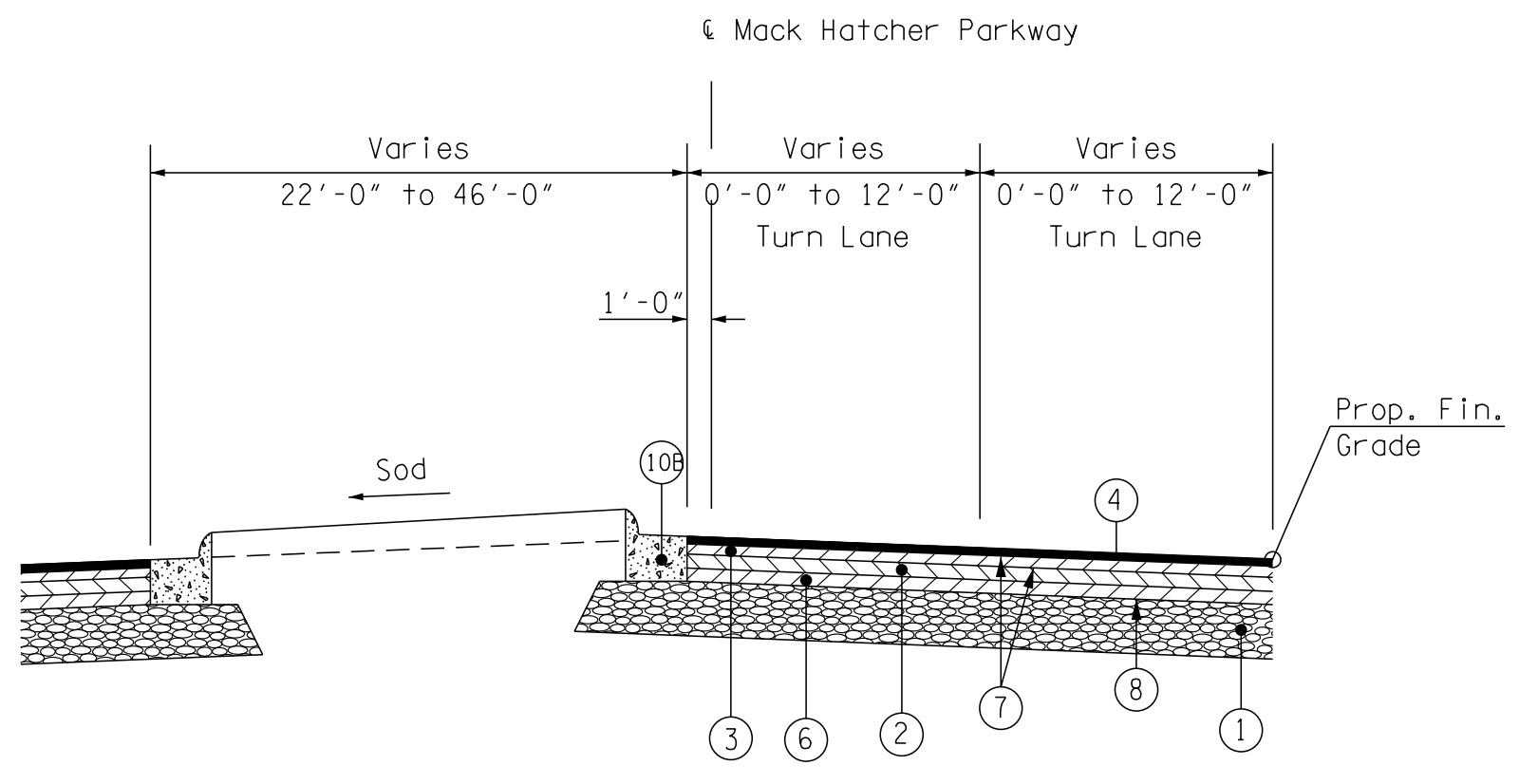
94092-1234-14

REV. 1-26-15: CHANGED TYPICAL SECTIONS FOR PHASED BUILD OUT AND ELIMINATED ROUNDABOUTS



PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL LEFT TURN LANE
(N.T.S.)
S.R. 397 (MACK HATCHER PARKWAY)

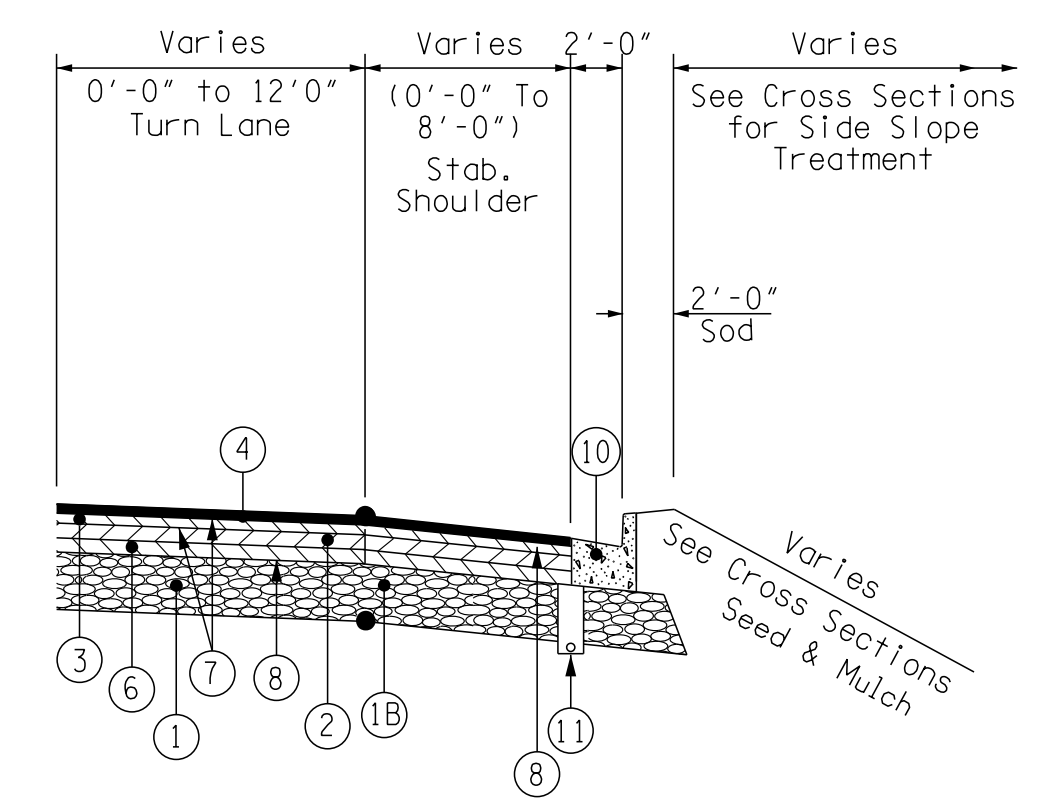
STA. 822+66.43 TO STA. 827+80.00 LEFT
STA. 835+80.50 TO STA. 840+72.00 LEFT
STA. 890+16.00 TO STA. 894+55.00 RIGHT
STA. 895+90.00 TO STA. 899+90.00 LEFT



PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL DUAL LEFT TURN LANE
(N.T.S.)
S.R. 397 (MACK HATCHER PARKWAY)

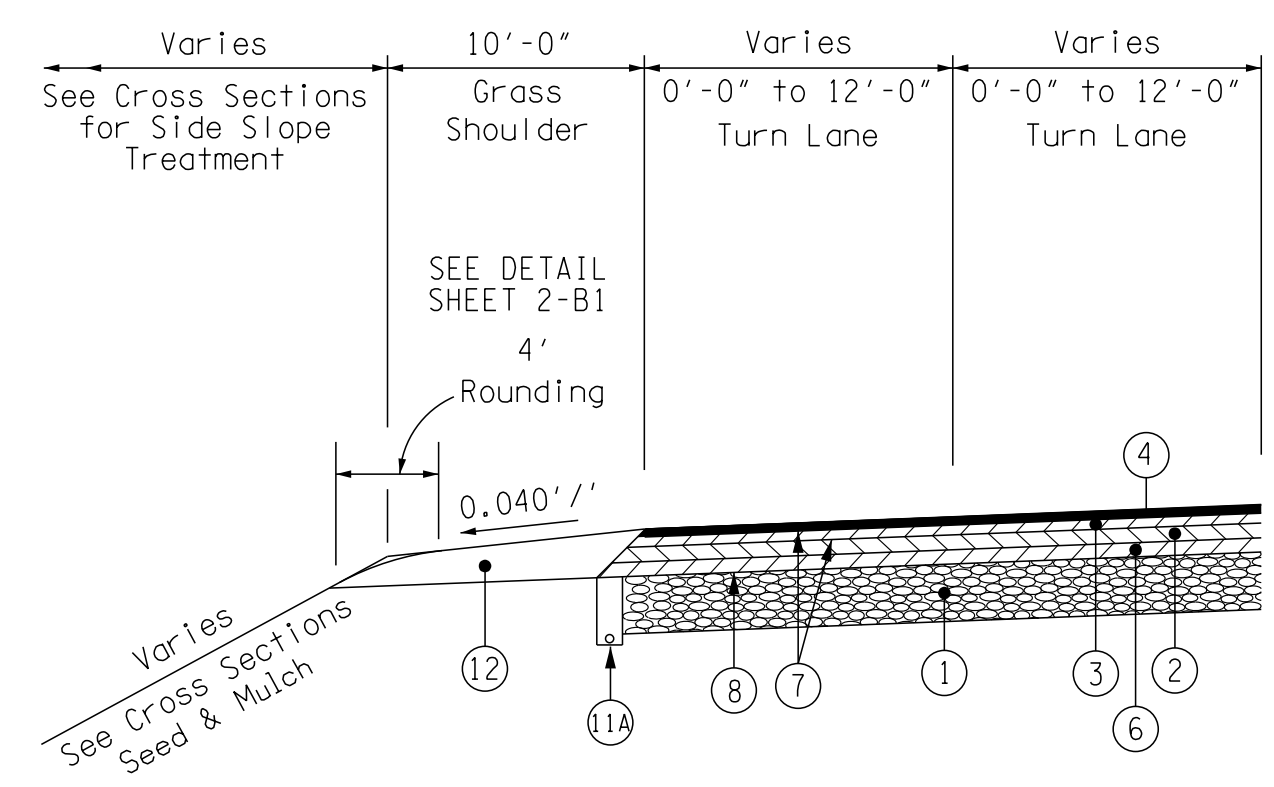
STA. 827+38.00 TO STA. 834+13.00 RIGHT

NOTE: SEE INSET ON SHEET 2-B FOR PAVEMENT DESIGN ALTERNATE 'B'



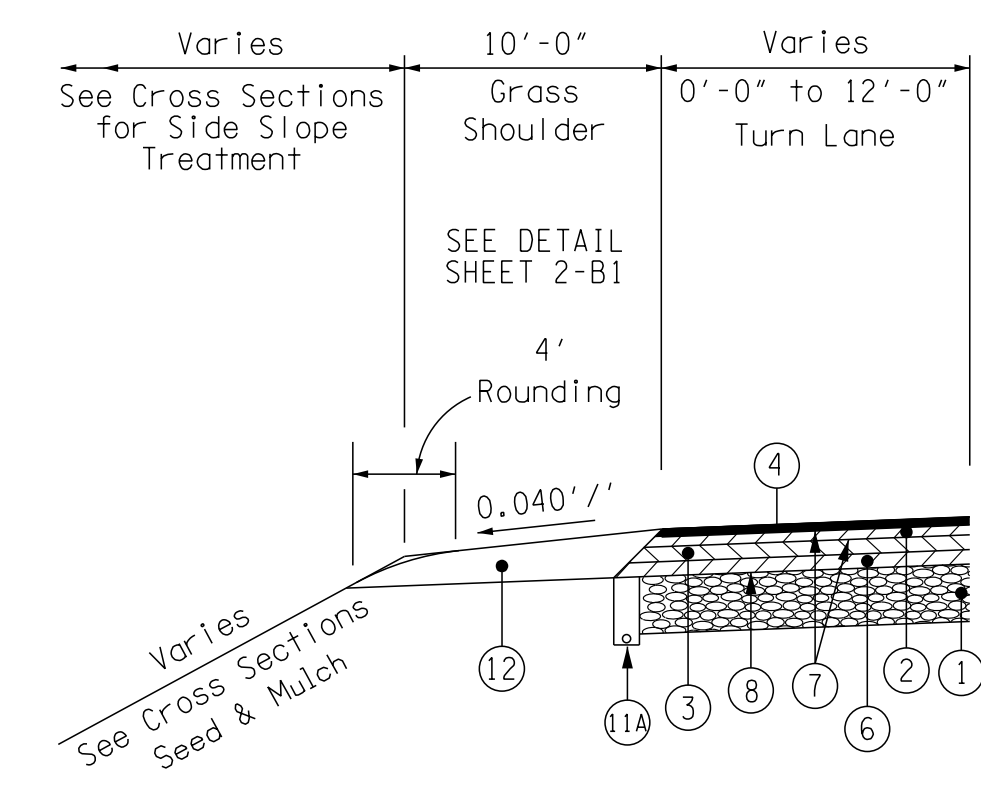
PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL RIGHT TURN LANE
WITH STABILIZED SHOULDER
(N.T.S.)
S.R. 397 (MACK HATCHER PARKWAY)

STA. 828+40.00 TO STA. 834+24.51 RIGHT



PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL DUAL RIGHT TURN LANE
WITH GRASS SHOULDER
(N.T.S.)
S.R. 397 (MACK HATCHER PARKWAY)

STA. 835+59.16 TO STA. 844+27.00 LEFT



PAVEMENT DESIGN ALTERNATE 'A'
TYPICAL RIGHT TURN LANE
WITH GRASS SHOULDER
(N.T.S.)
S.R. 397 (MACK HATCHER PARKWAY)

STA. 890+16.00 TO STA. 894+29.54 RIGHT
STA. 896+14.17 TO STA. 901+34.00 LEFT

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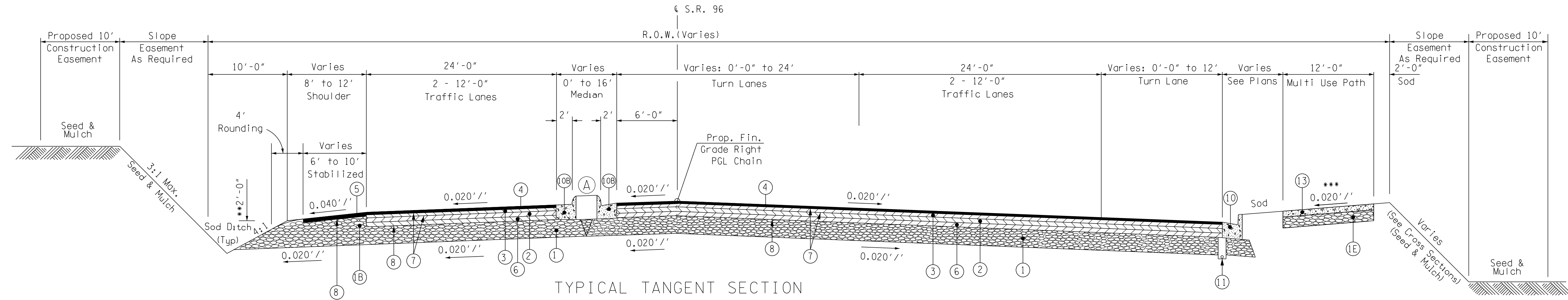
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

TYPICAL
SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	2-E
CONST.	2018	STP/HPP-397(10)	2-B7

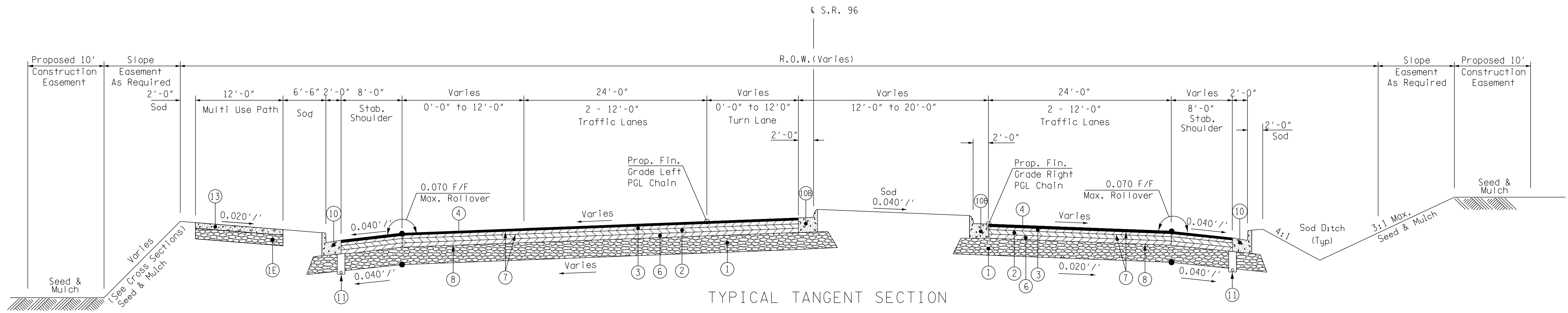
94092-3231-14

REV. 6-14-18: REVISED MULTI-USE PATH PAVEMENT DESIGN.

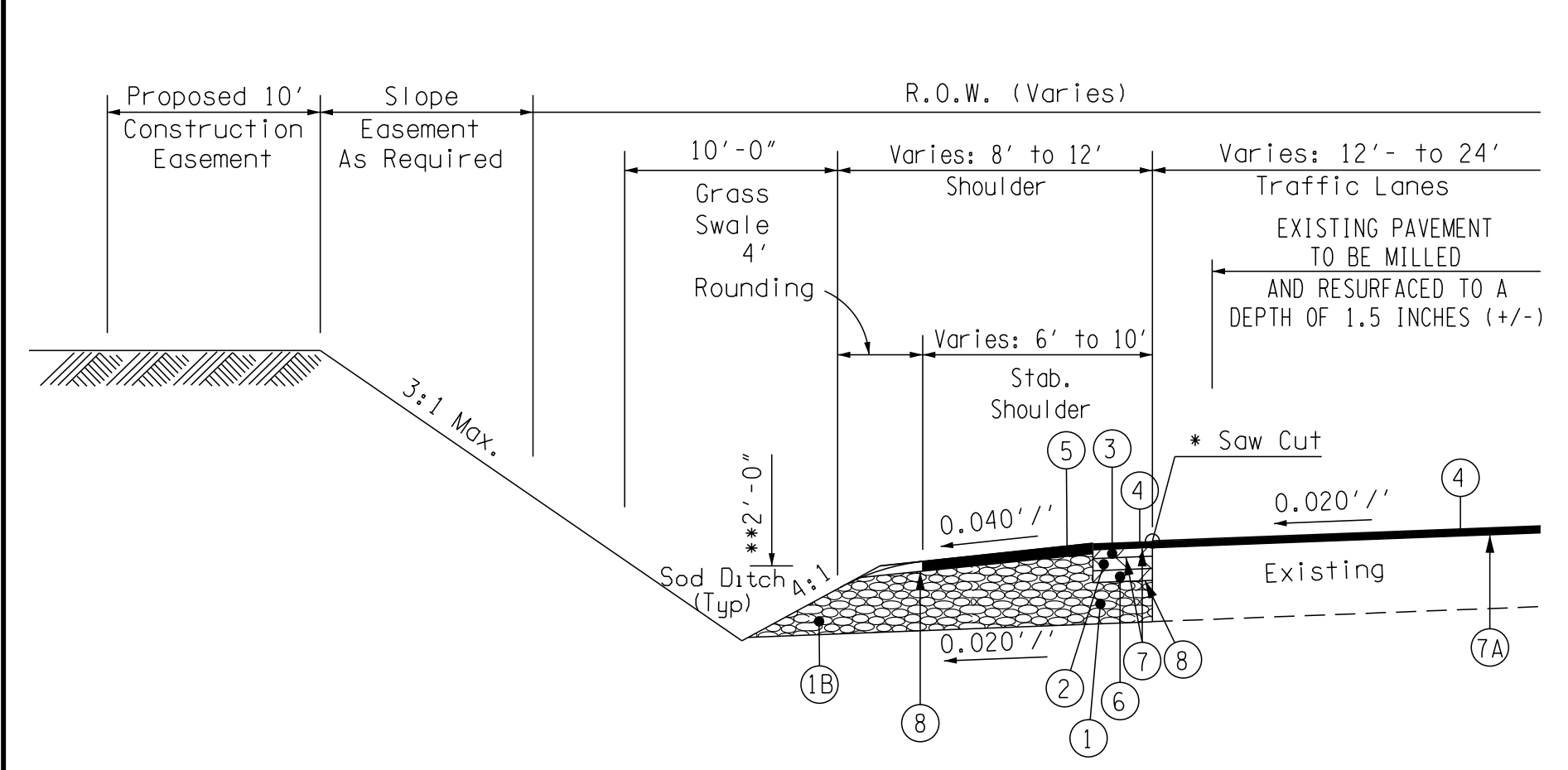


TYPICAL TANGENT SECTION
S.R. 96
STD. DWG. RD01-TS-3C &
STD. DWG. RD01-TS-6
(N.T.S.)
STA. 28+43.18 TO STA. 36+19.39

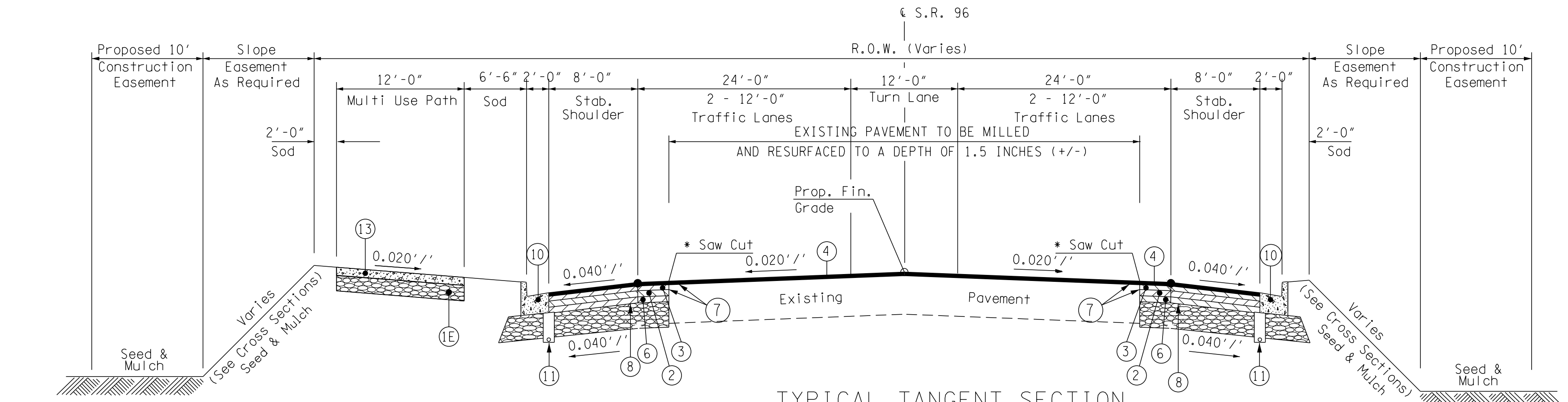
(A) RAISED MEDIANS WIDER THAN 4' SHALL BE SOD;
RAISED MEDIANS SHALL BE CONCRETE WHEN 4' WIDE



TYPICAL TANGENT SECTION
S.R. 96
STD. DWG. RD01-TS-6 & RD-TS-8
(N.T.S.)
STA. 36+19.39 TO STA. 43+99.58



TYPICAL TANGENT SECTION
S.R. 96
(N.T.S.)
STA. 17+98.84 TO STA. 28+43.18



TYPICAL TANGENT SECTION
S.R. 96
STD. DWG. RD01-TS-3C &
STD. DWG. RD01-TS-6
(N.T.S.)
STA. 17+98.84 TO STA. 28+43.18
STA. 43+99.58 TO STA. 49+33.17

* SAW CUT LINE LOCATED APPROX. 1' FROM EXISTING PAVEMENT EDGE. DISTANCE FROM ϵ VARIES.
** SEE CROSS SECTIONS FOR SPECIAL DITCH LOCATIONS AND ELEVATIONS

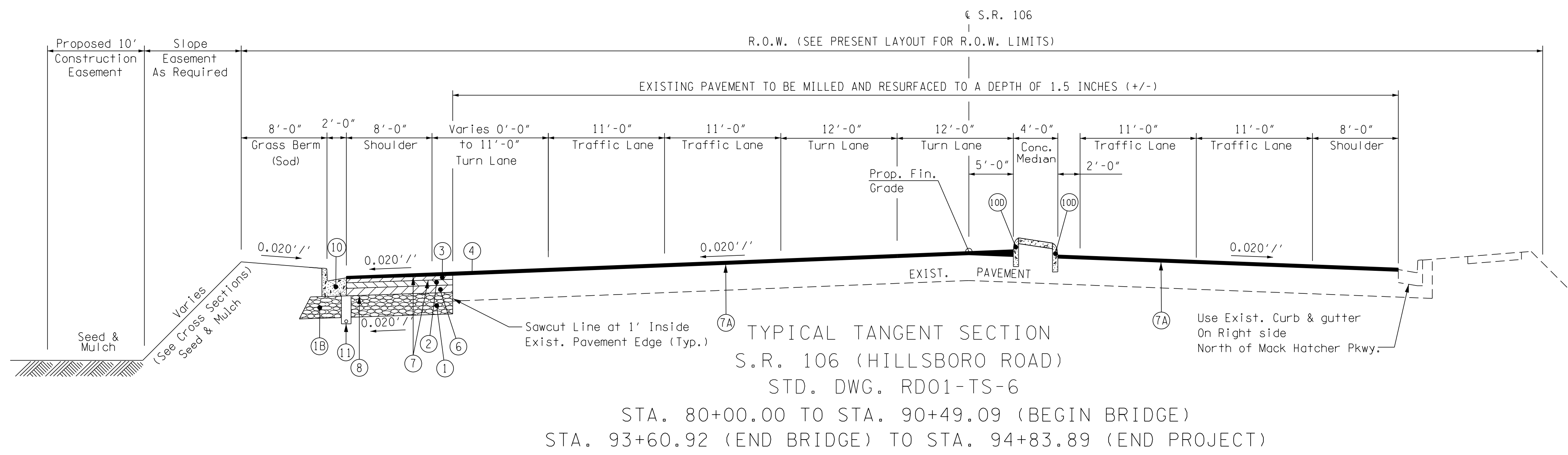
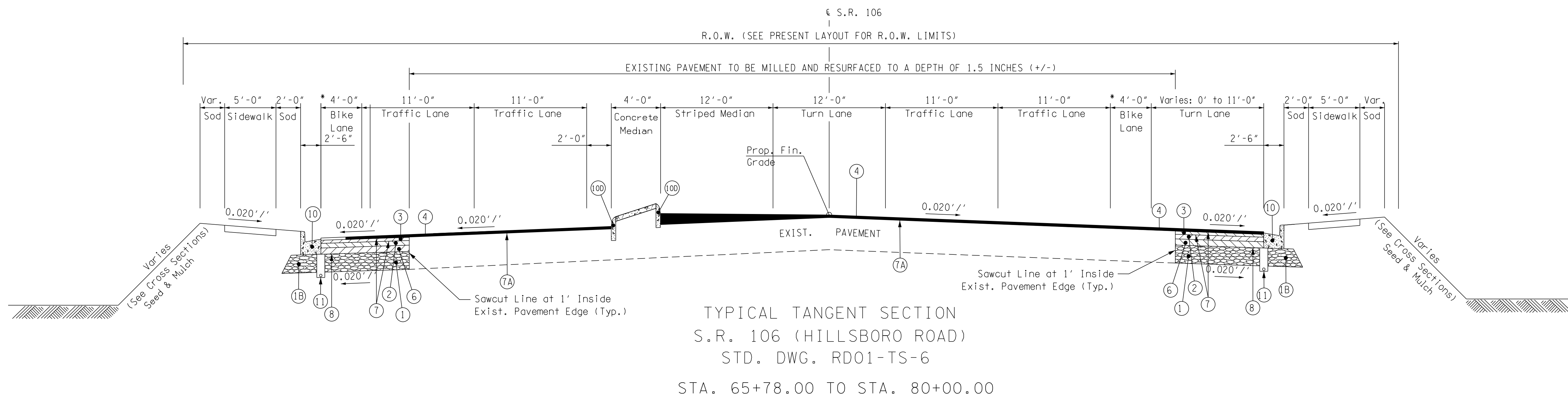
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STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

TYPICAL
SECTIONS

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	2-F
CONST.	2018	STP/HPP-397(10)	2-B8

94092-3231-14
REV. 2-11-15: ADDED MEDIAN ISLANDS



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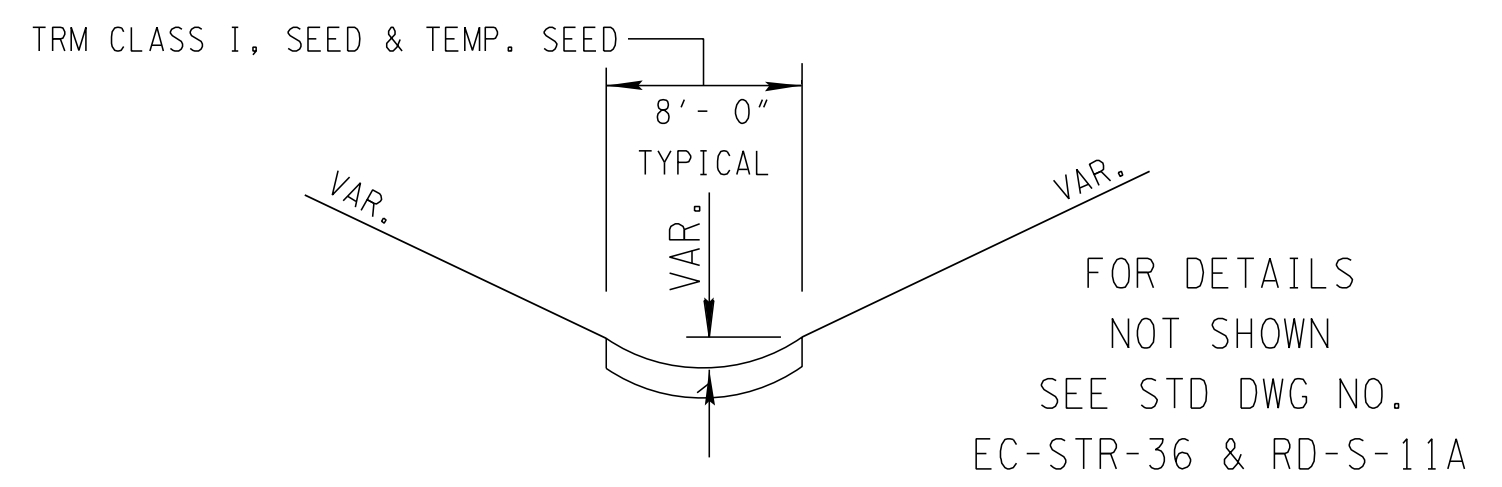
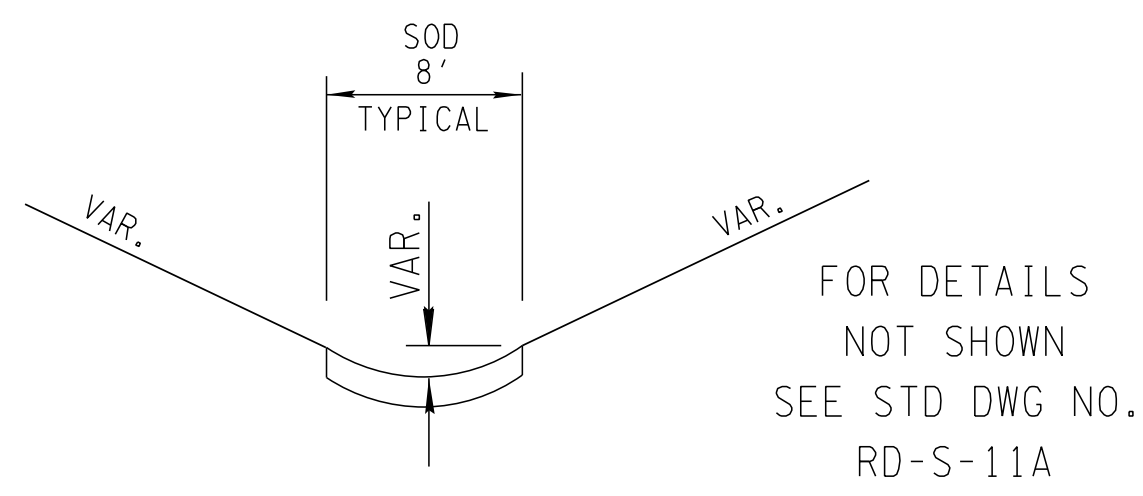
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

TYPICAL
SECTIONS

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	2-B10

94092-3231-14



TYPICAL "V" SODDED DITCH (V-SOD)			
ROAD NAME	FROM STA.	TO STA.	LT/RT
MACK HATCHER PKWY	827+00	832+00	LT
MACK HATCHER PKWY	832+00	832+50	RT
SR 96	19+28	24+50	LT
SR 96	27+00	32+50	LT
MACK HATCHER PKWY	838+00	847+00	RT
MACK HATCHER PKWY	848+00	851+00	RT
MACK HATCHER PKWY	848+50	860+50	RT
MACK HATCHER PKWY	853+00	861+00	RT
MACK HATCHER PKWY	861+00	866+50	RT
MACK HATCHER PKWY	861+00	887+00	LT
MACK HATCHER PKWY	887+50	866+50	RT
MACK HATCHER PKWY	891+00	891+50	RT
DEL RIO PIKE	41+60	44+00	LT
DEL RIO PIKE	41+60	55+00	RT
DEL RIO PIKE	53+00	59+75	LT
DEL RIO PIKE	56+50	59+75	RT
MACK HATCHER PKWY	896+50	897+50	LT
MACK HATCHER PKWY	898+50	901+50	RT
MACK HATCHER PKWY	896+50	920+00	RT
MACK HATCHER PKWY	901+50	904+00	LT
MACK HATCHER PKWY	905+00	908+50	RT
MACK HATCHER PKWY	910+00	922+00	RT
MACK HATCHER PKWY	914+50	921+00	LT
MACK HATCHER PKWY	952+00	956+00	RT/LT
MACK HATCHER PKWY	957+50	960+50	RT
MACK HATCHER PKWY	962+00	977+30	LT
MACK HATCHER PKWY	962+00	973+50	RT
HILLSBORO ROAD	83+00	84+50	LT
HILLSBORO ROAD	86+00	87+50	0

TYPICAL "V" DITCH WITH TURF WITH REINFORCEMENT MAT (CLASS I) (V-TRM I)			
ROAD NAME	FROM STA.	TO STA.	LT/RT
SR 96	45+00	49+33	LT
MACK HATCHER PKWY	837+00	838+00	RT
MACK HATCHER PKWY	861+50	873+00	RT
MACK HATCHER PKWY	893+50	894+00	RT

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**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**TYPICAL
SECTIONS**
S.R. 397
(MACK HATCHER PARKWAY)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	2-C1

94092-3231-14

SIGNING

- (1) THE TOP OF THE SIGN FOOTINGS SHALL BE PLACED LEVEL WITH THE GROUND LINE.
- (2) 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.
- (3) THE EXISTING FOOTINGS ARE TO BE REMOVED 6 INCHES BELOW GROUND LINE.
- (4) 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.
- (5) 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.

SIGNALIZATION

- (1) EQUIPMENT AND INSTALLATION OF TRAFFIC SIGNALS SHALL COMPLY WITH TDOT STANDARD SPECIFICATIONS, SECTION 730.
- (2) SALVAGEABLE EQUIPMENT SHALL BECOME THE PROPERTY OF THE CITY OF FRANKLIN AND SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE ENGINEER FOR PICKUP BY THE CITY.
- (3) IF RESURFACING IS INCLUDED IN THE PROJECT, SIGNAL DETECTION LOOPS SHALL BE INSTALLED BEFORE THE FINAL SURFACE IS APPLIED.
- (4) ANY SIGNAL HEADS, WHEN VISIBLE TO DRIVERS BUT NOT OPERATIONAL, SHALL BE COMPLETELY COVERED.
- (5) AN ADVANCE FLASH OPERATION PERIOD IS REQUIRED TO MAKE MOTORISTS AWARE OF THE PRESENCE OF NEW SIGNAL HEADS. NEW SIGNAL HEADS SHALL BE PUT IN FLASH OPERATION FOR MINIMUM OF SEVEN (7) CALENDAR DAYS UP TO FOURTEEN (14) CALENDAR DAYS PRIOR TO ACTIVATION OF NORMAL TRAFFIC SIGNAL OPERATION. OTHER FLASH OPERATION TIME PERIODS MAY BE CONSIDERED UPON WRITTEN APPROVAL FROM THE REGIONAL TRAFFIC ENGINEER.
- (6) THE CONTRACTOR SHALL CONTACT CITY OF FRANKLIN ENGINEERING (615.791-3218) A MINIMUM OF THIRTY (30) DAYS PRIOR TO ACTIVATION OF THE SIGNAL TO OBTAIN THE INITIAL SIGNAL TIMINGS.
- (7) 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.
- (8) LOOPS SHALL BE INSTALLED IN THE LEVELING COURSE IF A LEVELING COURSE IS PROVIDED.
- (9) LOOP REPLACEMENT SHALL BE IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.

CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- (3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- (4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.

- (5) USE OF BARRICADES, PORTABLE BARRIER RAILS, 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.
- (6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- (7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- (8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED AND THE VERTICAL PANELS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.

LIGHTING

- (1) 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.
- (2) ALL WIRING SHALL BE CONCEALED UNDERGROUND IN 2-INCH SCHEDULE 40 PVC RIGID CONDUIT.
- (3) THE GROUND WIRE SHALL BE RUN INSIDE CONDUIT WITHIN STRUCTURES, SHALL BE COLORED GREEN AND HAVE THW INSULATION.
- (4) EXISTING FOUNDATIONS TO BE REMOVED A MINIMUM OF SIX INCHES BELOW GRADE.
- (5) ALL INCIDENTAL EQUIPMENT AND MATERIAL REQUIRED FOR THE SUCCESSFUL EXECUTION OF THIS WORK SHALL BE FURNISHED IN 714 ITEMS WHETHER SPECIFICALLY NOTED OR NOT.
- (6) LIGHT STANDARDS SHALL BE ROUND TAPERED POLES. LENGTH SHALL BE DETERMINED BY REQUIRED MOUNTING HEIGHT.
- (7) 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.
- (8) STANDARDS SHALL BE DESIGNED FOR 80-MPH WIND PRESSURE AND SHALL SUPPORT A 62-POUND LUMINAIRE ON A 15-FOOT ARM.
- (9) 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.
- (10) BRACKET ARMS SHALL BE ROUND TAPERED TRUSS TYPE WITH STRAP MOUNTING AND LENGTHS AS SCHEDULED.

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

EROSION PREVENTION AND SEDIMENT CONTROL

NATURAL RESOURCES

- (1) 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.
- (2) 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.
- (3) INSTREAM EPSC DEVICES REQUIRE THE TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION REVIEW AND MUST BE PROCESSED BY THE PERMITS SECTION TO OBTAIN WATER QUALITY PERMITS.
- (4) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS AND EPHEMERAL, INTERMITTENT, AND PERENNIAL STREAMS, IS NOT ALLOWED.
- (5) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING, NOT TO EXCEED THE WIDTH SPECIFIED IN THE STANDARD DRAWING.
- (6) STREAM BEDS SHALL NOT BE USED AS TRANSPORTATION ROUTES FOR CONSTRUCTION EQUIPMENT. TEMPORARY CULVERT CROSSINGS SHALL BE LIMITED TO ONE POINT PER STREAM AND EPSC MEASURES SHALL BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK SHALL BE USED AT THE CROSSING POINT AND 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.
- (7) HEAVY EQUIPMENT WORKING IN WETLANDS WITH PERMITTED TEMPORARY IMPACTS SHALL BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE AND COMPACTION 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.
- (8) WETLANDS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS SPECIFICALLY PROVIDED FOR IN THE CONSTRUCTION PLANS AND PERMITS.
- (9) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS PRIOR TO ANY CONSTRUCTION AND MAINTENANCE ACTIVITIES TO ENSURE THAT ENVIRONMENTAL FEATURES (E.G., STREAMS, WETLANDS, SPRINGS, ETC.) ARE NOT IMPACTED BEYOND PERMITTED LOCATIONS. IF THE CONTRACTOR OR TDOT INSPECTOR IS UNSURE OF THE IDENTITY OF AN ENVIRONMENTAL FEATURE, THE INSPECTOR SHALL CONTACT THE TDOT REGION ENVIRONMENTAL TECH GROUP IMMEDIATELY.

SPECIES

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

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**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

GENERAL NOTES

S.R. 397
(MACK HATCHER PARKWAY)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	2-C2

94092-3231-14

(1) 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).

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

INSPECTION, MAINTENANCE & REPAIR

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

PERMITS, PLANS & RECORDS

(4) 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).

(5) 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.

(6) 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.

(7) 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.

(8) 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

(9) 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.

(10) 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.

(11) 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.

(12) 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.

(13) 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.

(14) 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.

(15) 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.

(16) 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.

(17) 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.

(18) 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.

(19) 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.

(20) 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

(21) 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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GENERAL NOTES

S.R. 397
(MACK HATCHER PARKWAY)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	2-D

94092-3231-14

SPECIAL NOTES

- (1) CONTRACTOR TO PROVIDE AND MAINTAIN WAVETRONIX DETECTION AT SIGNALIZED LOCATIONS DURING CONSTRUCTION. WAVETRONIX SHALL BE TURNED OVER TO THE CITY OF FRANKLIN AT THE COMPLETION OF THE JOB.
- (2) CONTRACTOR SHALL COORDINATE WITH CITY OF FRANKLIN ENGINEERING AND TDOT REGION 3 CONSTRUCTION PRIOR TO CLOSING OR SHIFTING TRAFFIC ON S.R. 96 AND S.R.106.
- (3) CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL AT LEAST 7 DAYS IN ADVANCE OF REQUESTED LANE CLOSURES OR LANE SHIFTS ON S.R. 96 AND S.R. 106.

EROSION PREVENTION AND SEDIMENT CONTROL

ENVIRONMENTAL

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

ECOLOGY

- (2) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ADVISE THE CONTRACTOR DURING THE PRE-CONSTRUCTION MEETING WHEN ENVIRONMENTAL DIVISION PERSONNEL OR A DESIGNATED CONSULTANT WILL NEED TO BE ONSITE FOR WORK BEING DONE WHICH COULD AFFECT WATERS OF THE STATE/U.S. OR SPECIES.
- (3) STAFF FROM THE TDOT ENVIRONMENTAL DIVISION OR A DESIGNEE SHALL ATTEND THE PRE-CONSTRUCTION MEETING FOR ALL PROJECTS WHICH HAVE THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT PROXIMAL TO SCHEDULED WORK. THIS WILL PROVIDE THE OPPORTUNITY TO ENSURE THAT PERSONNEL INCLUDING THE CONTRACTOR'S PERSONNEL AND SUBCONTRACTORS ARE MADE AWARE OF THE NECESSARY PRECAUTIONS THAT MUST BE FOLLOWED.
- (4) ALL PROJECTS WITH LEGALLY PROTECTED SPECIES OR CRITICAL HABITAT IDENTIFIED SHALL HAVE MEASURES IN PLACE TO CONTAIN CONCRETE DUST, CEMENT DUST AND ALL OTHER MATERIALS. THESE MATERIALS ARE NOT ALLOWED TO ENTER WATERS OF THE STATE/U.S.

PROJECT COMMITMENTS

- (5) SEE PROJECT COMMITMENTS, SHEET 1-E, FOR DERTAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

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SPECIAL NOTES

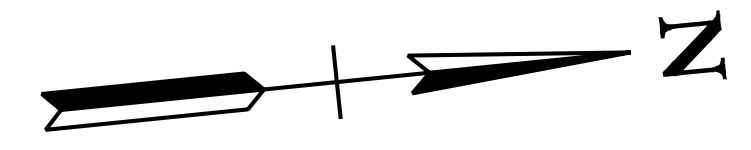
S.R. 397
(MACK HATCHER PARKWAY)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	45
CONST.	2018	STP/HPP-397(10)	36

94092-1224-14

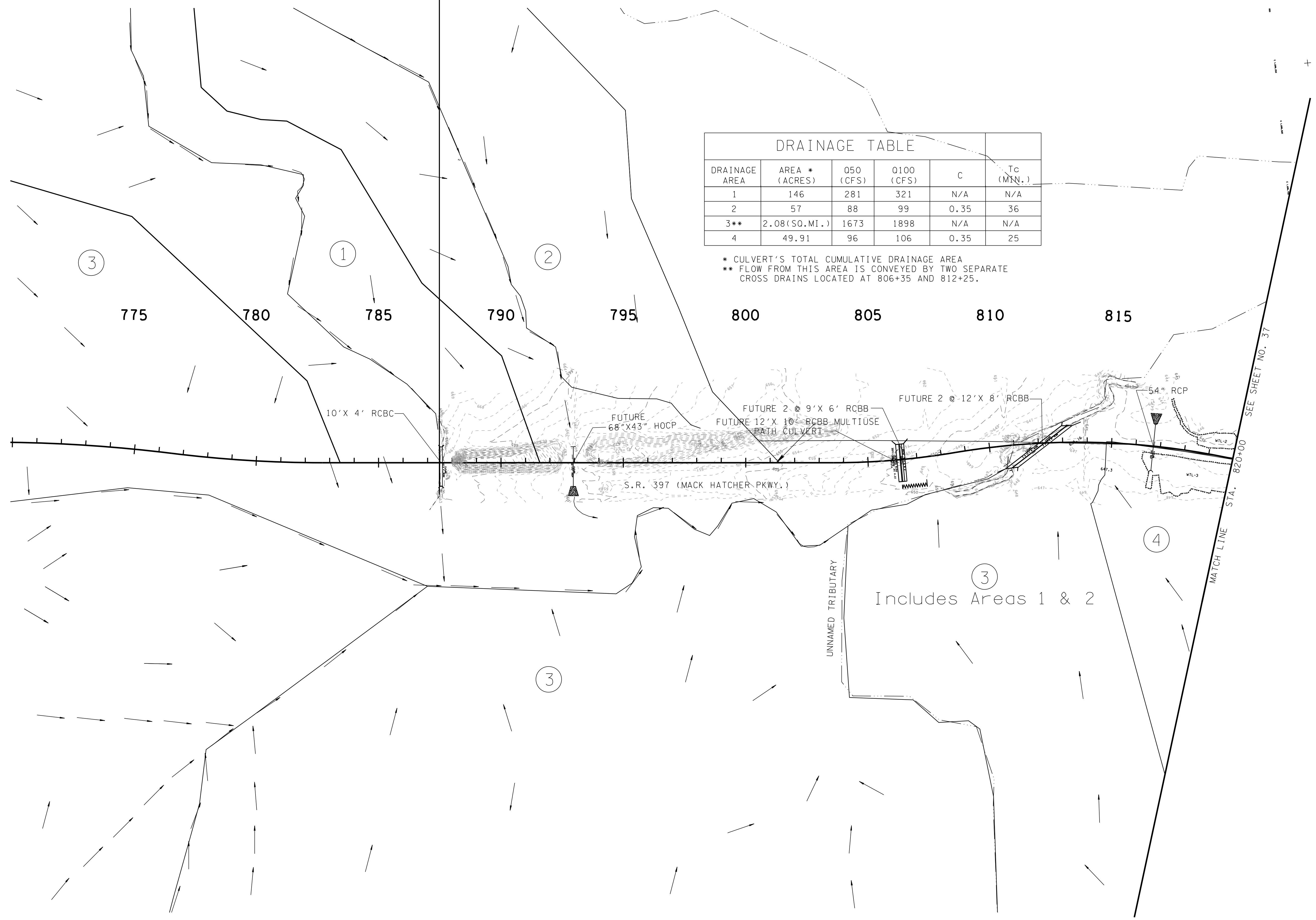
REV. 6-14-18: UPDATED ENVIRONMENTAL FEATURES.

BEGIN PROJECT (R.O.W.) STA. 787+50.71 @ MACK HATCHER PKWY.



DRAINAGE AREA	AREA * (ACRES)	Q50 (CFS)	Q100 (CFS)	C	Tc (MIN.)
1	146	281	321	N/A	N/A
2	57	88	99	0.35	36
3**	2.08(SQ.MI.)	1673	1898	N/A	N/A
4	49.91	96	106	0.35	25

* CULVERT'S TOTAL CUMULATIVE DRAINAGE AREA
 ** FLOW FROM THIS AREA IS CONVEYED BY TWO SEPARATE CROSS DRAINS LOCATED AT 806+35 AND 812+25.



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 DEPARTMENT OF TRANSPORTATION

DRAINAGE MAP
 BEGIN PROJECT TO STA. 820+00
 SCALE: 1"=200'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	45-A
CONST.	2018	STP/HPP-397(10)	37

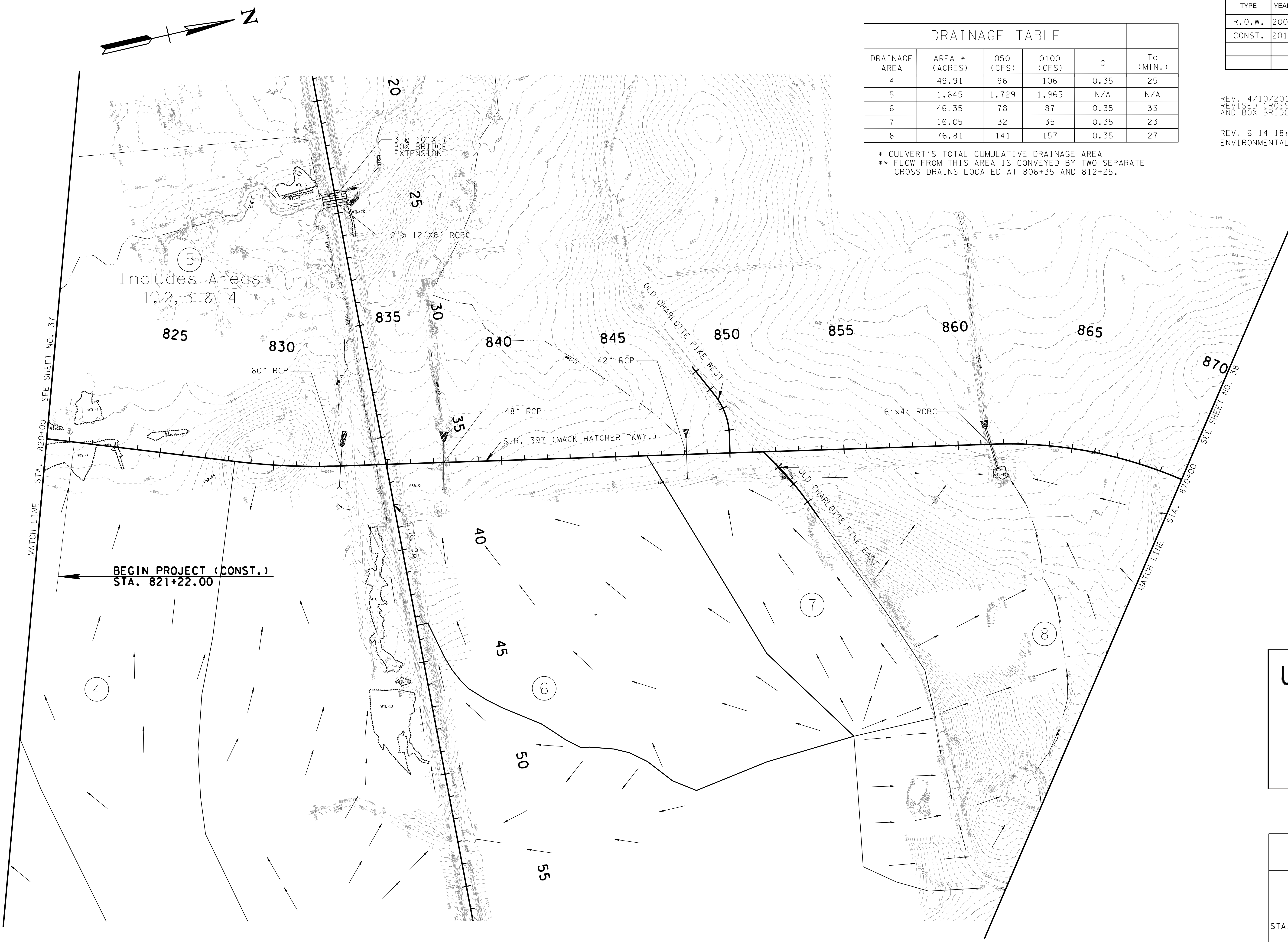
94092-1224-14

REV. 4/10/2015:
REVISED CROSS DRAIN AT STA. 832+94
AND BOX BRIDGE AT SR-96 STA. 24+26.

REV. 6-14-18: UPDATED
ENVIRONMENTAL FEATURES.

DRAINAGE AREA	AREA * (ACRES)	Q50 (CFS)	Q100 (CFS)	C	Tc (MIN.)
4	49.91	96	106	0.35	25
5	1,645	1,729	1,965	N/A	N/A
6	46.35	78	87	0.35	33
7	16.05	32	35	0.35	23
8	76.81	141	157	0.35	27

* CULVERT'S TOTAL CUMULATIVE DRAINAGE AREA
** FLOW FROM THIS AREA IS CONVEYED BY TWO SEPARATE CROSS DRAINS LOCATED AT 806+35 AND 812+25.



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**DRAINAGE
MAP**

STA. 820+00 TO STA. 870+00

SCALE: 1"=200'

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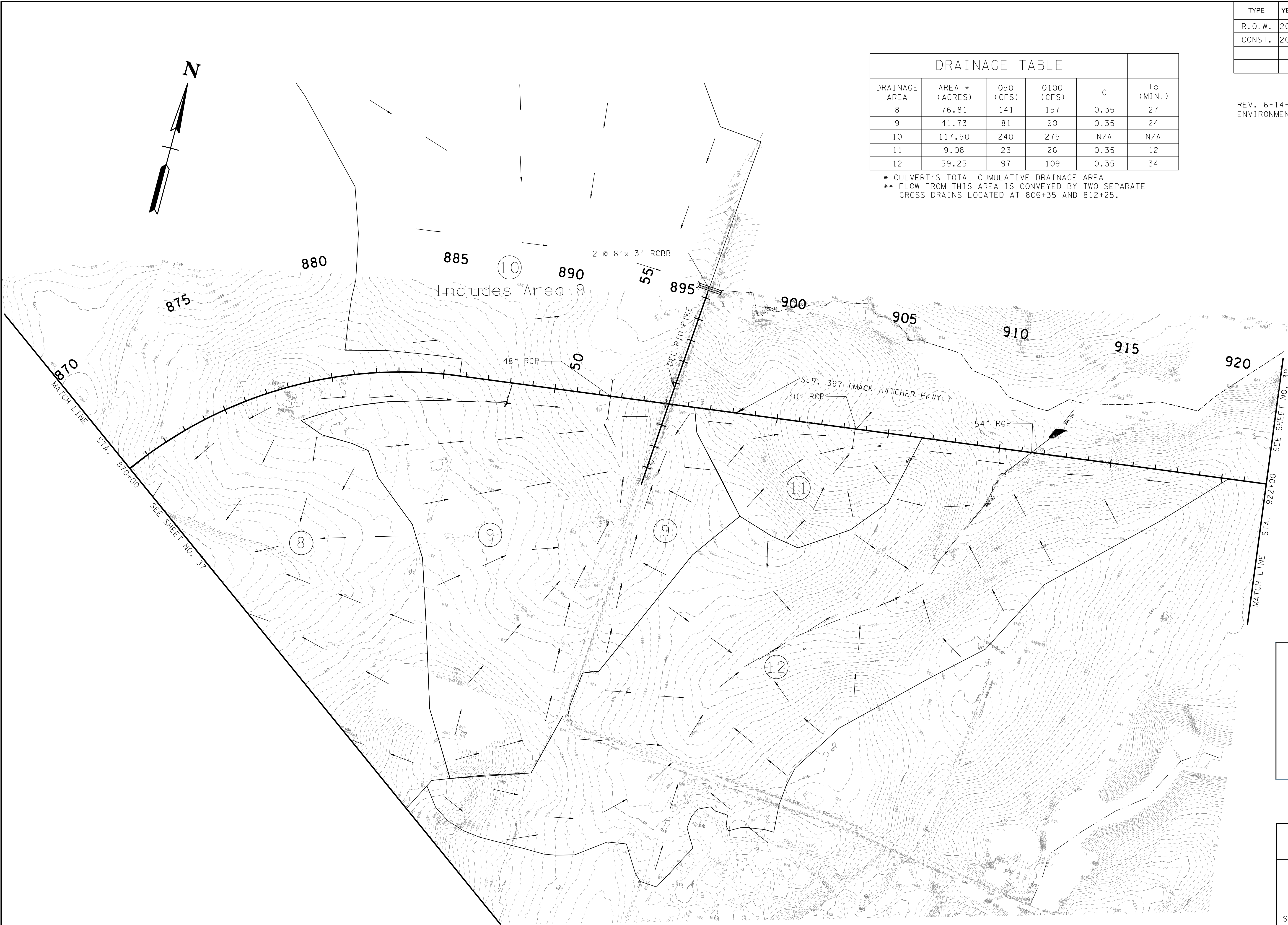
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	45-B
CONST.	2018	STP/HPP-397(10)	38

94092-1224-14

REV. 6-14-18: UPDATED ENVIRONMENTAL FEATURES.

DRAINAGE TABLE					
DRAINAGE AREA	AREA * (ACRES)	Q50 (CFS)	Q100 (CFS)	C	Tc (MIN.)
8	76.81	141	157	0.35	27
9	41.73	81	90	0.35	24
10	117.50	240	275	N/A	N/A
11	9.08	23	26	0.35	12
12	59.25	97	109	0.35	34

* CULVERT'S TOTAL CUMULATIVE DRAINAGE AREA
 ** FLOW FROM THIS AREA IS CONVEYED BY TWO SEPARATE CROSS DRAINS LOCATED AT 806+35 AND 812+25.



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**DRAINAGE
 MAP**
 STA. 870+00 TO STA. 922+00
 SCALE: 1"=200'

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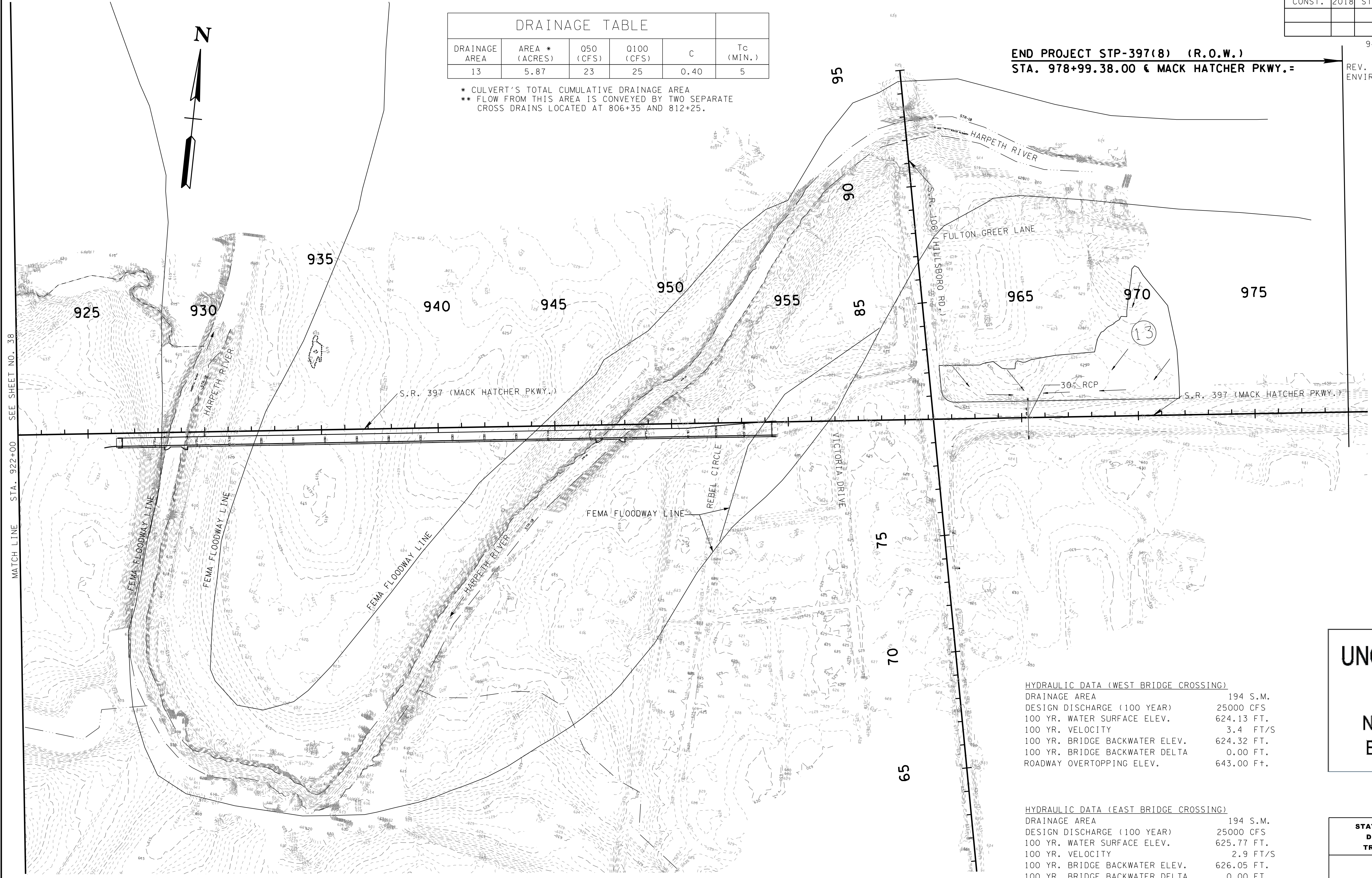
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	45-C
CONST.	2018	STP/HPP-397(10)	39

DRAINAGE TABLE					
DRAINAGE AREA	AREA * (ACRES)	Q50 (CFS)	Q100 (CFS)	C	Tc (MIN.)
13	5.87	23	25	0.40	5

* CULVERT'S TOTAL CUMULATIVE DRAINAGE AREA
 ** FLOW FROM THIS AREA IS CONVEYED BY TWO SEPARATE CROSS DRAINS LOCATED AT 806+35 AND 812+25.

END PROJECT STP-397(8) (R.O.W.)
 STA. 978+99.38.00 @ MACK HATCHER PKWY.=

94092-1224-14
 REV. 6-14-18: UPDATED ENVIRONMENTAL FEATURES.



HYDRAULIC DATA (WEST BRIDGE CROSSING)

DRAINAGE AREA	194 S.M.
DESIGN DISCHARGE (100 YEAR)	25000 CFS
100 YR. WATER SURFACE ELEV.	624.13 FT.
100 YR. VELOCITY	3.4 FT/S
100 YR. BRIDGE BACKWATER ELEV.	624.32 FT.
100 YR. BRIDGE BACKWATER DELTA	0.00 FT.
ROADWAY OVERTOPPING ELEV.	643.00 FT.

HYDRAULIC DATA (EAST BRIDGE CROSSING)

DRAINAGE AREA	194 S.M.
DESIGN DISCHARGE (100 YEAR)	25000 CFS
100 YR. WATER SURFACE ELEV.	625.77 FT.
100 YR. VELOCITY	2.9 FT/S
100 YR. BRIDGE BACKWATER ELEV.	626.05 FT.
100 YR. BRIDGE BACKWATER DELTA	0.00 FT.
ROADWAY OVERTOPPING ELEV.	635.00 FT.

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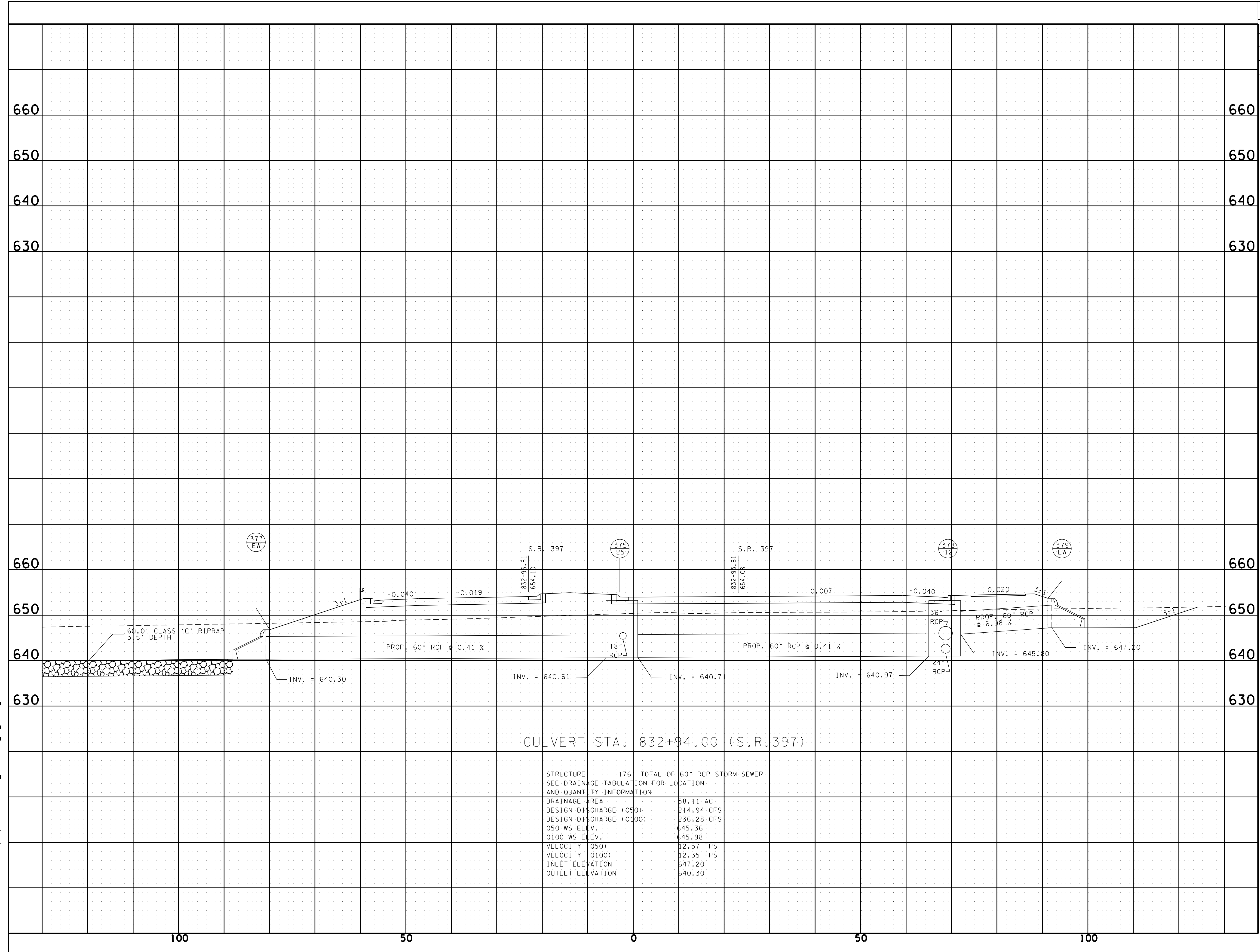
DRAINAGE MAP

STA. 921+00 TO STA. 978+99.38
 SCALE: 1"=200'

MATCH LINE STA. 922+00 SEE SHEET NO. 38

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	46-C
CONST.	2018	STP/HPP-397(10)	40

REV. 4/10/2015:
REVISED CROSS DRAIN AT STA. 832+94.
REV. 5/14/2015:
REVISED RIP RAP FOR CROSS DRAIN AT STA. 832+94.
REV. 6/14/2018:
REVISED LABEL FOR CROSS DRAIN LENGTH.



CULVERT STA. 832+94.00 (S.R. 397)

STRUCTURE 176 TOTAL OF 60" RCP STORM SEWER	
SEE DRAINAGE TABULATION FOR LOCATION AND QUANTITY INFORMATION	
DRAINAGE AREA	58.11 AC
DESIGN DISCHARGE (050)	214.94 CFS
DESIGN DISCHARGE (0100)	236.28 CFS
050 WS ELEV.	645.36
0100 WS ELEV.	645.98
VELOCITY (050)	12.57 FPS
VELOCITY (0100)	12.35 FPS
INLET ELEVATION	647.20
OUTLET ELEVATION	640.30

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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.

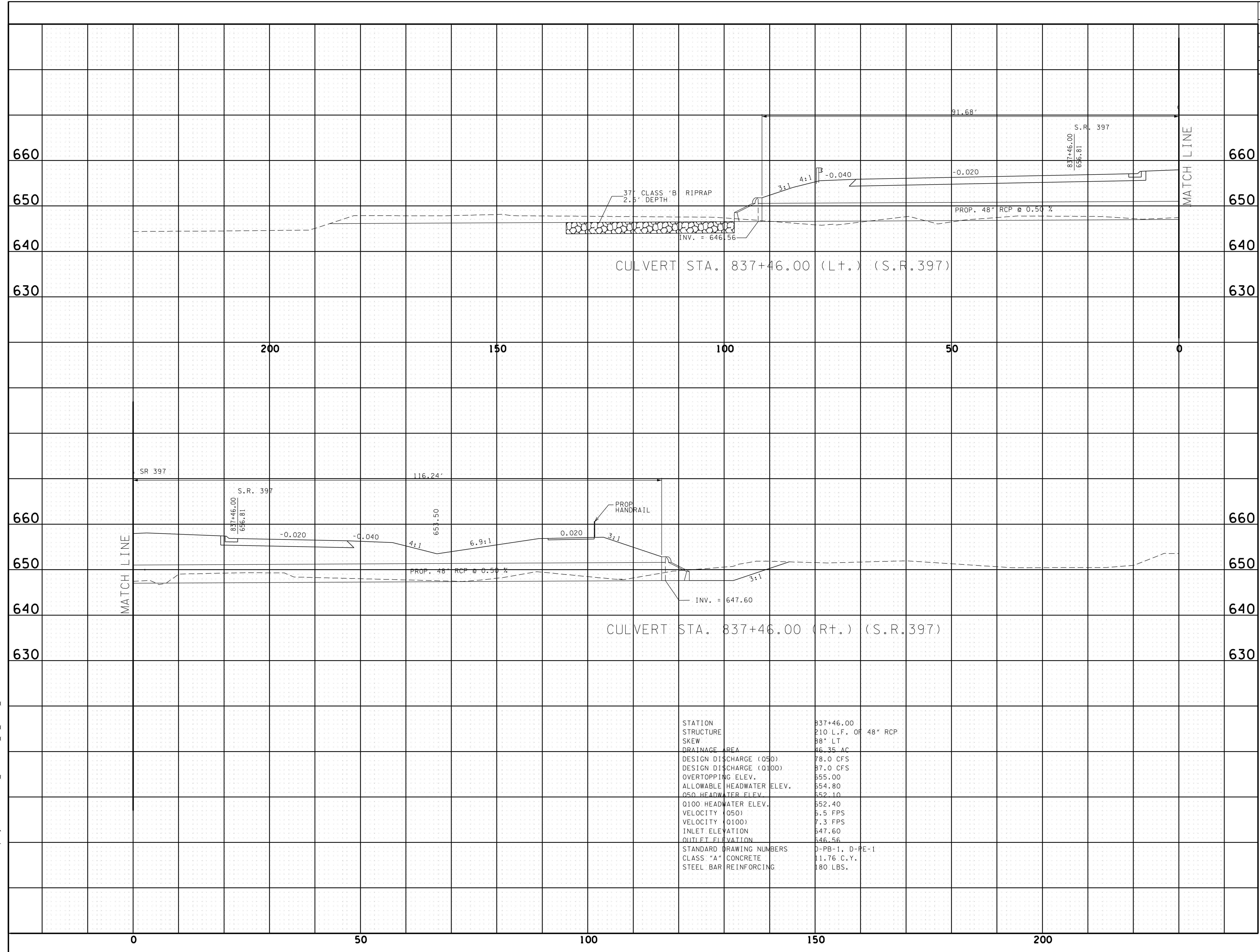
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**CULVERT
SECTIONS**

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	46-D
CONST.	2018	STP/HPP-397(10)	41



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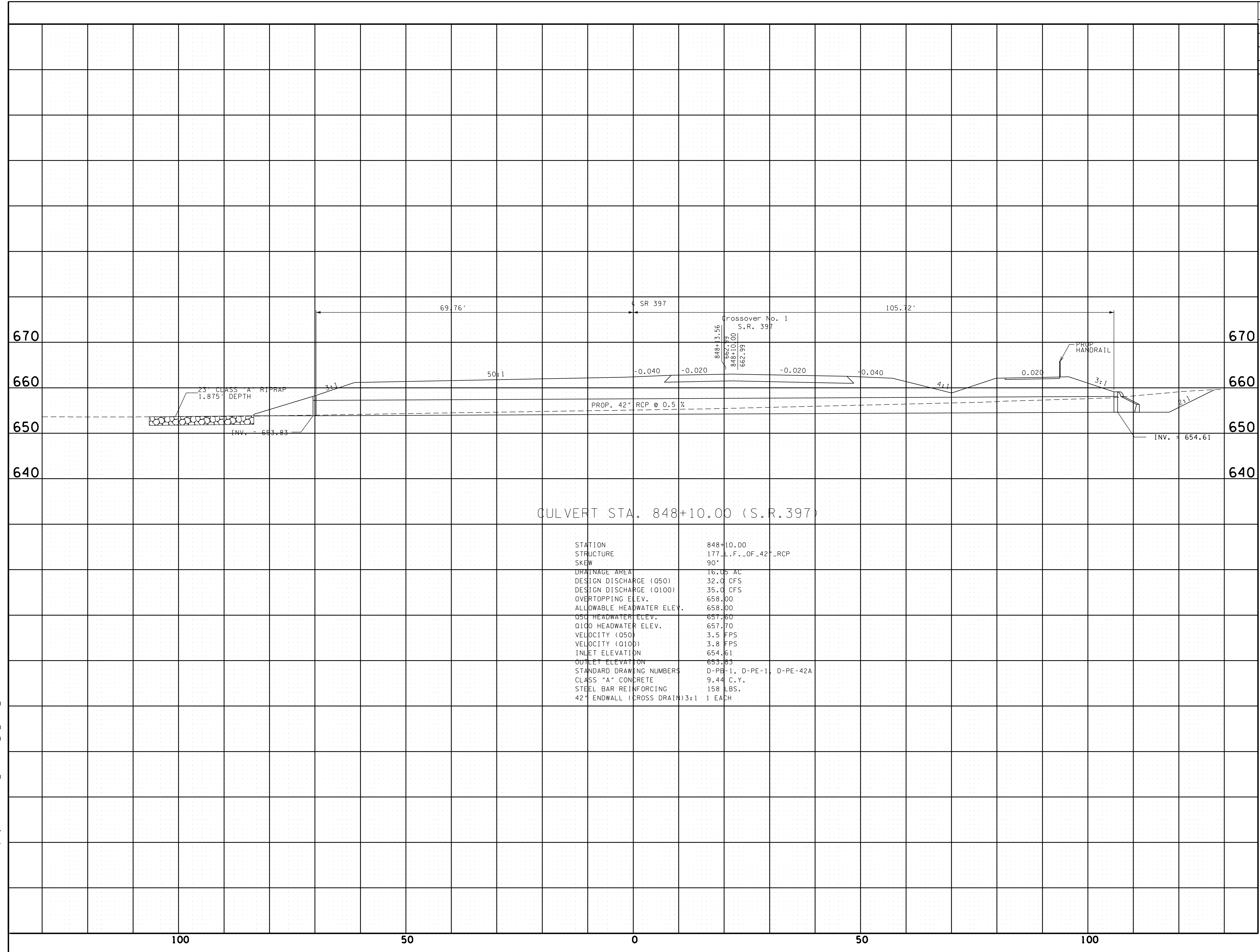
**CULVERT
SECTIONS**

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	46-E
CONST.	2018	STP/HPP-397(10)	42

REV. 1/26/2015:
REVISED TO SHOW PHASED BUILD OUT GRADING.



CULVERT STA. 848+10.00 (S.R.397)

STATION	848+10.00
STRUCTURE	177' L.F. OF 42" RCP
SKEW	90°
DRAINAGE AREA	16.05 AC
DESIGN DISCHARGE (050)	32.0 CFS
DESIGN DISCHARGE (0100)	35.0 CFS
OVERTOPPING ELEV.	658.00
ALLOWABLE HEADWATER ELEV.	658.00
050 HEADWATER ELEV.	657.60
0100 HEADWATER ELEV.	657.70
VELOCITY (050)	3.5 FPS
VELOCITY (0100)	3.8 FPS
INLET ELEVATION	654.61
OUTLET ELEVATION	653.83
STANDARD DRAWING NUMBERS	D-PB-1, D-PE-1, D-PE-42A
CLASS "A" CONCRETE	9.44 C.Y.
STEEL BAR REINFORCING	158 LBS.
42" ENDWALL (CROSS DRAIN) 3:1	1 EACH

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**CULVERT
SECTIONS**

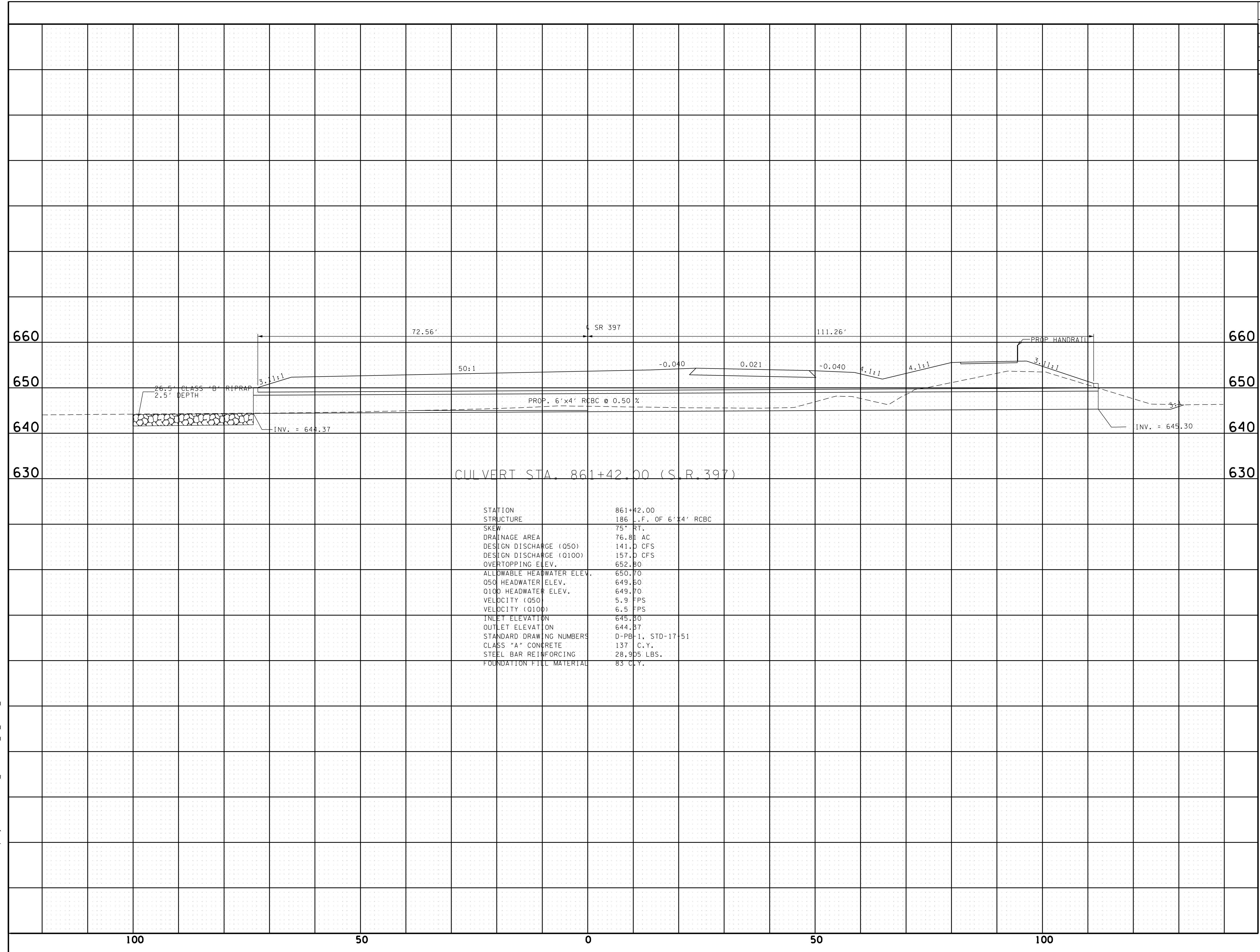
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1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	46-F
CONST.	2018	STP/HPP-397(10)	43

REV. 1/26/2015:
 REVISED TO SHOW PHASED BUILD
 OUT GRADING.



CULVERT STA. 861+42.00 (S.R. 397)

STATION	861+42.00
STRUCTURE	186 L.F. OF 6'x4' RCBC
SKEW	75° RT.
DRAINAGE AREA	76.81 AC
DESIGN DISCHARGE (Q50)	141.0 CFS
DESIGN DISCHARGE (Q100)	157.0 CFS
OVERTOPPING ELEV.	652.80
ALLOWABLE HEADWATER ELEV.	650.70
Q50 HEADWATER ELEV.	649.50
Q100 HEADWATER ELEV.	649.70
VELOCITY (Q50)	5.9 FPS
VELOCITY (Q100)	6.5 FPS
INLET ELEVATION	645.50
OUTLET ELEVATION	644.37
STANDARD DRAWING NUMBERS	D-PB-1, STD-17-51
CLASS "A" CONCRETE	137 C.Y.
STEEL BAR REINFORCING	28,905 LBS.
FOUNDATION FILL MATERIAL	83 C.Y.

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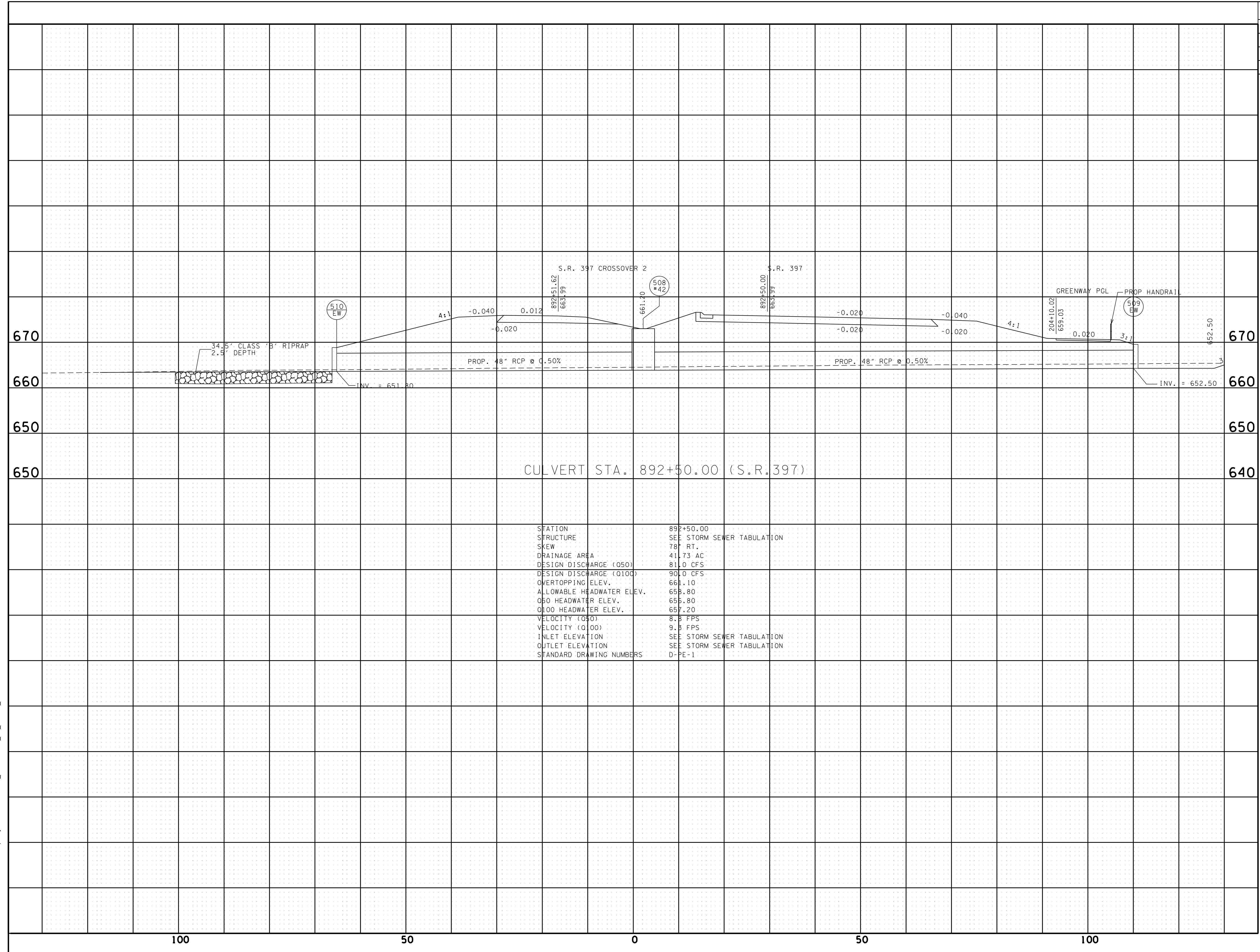
**CULVERT
 SECTIONS**

SCALE: 1" = 50' HORIZ.
 1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	46-G
CONST.	2018	STP/HPP-397(10)	44

REV. 1/26/2015:
 REVISED TO SHOW PHASED BUILD
 OUT GRADING.



STATION	892+50.00
STRUCTURE	SEE STORM SEWER TABULATION
SKEW	78° RT.
DRAINAGE AREA	41.73 AC
DESIGN DISCHARGE (050)	81.0 CFS
DESIGN DISCHARGE (0100)	90.0 CFS
OVERTOPPING ELEV.	661.10
ALLOWABLE HEADWATER ELEV.	658.80
050 HEADWATER ELEV.	656.80
0100 HEADWATER ELEV.	657.20
VELOCITY (050)	8.8 FPS
VELOCITY (0100)	9.8 FPS
INLET ELEVATION	SEE STORM SEWER TABULATION
OUTLET ELEVATION	SEE STORM SEWER TABULATION
STANDARD DRAWING NUMBERS	D-PE-1

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 DEPARTMENT OF
 TRANSPORTATION**

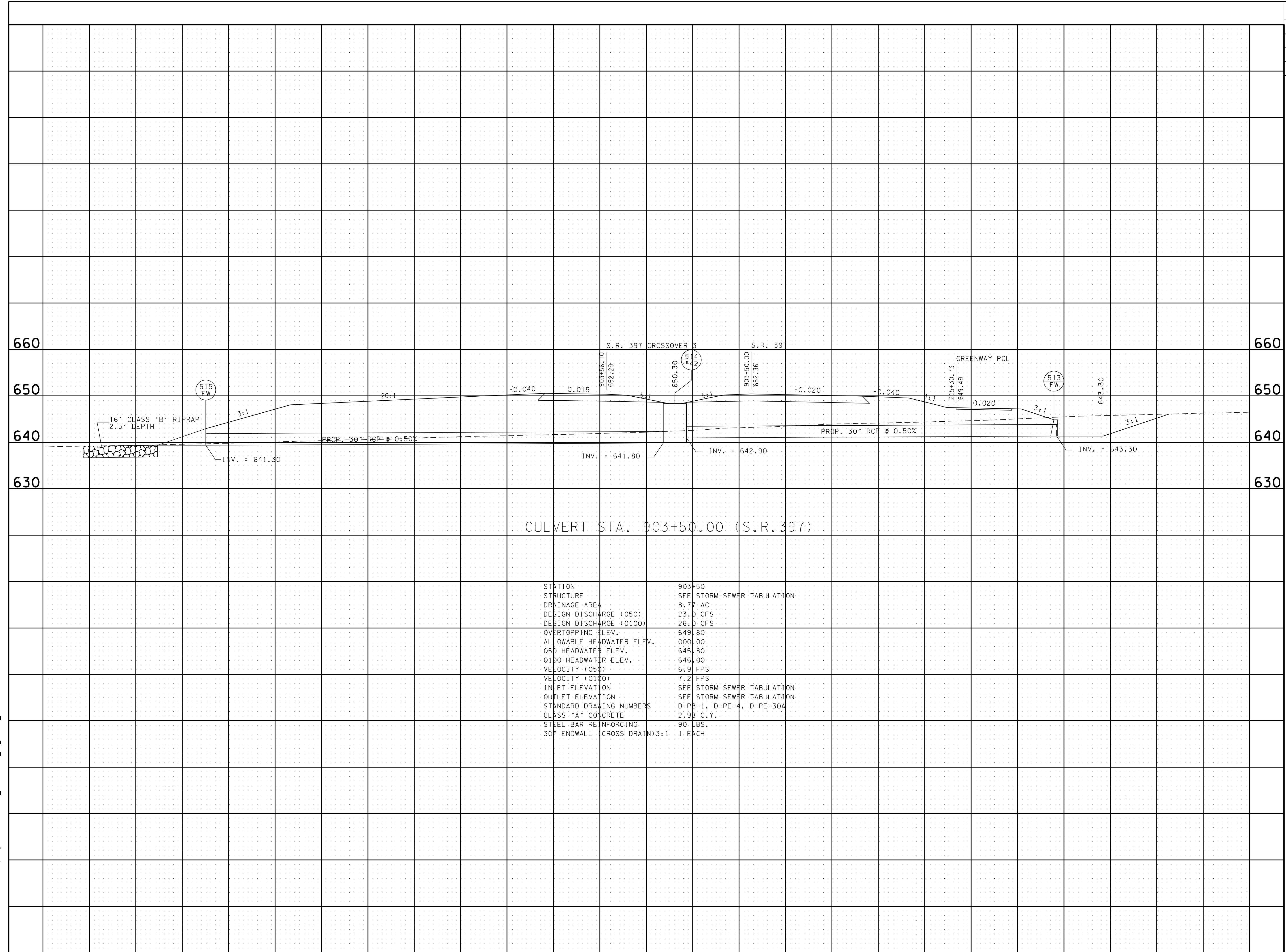
**CULVERT
 SECTIONS**

SCALE: 1" = 50' HORIZ.
 1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	46-H
CONST.	2018	STP/HPP-397(10)	45

REV. 1/26/2015:
 REVISED TO SHOW PHASED BUILD
 OUT GRADING.



CULVERT STA. 903+50.00 (S.R. 397)

STATION	903+50
STRUCTURE	SEE STORM SEWER TABULATION
DRAINAGE AREA	8.77 AC
DESIGN DISCHARGE (050)	23.0 CFS
DESIGN DISCHARGE (0100)	26.0 CFS
OVERTOPPING ELEV.	649.80
ALLOWABLE HEADWATER ELEV.	000.00
050 HEADWATER ELEV.	645.80
0100 HEADWATER ELEV.	646.00
VELOCITY (050)	6.9 FPS
VELOCITY (0100)	7.2 FPS
INLET ELEVATION	SEE STORM SEWER TABULATION
OUTLET ELEVATION	SEE STORM SEWER TABULATION
STANDARD DRAWING NUMBERS	D-PB-1, D-PE-4, D-PE-30A
CLASS "A" CONCRETE	2.98 C.Y.
STEEL BAR REINFORCING	90 LBS.
30" ENDWALL (CROSS DRAIN) 3:1	1 EACH

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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**

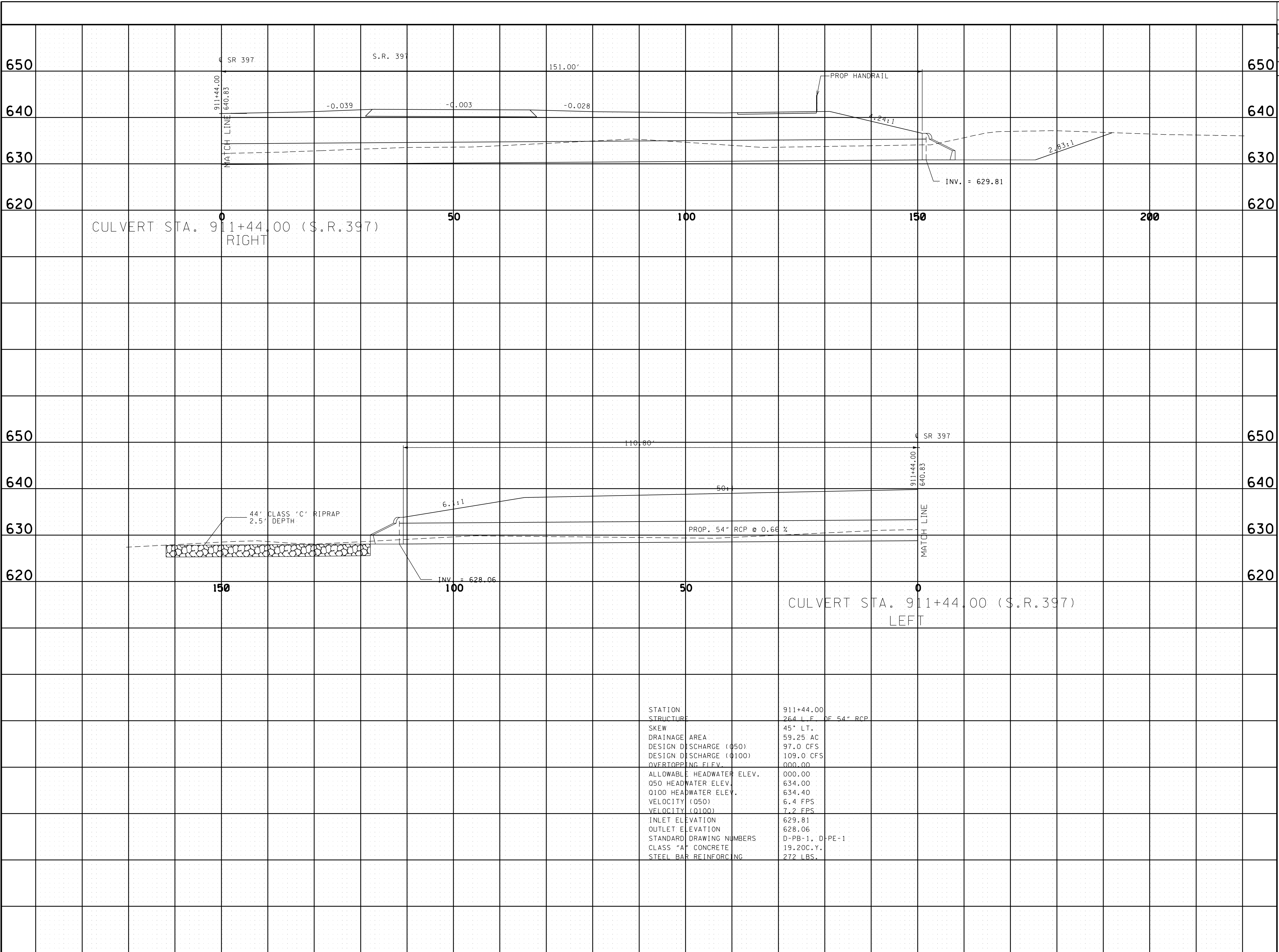
**CULVERT
 SECTIONS**

SCALE: 1" = 50' HORIZ.
 1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	46-I
CONST.	2018	STP/HPP-397(10)	46



REV. 1/26/2015:
REVISED TO SHOW PHASED BUILD OUT GRADING.

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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.

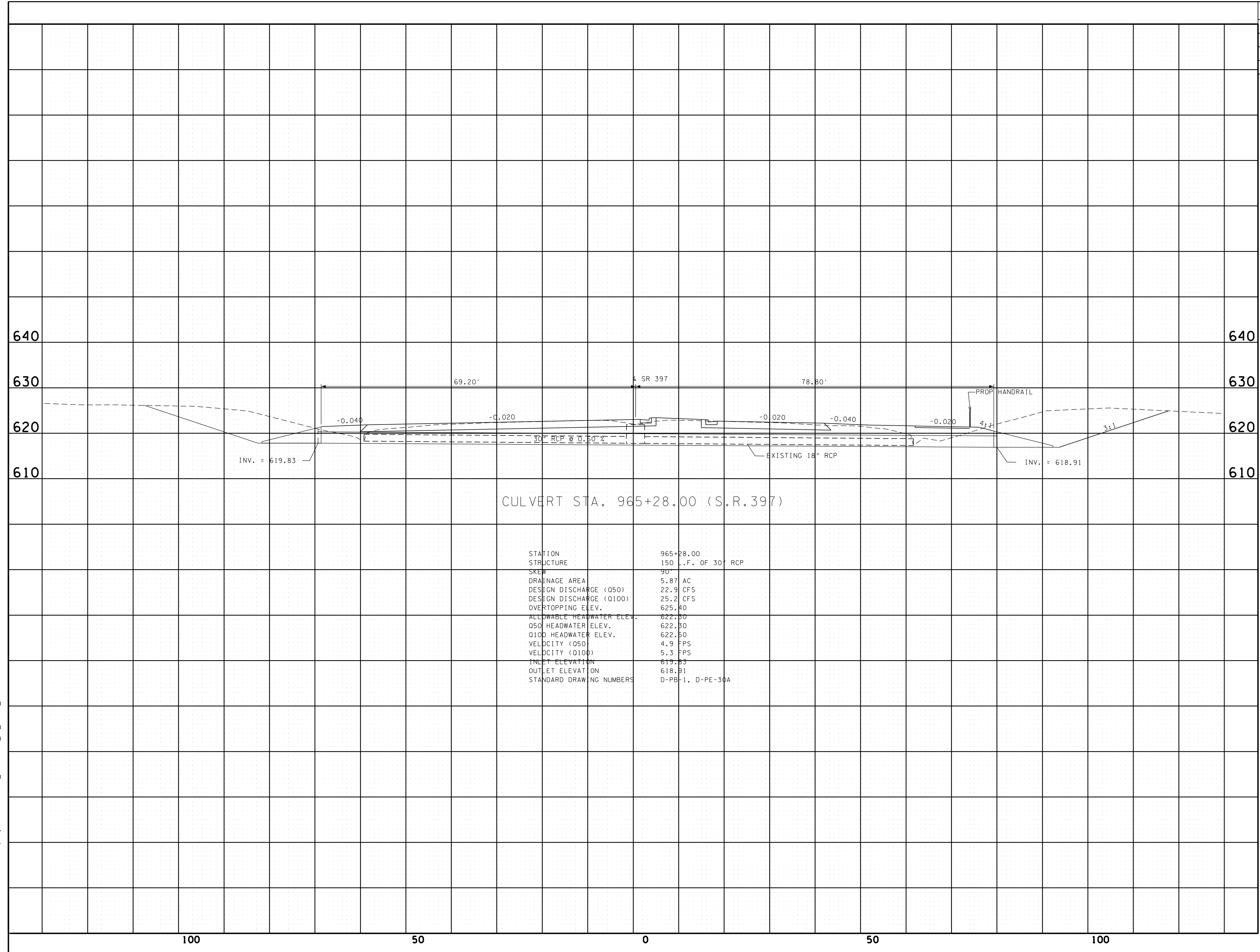
**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**CULVERT
SECTIONS**

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	46-J
CONST.	2018	STP/HPP-397(10)	47

REV. 1/26/2015:
 REVISED TO SHOW PHASED BUILD
 OUT GRADING.



CULVERT STA. 965+28.00 (S.R.397)

STATION	965+28.00
STRUCTURE	150 L.F. OF 30" RCP
SKEW	90
DRAINAGE AREA	5.87 AC
DESIGN DISCHARGE (050)	22.9 CFS
DESIGN DISCHARGE (0100)	25.2 CFS
OVERTOPPING ELEV.	625.40
ALLOWABLE HEADWATER ELEV.	622.50
050 HEADWATER ELEV.	622.50
0100 HEADWATER ELEV.	622.50
VELOCITY (050)	4.9 FPS
VELOCITY (0100)	5.3 FPS
INLET ELEVATION	619.83
OUTLET ELEVATION	618.91
STANDARD DRAWING NUMBERS	D-PB-1, D-PE-30A

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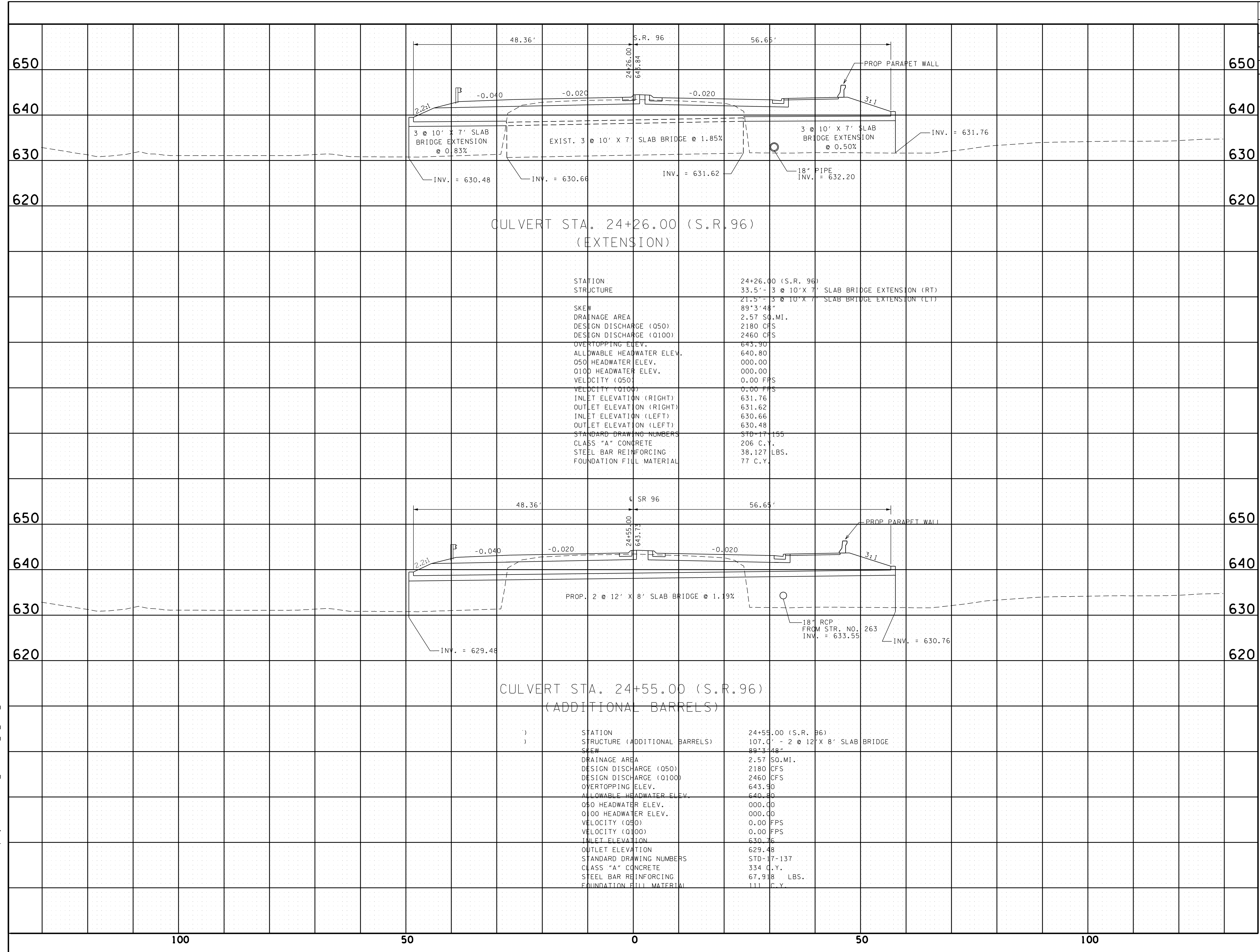
**STATE OF TENNESSEE
 DEPARTMENT OF
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**CULVERT
 SECTIONS**

SCALE: 1" = 50' HORIZ.
 1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	46-K
CONST.	2018	STP/HPP-397(10)	48



REV. 4/10/15:
REVISED HYDRAULIC DATA AND
ADDED RIP RAP TO BOX BRIDGES.

REV. 5/14/2015:
REVISED RIP RAP AT OUTLET OF
BOX BRIDGES.

REV. 6/14/2018:
CHANGED EXISTING STRUCTURE AND
STRUCTURE EXTENSIONS FROM BOX
CULVERT TO SLAB BRIDGE

REV. 7/17/2018:
CHANGED DATA BLOCK STRUCTURE
TYPE FROM RCBC TO SLAB BRIDGE AND
UPDATED STD. DRAWING NUMBER.

STATION	24+26.00 (S.R. 96)
STRUCTURE	33.5' - 3 @ 10' X 7' SLAB BRIDGE EXTENSION (RT)
	21.5' - 3 @ 10' X 7' SLAB BRIDGE EXTENSION (LT)
SKEW	89° 3' 48"
DRAINAGE AREA	2.57 SQ. MI.
DESIGN DISCHARGE (Q50)	2180 CFS
DESIGN DISCHARGE (Q100)	2460 CFS
OVERTOPPING ELEV.	643.90
ALLOWABLE HEADWATER ELEV.	640.80
Q50 HEADWATER ELEV.	000.00
Q100 HEADWATER ELEV.	000.00
VELOCITY (Q50)	0.00 FPS
VELOCITY (Q100)	0.00 FPS
INLET ELEVATION (RIGHT)	631.76
OUTLET ELEVATION (RIGHT)	631.62
INLET ELEVATION (LEFT)	630.66
OUTLET ELEVATION (LEFT)	630.48
STANDARD DRAWING NUMBERS	STD-17-155
CLASS "A" CONCRETE	206 C.Y.
STEEL BAR REINFORCING	38,127 LBS.
FOUNDATION FILL MATERIAL	77 C.Y.

STATION	24+55.00 (S.R. 96)
STRUCTURE (ADDITIONAL BARRELS)	107.0' - 2 @ 12' X 8' SLAB BRIDGE
SKEW	89° 3' 48"
DRAINAGE AREA	2.57 SQ. MI.
DESIGN DISCHARGE (Q50)	2180 CFS
DESIGN DISCHARGE (Q100)	2460 CFS
OVERTOPPING ELEV.	643.90
ALLOWABLE HEADWATER ELEV.	640.80
Q50 HEADWATER ELEV.	000.00
Q100 HEADWATER ELEV.	000.00
VELOCITY (Q50)	0.00 FPS
VELOCITY (Q100)	0.00 FPS
INLET ELEVATION	630.76
OUTLET ELEVATION	629.48
STANDARD DRAWING NUMBERS	STD-17-137
CLASS "A" CONCRETE	334 C.Y.
STEEL BAR REINFORCING	67,918 LBS.
FOUNDATION FILL MATERIAL	111 C.Y.

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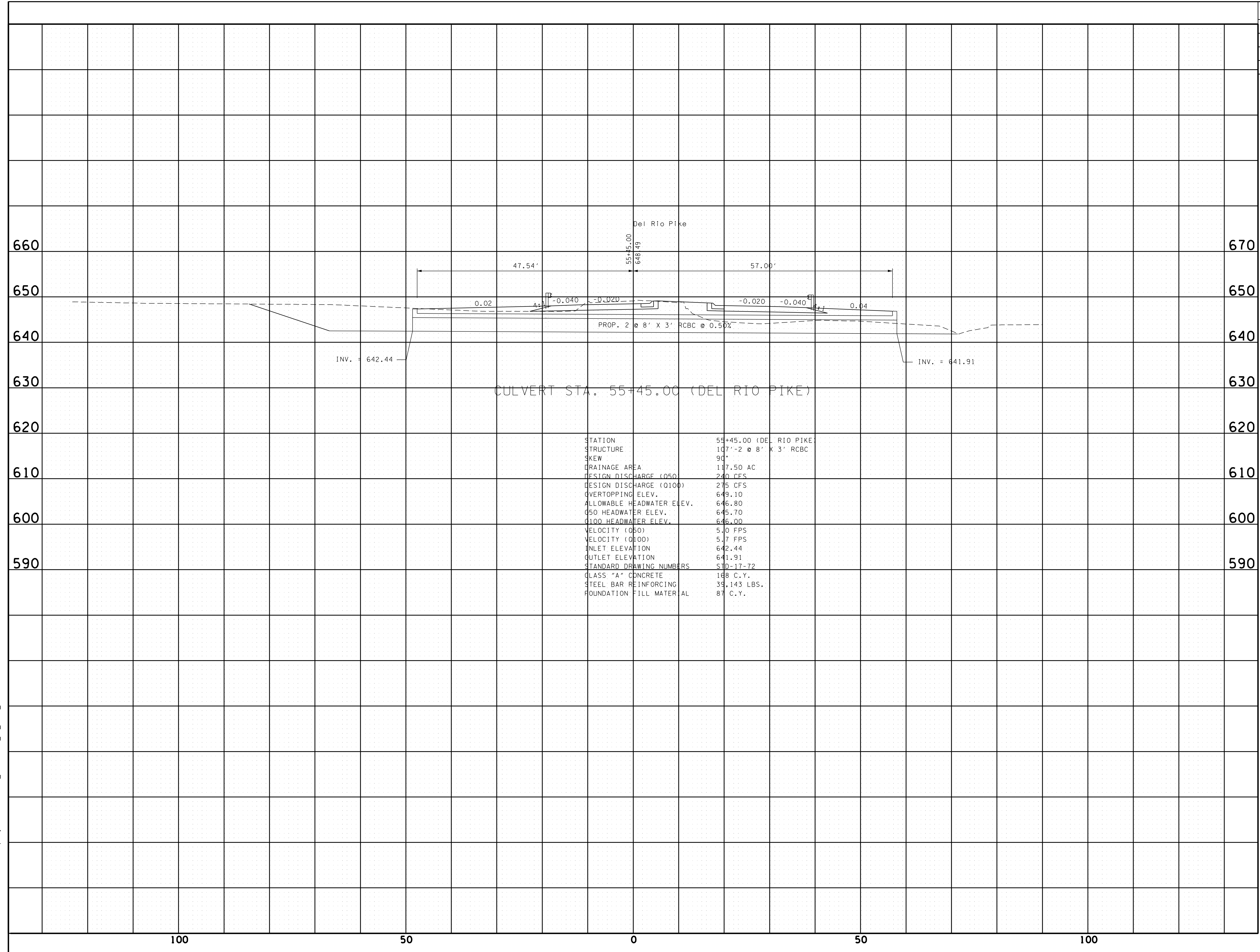
**STATE OF TENNESSEE
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**CULVERT
SECTIONS**

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	46-L
CONST.	2018	STP/HPP-397(10)	49



STATION	55+45.00 (DEL RIO PIKE)
STRUCTURE	107'-2" @ 8' X 3' RCBC
SKEW	90°
DRAINAGE AREA	117.50 AC
DESIGN DISCHARGE (050)	240 CFS
DESIGN DISCHARGE (0100)	275 CFS
VERTOPPING ELEV.	649.10
ALLOWABLE HEADWATER ELEV.	646.80
050 HEADWATER ELEV.	645.70
100 HEADWATER ELEV.	646.00
VELOCITY (050)	5.0 FPS
VELOCITY (0100)	5.7 FPS
INLET ELEVATION	642.44
OUTLET ELEVATION	641.91
STANDARD DRAWING NUMBERS	STD-17-72
CLASS "A" CONCRETE	188 C.Y.
STEEL BAR REINFORCING	39,143 LBS.
FOUNDATION FILL MATERIAL	87 C.Y.

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**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**CULVERT
SECTIONS**

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

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TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	50

EPSC NOTES

STREAMS, WETLANDS & BUFFER ZONES

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

ENVIRONMENTAL

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

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**EROSION PREVENTION
& SEDIMENT CONTROL
NOTES
S.R. 397
(MACK HATCHER PARKWAY)**

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	50A

REV. 6-14-18; REVISED EPSC LEGEND & ITEM NOS. 209-08.08, 209-09.43 & 209-40.46.

EROSION CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
203-01	ROAD & DRAINAGE EXCAVATION (UNCLASSIFIED)	414	CY
209-02.05	12" TEMPORARY SLOPE DRAIN	433	LF
209-02.06	15" TEMPORARY SLOPE DRAIN	65	LF
209-02.07	18" TEMPORARY SLOPE DRAIN	50	LF
209-03.20	FILTER SOCK (8")	1000	LF
209-03.23	FILTER SOCK 24"	4000	LF
209-05	SEDIMENT REMOVAL	821	CY
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	22654	LF
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)	32762	LF
209-08.07	ROCK CHECK DAM	154	EACH
209-08.08	ENHANCED ROCK CHECK DAM	54	EACH
209-08.09	FILTER SOCK CHECK DAM	83	EACH
209-09.01	SANDBAGS	500	BAG
209-09.03	SEDIMENT FILTER BAG (15'X15')	5	EACH
209-09.40	CURB INLET PROTECTION (TYPE 1)	25	EACH
209-09.41	CURB INLET PROTECTION (TYPE 2)	25	EACH
209-09.42	CURB INLET PROTECTION (TYPE 3)	10	EACH
209-09.43	CURB INLET PROTECTION (TYPE 4)	159	EACH
209-10.20	TEMPORARY SEDIMENT TRAP	2774	CY
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)	33	SY
209-40.33	CATCH BASIN PROTECTION (TYPE D)	30	EACH
209-40.41	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	5	EACH
209-40.42	CATCH BASIN FILTER ASSEMBLY (TYPE 2)	0	EACH
209-40.43	CATCH BASIN FILTER ASSEMBLY (TYPE 3)	0	EACH
209-40.44	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	6	EACH
209-40.45	CATCH BASIN FILTER ASSEMBLY (TYPE 5)	0	EACH
209-40.46	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	99	EACH
209-40.47	CATCH BASIN FILTER ASSEMBLY (TYPE 7)	0	EACH
209-65.03	TEMPORARY DIVERSION CHANNEL	926	LF
209-65.04	TEMPORARY IN STREAM DIVERSION	365	LF
303-10.01	MINERAL AGGREGATE (SIZE 57)	410	TON
707-08.11	HIGH VISIBILITY CONSTRUCTION FENCE	3744	LF
709-05.05	MACHINED RIP-RAP (CLASS A-3)	1000	TON
709-05.06	MACHINED RIP-RAP (CLASS A-1)	5323	TON
709-05.08	MACHINED RIP-RAP (CLASS B)	772	TON
709-05.09	MACHINED RIP-RAP (CLASS C)	538	TON
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)	7882	SY
740-11.02	TEMPORARY SEDIMENT TUBE (12 IN)	14433	LF
740-11.03	TEMPORARY SEDIMENT TUBE (18 IN)	5323	LF
801-01.07	TEMPORARY SEEDING (WITH MULCH)	2750	UNIT
801-01.65	TEMPORARY MULCH	2750	UNIT
805-01.01	TURF REINFORCEMENT MAT (CLASS 1)	1900	S.Y.

EROSION PREVENTION AND SEDIMENT CONTROL LEGEND		
SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	SILT FENCE	EC-STR-3B
* SFB * SFB * SFB *	SILT FENCE WITH WIRE BACKING	EC-STR-3C
** TUBE ** TUBE **	SEDIMENT TUBE	EC-STR-37
** SOCK ** SOCK **	FILTER SOCK	EC-STR-8
	ROCK CHECK DAM (V-DITCH)	EC-STR-6
	ENHANCED ROCK CHECK DAM (V-DITCH)	EC-STR-6A
	ENHANCED ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6A
	SEDIMENT TRAP WITH ENHANCED ROCK CHECK DAM	EC-STR-7
	TEMPORARY CULVERT CROSSING (DESCRIBE NUMBER AND SIZE OF PIPES)	EC-STR-25
	CULVERT PROTECTION (TYPE 1)	EC-STR-11
	CATCH BASIN FILTER ASSEMBLY (TYPE 1)	EC-STR-41
	CATCH BASIN FILTER ASSEMBLY (TYPE 4)	EC-STR-44
	CATCH BASIN FILTER ASSEMBLY (TYPE 6)	EC-STR-46
	SEDIMENT FILTER BAG	EC-STR-2
	ROCK CHECK DAM (TRAPEZOIDAL DITCH)	EC-STR-6
	TEMPORARY BERM	EC-STR-27
	CURB INLET PROTECTION (TYPE 4)	EC-STR-39A
	TEMPORARY CONSTRUCTION EXIT	EC-STR-25
	TEMPORARY DIVERSION CHANNEL (DESCRIBE SIZE AND TYPE OF LINING)	EC-STR-31
	INSTREAM DIVERSION	EC-STR-30 EC-STR-30A
	CULVERT PROTECTION (TYPE 2)	EC-STR-11A
	CATCH BASIN PROTECTION (TYPE D)	EC-STR-19

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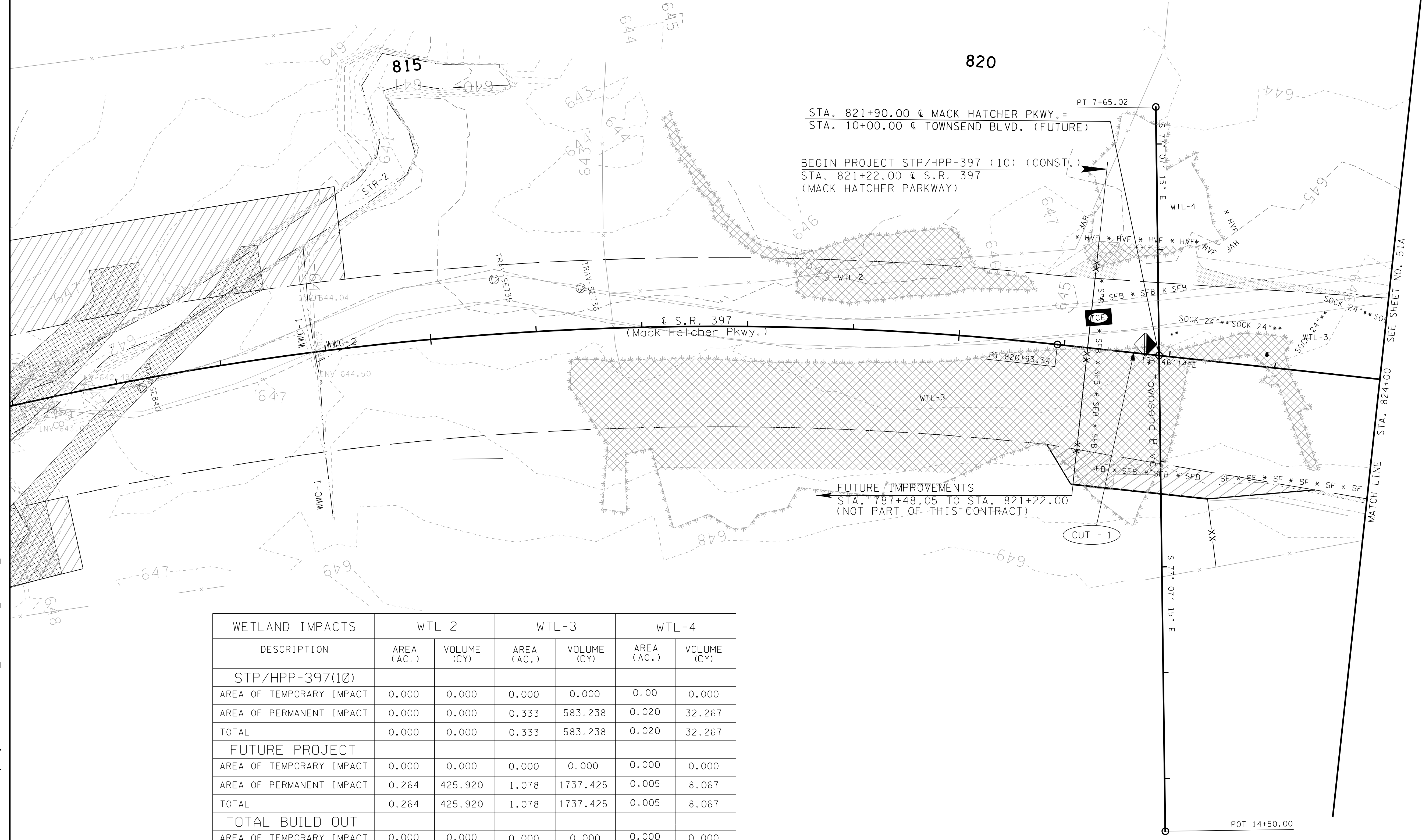
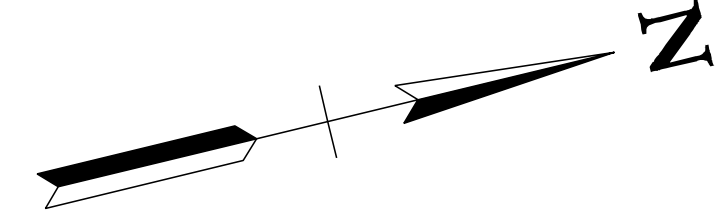
EPSC NOTES,
TABULATION &
LEGEND
S.R. 397
(MACK HATCHER PARKWAY)

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	49
CONST.	2018	STP/HPP-397(10)	51

DISTURBED AREA	
IN BETWEEN SLOPE LINES	73.981 AC
15 FOOT WIDE STRIP (OUTSIDE SLOPE LINES)	15.025 AC
TOTAL DISTURBED AREA	89.006 AC

WETLAND LEGEND

- WETLAND BOUNDARY
- AREA OF TEMPORARY IMPACT TO WETLANDS
- AREA OF PERMANENT IMPACT TO WETLANDS



WETLAND IMPACTS	WTL-2		WTL-3		WTL-4	
	AREA (AC.)	VOLUME (CY)	AREA (AC.)	VOLUME (CY)	AREA (AC.)	VOLUME (CY)
STP/HPP-397(10)						
AREA OF TEMPORARY IMPACT	0.000	0.000	0.000	0.000	0.00	0.000
AREA OF PERMANENT IMPACT	0.000	0.000	0.333	583.238	0.020	32.267
TOTAL	0.000	0.000	0.333	583.238	0.020	32.267
FUTURE PROJECT						
AREA OF TEMPORARY IMPACT	0.000	0.000	0.000	0.000	0.000	0.000
AREA OF PERMANENT IMPACT	0.264	425.920	1.078	1737.425	0.005	8.067
TOTAL	0.264	425.920	1.078	1737.425	0.005	8.067
TOTAL BUILD OUT						
AREA OF TEMPORARY IMPACT	0.000	0.000	0.000	0.000	0.000	0.000
AREA OF PERMANENT IMPACT	0.264	425.920	1.411	2275.663	0.025	40.333
TOTAL	0.264	425.920	1.411	2275.663	0.025	40.333

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND FILL SLOPE AND PROPOSED RIGHT-OF-WAY. PLACE HIGH VISIBILITY FENCE BETWEEN SLOPE LINES AND WETLANDS. SEE EPSC PLANS FOR LOCATIONS.

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION CONTROL S.R. 397 (MACK HATCHER PARKWAY) STAGE 1

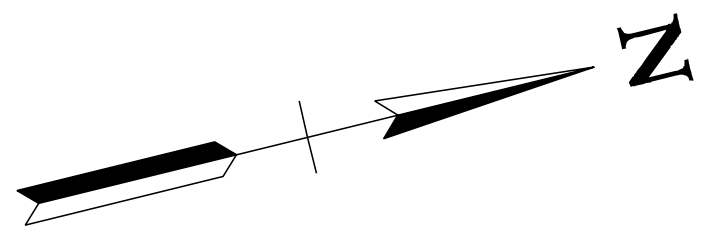
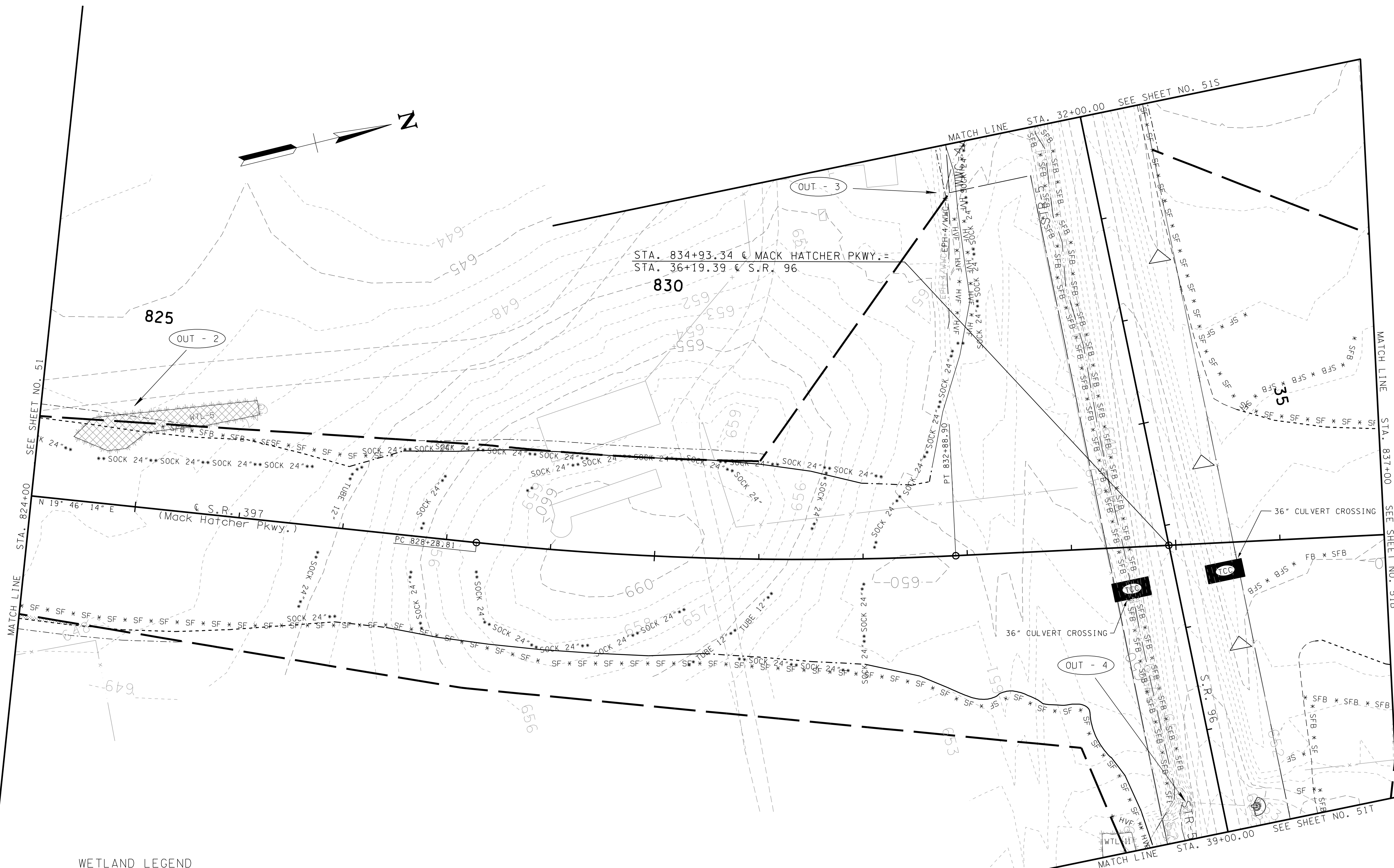
FROM STA. 812+00 TO STA. 824+00

SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	50
CONST.	2018	STP/HPP-397(10)	51A

REV. 4/10/2015:
REVISED SLOPES AND EPSC MEASURES.



WETLAND LEGEND

- ***** WETLAND BOUNDARY
- AREA OF TEMPORARY IMPACT TO WETLAND
- AREA OF PERMANENT IMPACT TO WETLANDS

WETLAND IMPACTS	WTL-5	
	DESCRIPTION	AREA (AC.)	VOLUME (CY.)
AREA OF TEMPORARY IMPACT	0.000	0.000
AREA OF PERMANENT IMPACT	0.084	135.036
TOTAL	0.084	135.036

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND FILL SLOPE AND PROPOSED RIGHT-OF-WAY.

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**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1**

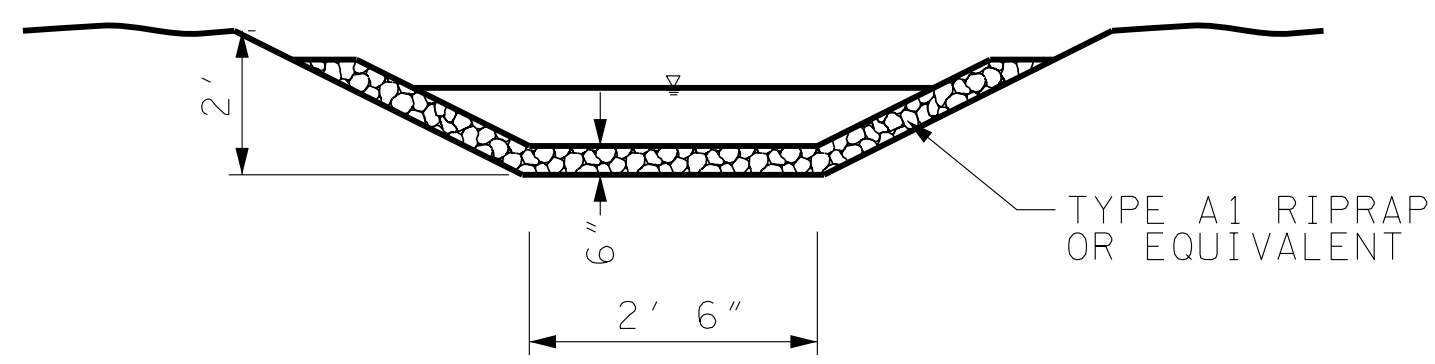
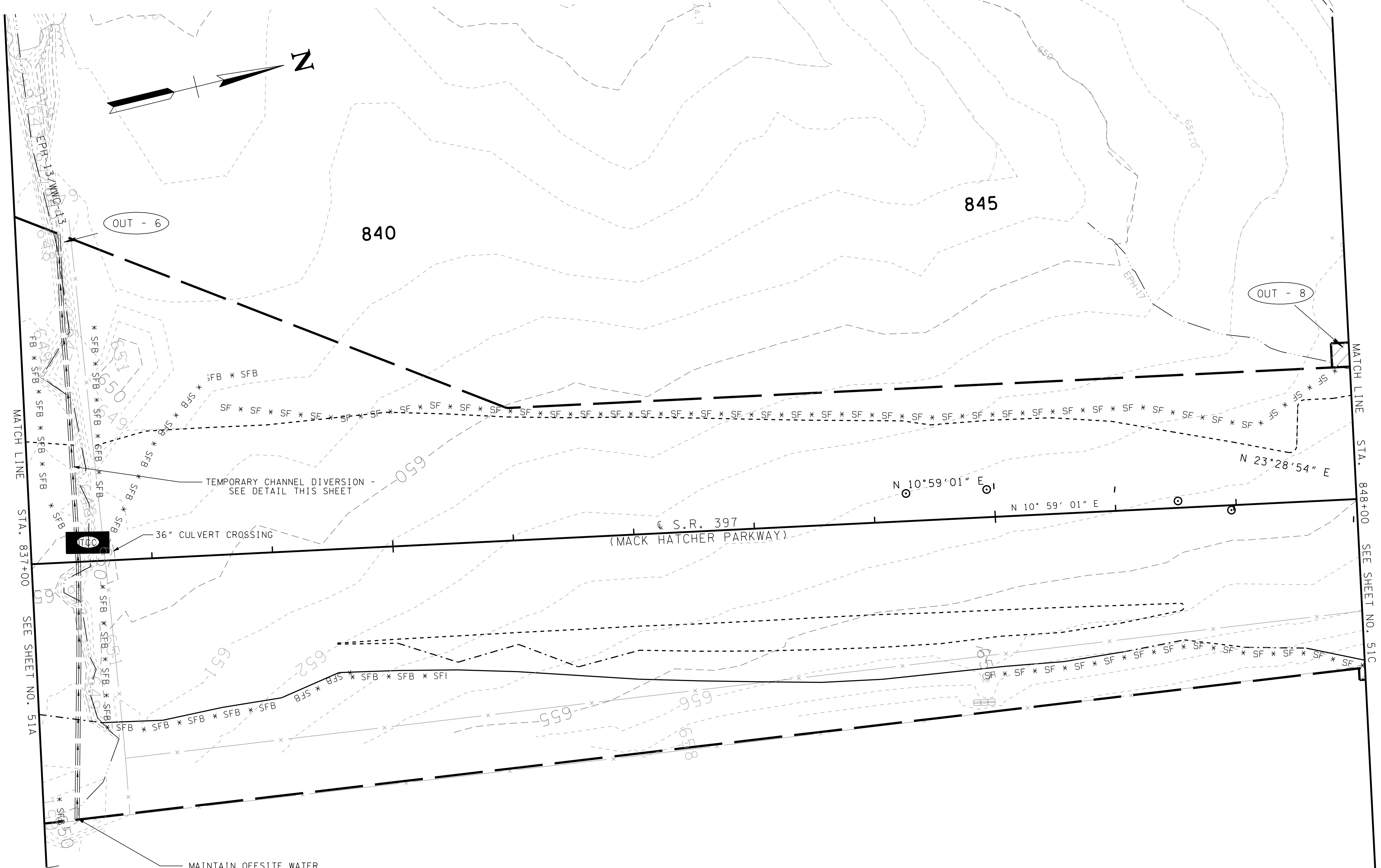
FROM STA. 824+00
TO STA. 837+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	51
CONST.	2018	STP/HPP-397(10)	51B

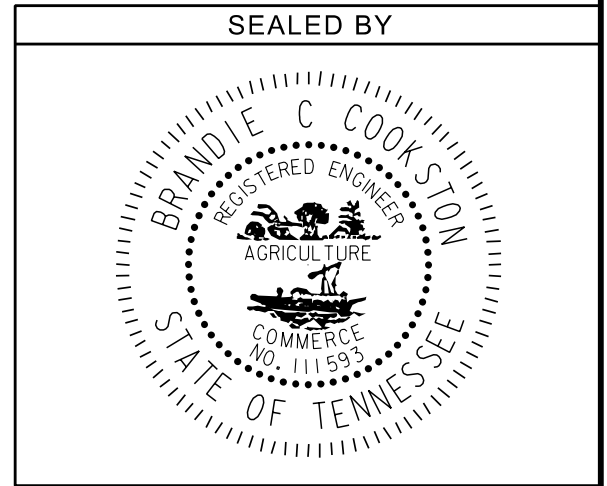
REV. 7-17-18: ADDED TEMPORARY DIVERSION NOTE.

REV. 10-10-18: REVISED LABEL FOR EPH-13/WWC-13.



DETAIL A
 SAMPLE TEMPORARY CHANNEL DIVERSION
 N.T.S.

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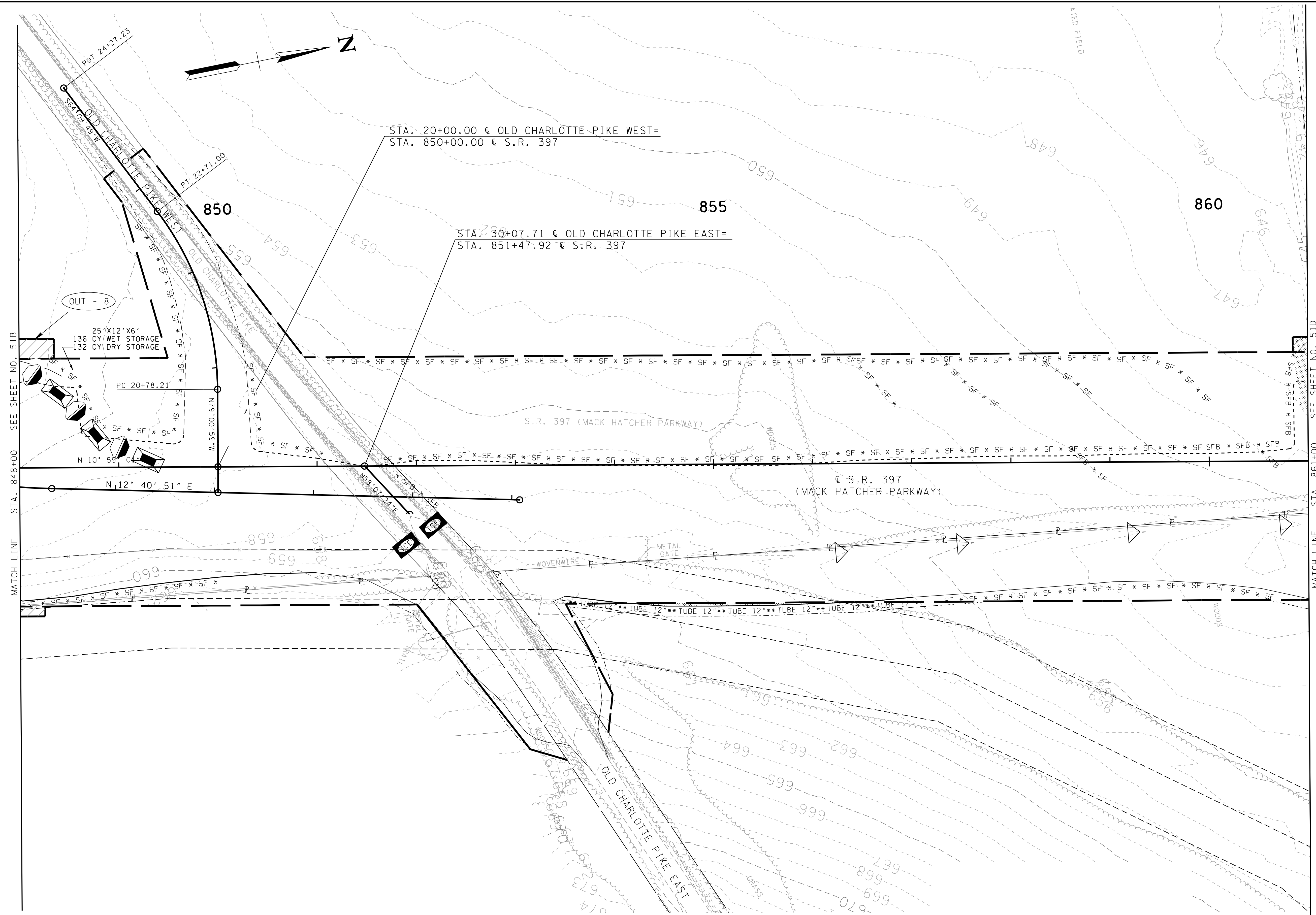


STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1

FROM STA. 837+00
 TO STA. 848+00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	52
CONST.	2018	STP/HPP-397(10)	51C



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EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1

FROM STA. 848+00
TO STA. 861+00

SCALE: 1"=50'

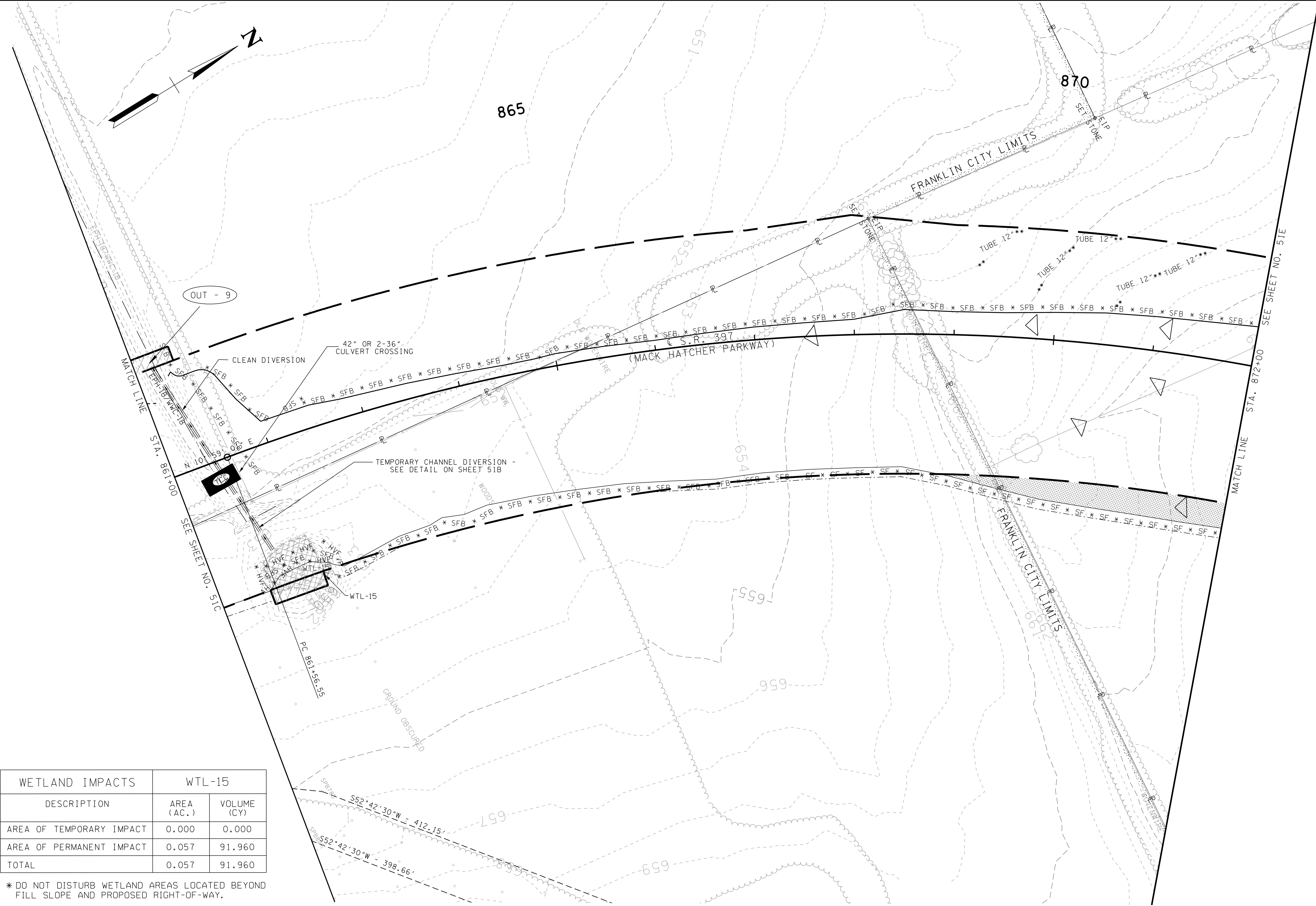
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	53
CONST.	2018	STP/HPP-397(10)	51D

REV. 6-14-18: ADDED WETLAND IMPACT TABLE.

REV. 7-17-18: ADDED TEMPORARY DIVERSION NOTE.

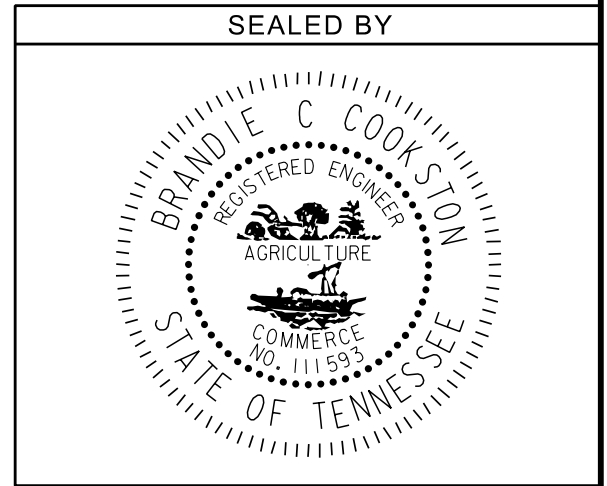
REV. 10-10-18: REVISED LABEL FOR EPH-18/WWC-18.



WETLAND IMPACTS	WTL-15	
	AREA (AC.)	VOLUME (CY)
AREA OF TEMPORARY IMPACT	0.000	0.000
AREA OF PERMANENT IMPACT	0.057	91.960
TOTAL	0.057	91.960

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND FILL SLOPE AND PROPOSED RIGHT-OF-WAY.

PLACE HIGH VISIBILITY FENCE BETWEEN SLOPE LINES AND WETLANDS. SEE EPSC PLANS FOR LOCATIONS.

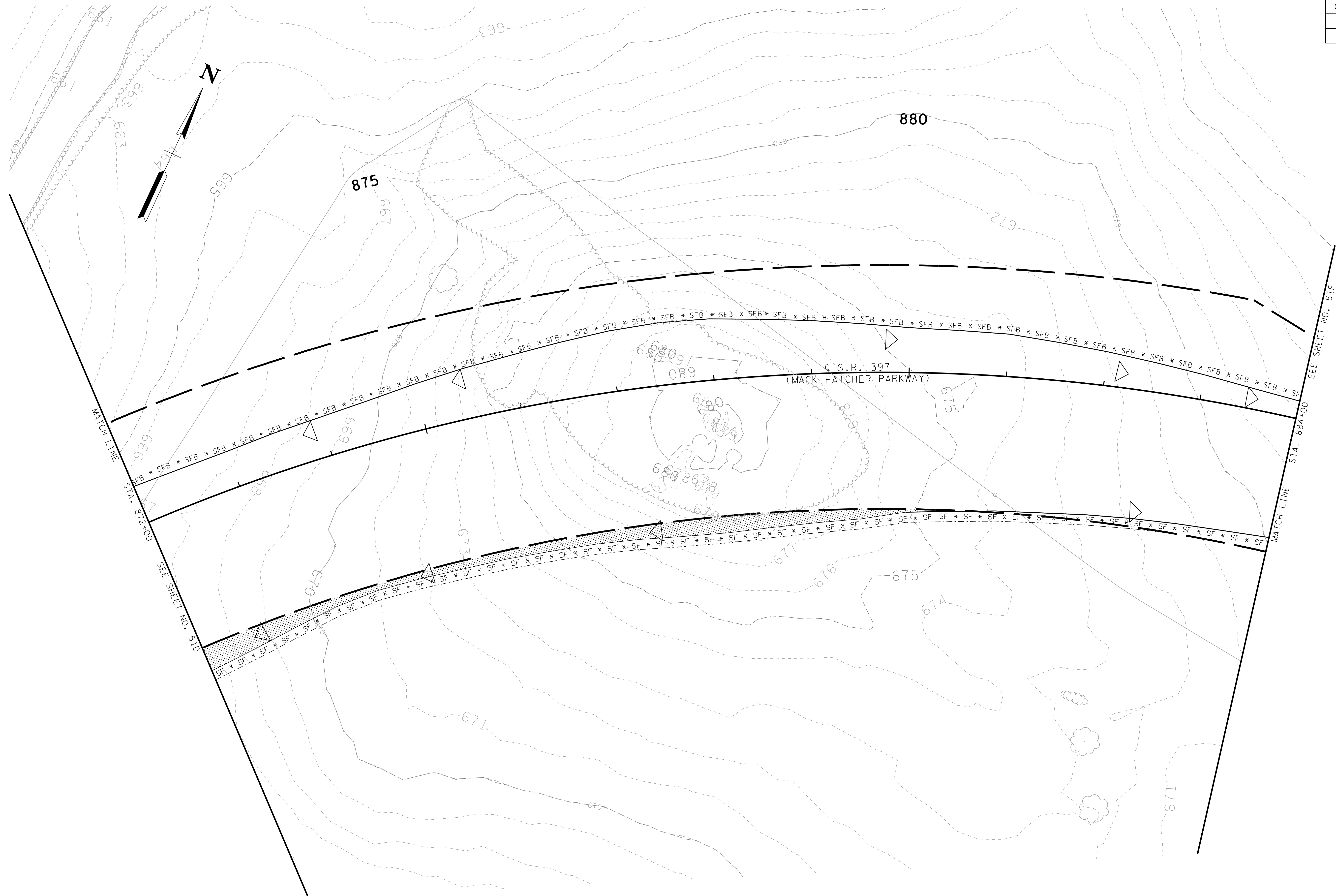


STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1

FROM STA. 861+00
TO STA. 872+00

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	54
CONST.	2018	STP/HPP-397(10)	51E



MATCH LINE

STA. 872+00

SEE SHEET NO. 51D

MATCH LINE

STA. 884+00

SEE SHEET NO. 51F

S.R. 397
(MACK HATCHER PARKWAY)

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**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1**

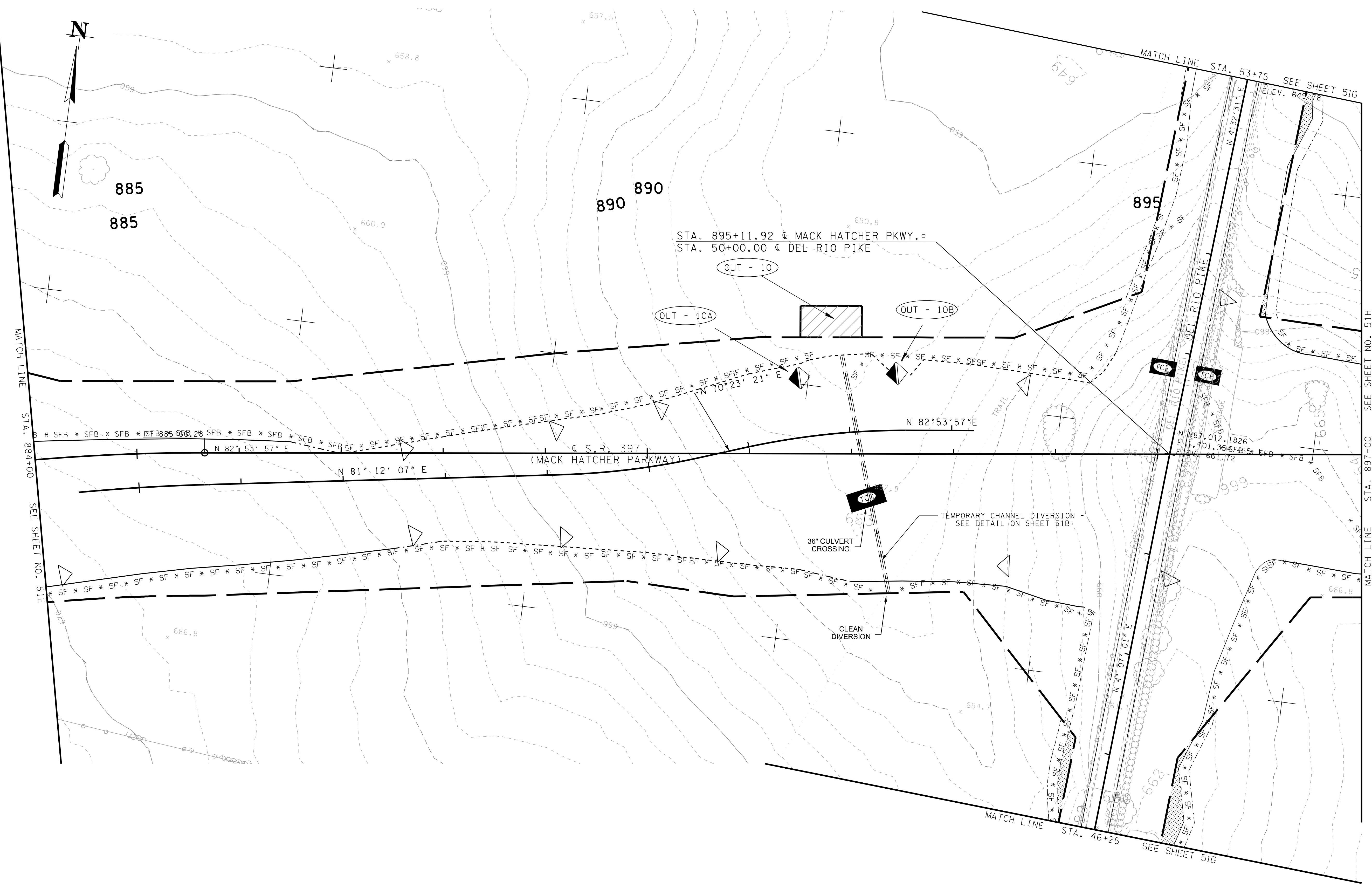
FROM STA. 872+00
TO STA. 884+00

SCALE: 1"=50'

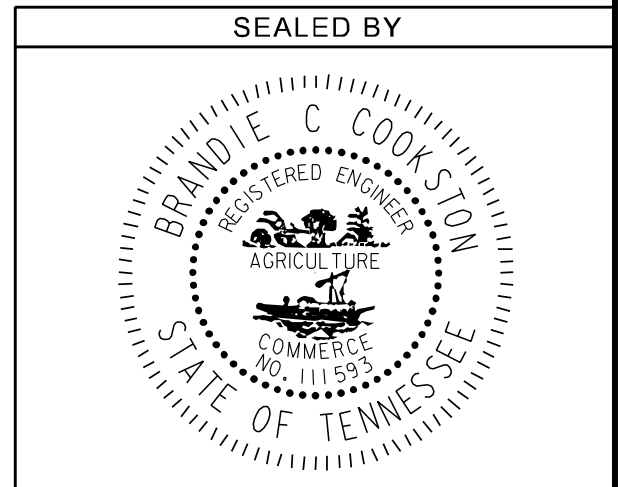
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	55
CONST.	2018	STP/HPP-397(10)	51F

REV. 6-14-18:
 LABELED 36" CULVERT CROSSING &
 CLEAN DIVERSION. ADDED OUTFALL
 10A & 10B.

REV. 7-17-18: ADDED TEMPORARY
 DIVERSION NOTE.



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**STATE OF TENNESSEE
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**EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 1**

FROM STA. 884+00
 TO STA. 897+00

SCALE: 1"=50'

DEL RIO PIKE SOUTH

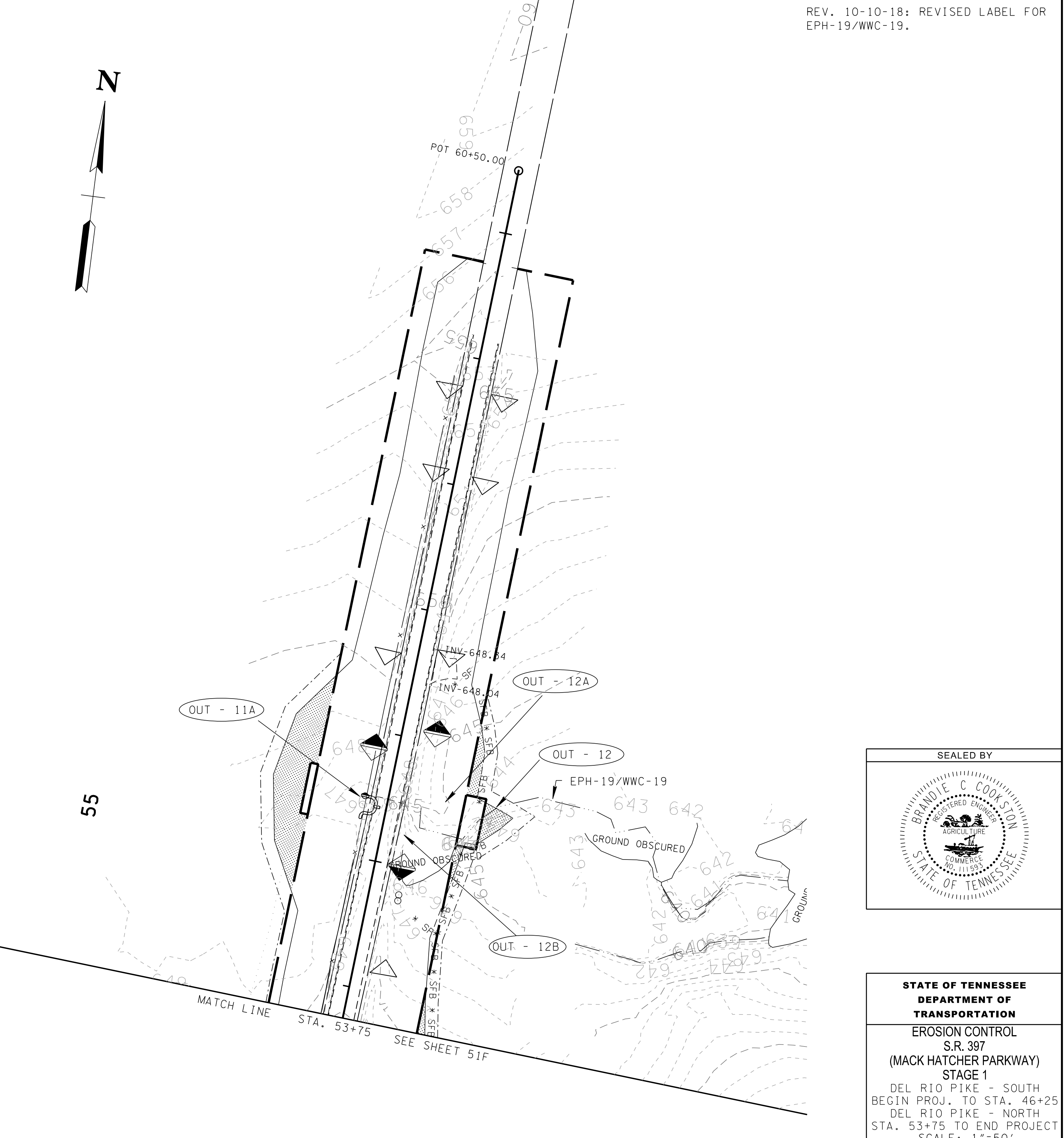
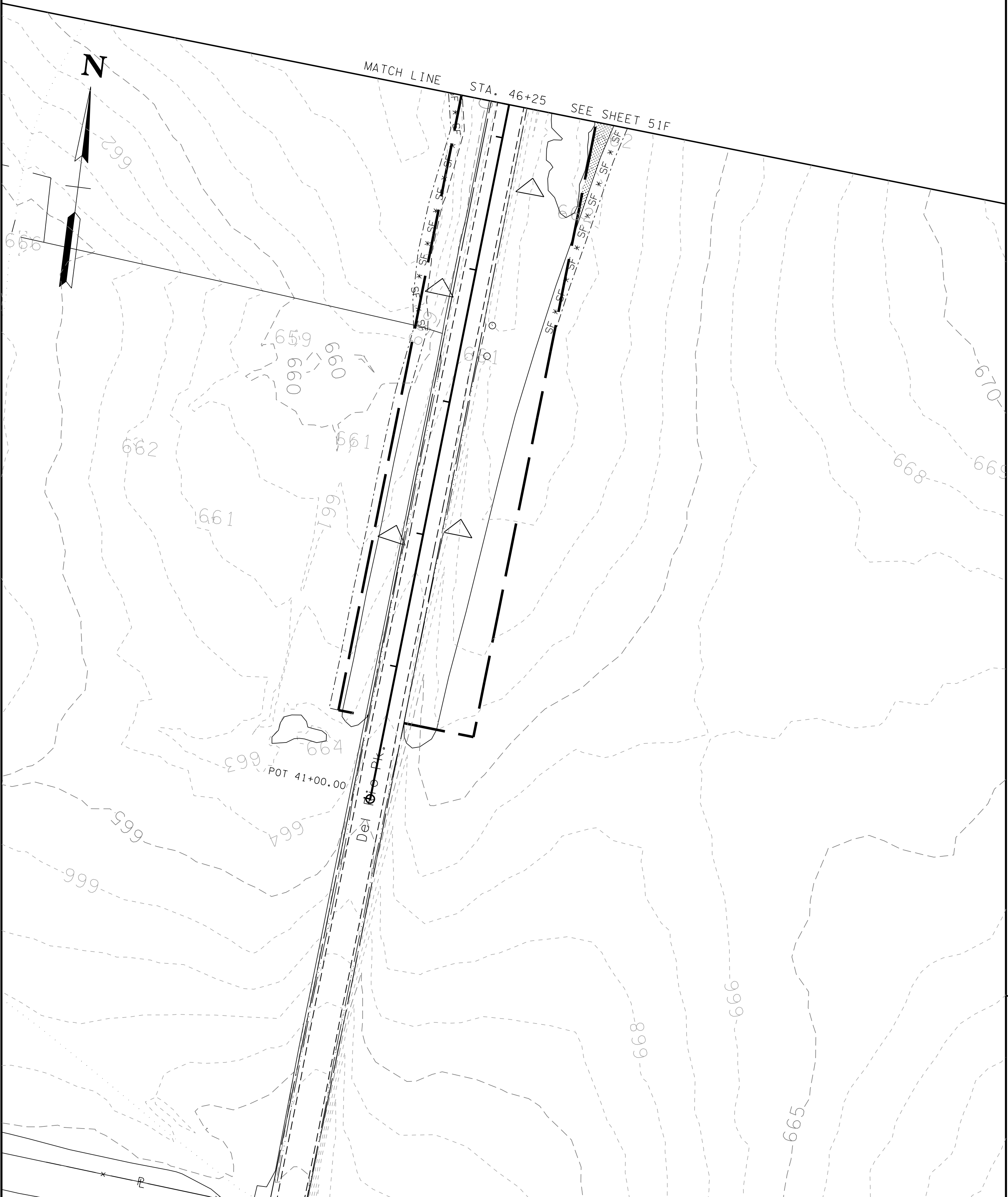
DEL RIO PIKE NORTH

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	55-1
CONST.	2018	STP/HPP-397(10)	51G

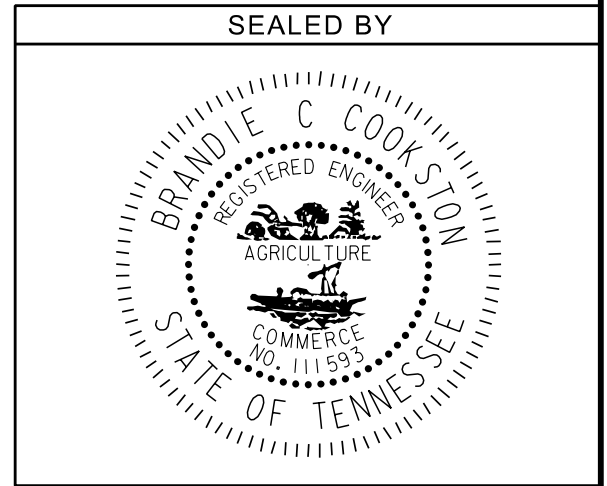
REV. 6-14-18: ADDED OUTFALL 12 AND CULVERT INLET PROTECTION TYPE 2.

REV. 7-17-18: ADDED OUTFALL 11A.

REV. 10-10-18: REVISED LABEL FOR EPH-19/WWC-19.



10/16/2018 8:14:18 AM
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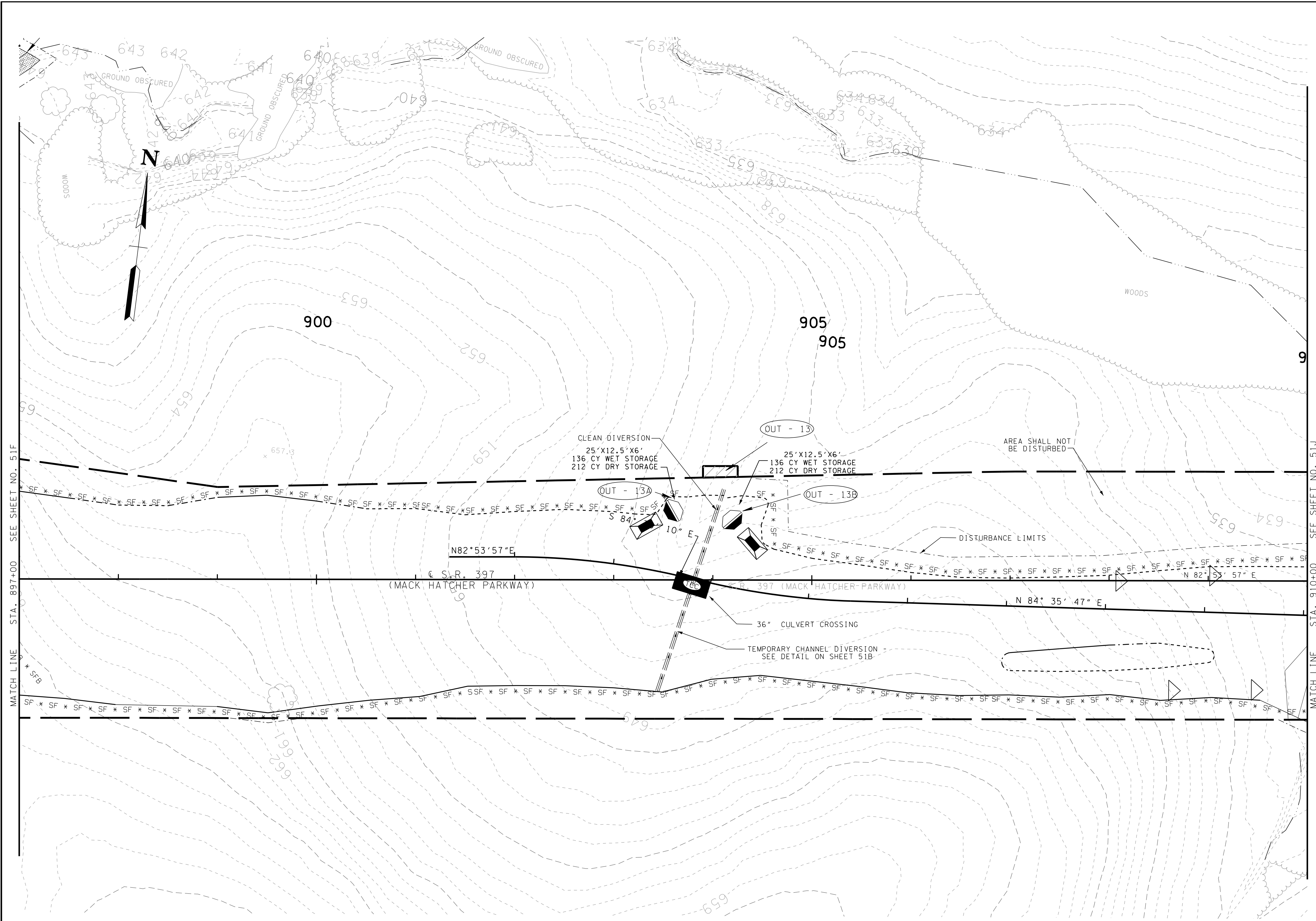


STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION
EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1
 DEL RIO PIKE - SOUTH
 BEGIN PROJ. TO STA. 46+25
 DEL RIO PIKE - NORTH
 STA. 53+75 TO END PROJECT
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	56
CONST.	2018	STP/HPP-397(10)	51H

REV. 6-14-18: ADDED OUTFALLS 13A & 13B.

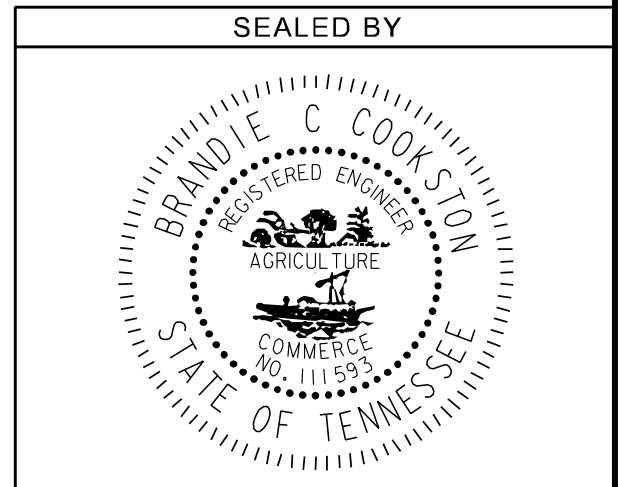
REV. 7-17-18: ADDED TEMPORARY DIVERSION NOTE.



MATCH LINE STA. 897+00 SEE SHEET NO. 51F

MATCH LINE STA. 910+00 SEE SHEET NO. 51J

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**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1**

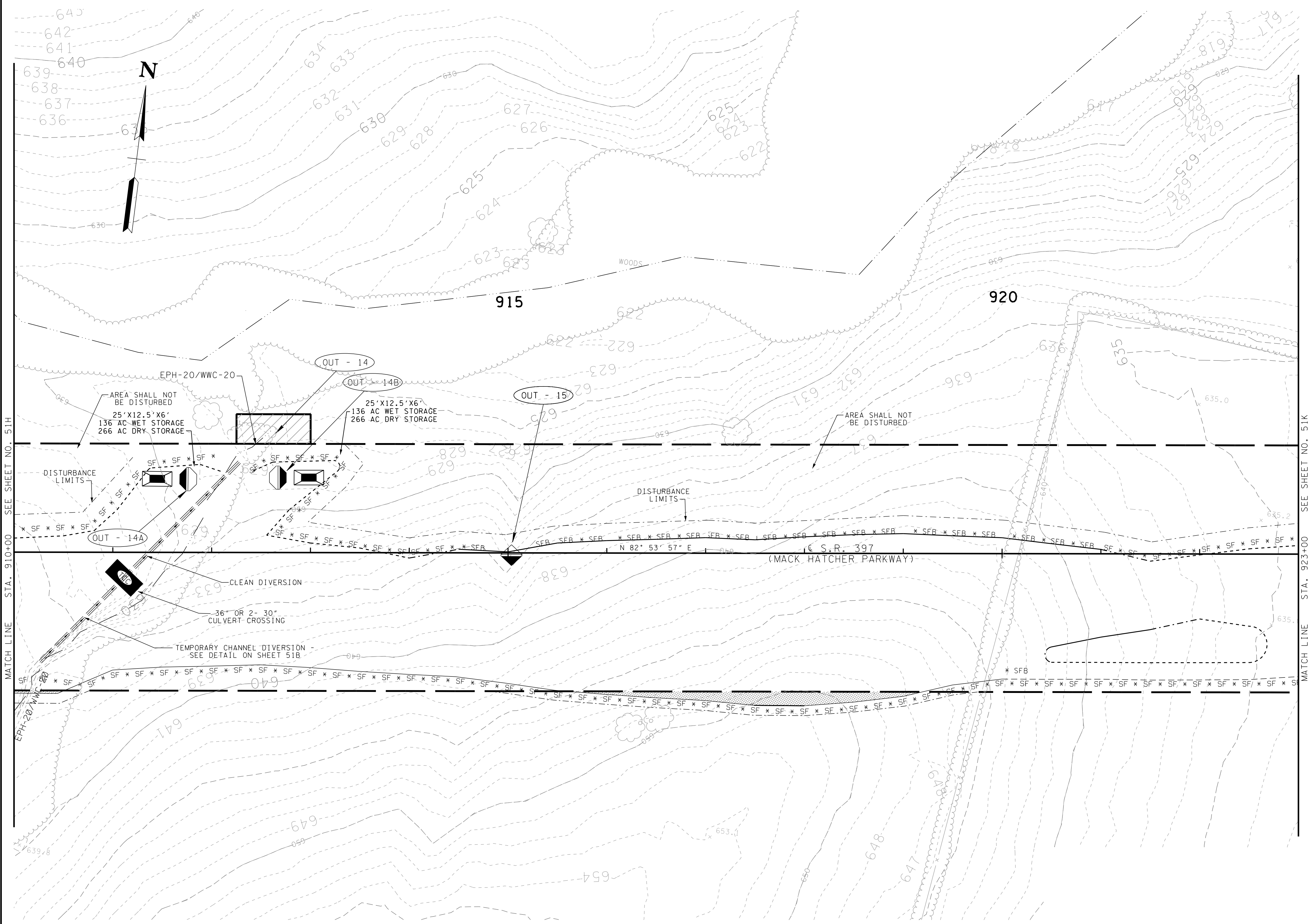
FROM STA. 897+00
TO STA. 910+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	57
CONST.	2018	STP/HPP-397(10)	51J

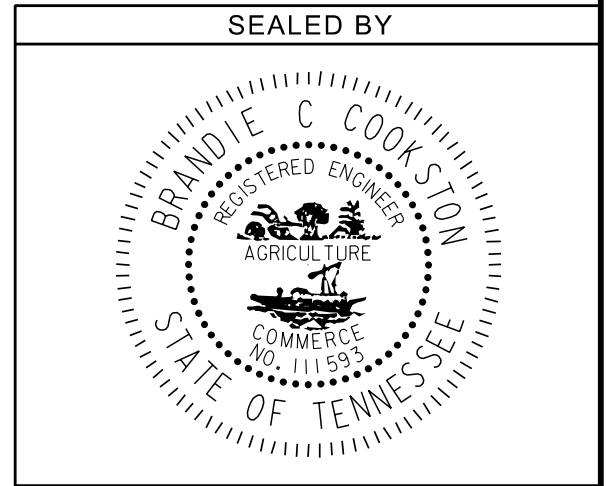
REV. 7-17-18: ADDED TEMPORARY DIVERSION NOTE AND OUTFALLS 14A & 14B.

REV. 10-10-18: REVISED LABEL FOR EPH-20/WWX-20.



MATCH LINE STA. 910+00 SEE SHEET NO. 51H

MATCH LINE STA. 923+00 SEE SHEET NO. 51K



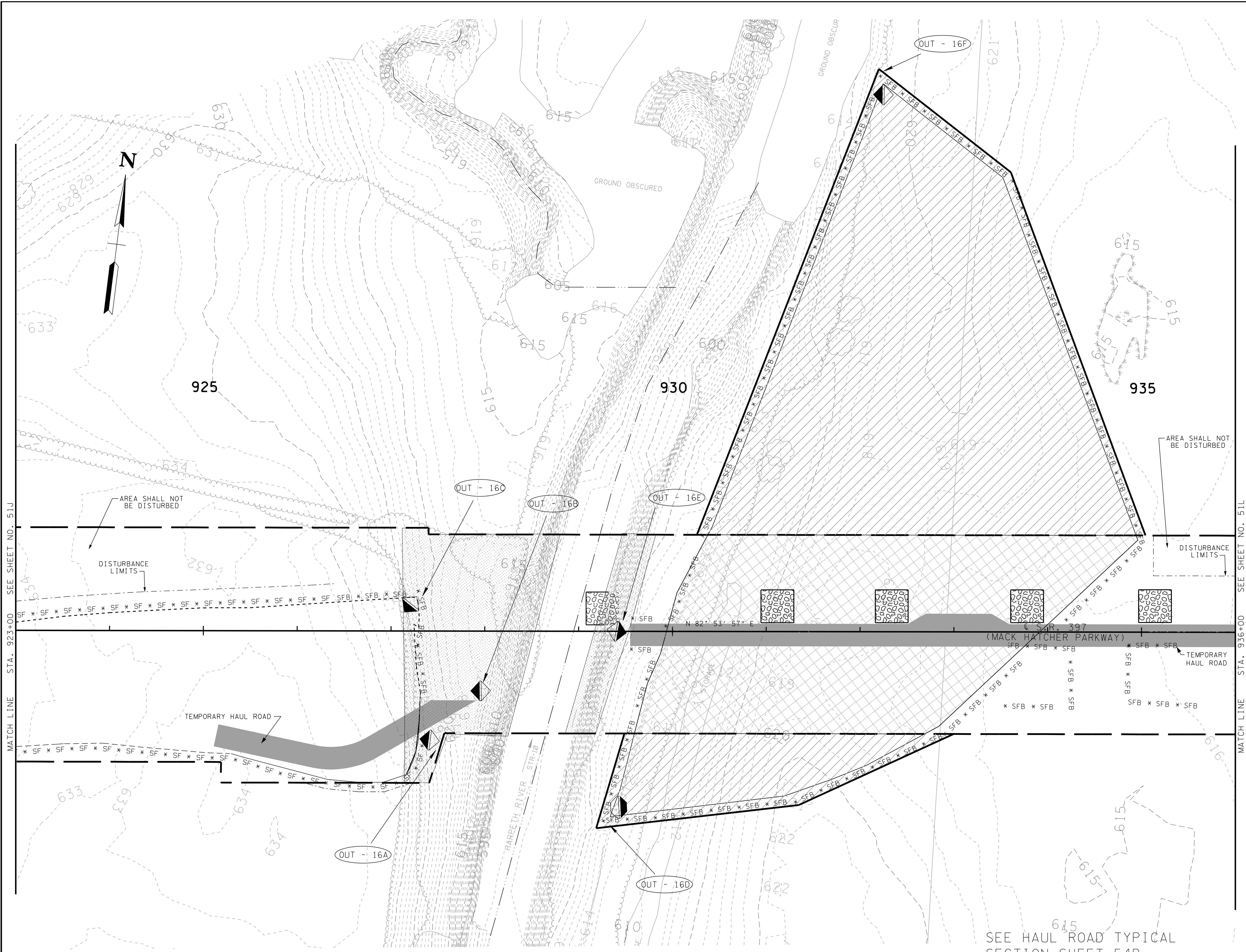
**STATE OF TENNESSEE
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**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1**

FROM STA. 910+00
TO STA. 923+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	58
CONST.	2018	STP/HPP-397(10)	51K

REV. 6-14-18: REMOVED STR-6 LABEL.



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**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1**

FROM STA. 923+00
TO STA. 936+00
SCALE: 1"=50'

SEE HAUL ROAD TYPICAL SECTION SHEET 54B

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	59
CONST.	2018	STP/HPP-397(10)	51L

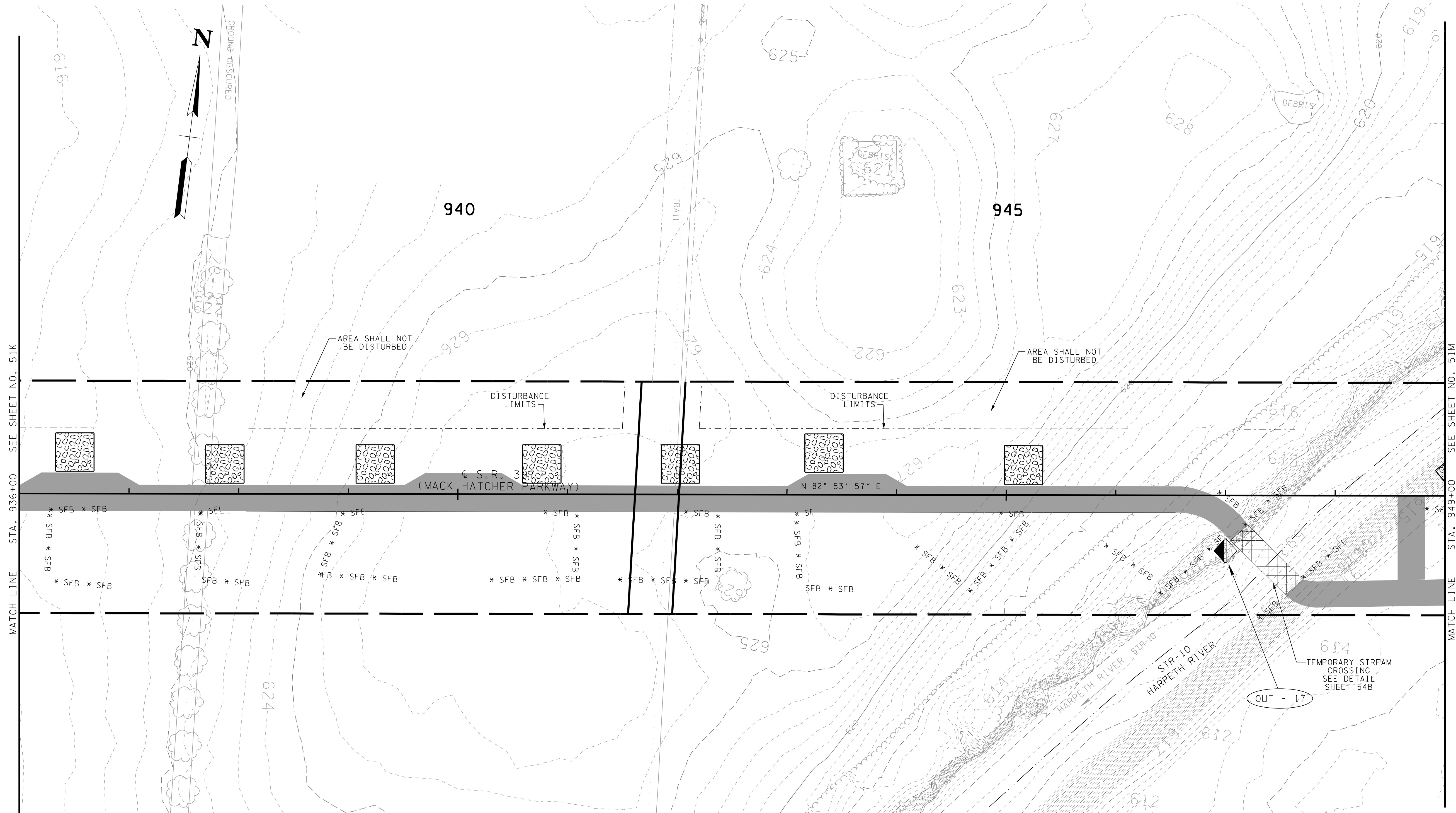
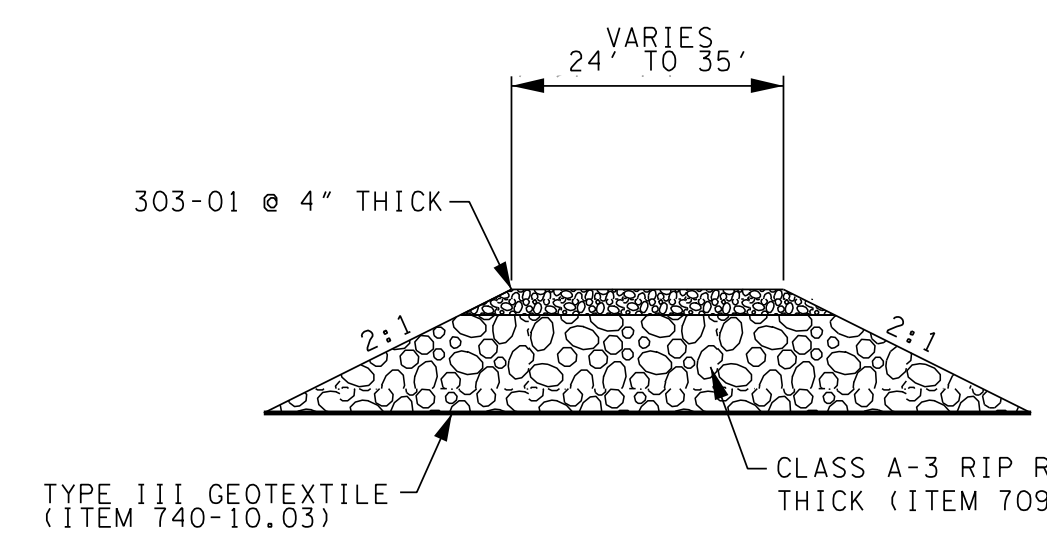


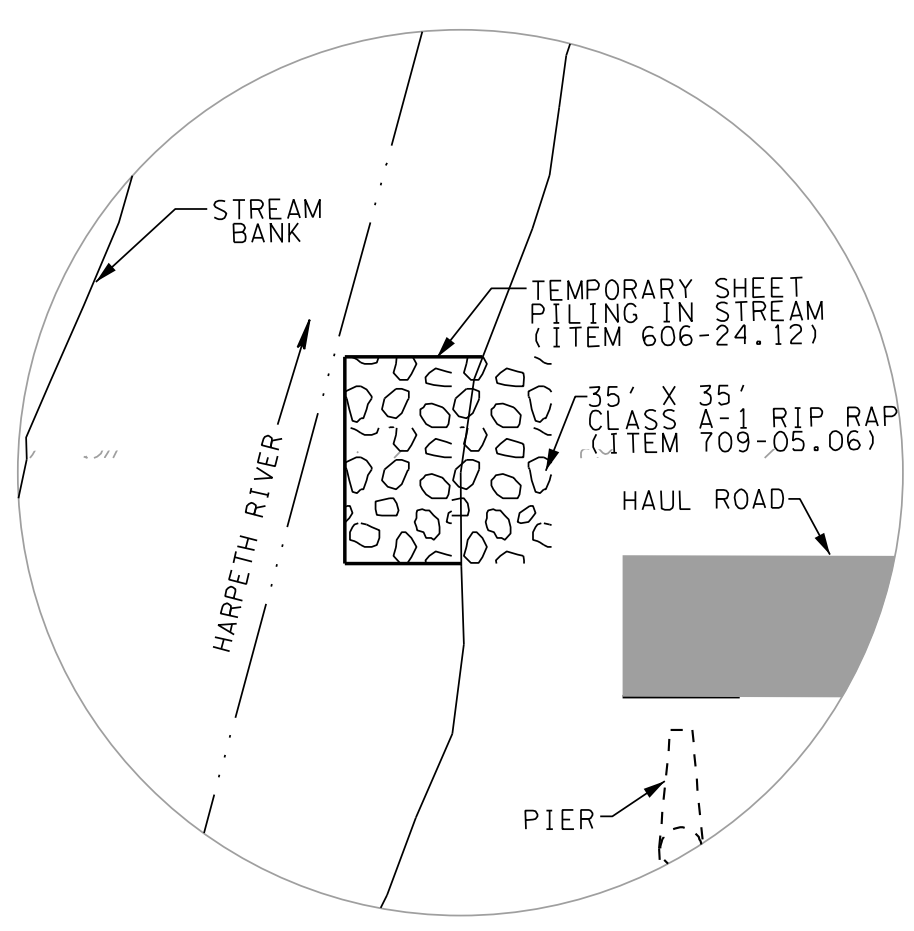
TABLE OF PARAPET DRAIN LOCATIONS

Node - Station	Node - Offset
926+55.00	62

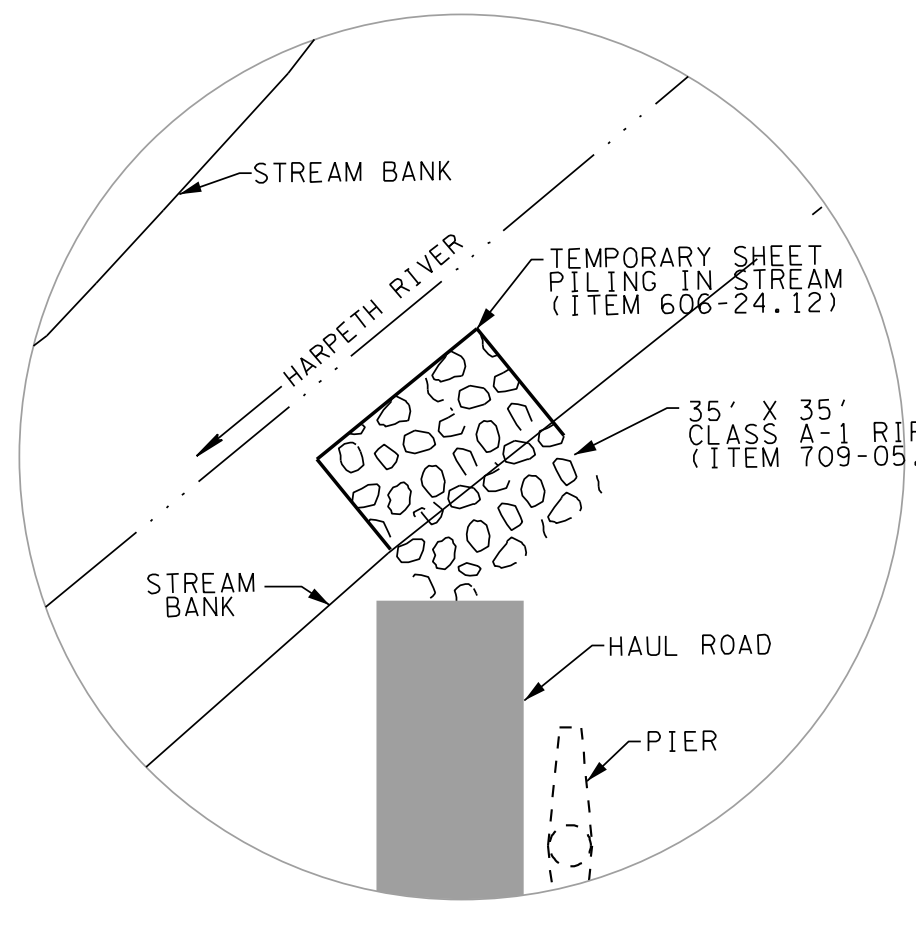


HAUL ROAD IS MINIMUM 24' WIDE EXCEPT AT STREAM CROSSING. QUANTITIES ARE CALCULATED BASED ON PASSING BAYS THAT ARE 35' WIDE, 70' LONG AND SPACED 350' CENTER TO CENTER. CONTRACTOR MAY LOCATE PASSING BAYS AS NECESSARY.

CRANE PAD QUANTITIES ARE CALCULATED BASED ON 35' X 35' PAD DIMENSIONS WITH 2:1 SLOPES AND 4\"/>



INSET 1
IN-STREAM CRANE PAD



INSET 2
IN-STREAM CRANE PAD

STREAM CRANE PADS SHALL OBSTRUCT NO MORE THAN ONE-THIRD OF THE HARPEATH RIVER CHANNEL WIDTH. THE CONTRACTOR SHALL LOCATE THE IN-STREAM CRANE PADS AS NECESSARY. QUANTITIES ARE CALCULATED BASED ON 20' OF THE PAD PROJECTING INTO THE STREAM CHANNEL AND A CLASS A-1 RIP RAP DEPTH OF 14\"/>

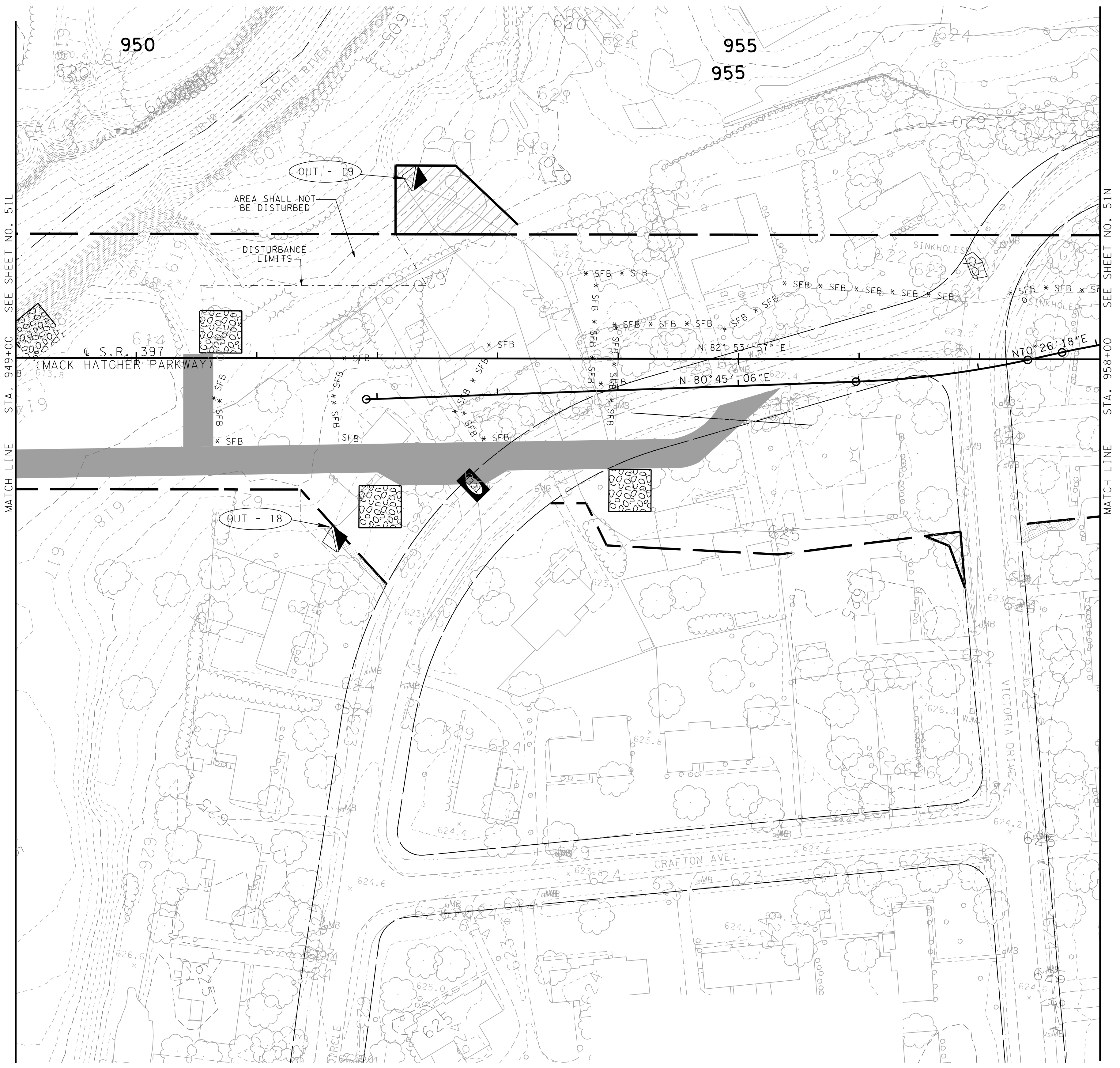
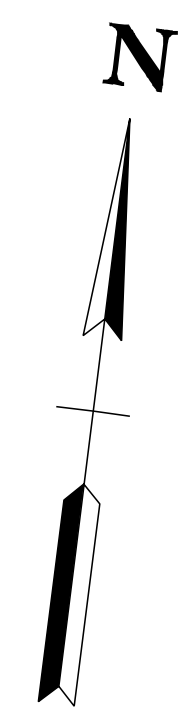
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**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1**

FROM STA. 936+00
TO STA. 949+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	60
CONST.	2018	STP/HPP-397(10)	51M



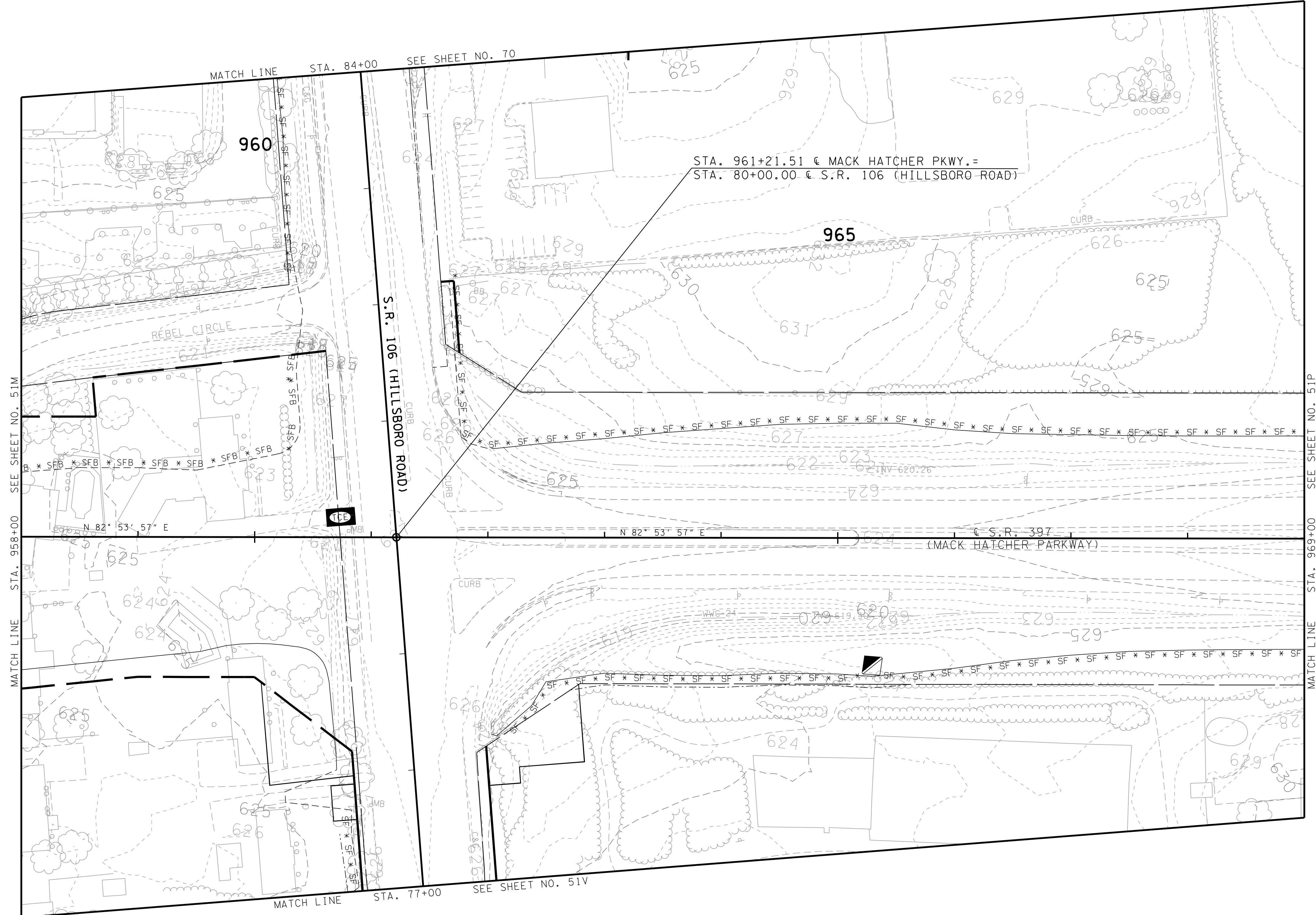
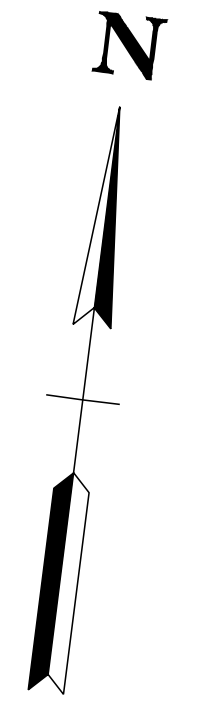
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EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1

FROM STA. 949+00
TO STA. 958+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	61
CONST.	2018	STP/HPP-397(10)	51N



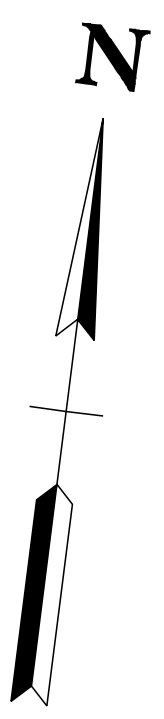
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TRANSPORTATION**

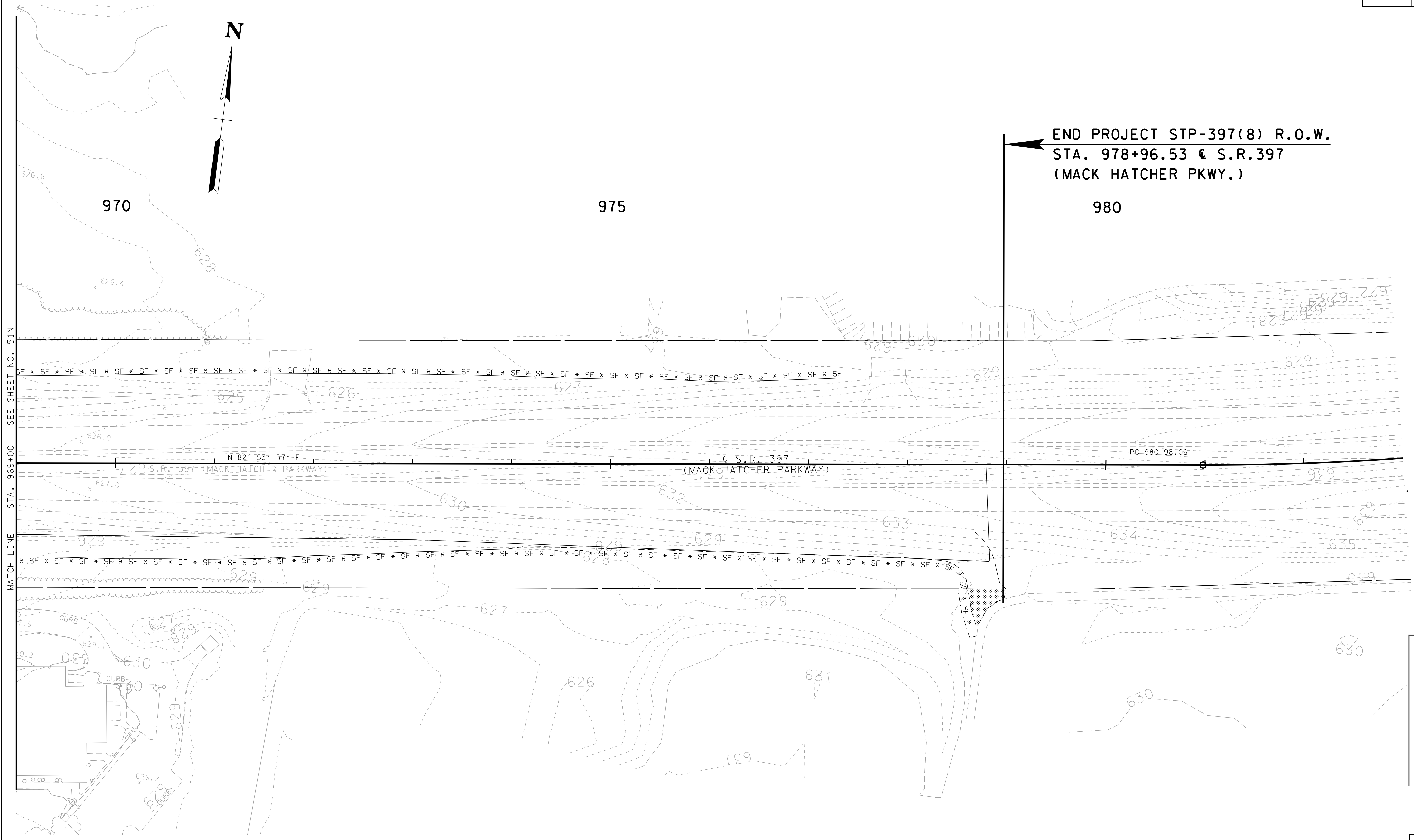
EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 1

FROM STA. 958+00
TO STA. 969+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	62
CONST.	2018	STP/HPP-397(10)	51P



← END PROJECT STP-397(8) R.O.W.
 STA. 978+96.53 @ S.R.397
 (MACK HATCHER PKWY.)



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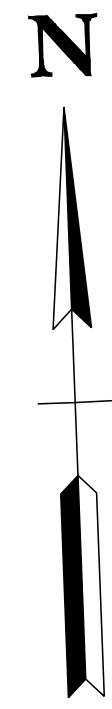
EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 1

FROM STA. 969+00
 TO END PROJECT
 SCALE: 1"=50'

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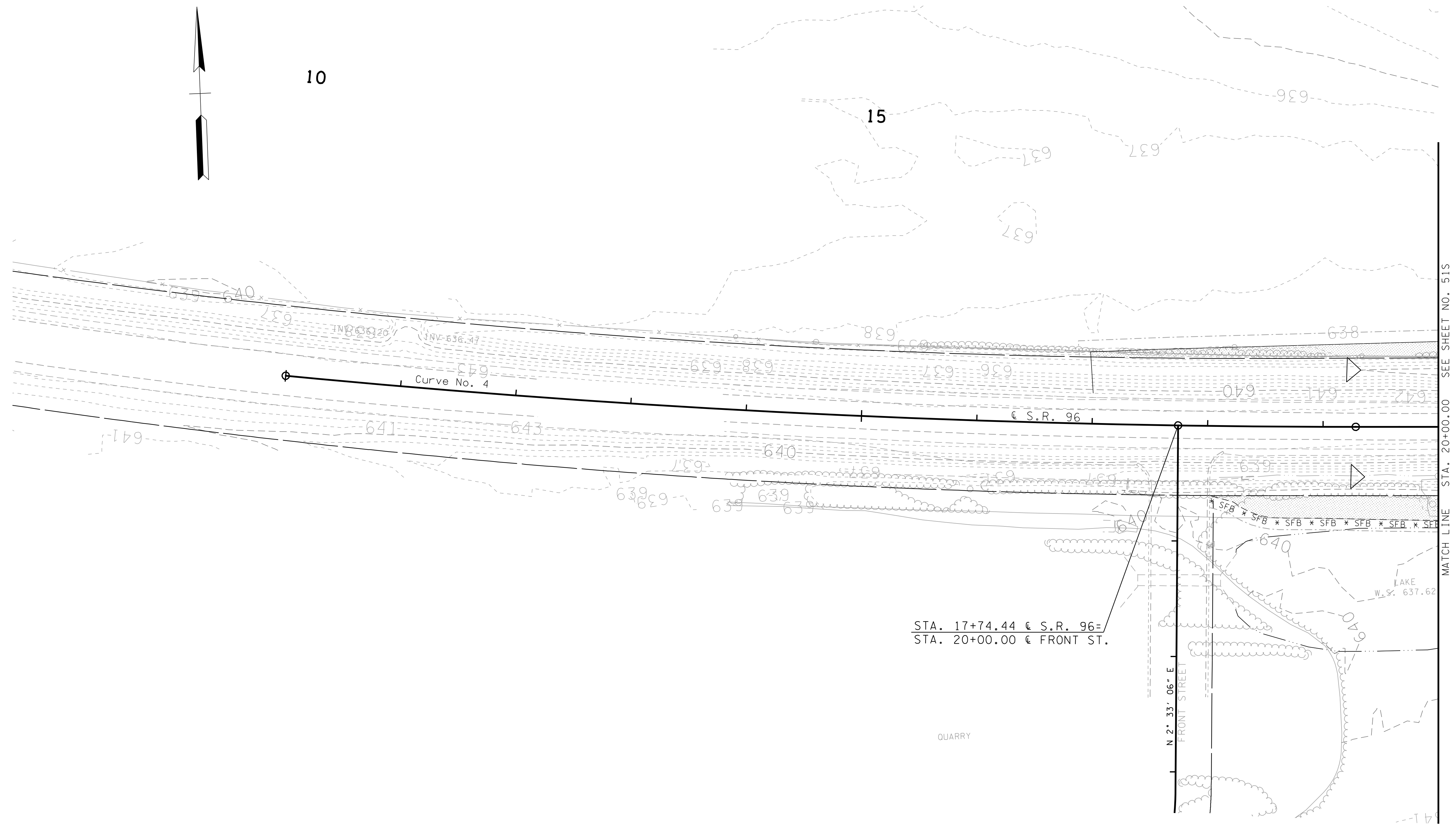
MATCH LINE STA. 969+00 SEE SHEET NO. 51N

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	64
CONST.	2018	STP/HPP-397(10)	51R



10

15



STA. 17+74.44 @ S.R. 96=
 STA. 20+00.00 @ FRONT ST.

QUARRY

N 2° 33' 06" E
 FRONT STREET

MATCH LINE STA. 20+00.00 SEE SHEET NO. 51S

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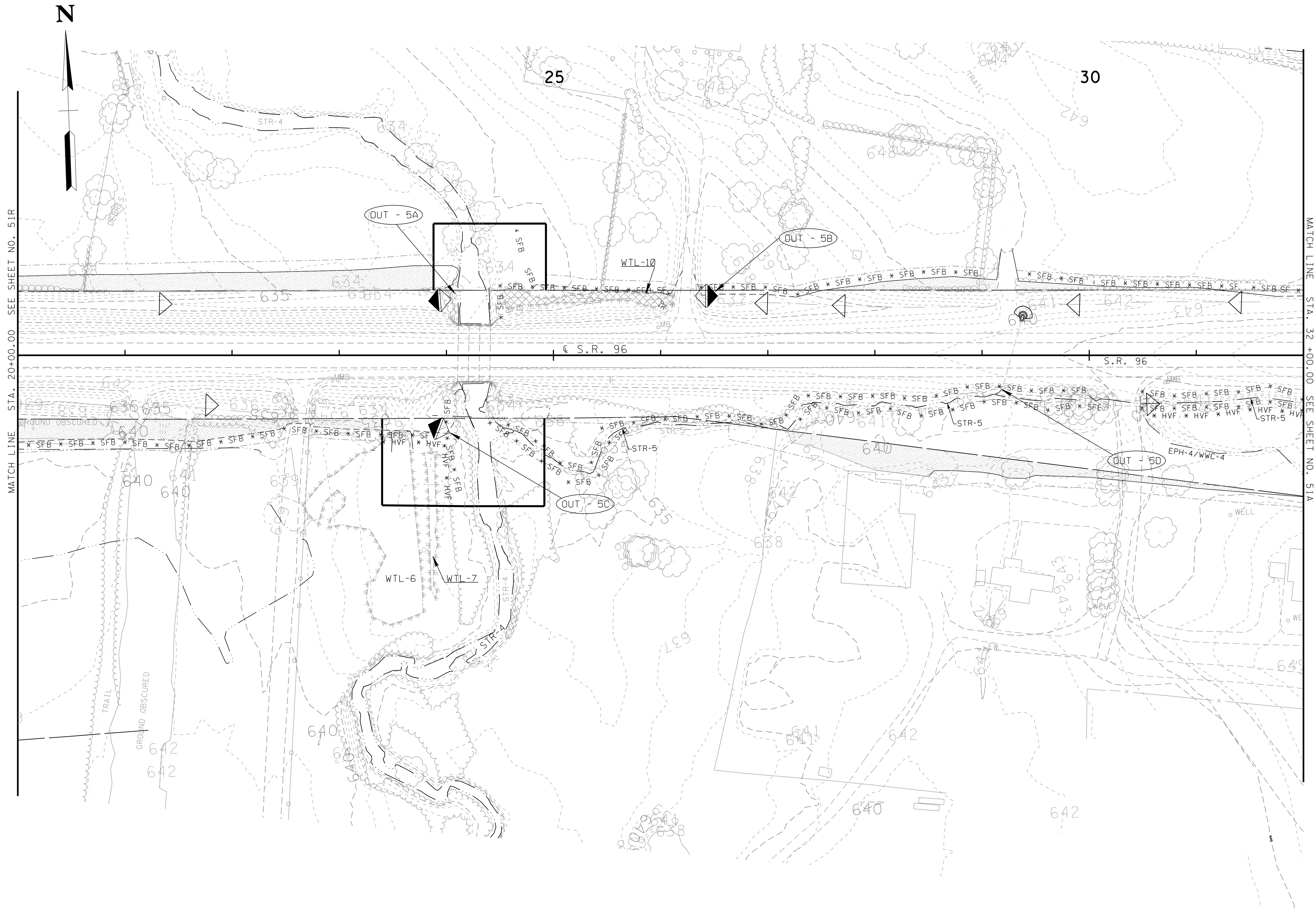
**EROSION CONTROL
 S.R. 96
 STAGE 1**

STA. 10+00.00
 LIMITS OF PROJECT
 TO STA. 20+00.00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	65
CONST.	2018	STP/HPP-397(10)	51S

REV. 6-14-18: UPDATED ENVIRONMENTAL FEATURES AND ADDED OUTFALL 5D.



MATCH LINE STA. 20+00.00 SEE SHEET NO. 51R

MATCH LINE STA. 32+00.00 SEE SHEET NO. 51A

WETLAND IMPACTS	WTL-6		WTL-10	
	AREA (AC.)	VOLUME (CY)	AREA (AC.)	VOLUME (CY)
AREA OF TEMPORARY IMPACT	0.000	0	0.000	0.000
AREA OF PERMANENT IMPACT	0.003	5.432	0.032	51.481
TOTAL	0.003	5.432	0.032	51.481

WETLAND LEGEND

- WETLAND BOUNDARY
- [Hatched Box] AREA OF TEMPORARY IMPACT TO WETLANDS
- [Cross-hatched Box] AREA OF PERMANENT IMPACT TO WETLANDS

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND FILL SLOPE AND PROPOSED RIGHT-OF-WAY. PLACE HIGH VISIBILITY FENCE BETWEEN SLOPE LINES AND WETLANDS. SEE EPSC PLANS FOR LOCATIONS.

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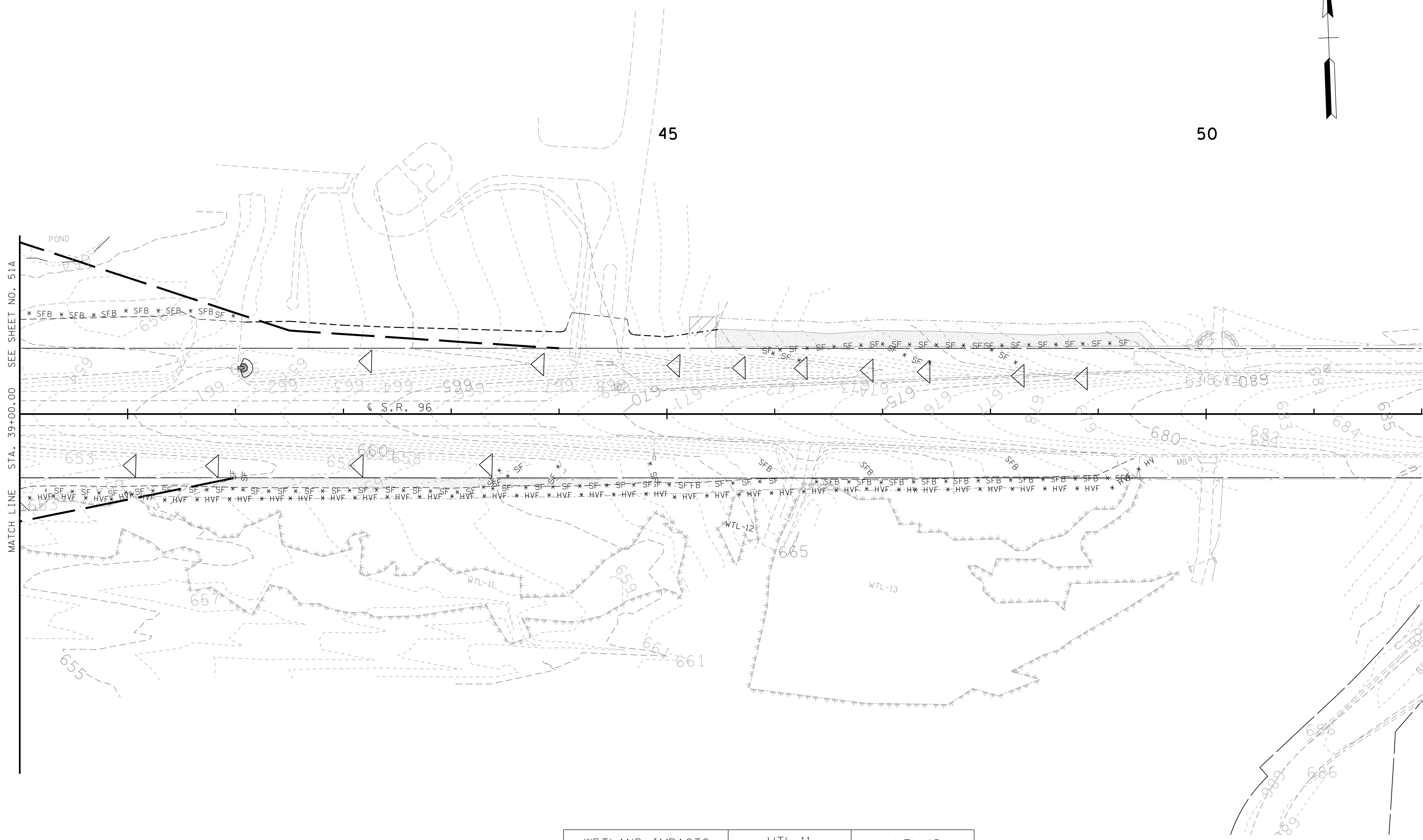
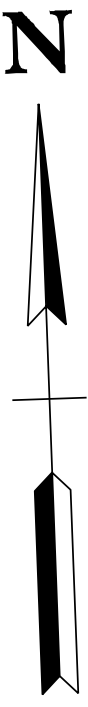
**EROSION CONTROL
S.R. 96
STAGE 1**

FROM STA. 20+00.00
TO STA. 32+00.00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	66
CONST.	2018	STP/HPP-397(10)	51T

REV. 6-14-18: UPDATED SILT FENCE.



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WETLAND IMPACTS	WTL-11		WTL-13	
	AREA (AC.)	VOLUME (CY)	AREA (AC.)	VOLUME (CY)
AREA OF TEMPORARY IMPACT	0.000	0.000	0.000	0.000
AREA OF PERMANENT IMPACT	0.000	0.000	0.003	5.167
TOTAL	0.000	0.000	0.003	5.167

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND FILL SLOPE AND PROPOSED RIGHT-OF-WAY. PLACE HIGH VISIBILITY FENCE BETWEEN SLOPE LINES AND WETLANDS. SEE EPSC PLANS FOR LOCATIONS.

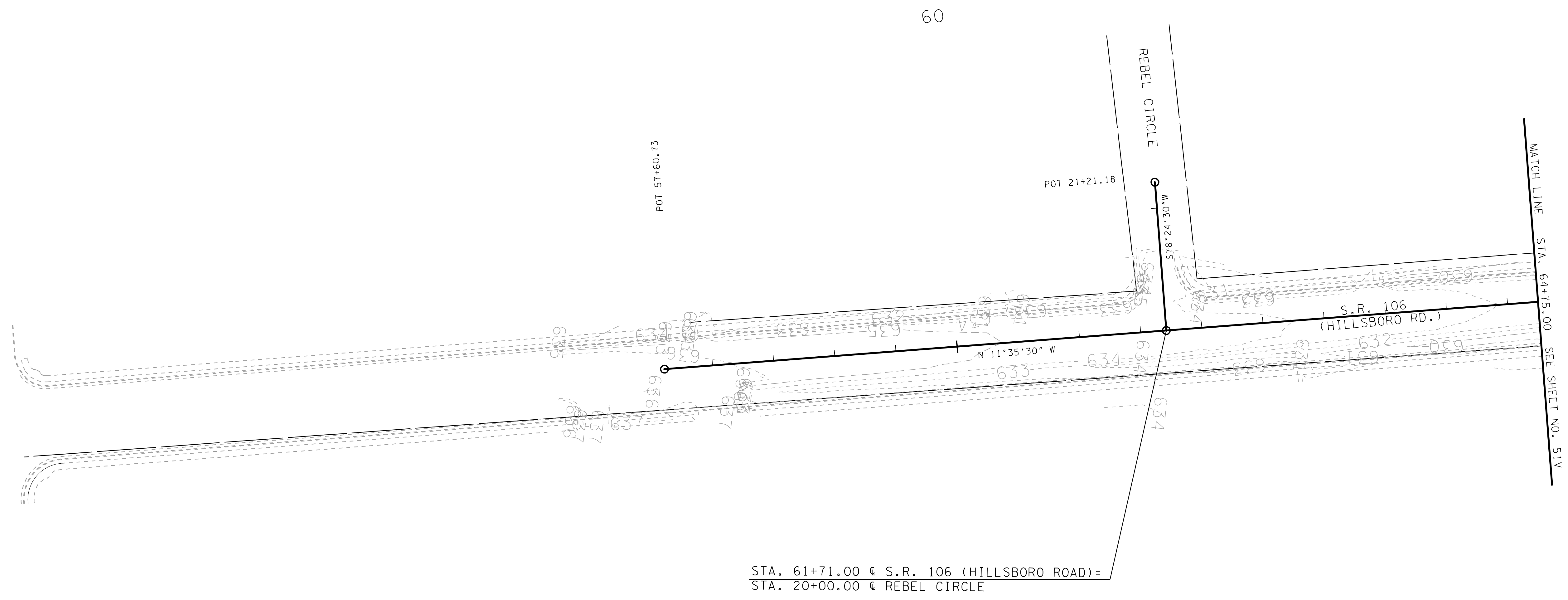
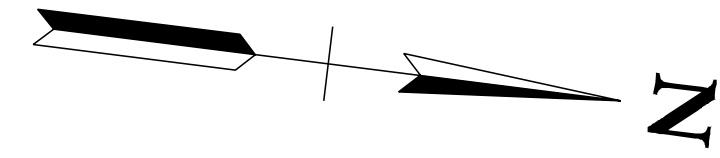
**STATE OF TENNESSEE
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**EROSION CONTROL
S.R. 96
STAGE 1**

FROM STA. 39+00.00
TO STA. 52+00.00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	68
CONST.	2018	STP/HPP-397(10)	51U



STA. 61+71.00 @ S.R. 106 (HILLSBORO ROAD) =
 STA. 20+00.00 @ REBEL CIRCLE

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EROSION CONTROL
 S.R. 106
 (HILLSBORO ROAD)
 STAGE 1

LIMITS OF PROJECT
 STA. 59+06.14
 TO STA. 64+75.00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	69
CONST.	2018	STP/HPP-397(10)	51V

REV. 6-14-18: UPDATED SILT FENCE.



STA. 65+61.00 @ S.R. 106 (HILLSBORO ROAD) =
STA. 20+00.00 @ CLAUDE YATES DRIVE

MATCH LINE
STA. 64+75.00 SEE SHEET NO. 51U

MATCH LINE
STA. 77+00
SEE SHEET NO. 51W

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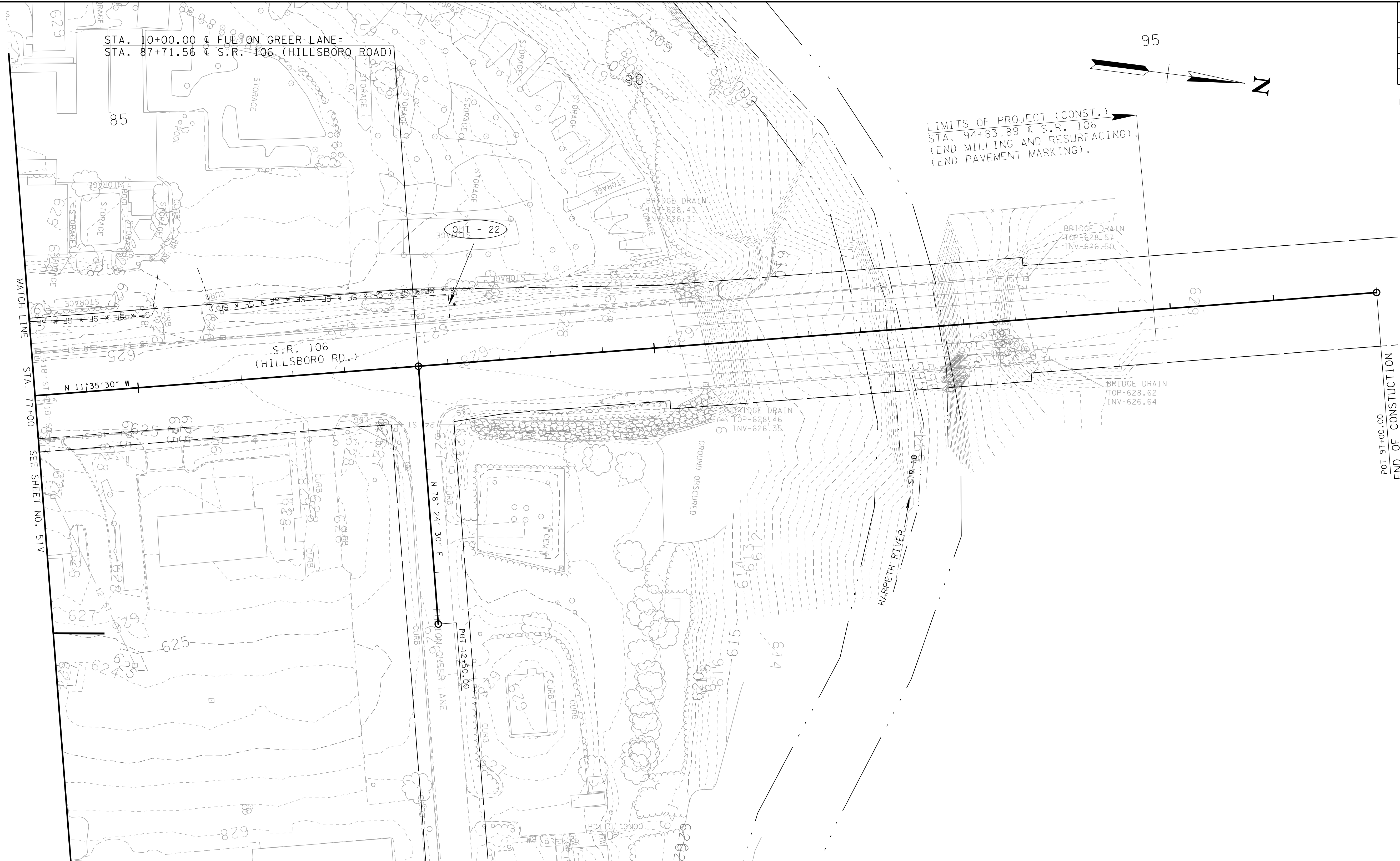
EROSION CONTROL
S.R. 106
(HILLSBORO ROAD)
STAGE 1

FROM STA. 64+75.00
TO STA. 77+00.00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	70
CONST.	2018	STP/HPP-397(10)	51W

REV. 6-14-18: ADDED OUTFALL 22.



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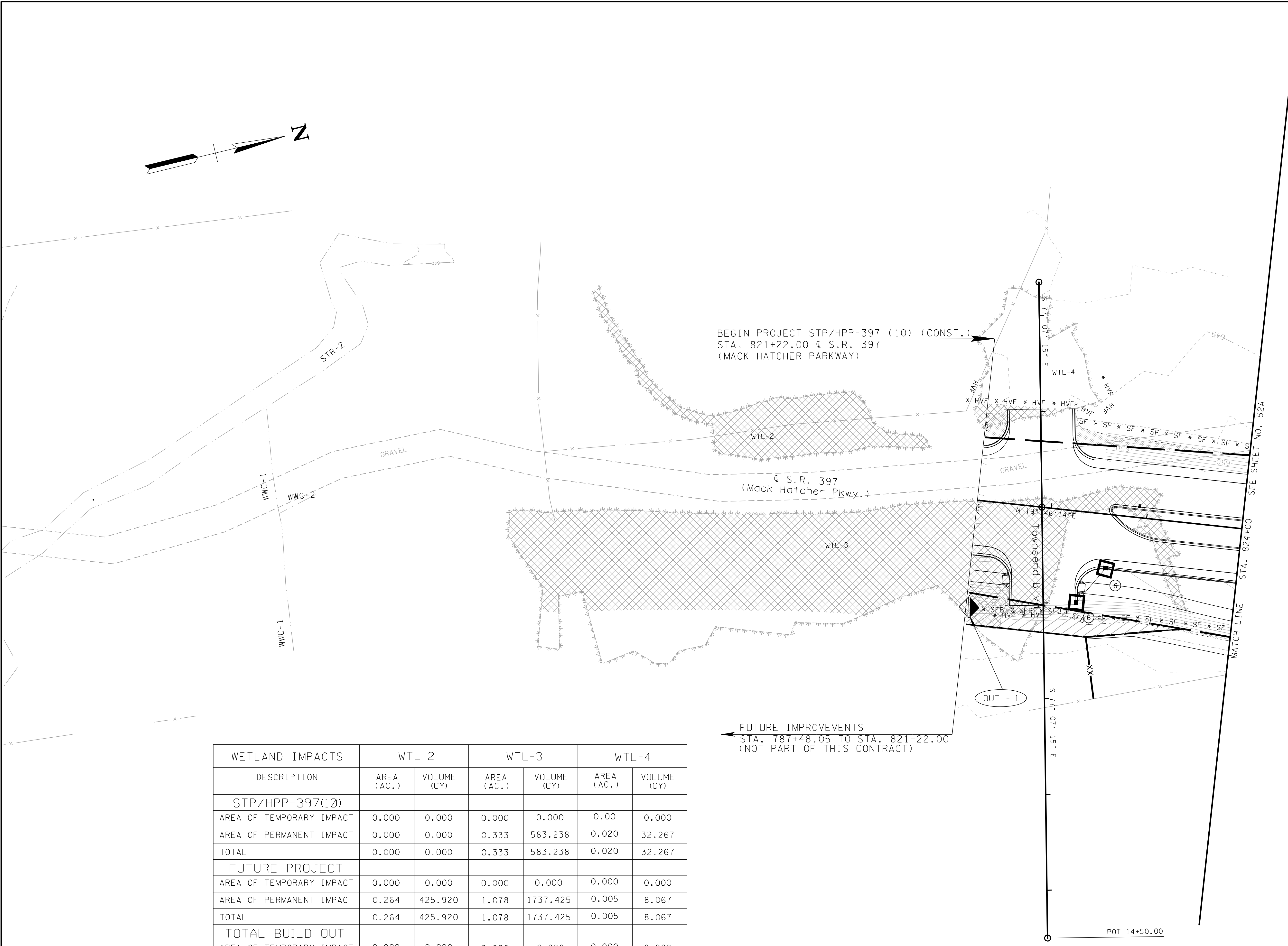
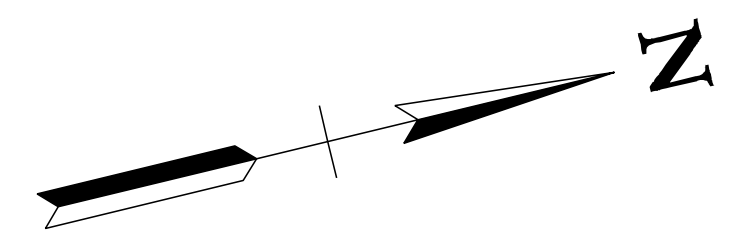
**STATE OF TENNESSEE
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EROSION CONTROL
S.R. 106
(HILLSBORO ROAD)
STAGE 1

FROM STA. 64+75.00
TO STA. 77+00.00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	49-A
CONST.	2018	STP/HPP-397(10)	52



WETLAND IMPACTS	WTL-2		WTL-3		WTL-4	
DESCRIPTION	AREA (AC.)	VOLUME (CY)	AREA (AC.)	VOLUME (CY)	AREA (AC.)	VOLUME (CY)
STP/HPP-397(10)						
AREA OF TEMPORARY IMPACT	0.000	0.000	0.000	0.000	0.00	0.000
AREA OF PERMANENT IMPACT	0.000	0.000	0.333	583.238	0.020	32.267
TOTAL	0.000	0.000	0.333	583.238	0.020	32.267
FUTURE PROJECT						
AREA OF TEMPORARY IMPACT	0.000	0.000	0.000	0.000	0.000	0.000
AREA OF PERMANENT IMPACT	0.264	425.920	1.078	1737.425	0.005	8.067
TOTAL	0.264	425.920	1.078	1737.425	0.005	8.067
TOTAL BUILD OUT						
AREA OF TEMPORARY IMPACT	0.000	0.000	0.000	0.000	0.000	0.000
AREA OF PERMANENT IMPACT	0.264	425.920	1.411	2275.663	0.025	40.333
TOTAL	0.264	425.920	1.411	2275.663	0.025	40.333

BEGIN PROJECT STP/HPP-397 (10) (CONST.)
 STA. 821+22.00 @ S.R. 397
 (MACK HATCHER PARKWAY)

FUTURE IMPROVEMENTS
 STA. 787+48.05 TO STA. 821+22.00
 (NOT PART OF THIS CONTRACT)

MATCH LINE STA. 824+00 SEE SHEET NO. 52A

POT 14+50.00

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 TRANSPORTATION**

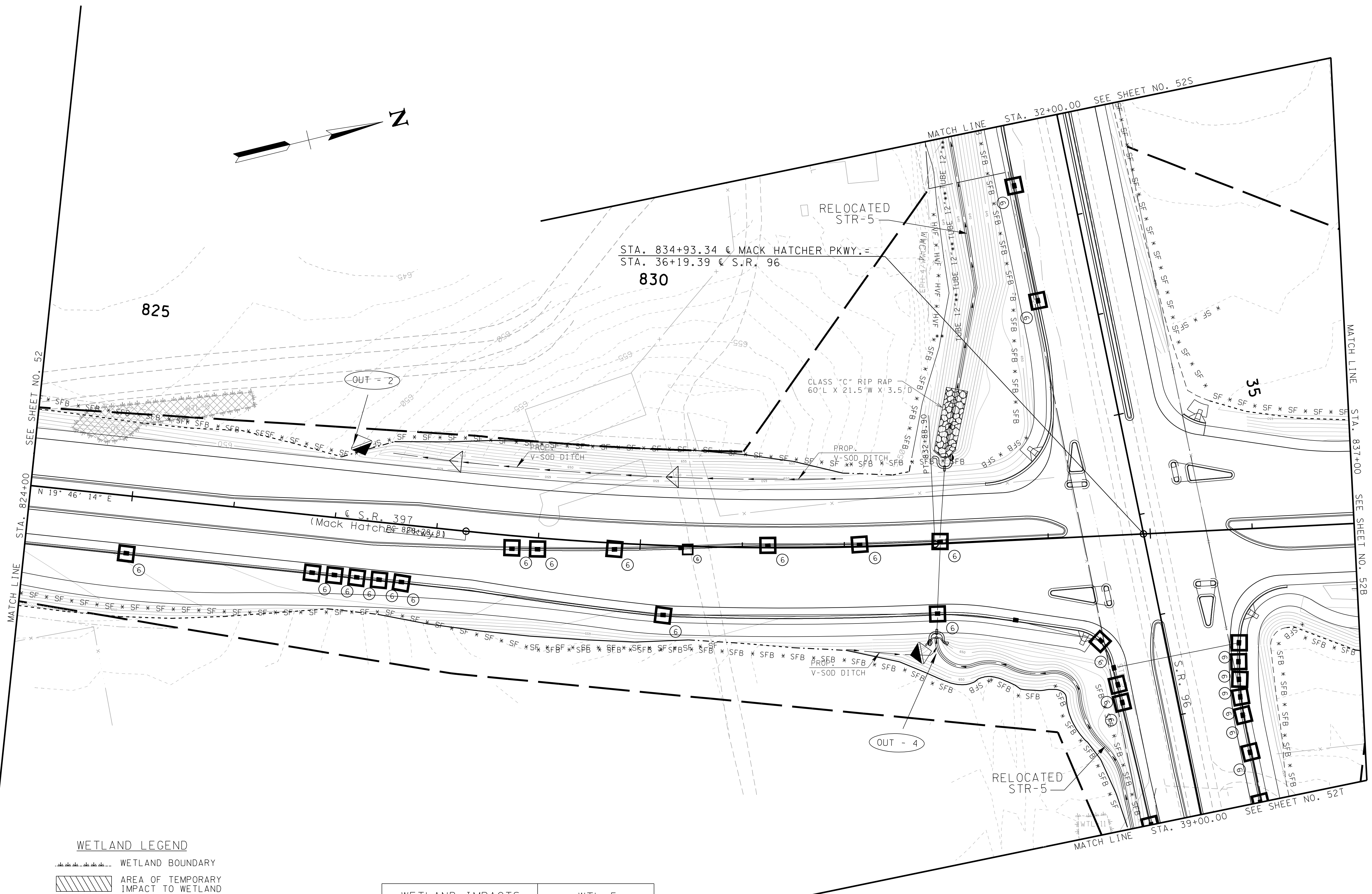
**EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 2**

FROM STA. 812+00
 TO STA. 824+00
 SCALE: 1"=50'

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND
 FILL SLOPE AND PROPOSED RIGHT-OF-WAY.
 PLACE HIGH VISIBILITY FENCE BETWEEN SLOPE LINES
 AND WETLANDS. SEE EPSC PLANS FOR LOCATIONS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	50-A
CONST.	2018	STP/HPP-397(10)	52-A

REV. 6-14-18: UPDATED ENVIRONMENTAL FEATURES.



WETLAND LEGEND

- ***** WETLAND BOUNDARY
- AREA OF TEMPORARY IMPACT TO WETLAND
- AREA OF PERMANENT IMPACT TO WETLANDS

WETLAND IMPACTS	WTL-5	
	AREA (AC.)	VOLUME (CY.)
AREA OF TEMPORARY IMPACT	0.000	0.000
AREA OF PERMANENT IMPACT	0.084	135.036
TOTAL	0.084	135.036

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND FILL SLOPE AND PROPOSED RIGHT-OF-WAY.

**UNOFFICIAL SET
NOT FOR BIDDING**

**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2**

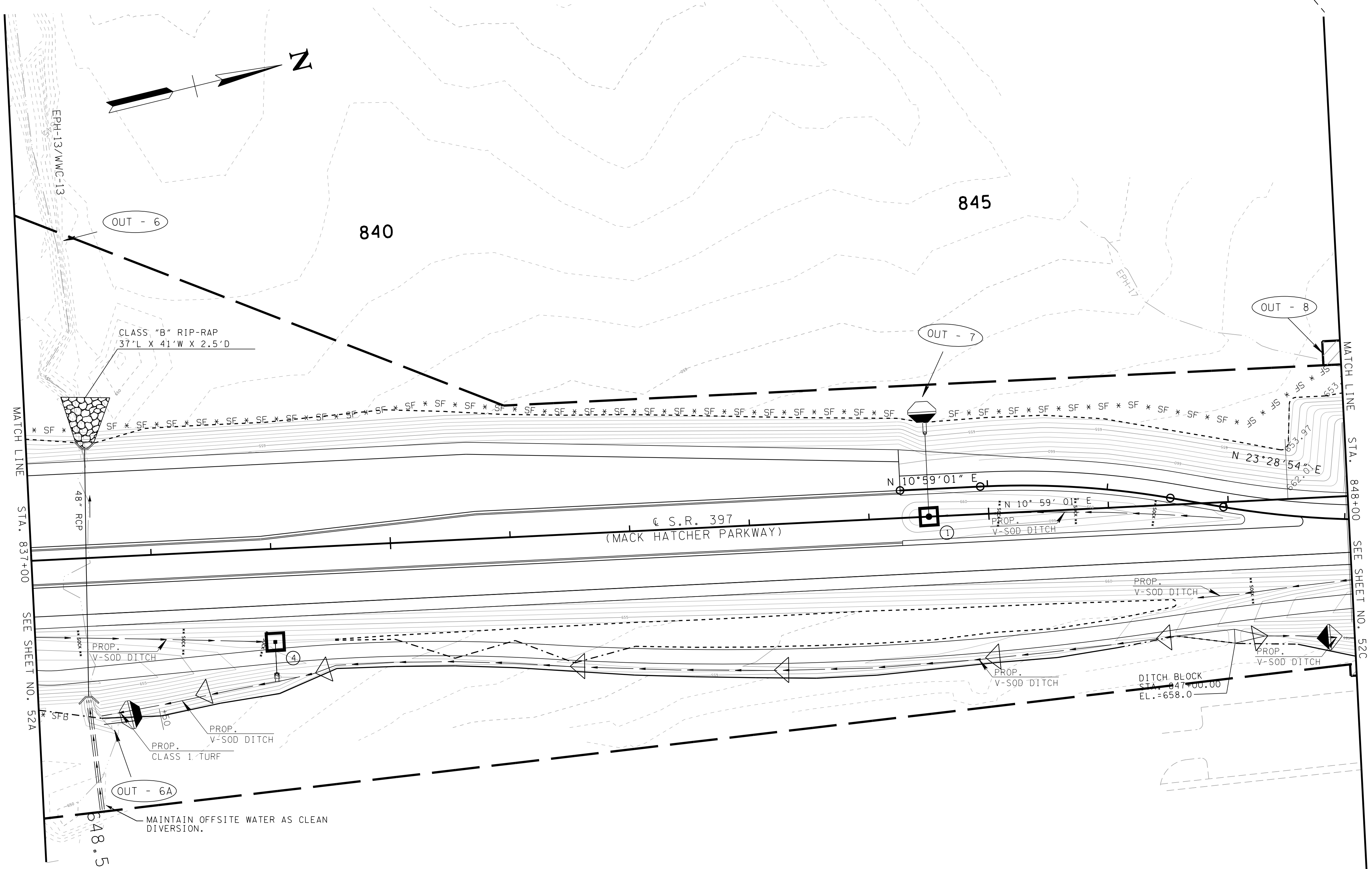
FROM STA. 824+00
TO STA. 837+00

SCALE: 1"=50'

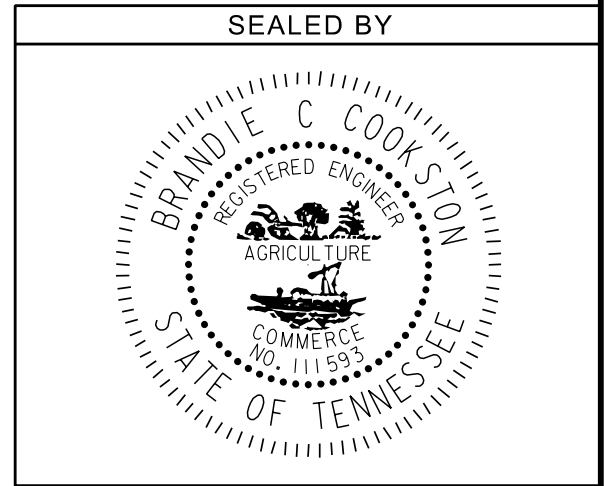
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	51-A
CONST.	2018	STP/HPP-397(10)	52-B

REV. 6-14-18: ADDED OUTFALL 6A.

REV. 10-10-18: ERVISED LABEL FOR EPH-13/WWC-13. ADDED NOTE FOR CLEAN WATER DIVERSION.



10/16/2018 8:14:51 AM M:\Franklin\mackhatcherpkwy\2-Lane\Sheets_2Lane\052B_erosion_2Lane.sht



**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

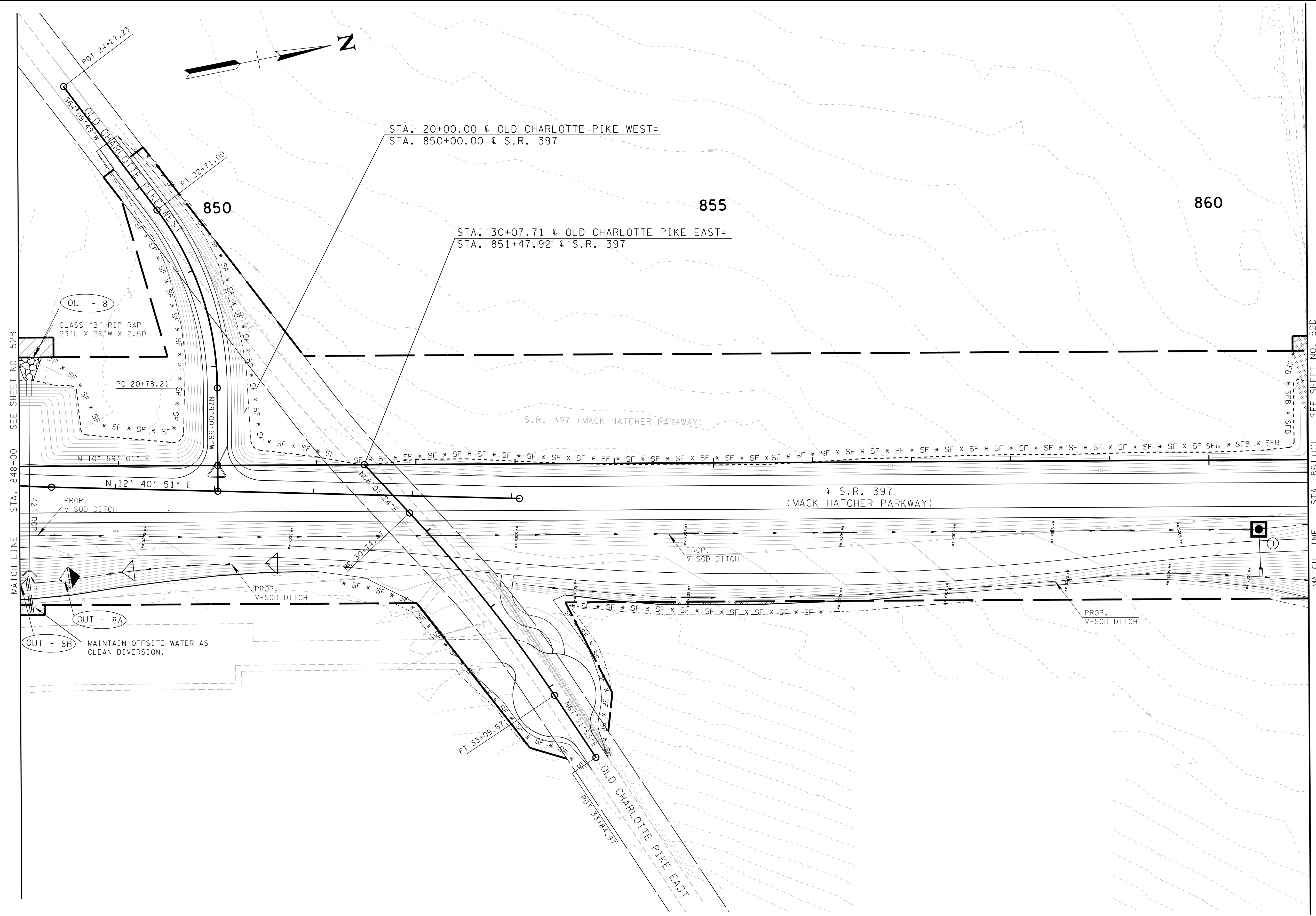
**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2**

FROM STA. 837+00
TO STA. 848+00
SCALE: 1"=50'

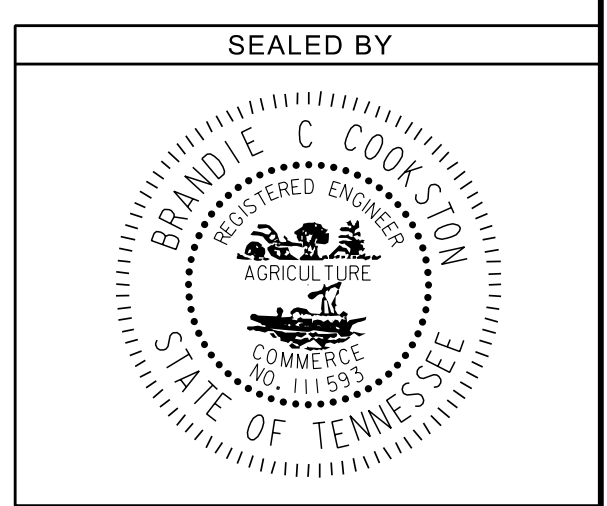
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	52-A
CONST.	2018	STP/HPP-397(10)	52-C

REV. 7-17-18: ADDED OUTFALLS 8A & 8B.

REV. 10-10-18: REMOVED INLET PROTECTION; ADDED ENHANCED ROCK CHECK DAM; ADDED TEMPORARY DIVERSION CHANNEL AND NOTE.



10/16/2018 8:14:53 AM
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**STATE OF TENNESSEE
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**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2**

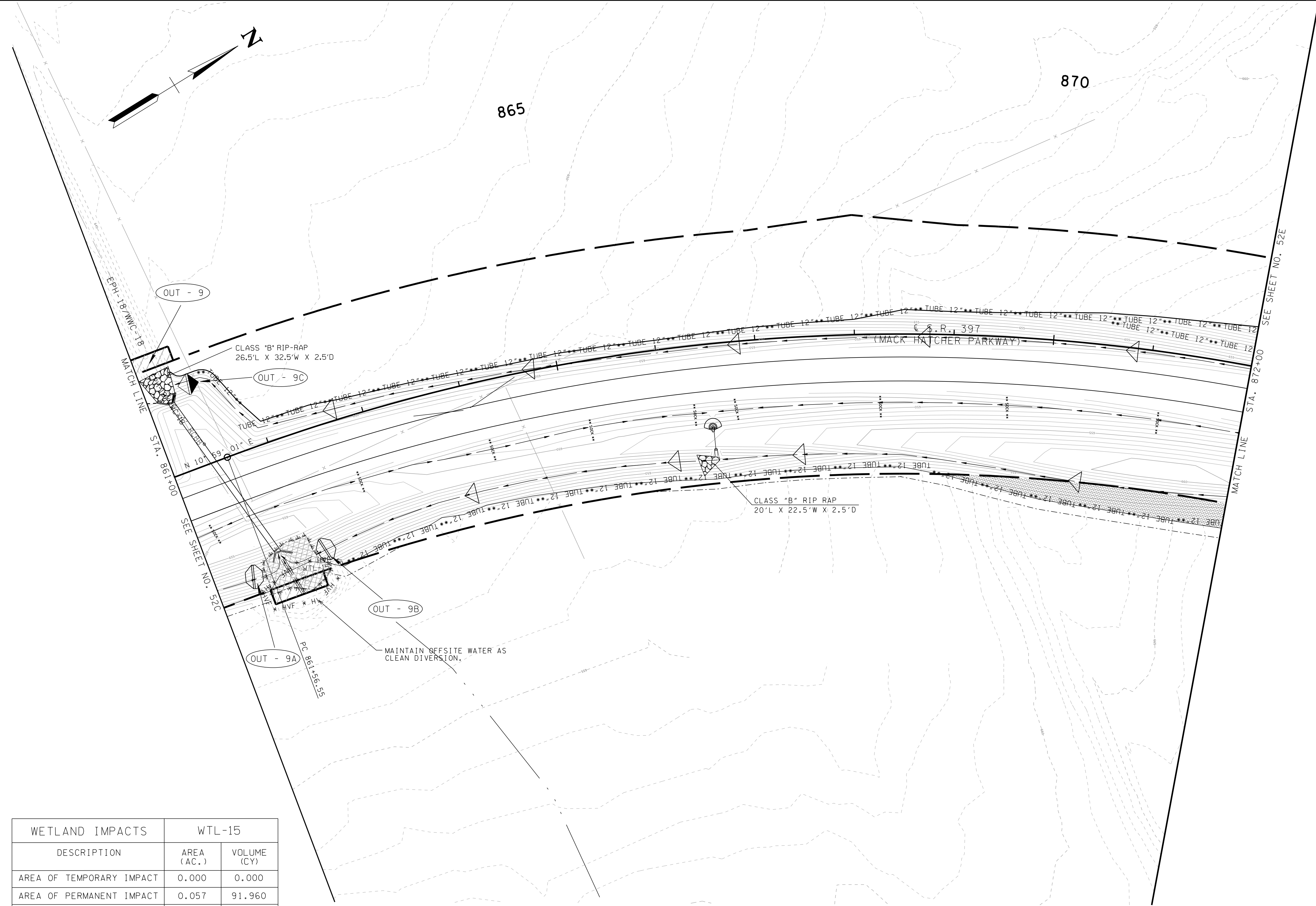
FROM STA. 848+00
TO STA. 861+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	53-A
CONST.	2018	STP/HPP-397(10)	52-D

REV. 6-14-18: UPDATED ENVIRONMENTAL FEATURES. ADDED OUTFALLS 9A & 9B. ADDED WETLAND IMPACT TABLE.

REV. 7-17-18: ADDED OUTFALL 9C.

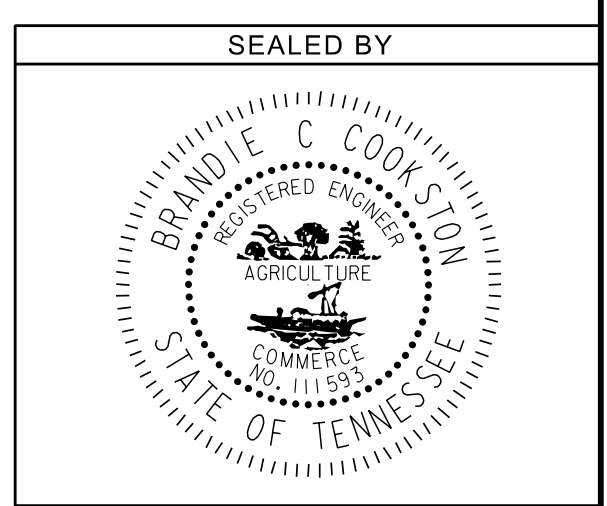
REV. 10-10-18: REVISED LABEL FOR EPH-18/WWC-18. ADDED DIVERSION CHANNEL NOTE.



WETLAND IMPACTS	WTL-15	
DESCRIPTION	AREA (AC.)	VOLUME (CY)
AREA OF TEMPORARY IMPACT	0.000	0.000
AREA OF PERMANENT IMPACT	0.057	91.960
TOTAL	0.057	91.960

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND FILL SLOPE AND PROPOSED RIGHT-OF-WAY.

PLACE HIGH VISIBILITY FENCE BETWEEN SLOPE LINES AND WETLANDS. SEE EPSC PLANS FOR LOCATIONS.



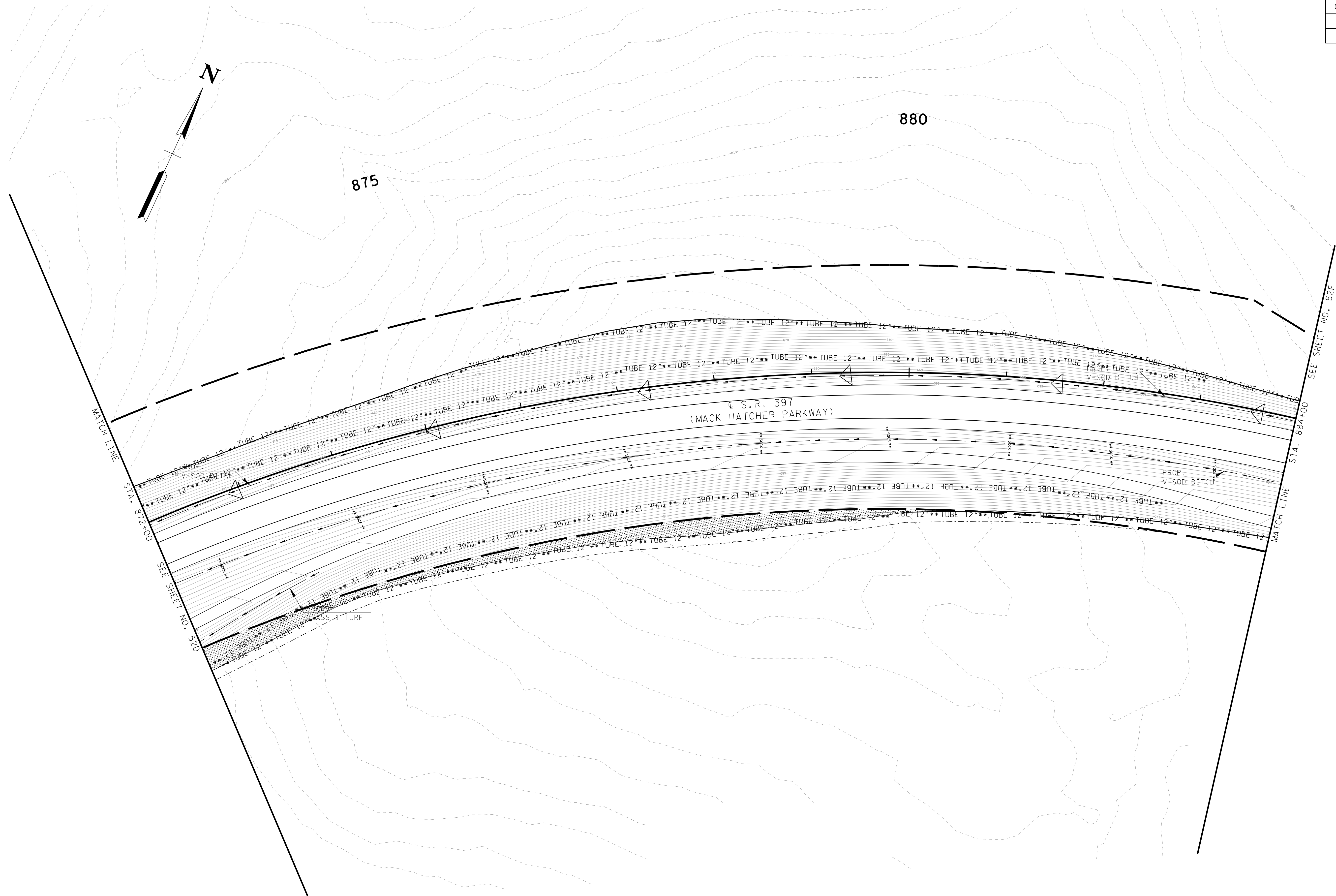
STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION

EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2

FROM STA. 861+00
TO STA. 872+00
SCALE: 1"=50'

10/16/2018 8:14:58 AM M:\Franklin\mackhatcherpkwy\2-Lane\Sheets_2Lane\052D_erosion_2Lane.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	54-A
CONST.	2018	STP/HPP-397(10)	52-E



MATCH LINE
STA. 872+00

SEE SHEET NO. 52F
STA. 884+00
MATCH LINE

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**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2

FROM STA. 872+00
TO STA. 884+00

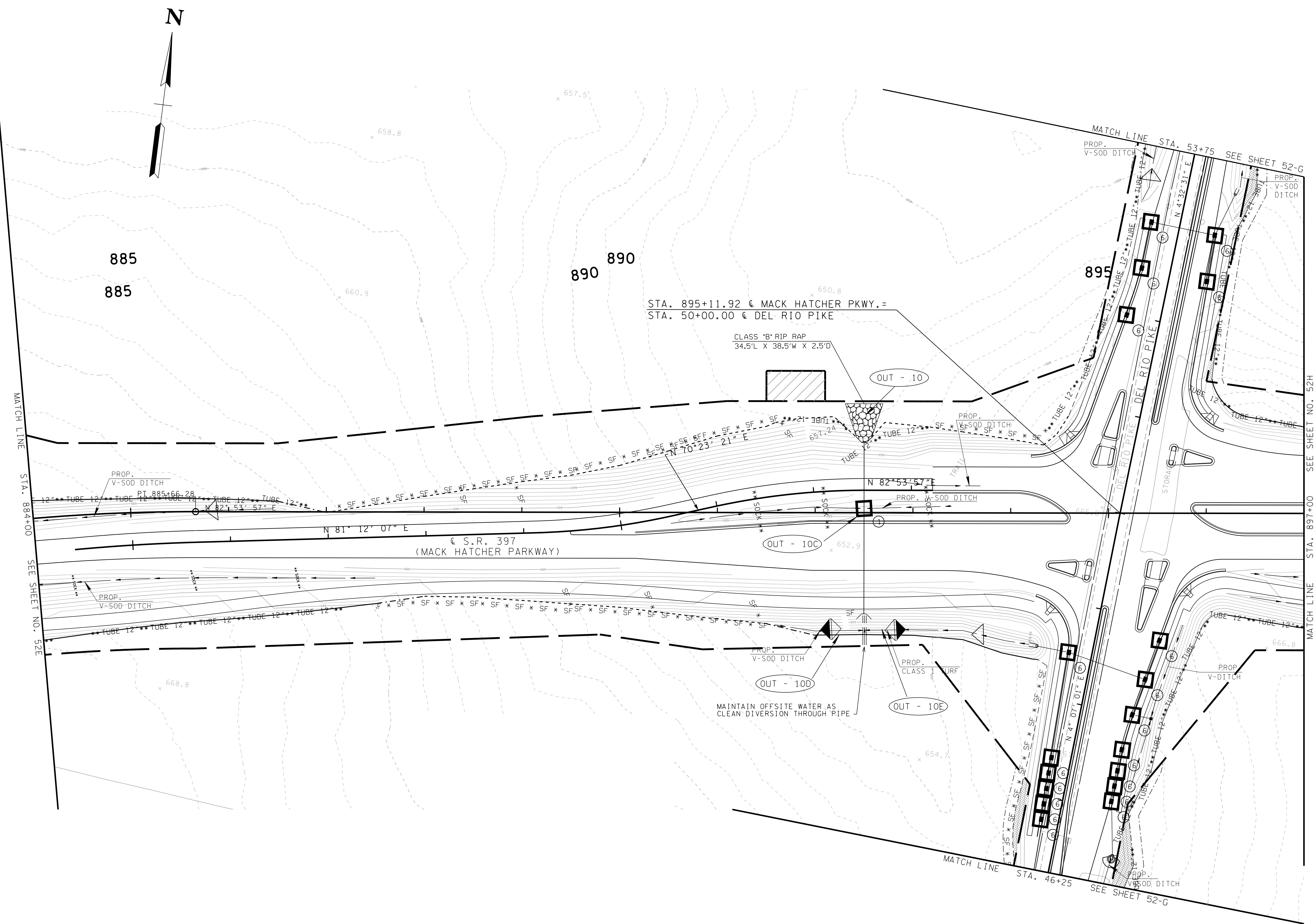
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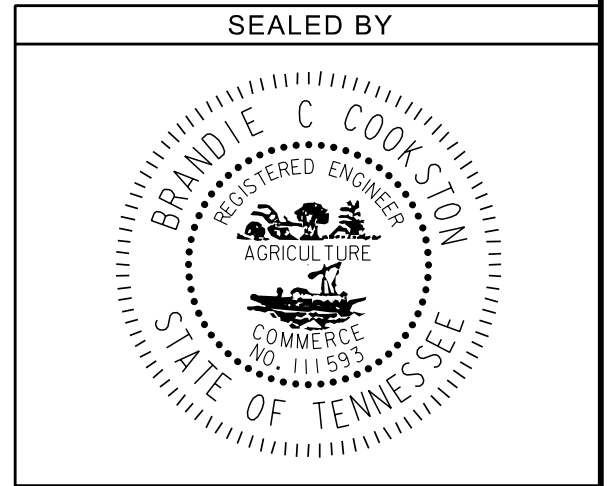
TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	55-A
CONST.	2018	STP/HPP-397(10)	52-F

REV. 7-17-18: ADDED OUTFALLS 10C
10D & 10E.

REV. 10-10-18: MODIFIED EPSC
MEASURES AT OUTFALL 10.
ADDED TEMPORARY DIVERSION
CHANNEL AND NOTE.



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STATE OF TENNESSEE
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EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2

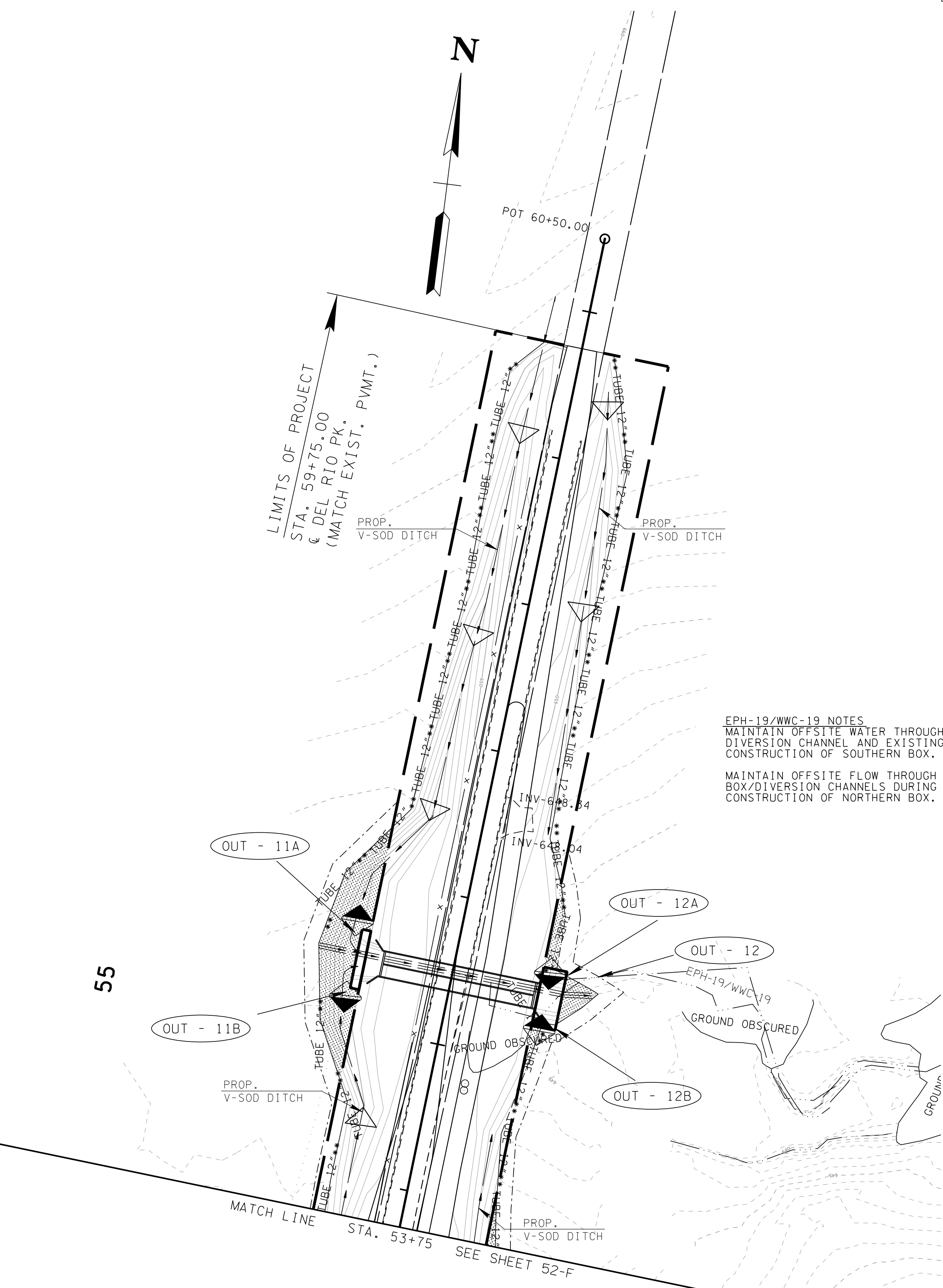
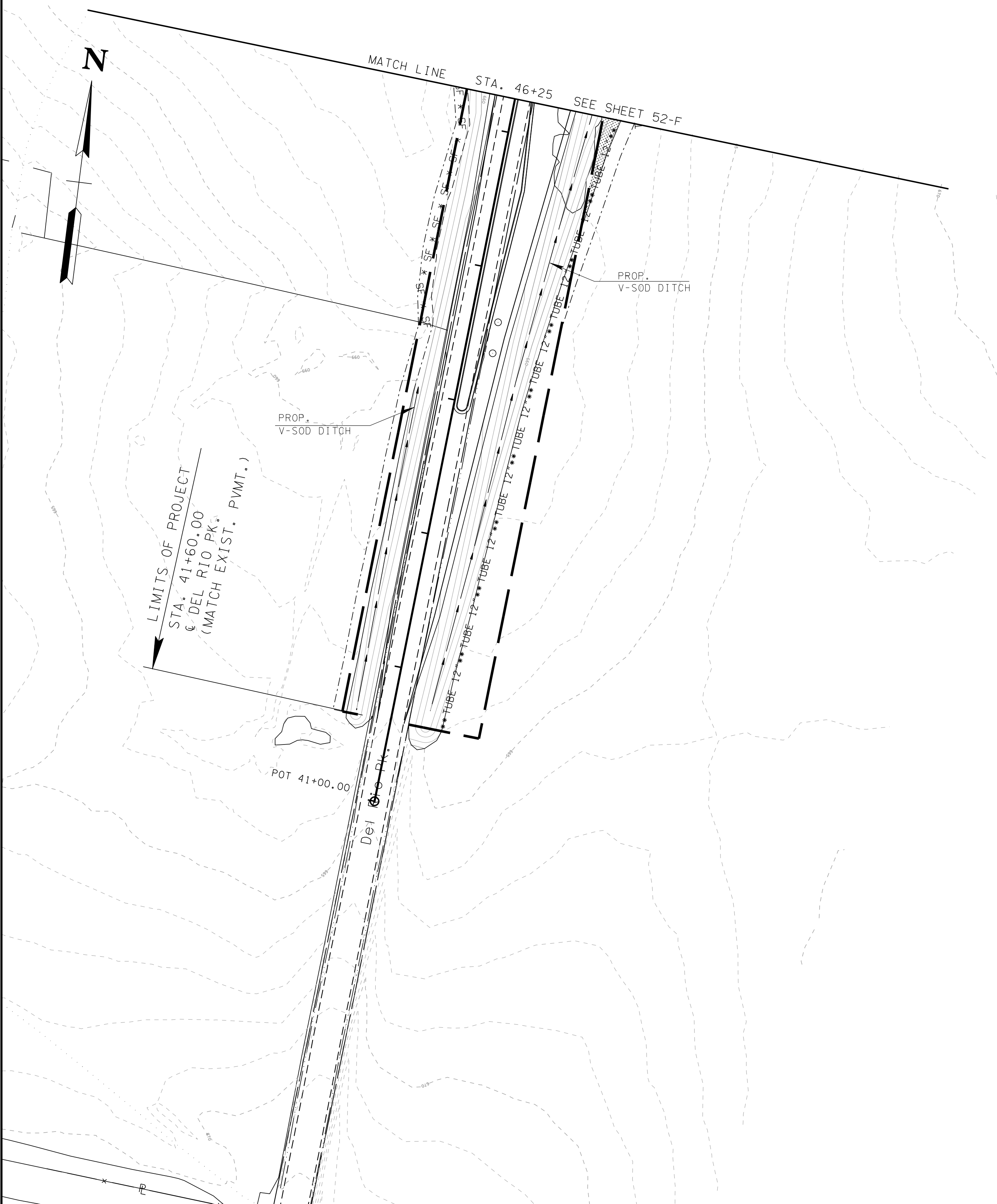
FROM STA. 884+00
TO STA. 897+00
SCALE: 1"=50'

DEL RIO PIKE SOUTH

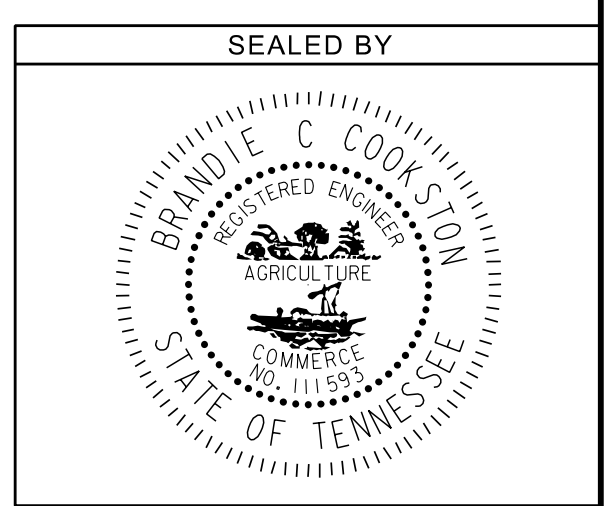
DEL RIO PIKE NORTH

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	55-1A
CONST.	2018	STP/HPP-397(10)	52-G

REV. 6-14-18: ADDED OUTFALL 12.
 REV. 10-10-18: ADDED TEMPORARY DIVERSION CHANNEL AND NOTES.



EPH-19/WWC-19 NOTES
 MAINTAIN OFFSITE WATER THROUGH SITE WITH DIVERSION CHANNEL AND EXISTING PIPE DURING CONSTRUCTION OF SOUTHERN BOX.
 MAINTAIN OFFSITE FLOW THROUGH SOUTHERN BOX/DIVERSION CHANNELS DURING CONSTRUCTION OF NORTHERN BOX.



**STATE OF TENNESSEE
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**EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 2**
 DEL RIO PIKE - SOUTH
 BEGIN PROJ. TO STA. 46+25
 DEL RIO PIKE - NORTH
 STA. 53+75 TO END PROJECT
 SCALE: 1"=50'

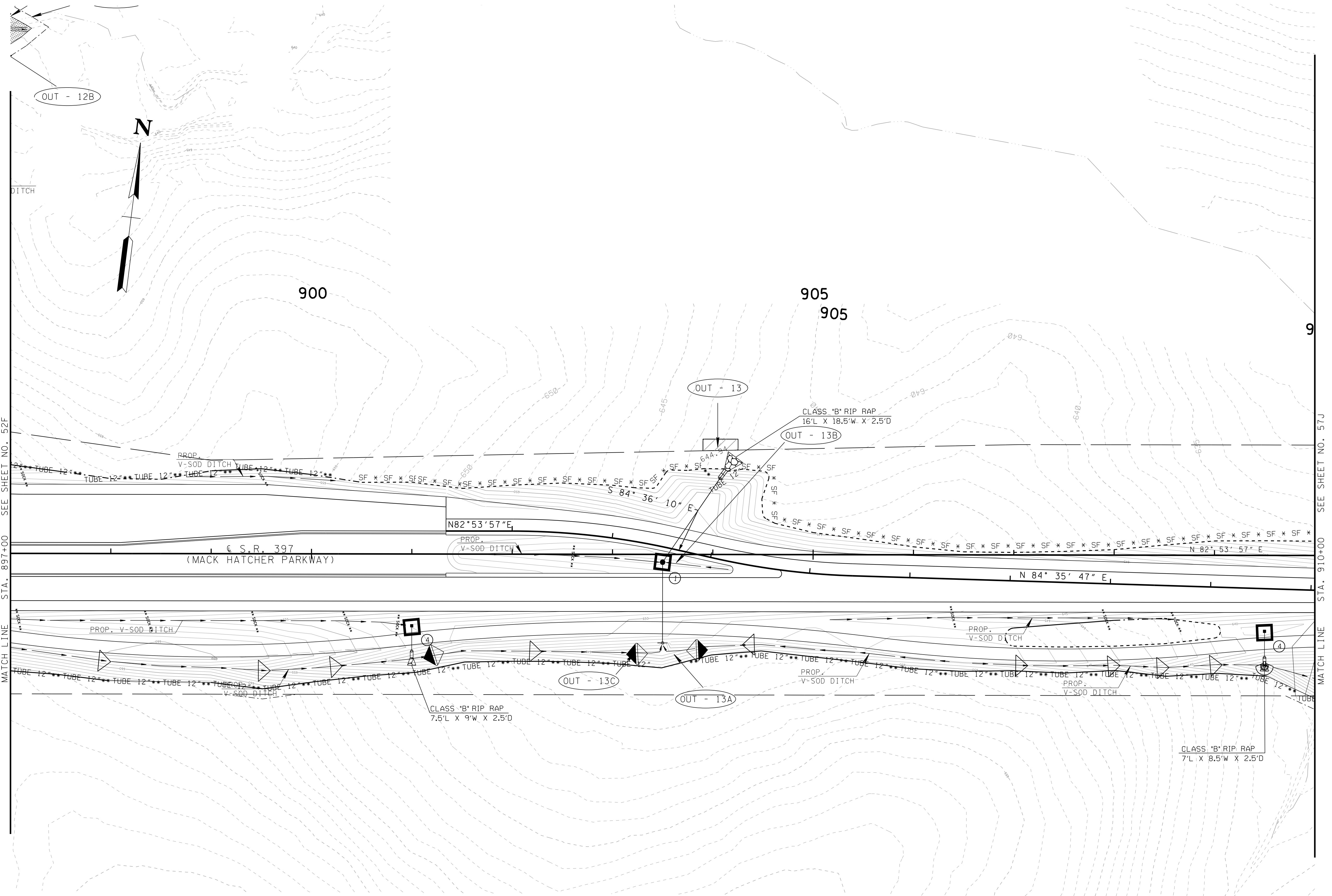
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	56-A
CONST.	2018	STP/HPP-397(10)	52-H

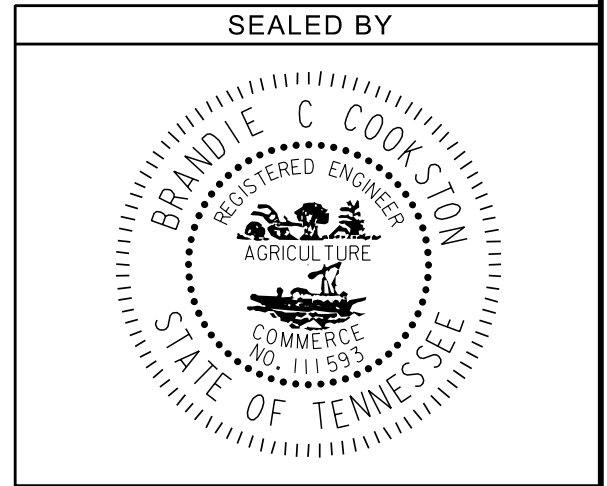
REV. 6-14-18: ADDED OUTFALLS 13A & 13B.

REV. 7-17-18: ADDED OUTFALL 13C.

REV. 10-10-18: MODIFIED EPSC MEASURES FOR OUTFALL 13.



10/16/2018 8:15:09 AM M:\Franklin\mackhatcherpkwy\2-Lane\Sheets_2Lane\052H_erosion_2Lane.sht



**STATE OF TENNESSEE
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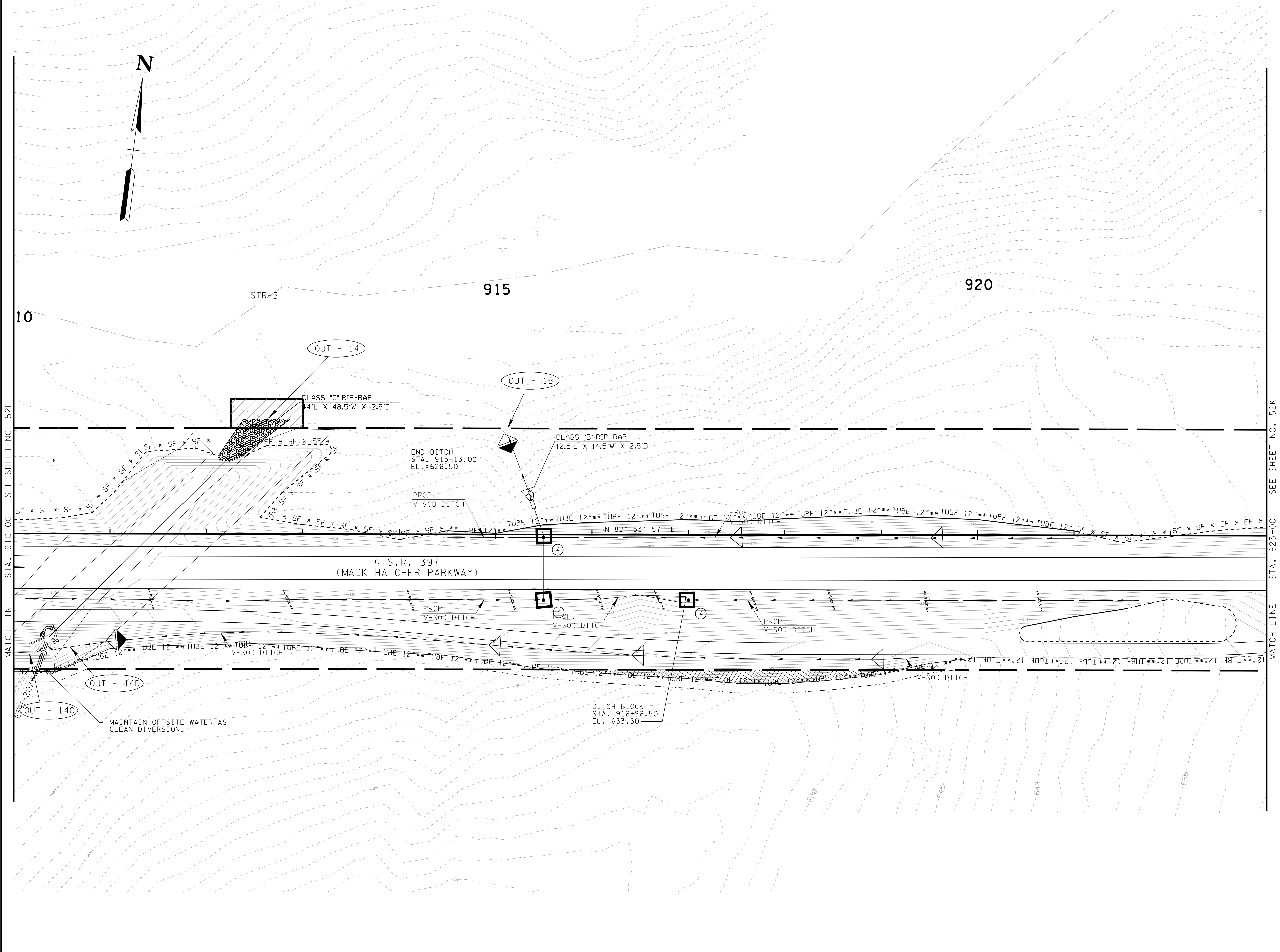
**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2**

FROM STA. 897+00
TO STA. 910+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	57-A
CONST.	2018	STP/HPP-397(10)	52-J

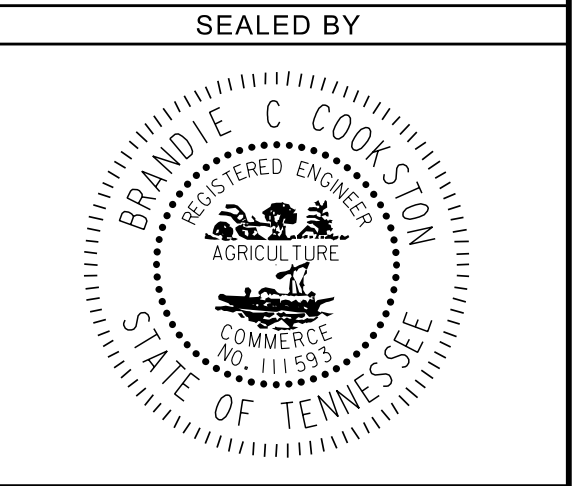
REV. 7-17-18: ADDED OUTFALLS 14C & 14D.

REV. 10-10-18: REVISED LABEL FOR EPH-20/WWC-20. ADDED DIVERSION CHANNEL AND NOTE.



MATCH LINE STA. 910+00 SEE SHEET NO. 52H

MATCH LINE STA. 923+00 SEE SHEET NO. 52K



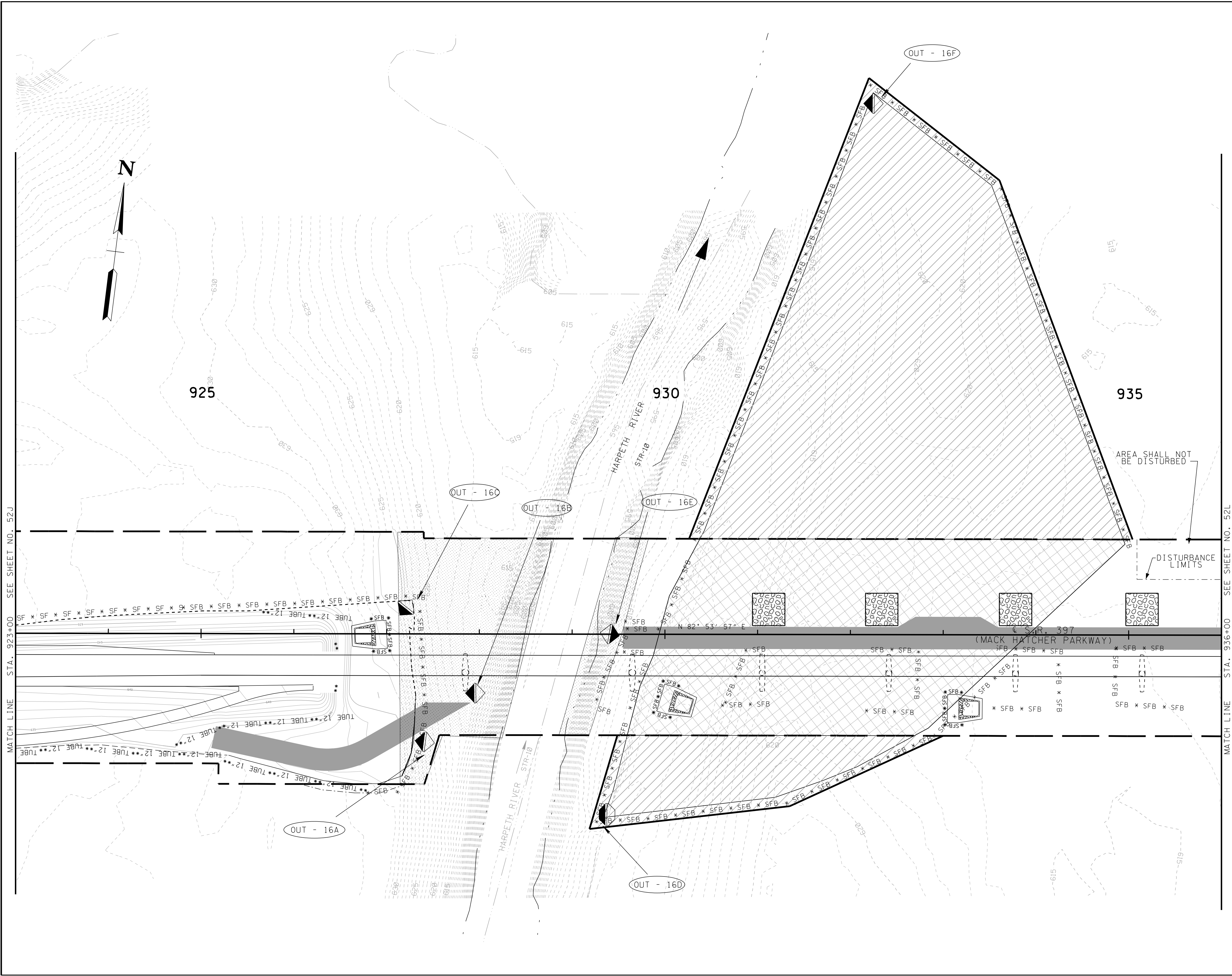
STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION

EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 2

FROM STA. 910+00
 TO STA. 923+00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	58-A
CONST.	2018	STP/HPP-397(10)	52-K

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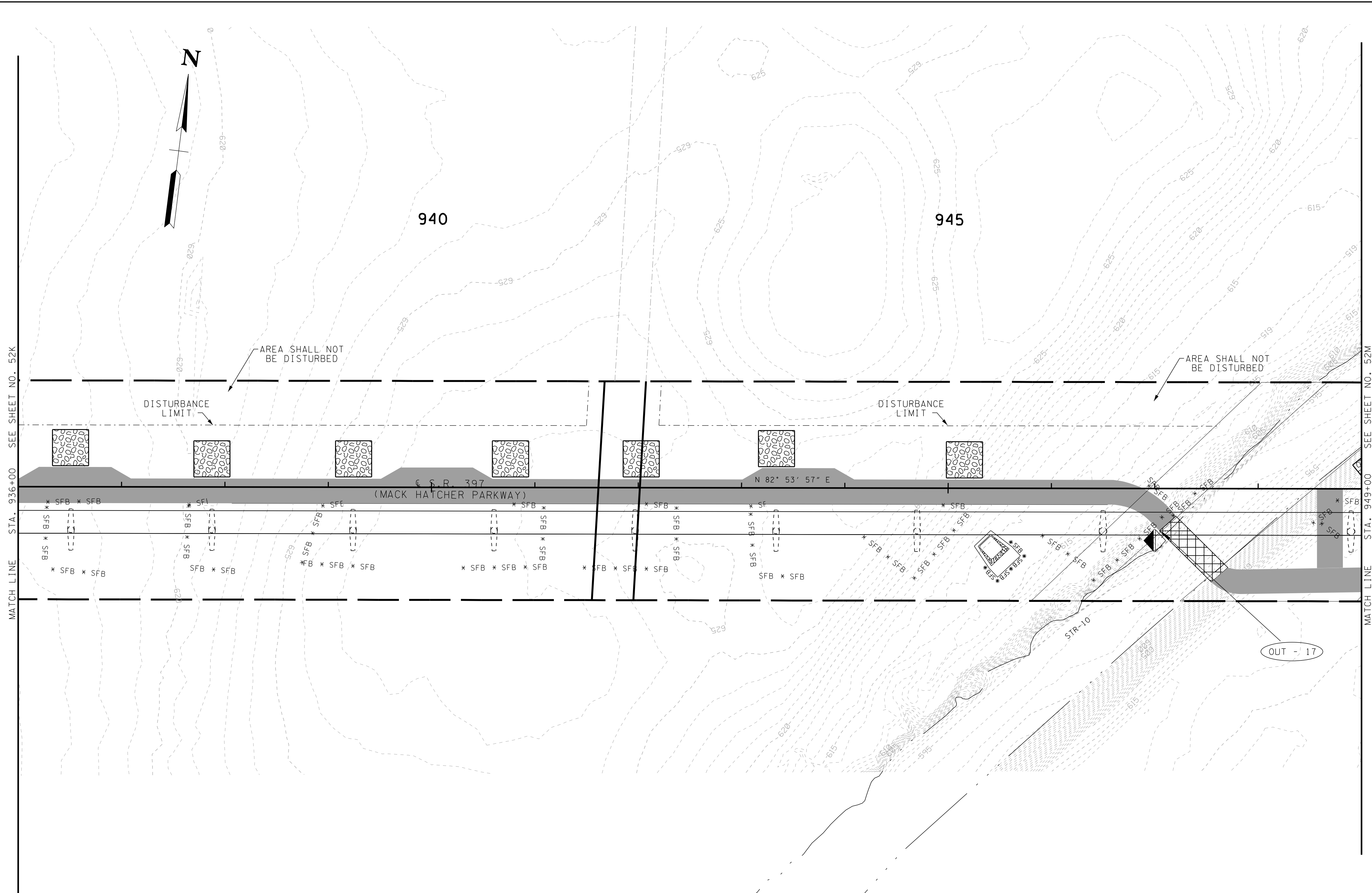
**UNOFFICIAL
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DEPARTMENT OF
TRANSPORTATION**
**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2**
FROM STA. 923+00
TO STA. 936+00
SCALE: 1"=50'

MATCH LINE STA. 923+00 SEE SHEET NO. 52J

MATCH LINE STA. 936+00 SEE SHEET NO. 52L

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	59-A
CONST.	2018	STP/HPP-397(10)	52-L



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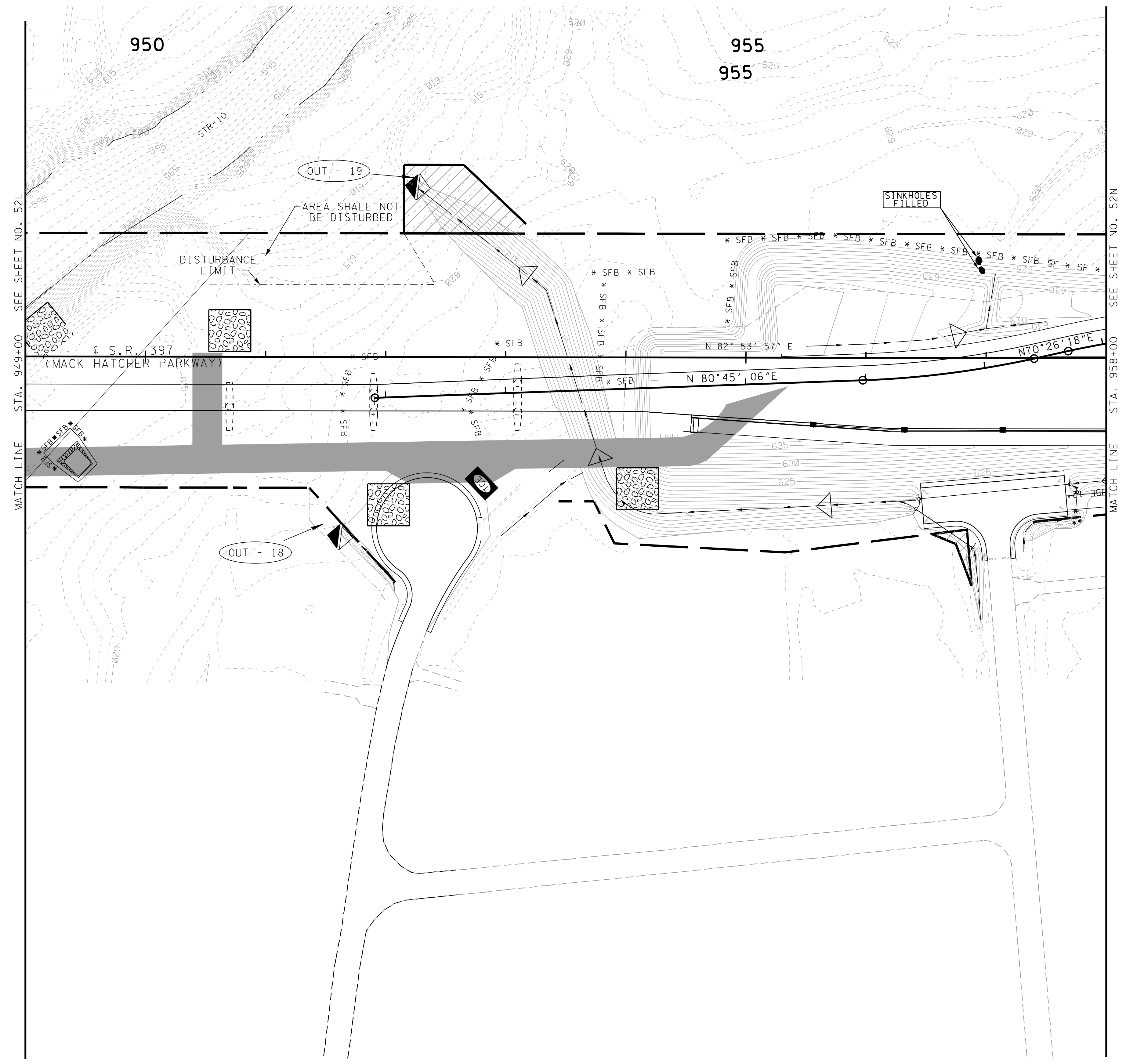
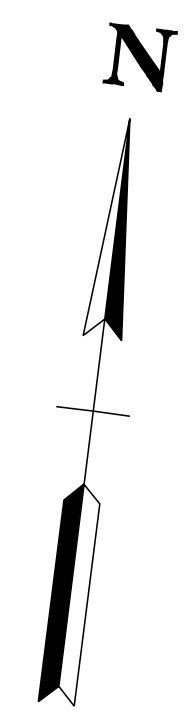
**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2

FROM STA. 936+00
TO STA. 949+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	60-A
CONST.	2018	STP/HPP-397(10)	52-M



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**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

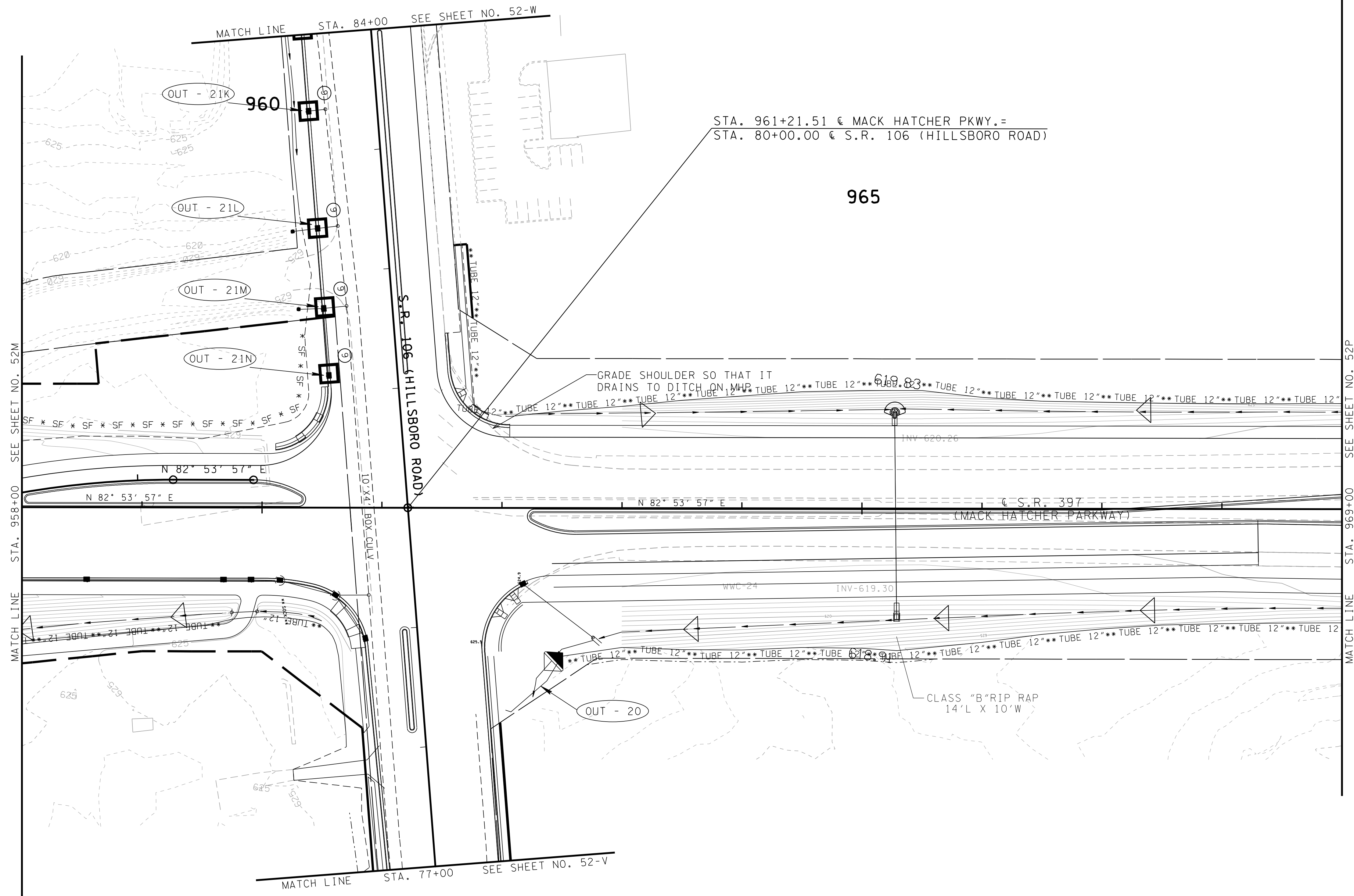
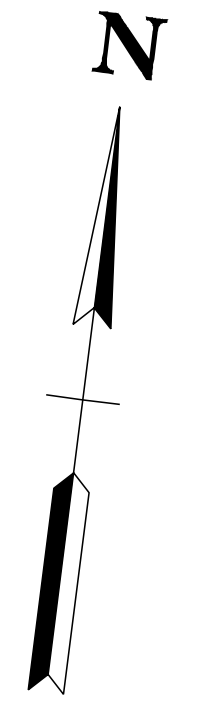
EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2

FROM STA. 949+00
TO STA. 958+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	61-A
CONST.	2018	STP/HPP-397(10)	52-N

REV. 6-14-18: ADDED MATCHLINES TO HILLSBORO ALIGNMENT. ADDED TYPE 6 FILTER ASSEMBLY.



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BIDDING**

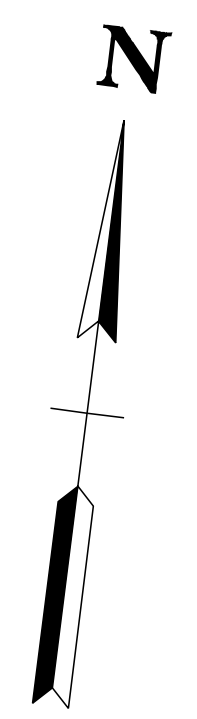
**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 2

FROM STA. 958+00
TO STA. 969+00
SCALE: 1"=50'

7/24/2018 4:51:21 PM M:\Franklin\mackhatcherpkwy\2-Lane\Sheets_2Lane\052N_erosion_2Lane.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	62-A
CONST.	2018	STP/HPP-397(10)	52-P



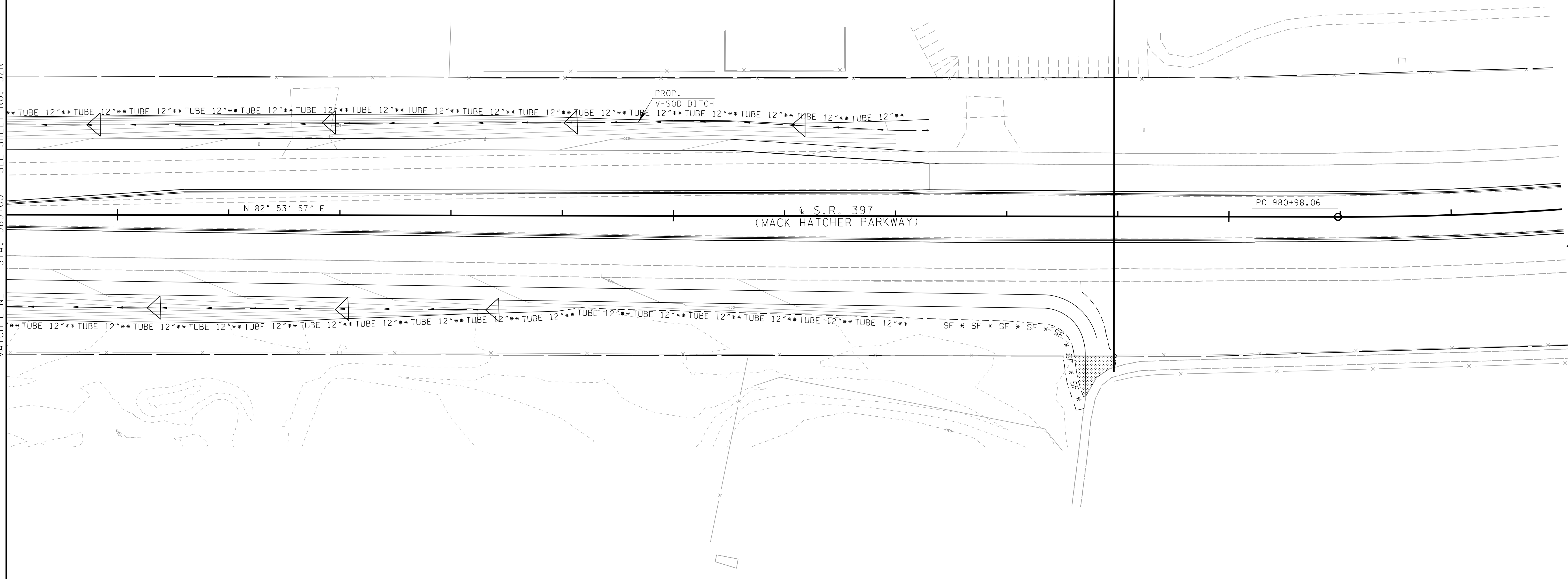
970

975

980

← END PROJECT STP-397(8) R.O.W.
 STA. 978+96.53 @ S.R.397
 (MACK HATCHER PKWY.)

MATCH LINE STA. 969+00 SEE SHEET NO. 52N



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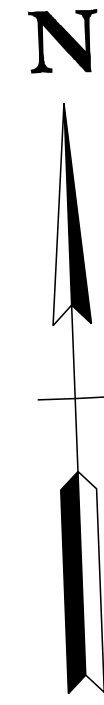
**STATE OF TENNESSEE
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EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 2

FROM STA. 969+00
 TO END PROJECT

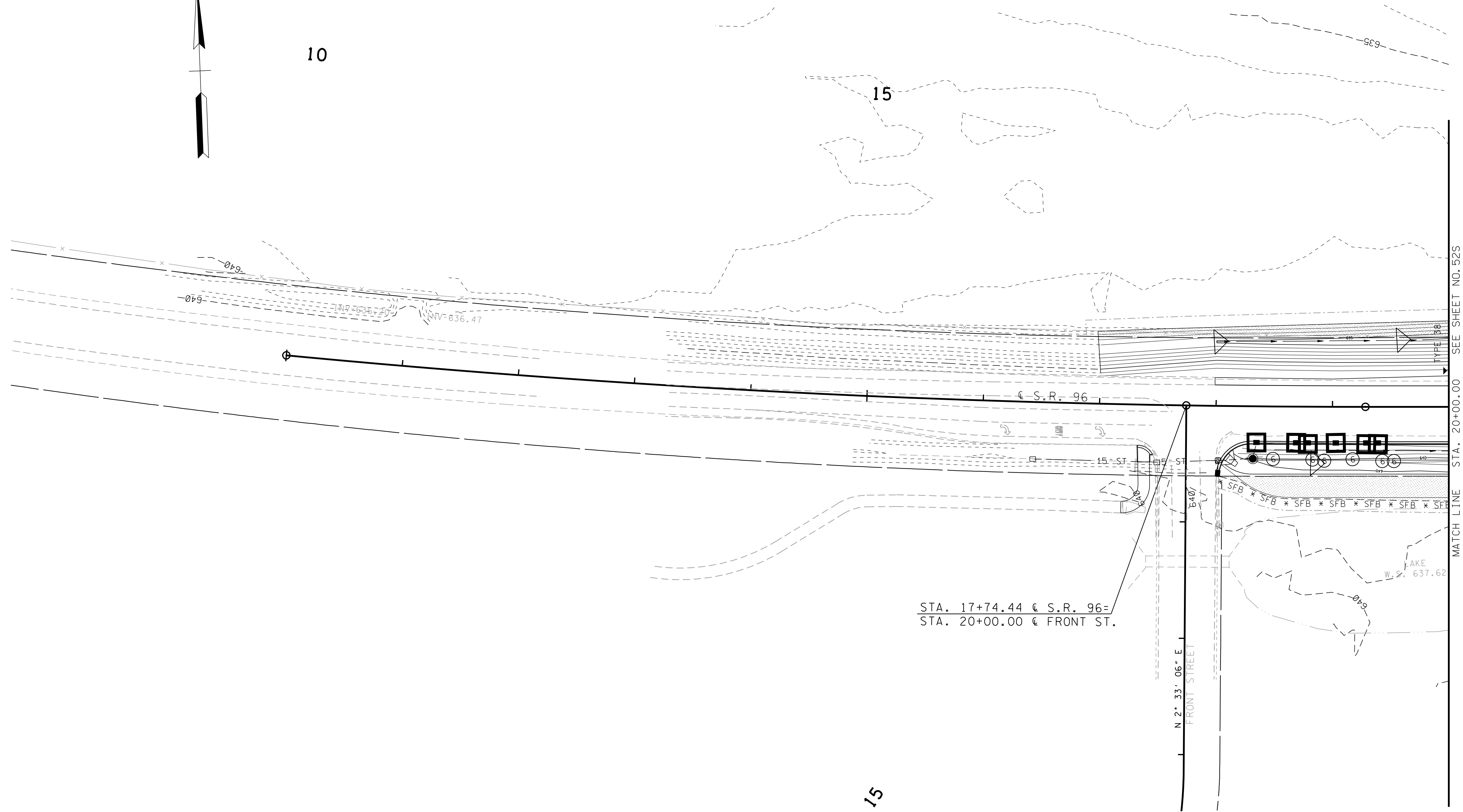
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	64-A
CONST.	2018	STP/HPP-397(10)	52-R



10

15



15

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TRANSPORTATION**

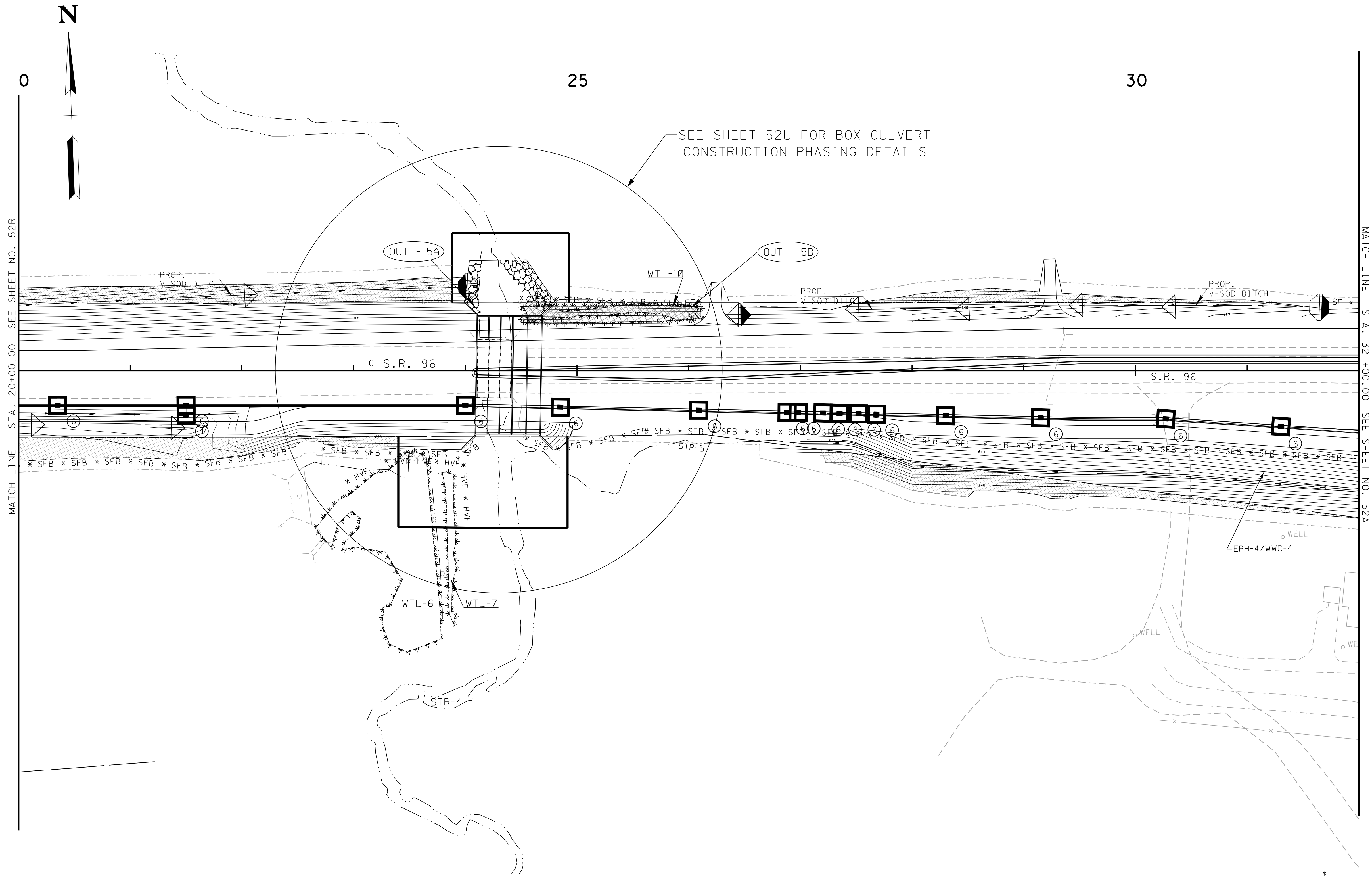
**EROSION CONTROL
S.R. 96
STAGE 2**

STA. 10+00.00
LIMITS OF PROJECT
TO STA. 20+00.00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	65-A
CONST.	2018	STP/HPP-397(10)	52-S

REV. 6-14-18: UPDATED ENVIRONMENTAL FEATURES.



MATCH LINE STA. 20+00.00 SEE SHEET NO. 52R

MATCH LINE STA. 32+00.00 SEE SHEET NO. 52A

25

30

SEE SHEET 52U FOR BOX CULVERT CONSTRUCTION PHASING DETAILS

OUT - 5A

OUT - 5B

WTL-10

WTL-6

WTL-7

STR-4

STR-5

EPH-4/WWC-4

WETLAND LEGEND

- WETLAND BOUNDARY
- AREA OF TEMPORARY IMPACT TO WETLANDS
- AREA OF PERMANENT IMPACT TO WETLANDS

WETLAND IMPACTS	WTL-6		WTL-10	
	AREA (AC.)	VOLUME (CY)	AREA (AC.)	VOLUME (CY)
AREA OF TEMPORARY IMPACT	0.000	0	0.000	0.000
AREA OF PERMANENT IMPACT	0.003	5.432	0.032	51.481
TOTAL	0.003	5.432	0.032	51.481

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND FILL SLOPE AND PROPOSED RIGHT-OF-WAY. PLACE HIGH VISIBILITY FENCE BETWEEN SLOPE LINES AND WETLANDS. SEE EPSC PLANS FOR LOCATIONS.

UNOFFICIAL SET NOT FOR BIDDING

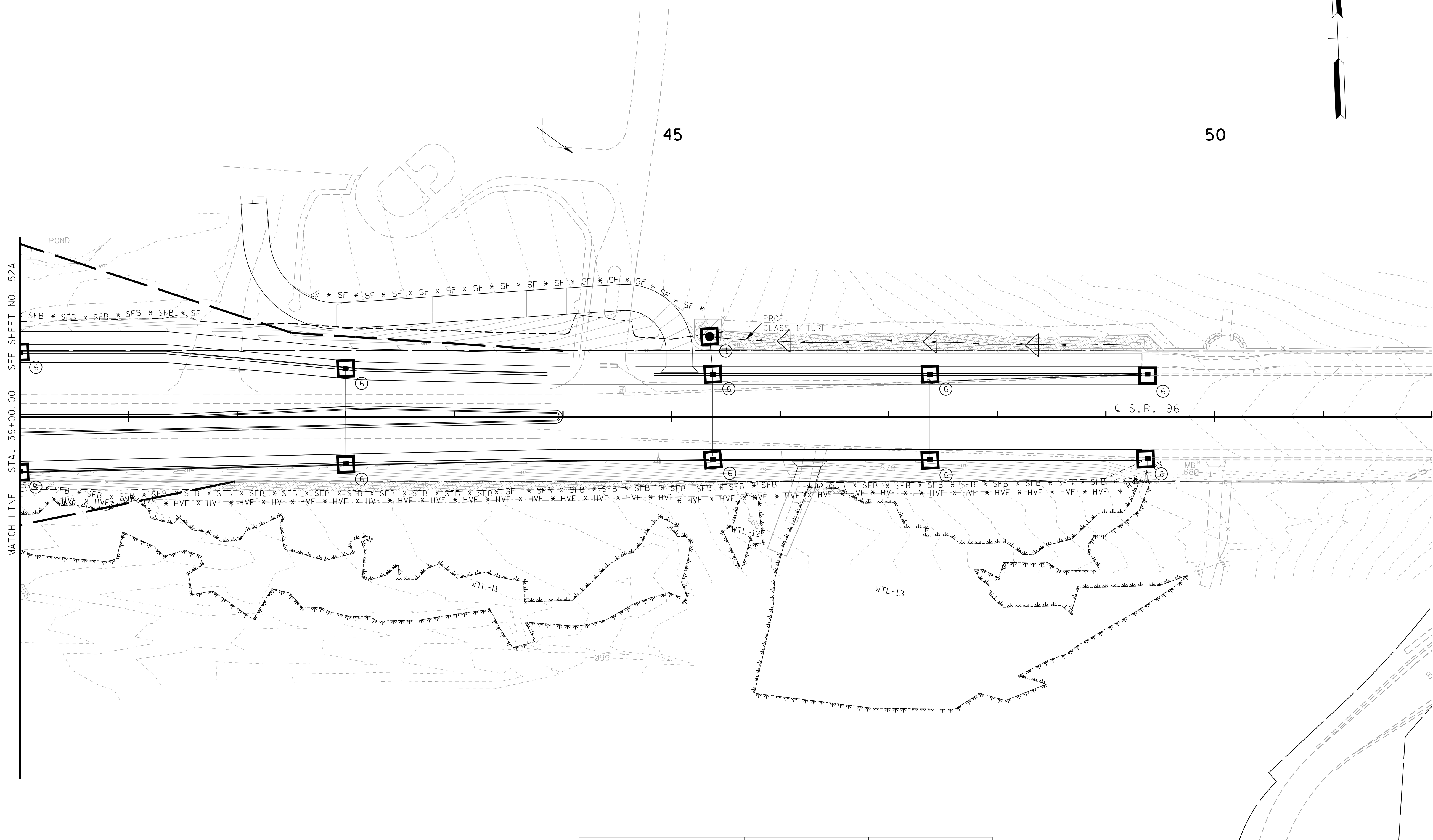
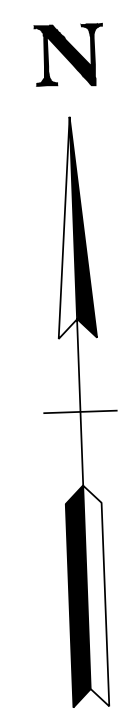
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

EROSION CONTROL S.R. 96 STAGE 2

FROM STA. 20+00.00 TO STA. 32+00.00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	66-A
CONST.	2018	STP/HPP-397(10)	52-T



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WETLAND IMPACTS	WTL-11		WTL-13	
	AREA (AC.)	VOLUME (CY)	AREA (AC.)	VOLUME (CY)
AREA OF TEMPORARY IMPACT	0.000	0.000	0.000	0.000
AREA OF PERMANENT IMPACT	0.000	0.000	0.003	5.167
TOTAL	0.000	0.000	0.003	5.167

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND FILL SLOPE AND PROPOSED RIGHT-OF-WAY. PLACE HIGH VISIBILITY FENCE BETWEEN SLOPE LINES AND WETLANDS. SEE EPSC PLANS FOR LOCATIONS.

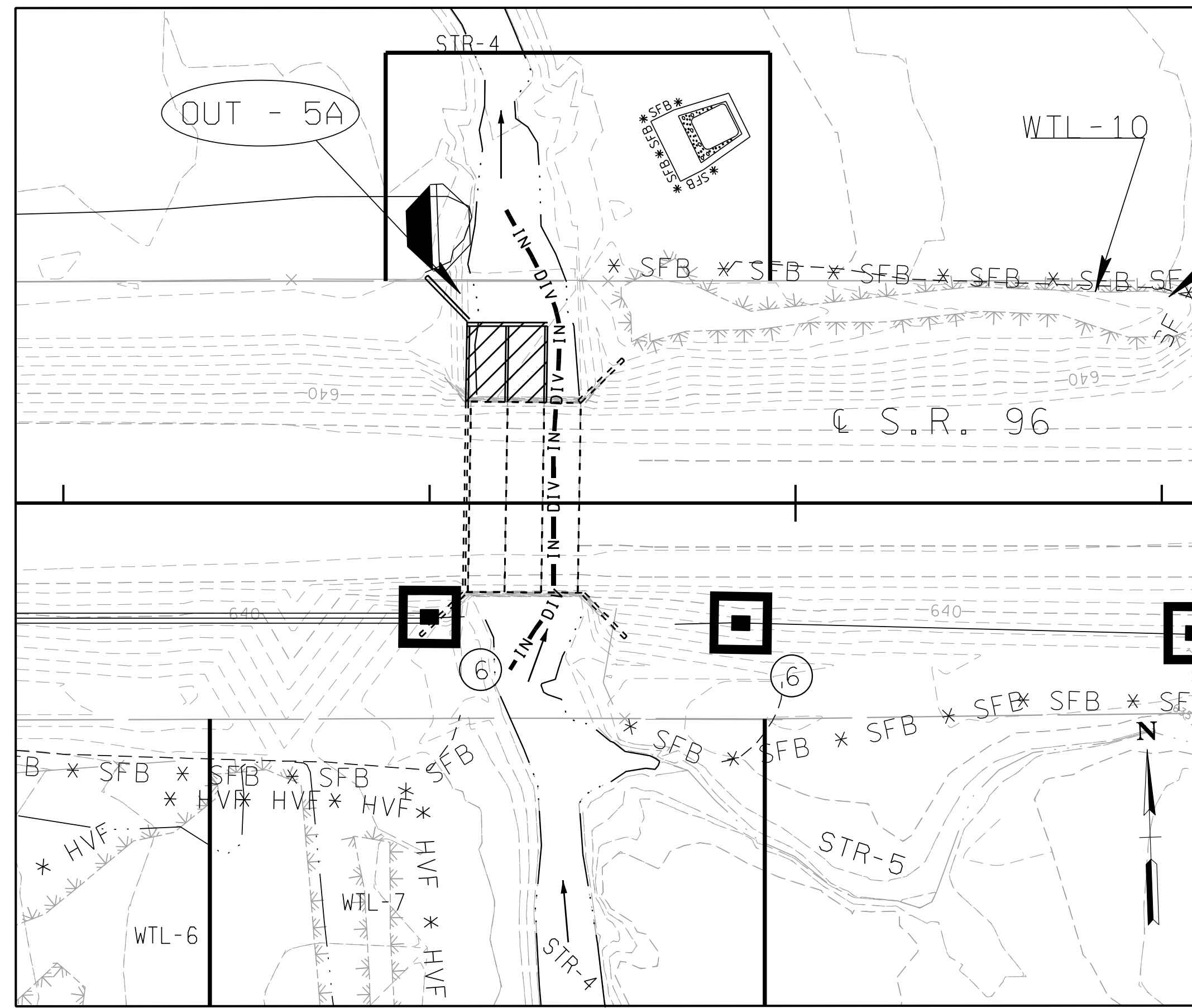
**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

**EROSION CONTROL
S.R. 96
STAGE 2**

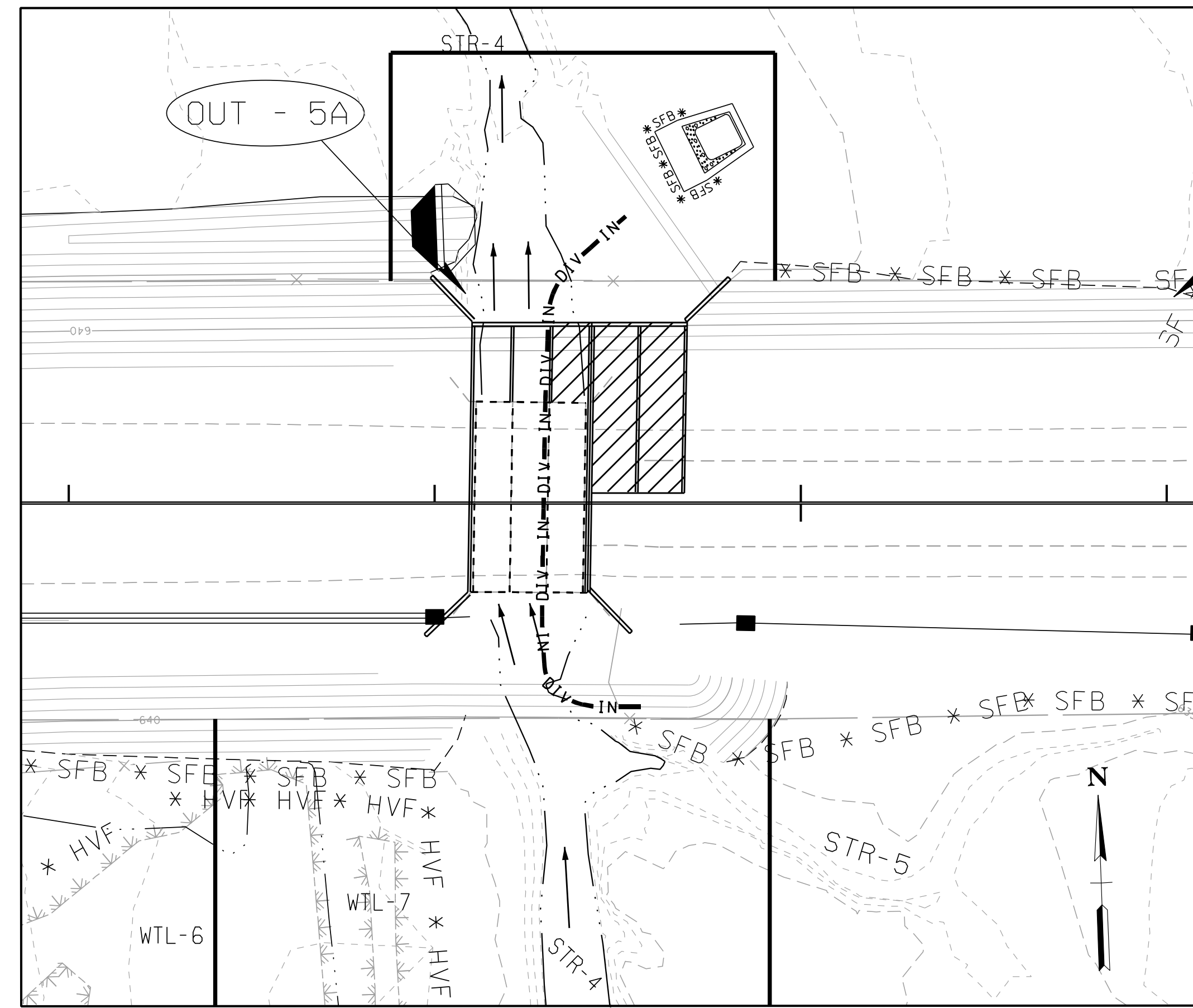
FROM STA. 39+00.00
TO STA. 52+00.00

SCALE: 1"=50'

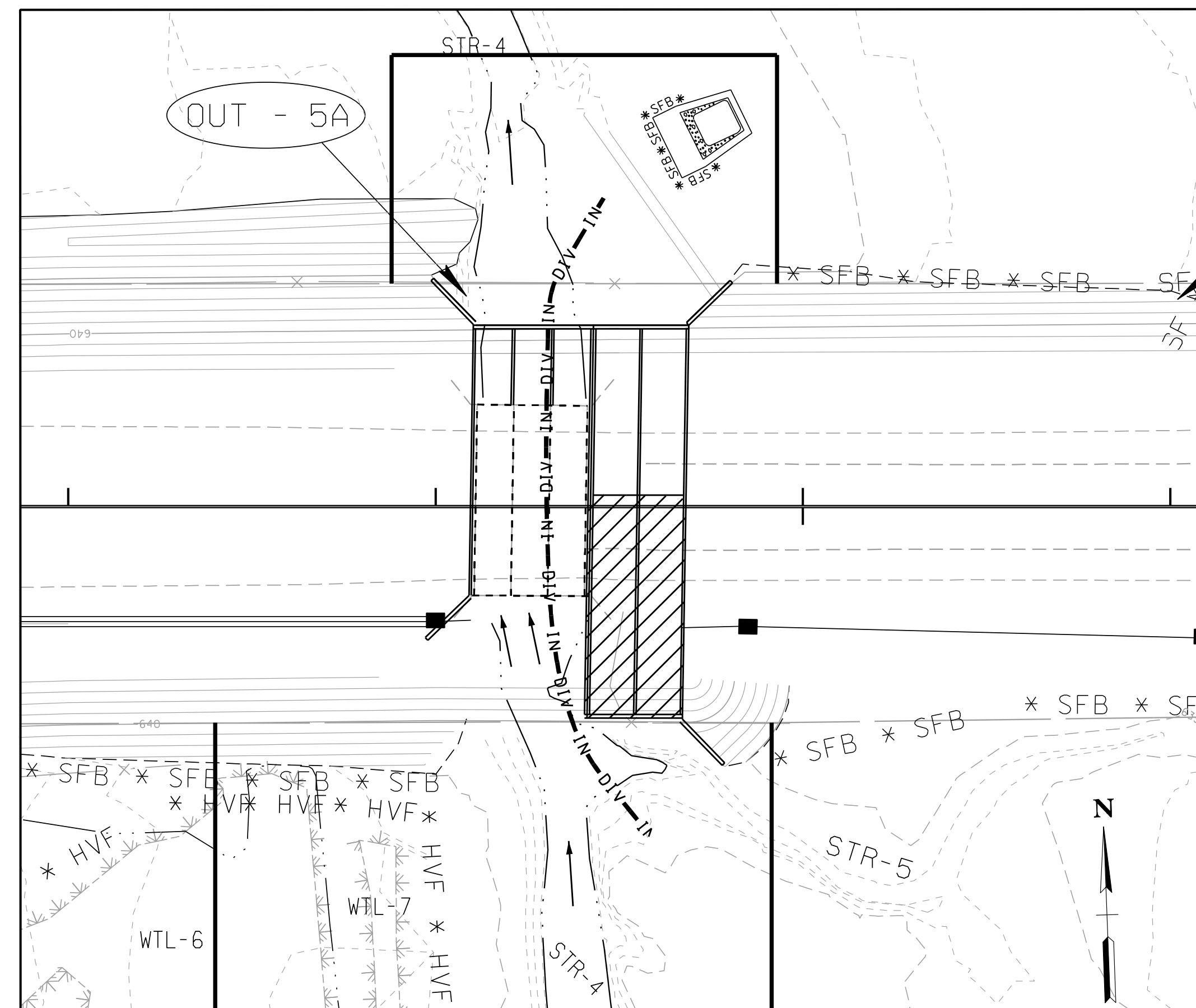
SLAB BRIDGE CONST. PHASE 1



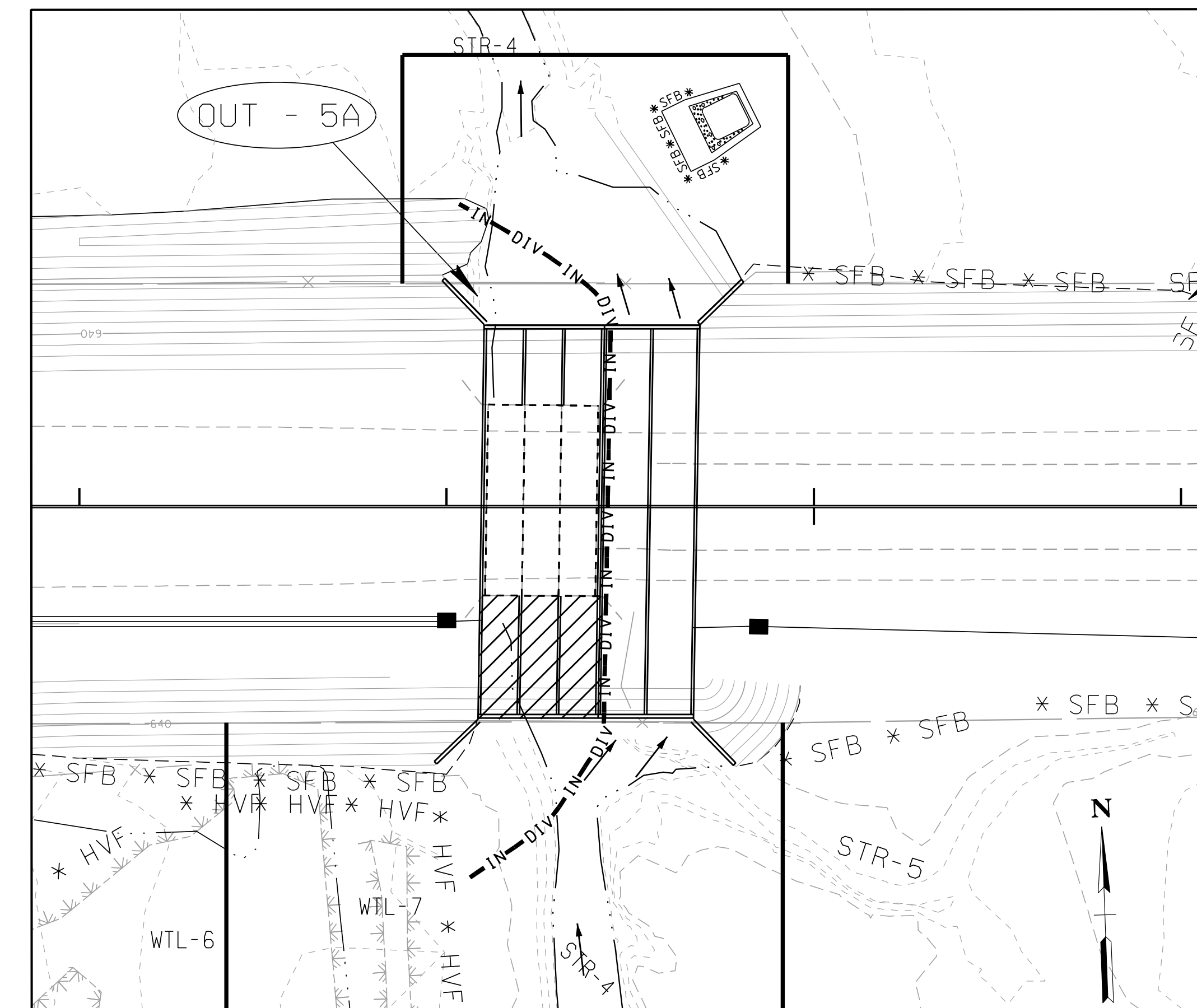
SLAB BRIDGE CONST. PHASE 2



SLAB BRIDGE CONST. PHASE 3



SLAB BRIDGE CONST. PHASE 4



TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	64
CONST.	2018	STP/HPP-397(10)	52U

REV. 7/17/2018:
 CHANGED EXISTING STRUCTURE AND
 STRUCTURE EXTENSIONS FROM BOX
 CULVERT TO SLAB BRIDGE

**UNOFFICIAL
 SET
 NOT FOR
 BIDDING**

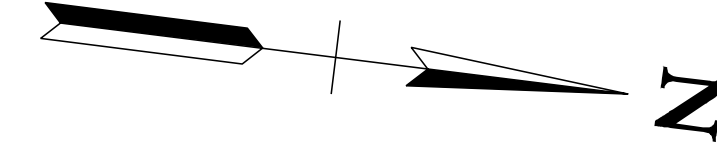
**STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION**

EROSION CONTROL
 DETAILS
 S.R. 96
 STAGE 2

SCALE: 1"=30'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	69-A
CONST.	2018	STP/HPP-397(10)	52-V

REV. 6-14-18: ADDED THIS SHEET TO PLANS.

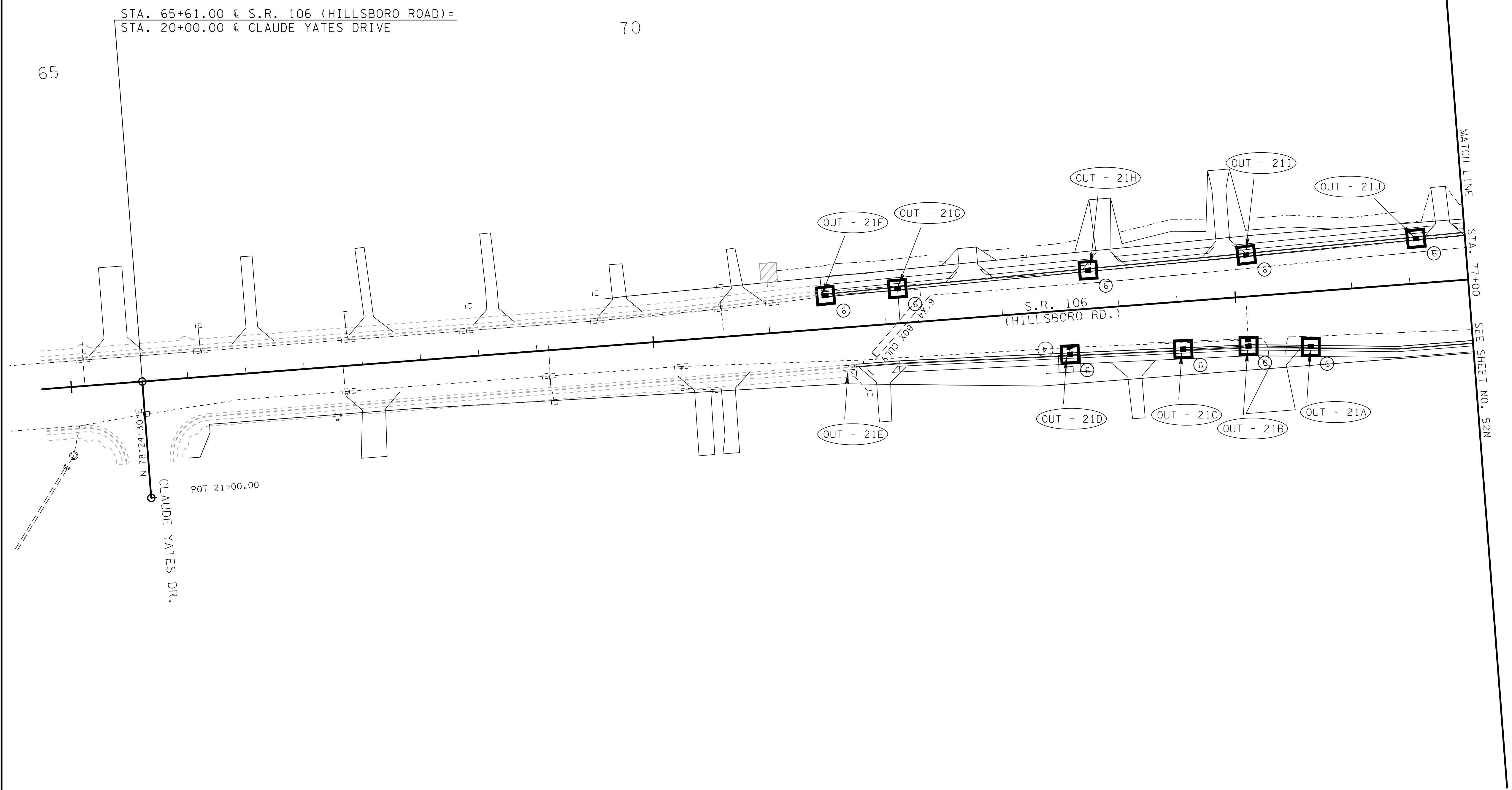


STA. 65+61.00 @ S.R. 106 (HILLSBORO ROAD) =
STA. 20+00.00 @ CLAUDE YATES DRIVE

65

70

75



MATCH LINE STA. 77+00 SEE SHEET NO. 52N

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**STATE OF TENNESSEE
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EROSION CONTROL
S.R. 106
(HILLSBORO ROAD)
STAGE 2

FROM STA. 64+75.00
TO STA. 77+00.00

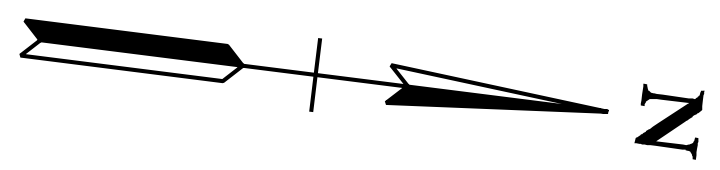
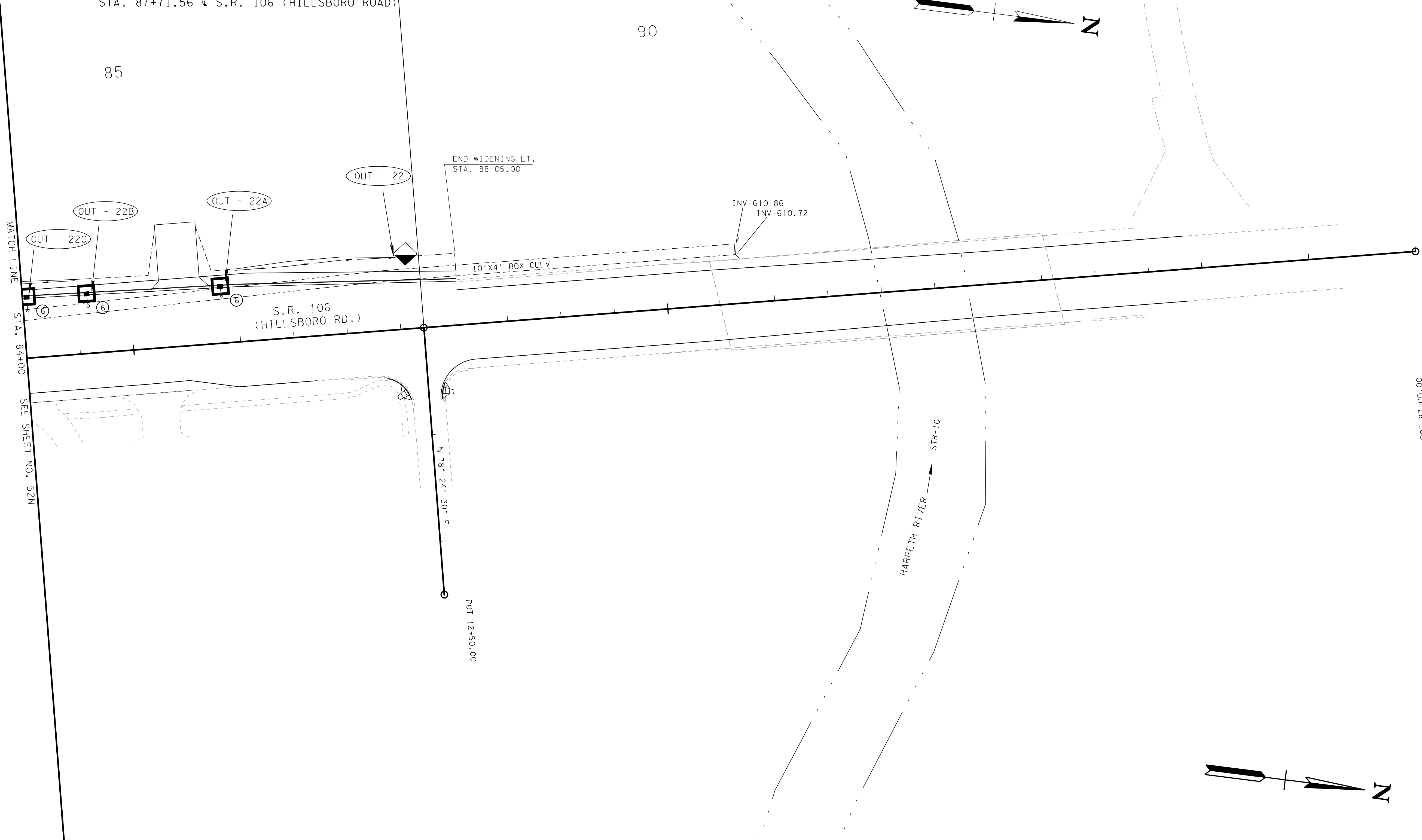
SCALE: 1"=50'

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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	70-A
CONST.	2018	STP/HPP-397(10)	52-W

REV. 6-14-18: ADDED THIS SHEET TO PLANS.

STA. 10+00.00 @ FULTON GREER LANE=
 STA. 87+71.56 @ S.R. 106 (HILLSBORO ROAD)



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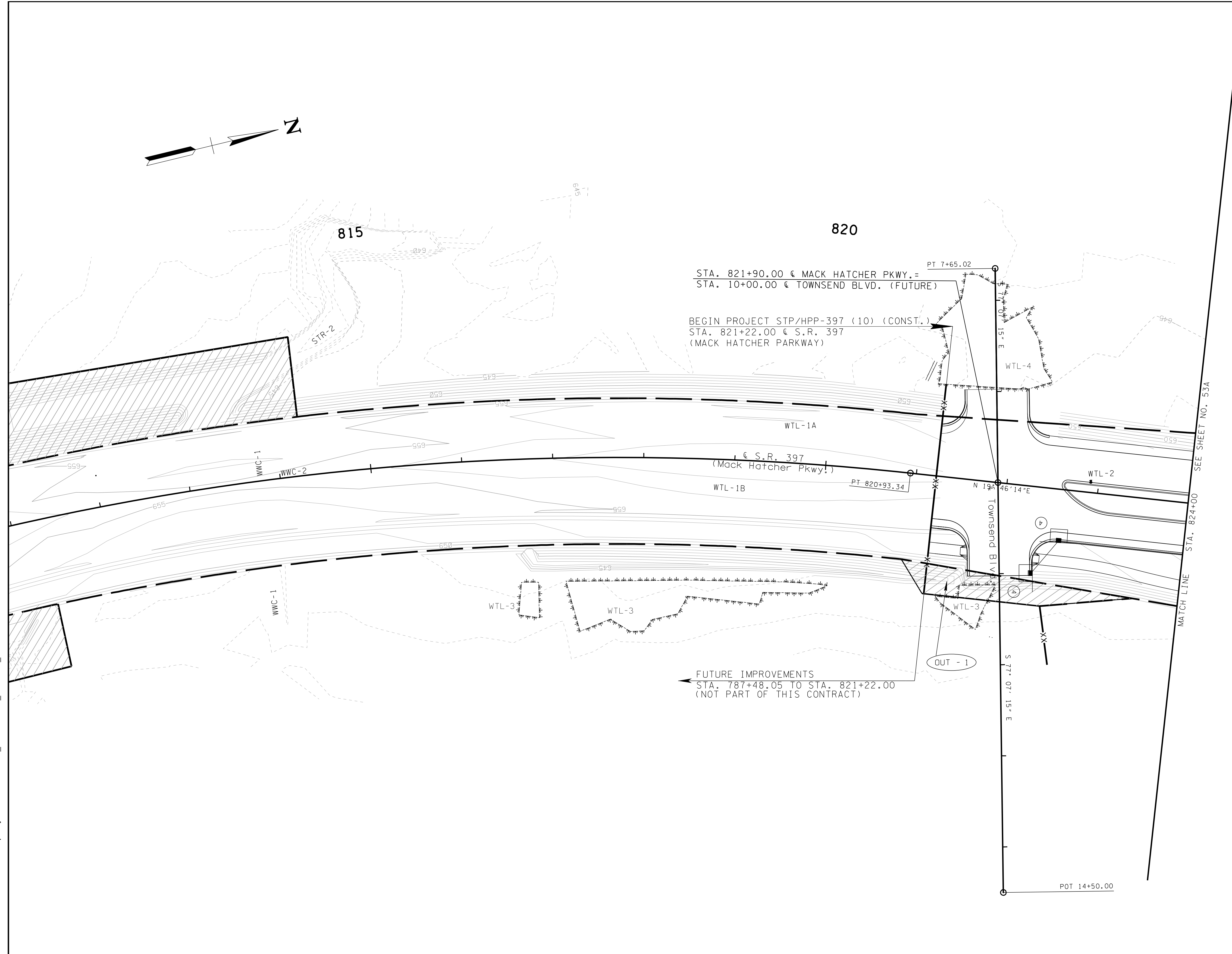
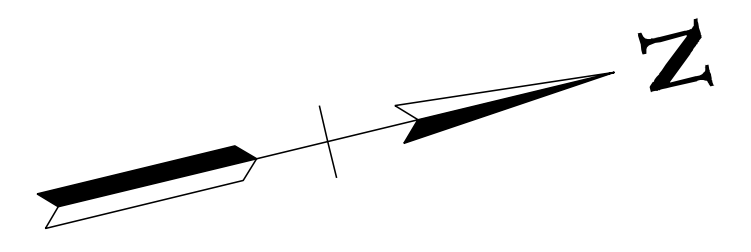
EROSION CONTROL
 S.R. 106
 (HILLSBORO ROAD)
 STAGE 2

FROM STA. 64+75.00
 TO STA. 77+00.00

SCALE: 1"=50'

7/24/2018 4:52:23 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	49-A
CONST.	2018	STP/HPP-397(10)	53



STA. 821+90.00 @ MACK HATCHER PKWY. =
 STA. 10+00.00 @ TOWNSEND BLVD. (FUTURE)

BEGIN PROJECT STP/HPP-397 (10) (CONST.)
 STA. 821+22.00 @ S.R. 397
 (MACK HATCHER PARKWAY)

FUTURE IMPROVEMENTS
 STA. 787+48.05 TO STA. 821+22.00
 (NOT PART OF THIS CONTRACT)

MATCH LINE STA. 824+00 SEE SHEET NO. 53A

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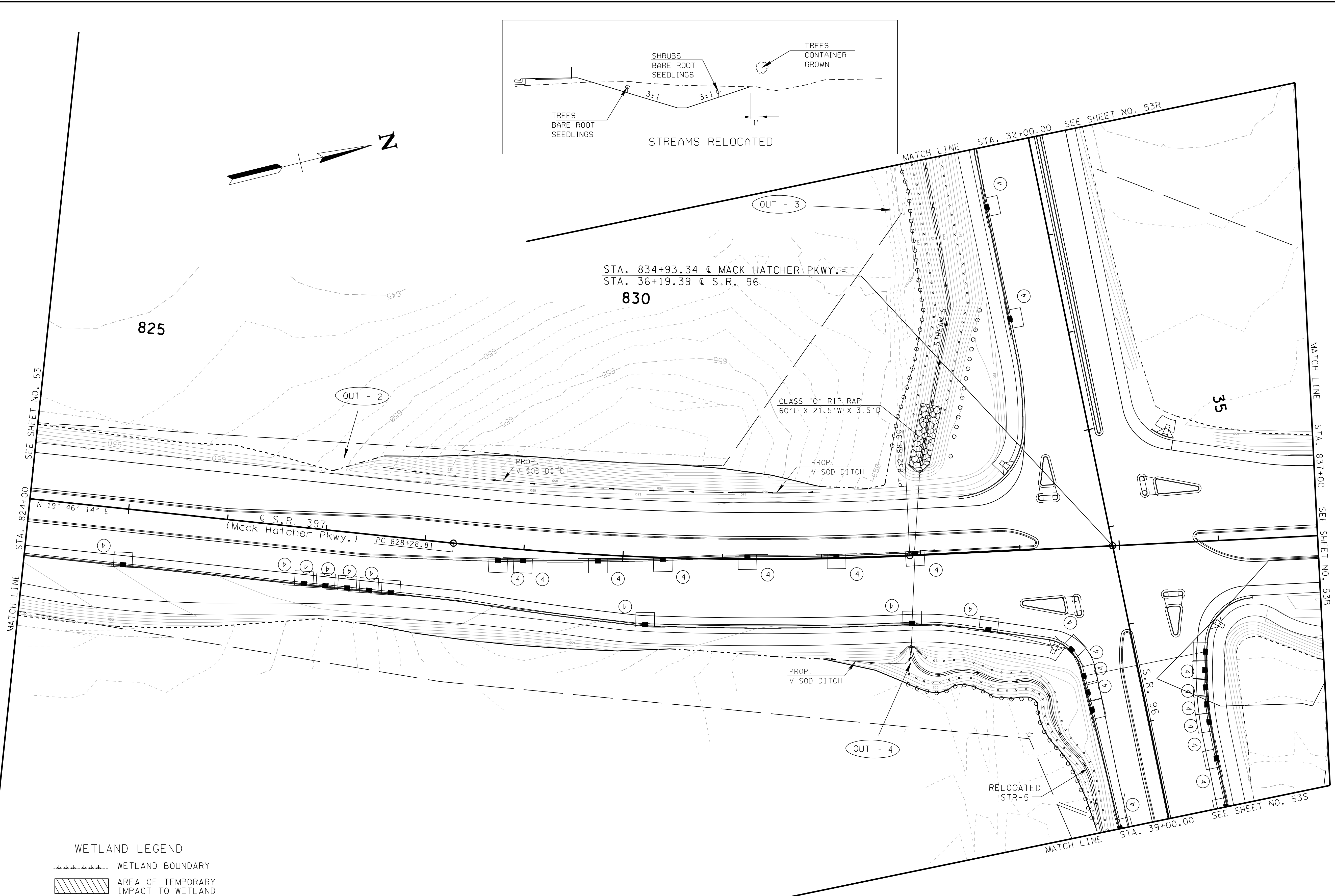
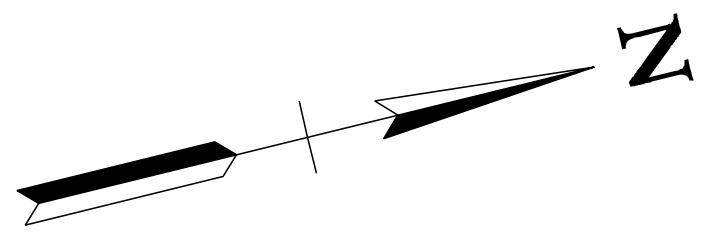
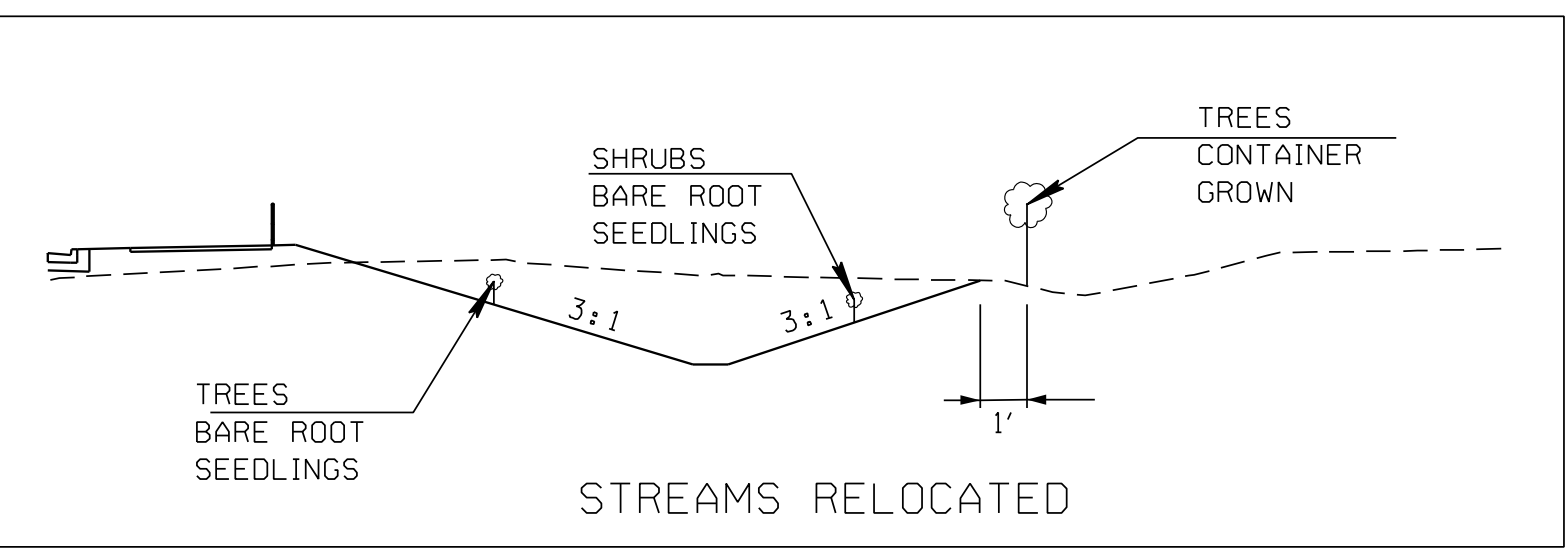
EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 3

FROM STA. 812+00
 TO STA. 824+00

SCALE: 1"=50'

7/24/2018 4:52:27 PM
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TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	50-A
CONST.	2018	STP/HPP-397(10)	53-A



MATCH LINE STA. 824+00 SEE SHEET NO. 53

MATCH LINE STA. 32+00.00 SEE SHEET NO. 53R

MATCH LINE STA. 837+00 SEE SHEET NO. 53B

MATCH LINE STA. 39+00.00 SEE SHEET NO. 53S

WETLAND LEGEND

- ***** WETLAND BOUNDARY
- AREA OF TEMPORARY IMPACT TO WETLAND
- AREA OF PERMANENT IMPACT TO WETLANDS

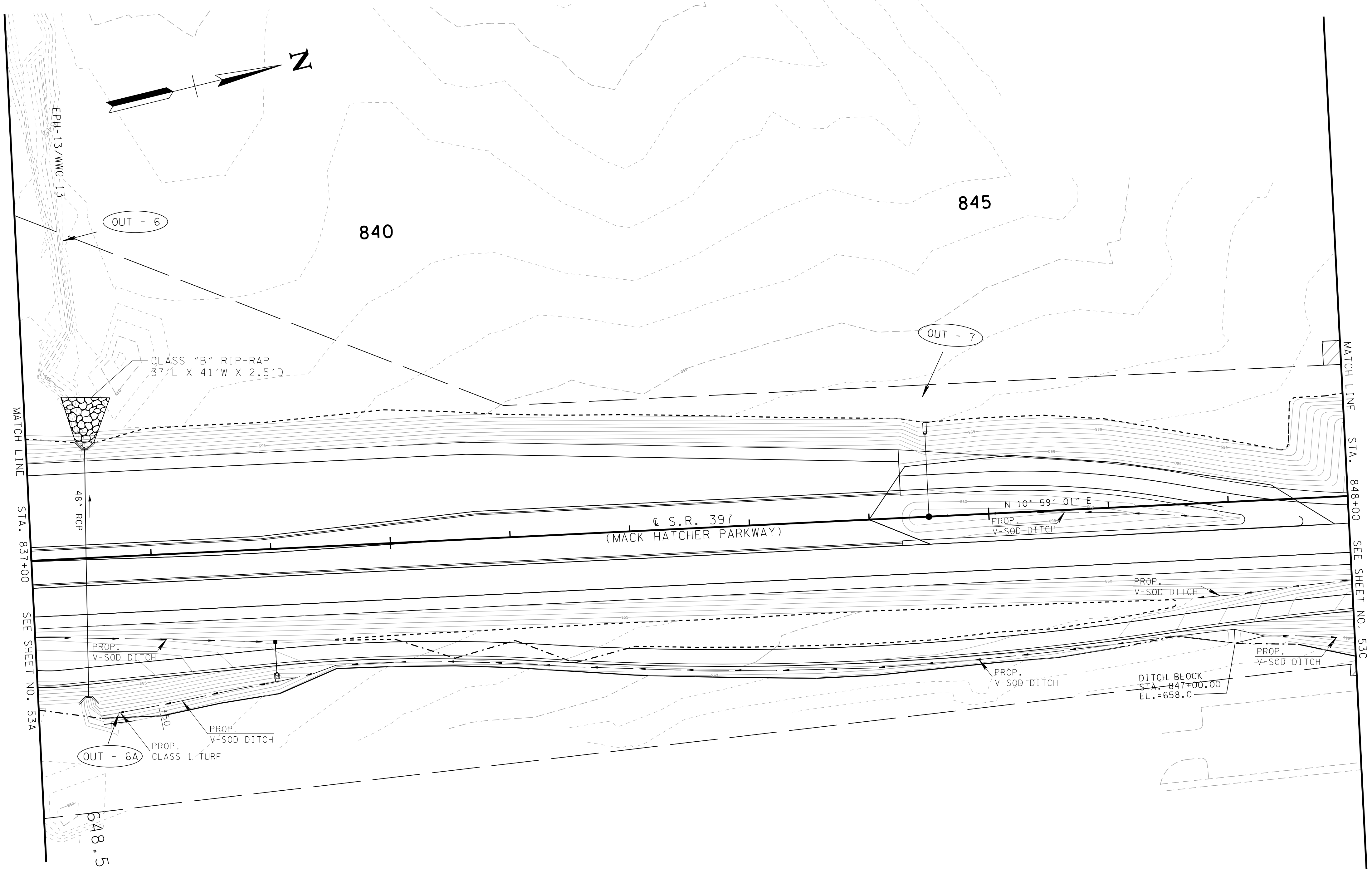
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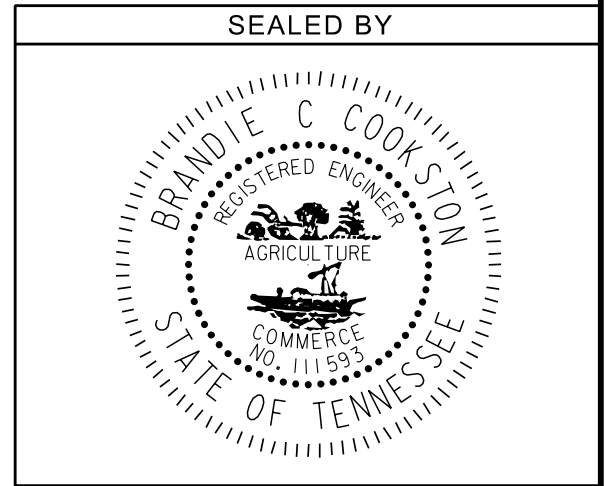
EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 3
FROM STA. 824+00
TO STA. 837+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	51-A
CONST.	2018	STP/HPP-397(10)	53-B

REV. 7-17-18: ADDED OUTFALL 6A.
 REV. 10-10-18: REVISED NOTE FOR EPH-13/WWC-13.



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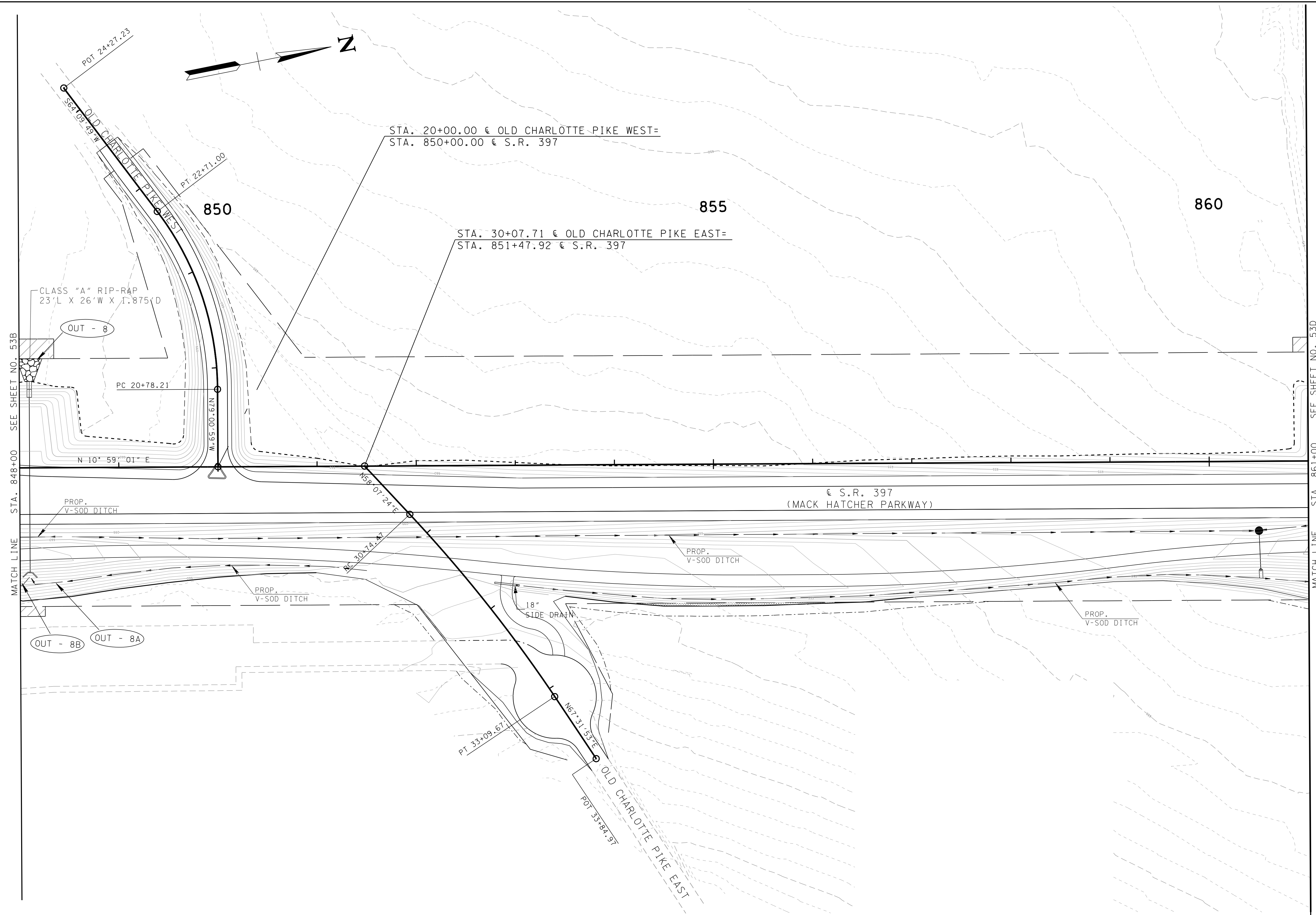
STATE OF TENNESSEE
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EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 3

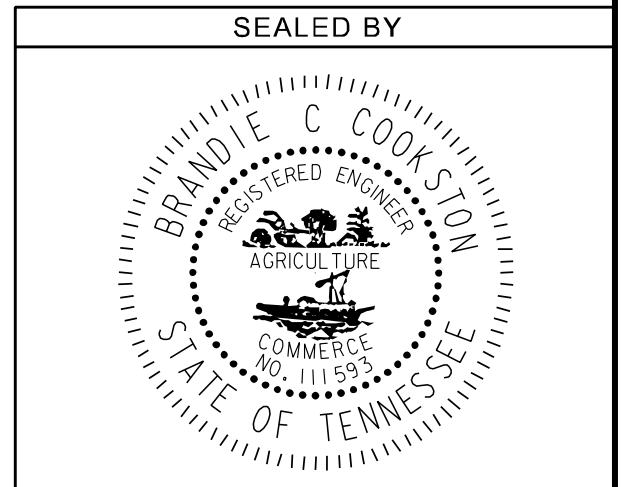
FROM STA. 837+00
 TO STA. 848+00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	52-A
CONST.	2018	STP/HPP-397(10)	53-C

REV. 7-17-18; ADDED OUTFALLS 8A & 8B.



8/8/2018 1:12:03 PM M:\Franklin\mackhatcherpkwy\2-Lane\Sheets_2Lane\053C_erosion_2Lane.sht



**STATE OF TENNESSEE
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**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 3**

FROM STA. 848+00
TO STA. 861+00

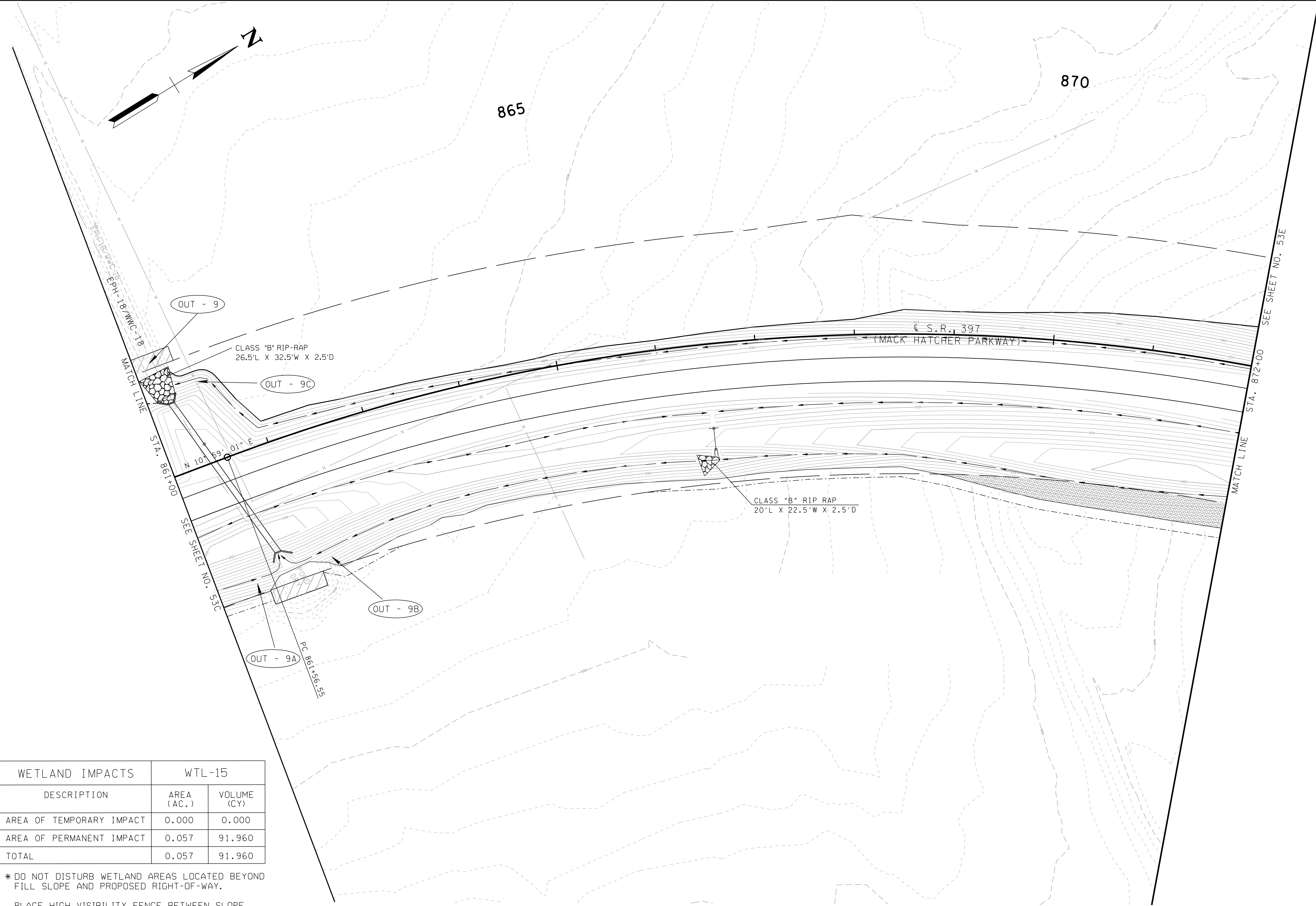
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	53-A
CONST.	2018	STP/HPP-397(10)	53-D

REV. 6-14-18: UPDATED ENVIRONMENTAL FEATURES AND ADDED WETLAND OUTFALL TABLE. ADDED OUTFALLS 9A & 9B.

REV. 7-17-18: ADDED OUTFALL 9C.

REV. 10-10-18: REVISED LABEL FOR EPH-18/WWC-18.



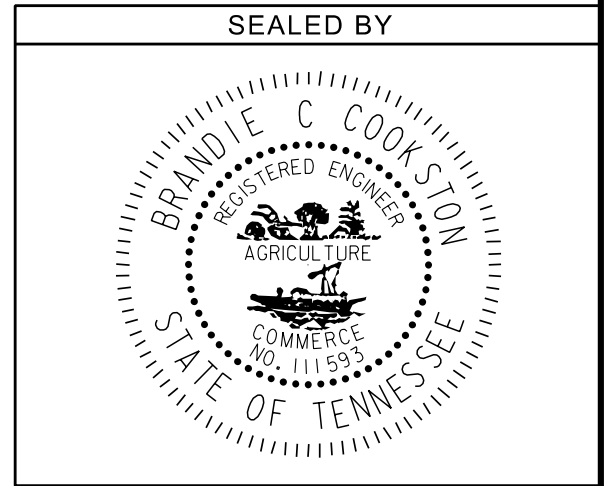
CLASS "B" RIP-RAP
26.5'L X 32.5'W X 2.5'D

CLASS "B" RIP RAP
20'L X 22.5'W X 2.5'D

WETLAND IMPACTS	WTL-15	
	DESCRIPTION	AREA (AC.)	VOLUME (CY)
AREA OF TEMPORARY IMPACT	0.000	0.000
AREA OF PERMANENT IMPACT	0.057	91.960
TOTAL	0.057	91.960

* DO NOT DISTURB WETLAND AREAS LOCATED BEYOND FILL SLOPE AND PROPOSED RIGHT-OF-WAY.

PLACE HIGH VISIBILITY FENCE BETWEEN SLOPE LINES AND WETLANDS. SEE EPSC PLANS FOR LOCATIONS.

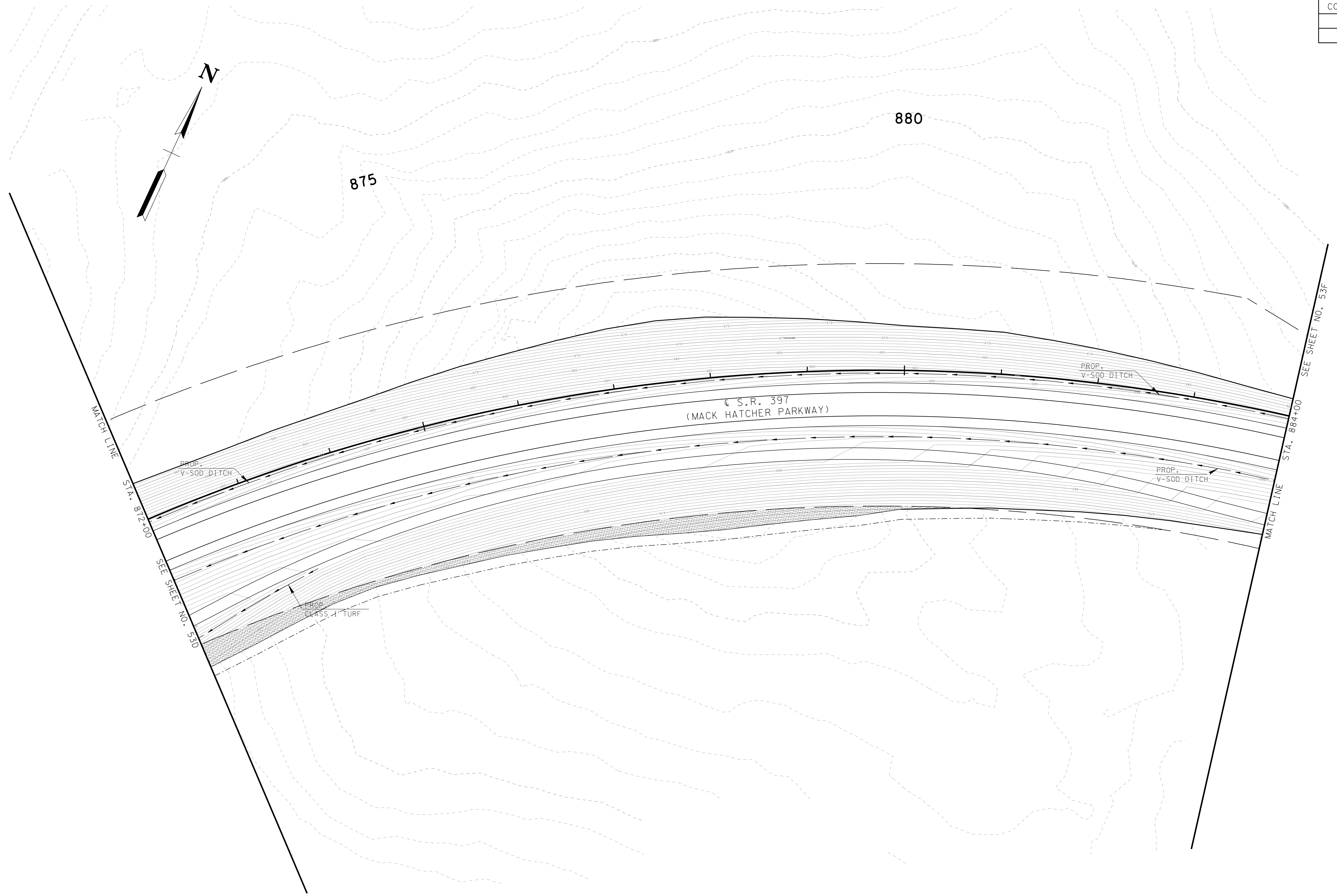


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EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 3

FROM STA. 861+00
TO STA. 872+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	54-A
CONST.	2018	STP/HPP-397(10)	53-E



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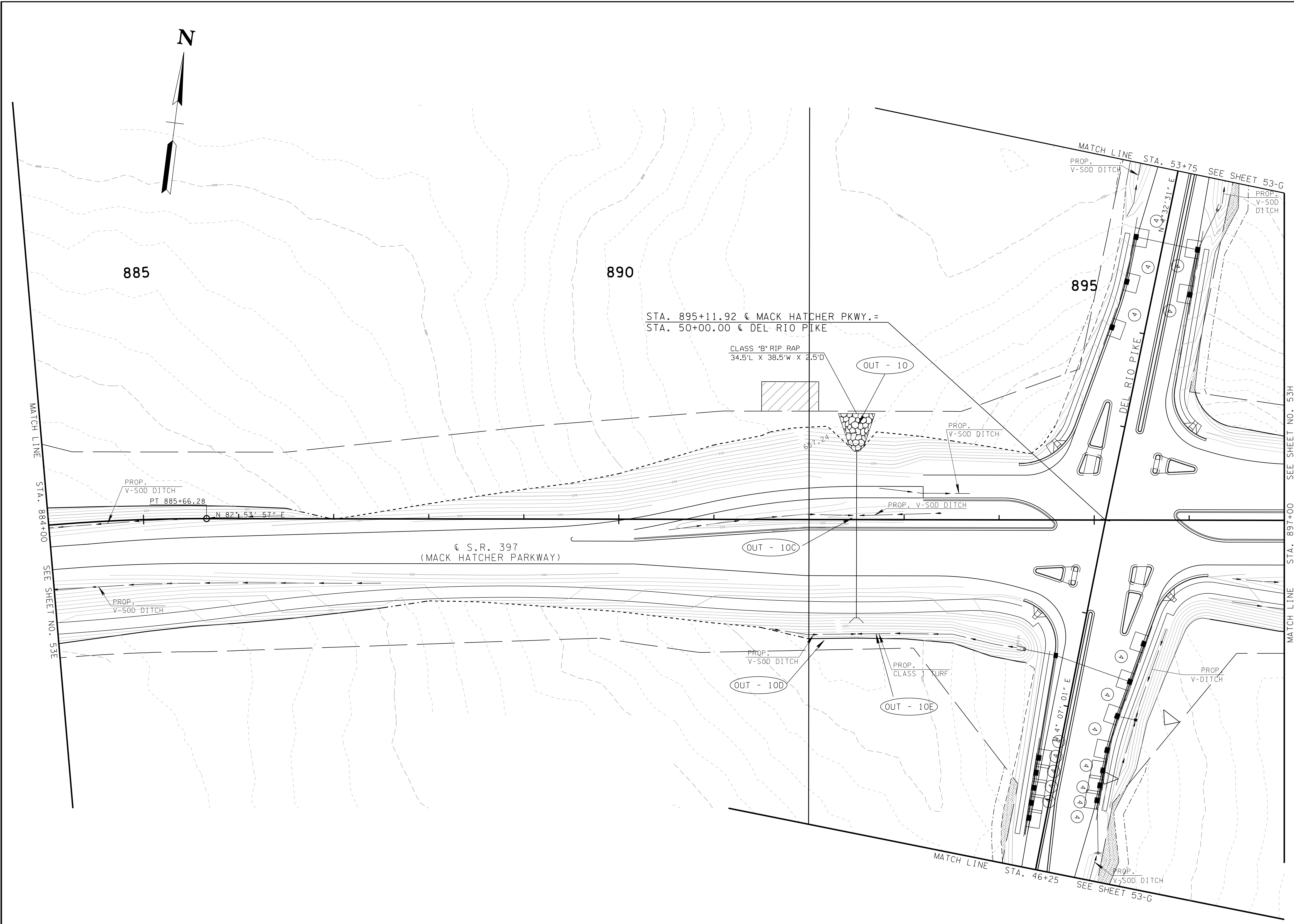
EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 3

FROM STA. 872+00
TO STA. 884+00

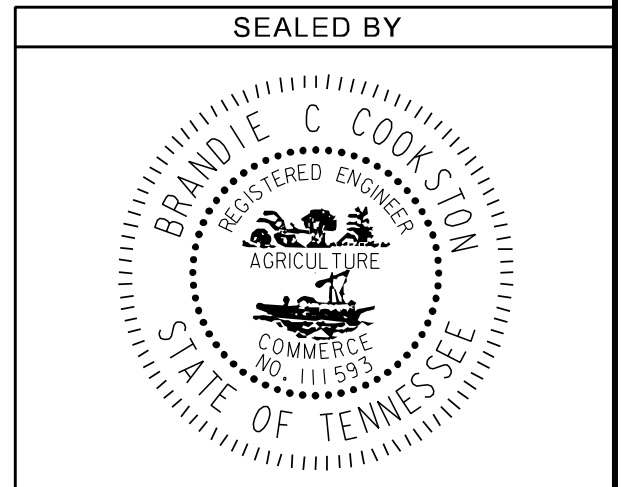
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	55-A
CONST.	2018	STP/HPP-397(10)	53-F

REV. 7-17-18: ADDED OUTFALLS 10C, 10D & 10E.



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**EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 3**

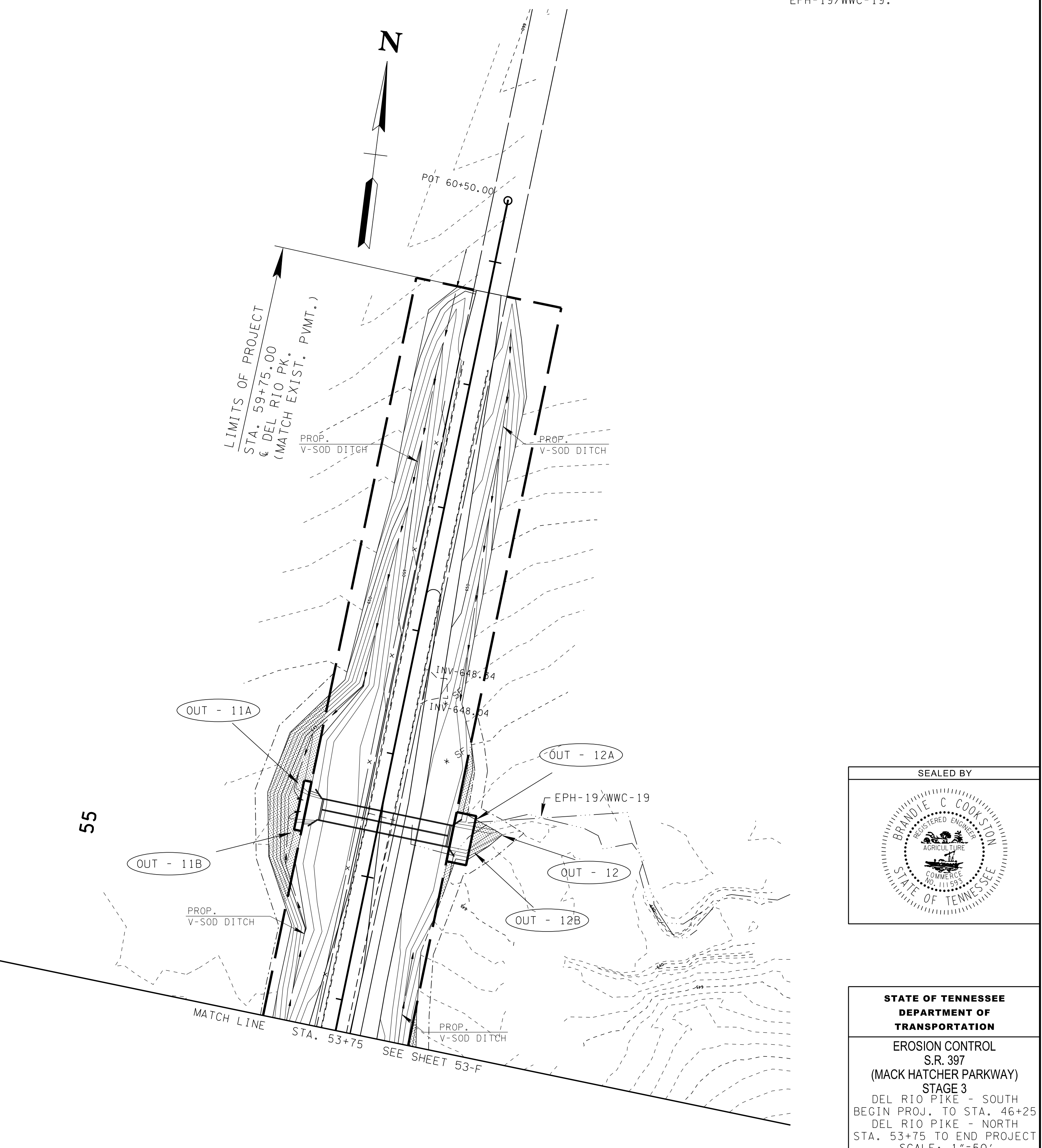
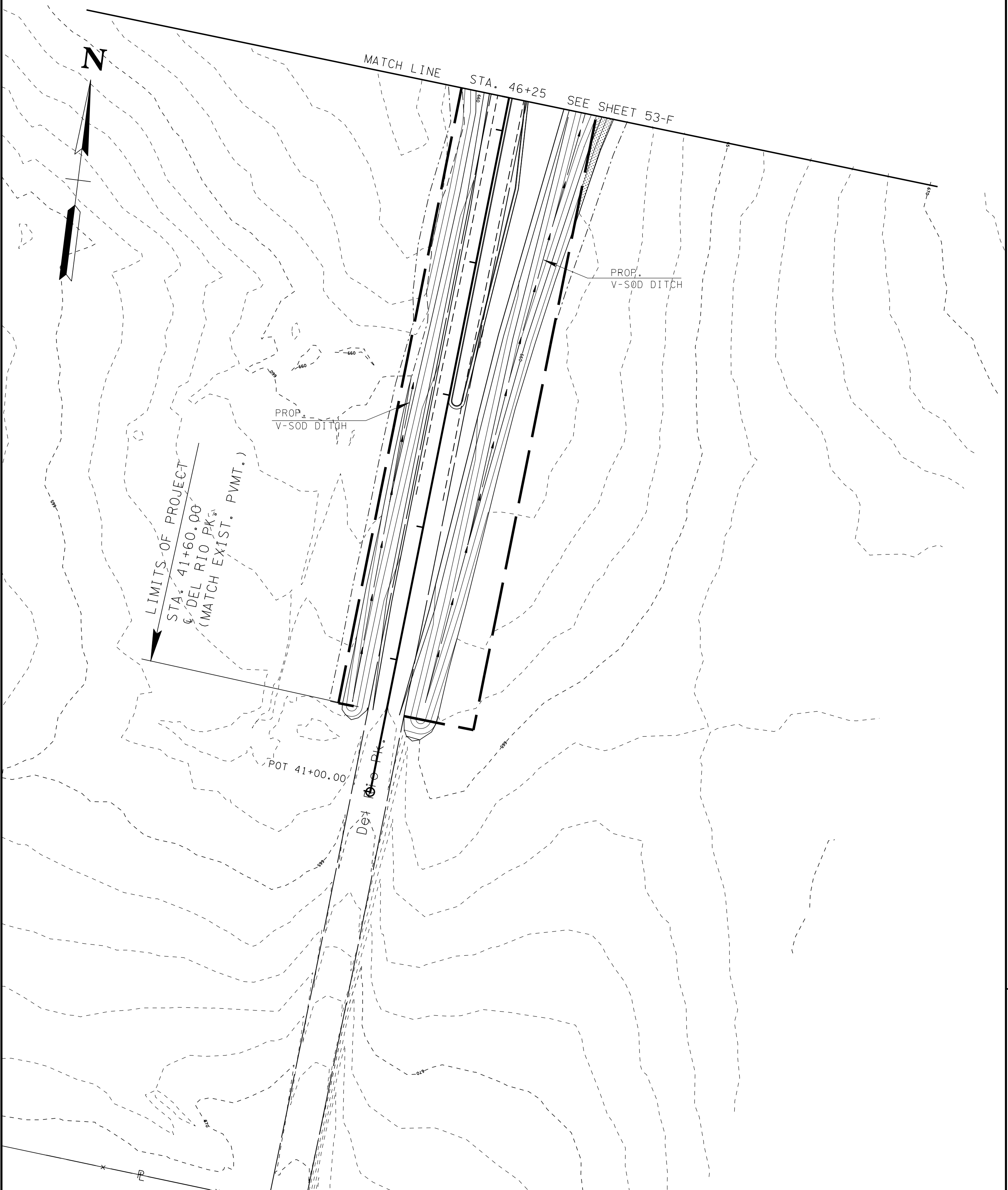
FROM STA. 884+00
 TO STA. 897+00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	55-1A
CONST.	2018	STP/HPP-397(10)	53-G

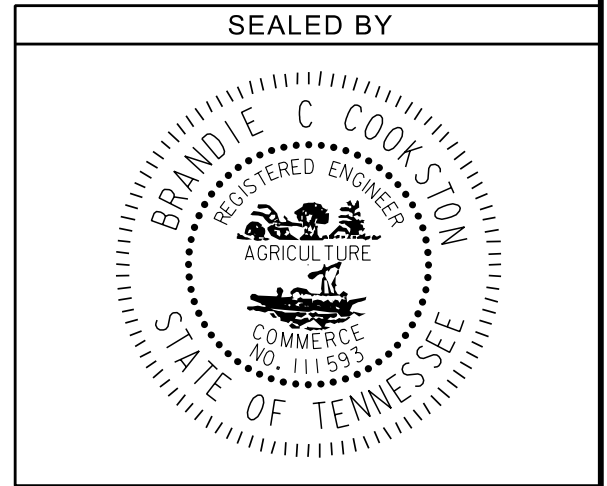
REV. 6-14-18: ADDED OUTFALL 12.
 REV. 10-10-18: REVISED LABEL FOR EPH-19/WWC-19.

DEL RIO PIKE SOUTH

DEL RIO PIKE NORTH



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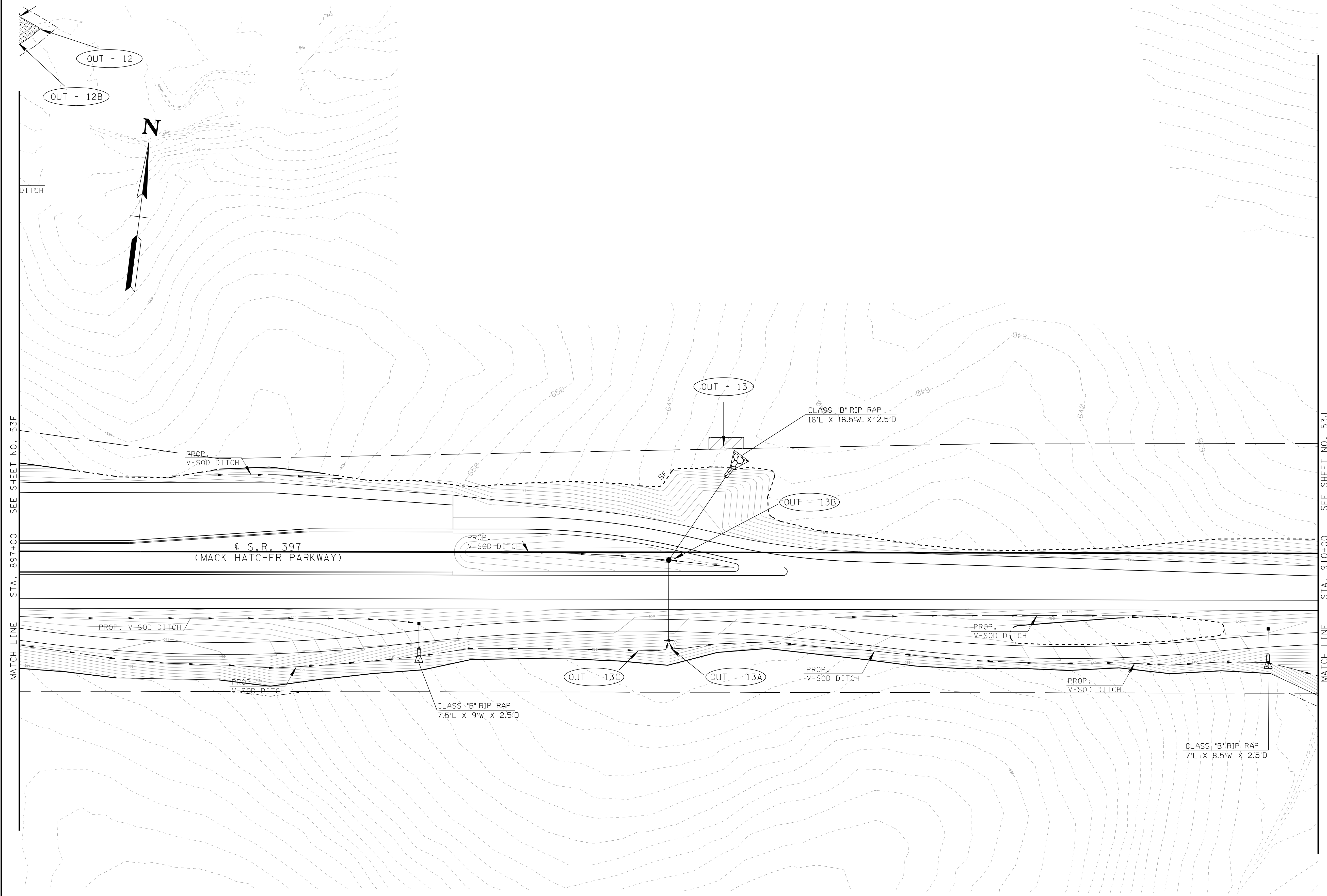
STATE OF TENNESSEE
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EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 3
 DEL RIO PIKE - SOUTH
 BEGIN PROJ. TO STA. 46+25
 DEL RIO PIKE - NORTH
 STA. 53+75 TO END PROJECT
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	56-A
CONST.	2018	STP/HPP-397(10)	53-H

REV. 6-14-18: ADDED OUTFALLS 13A & 13B.

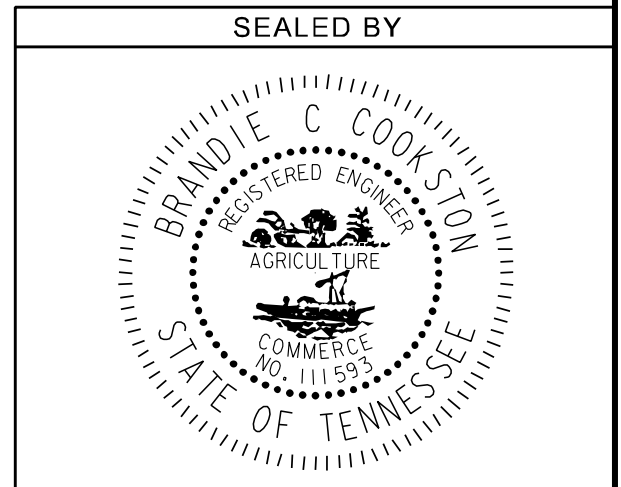
REV. 7-17-18: ADDED OUTFALL 13C.



MATCH LINE STA. 897+00 SEE SHEET NO. 53F

MATCH LINE STA. 910+00 SEE SHEET NO. 53J

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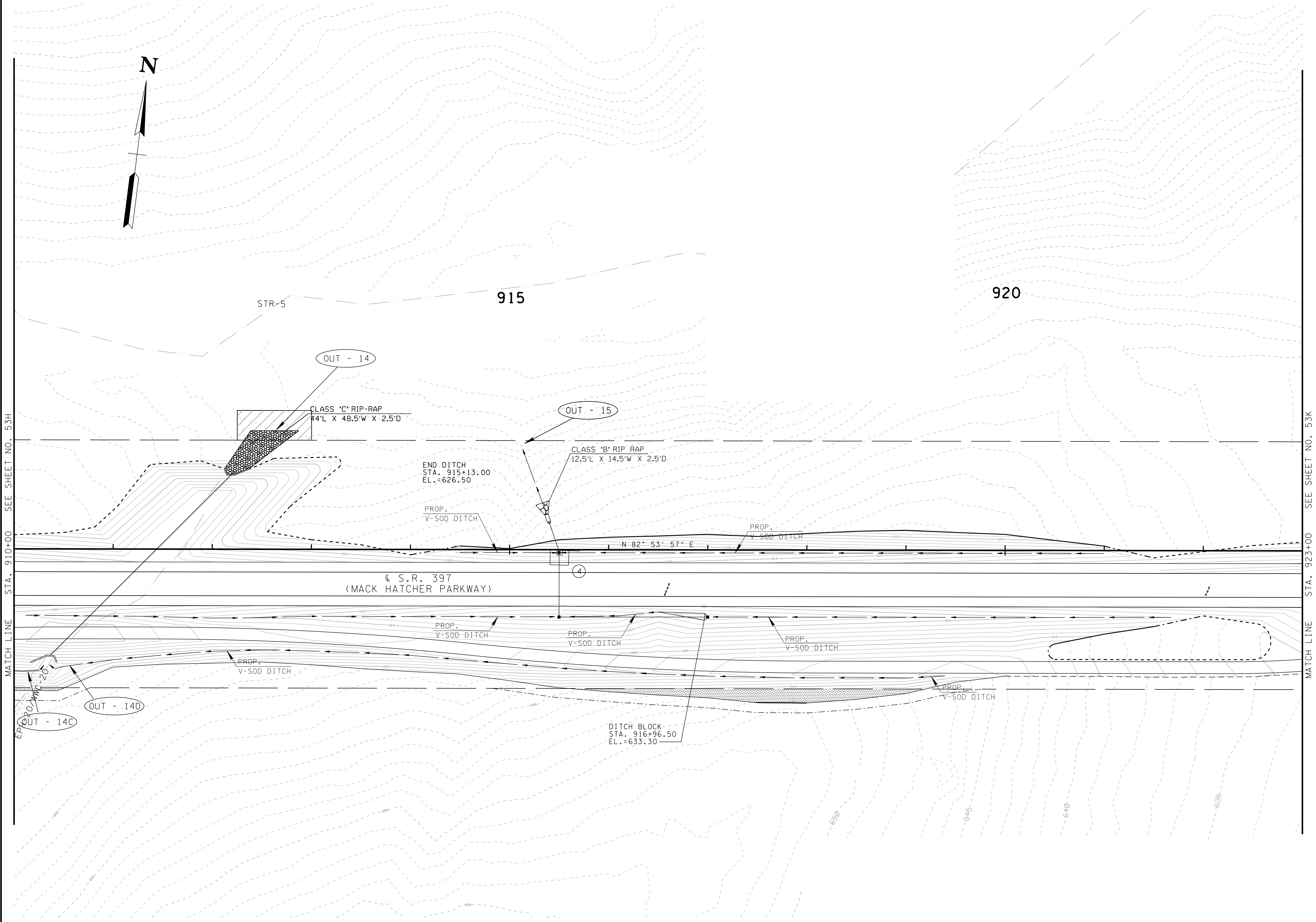
**STATE OF TENNESSEE
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**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 3**

FROM STA. 897+00
TO STA. 910+00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	57-A
CONST.	2018	STP/HPP-397(10)	53-J

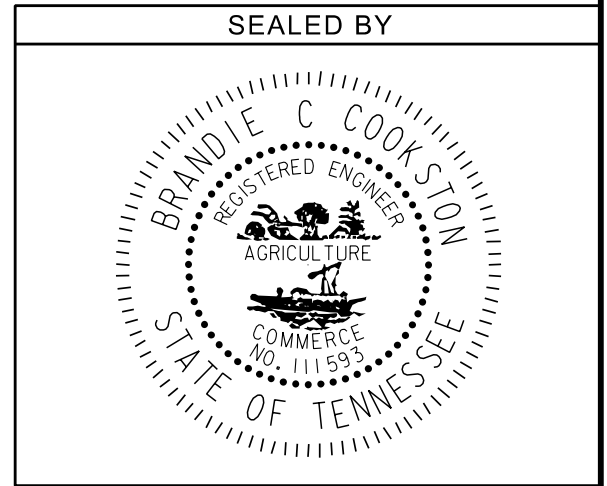
REV. 7-17-18: ADDED OUTFALLS 14C & 14D.
 REV. 10-10-18: REVISED LABEL FOR EPH-20/WWC-20.



MATCH LINE STA. 910+00 SEE SHEET NO. 53H

MATCH LINE STA. 923+00 SEE SHEET NO. 53K

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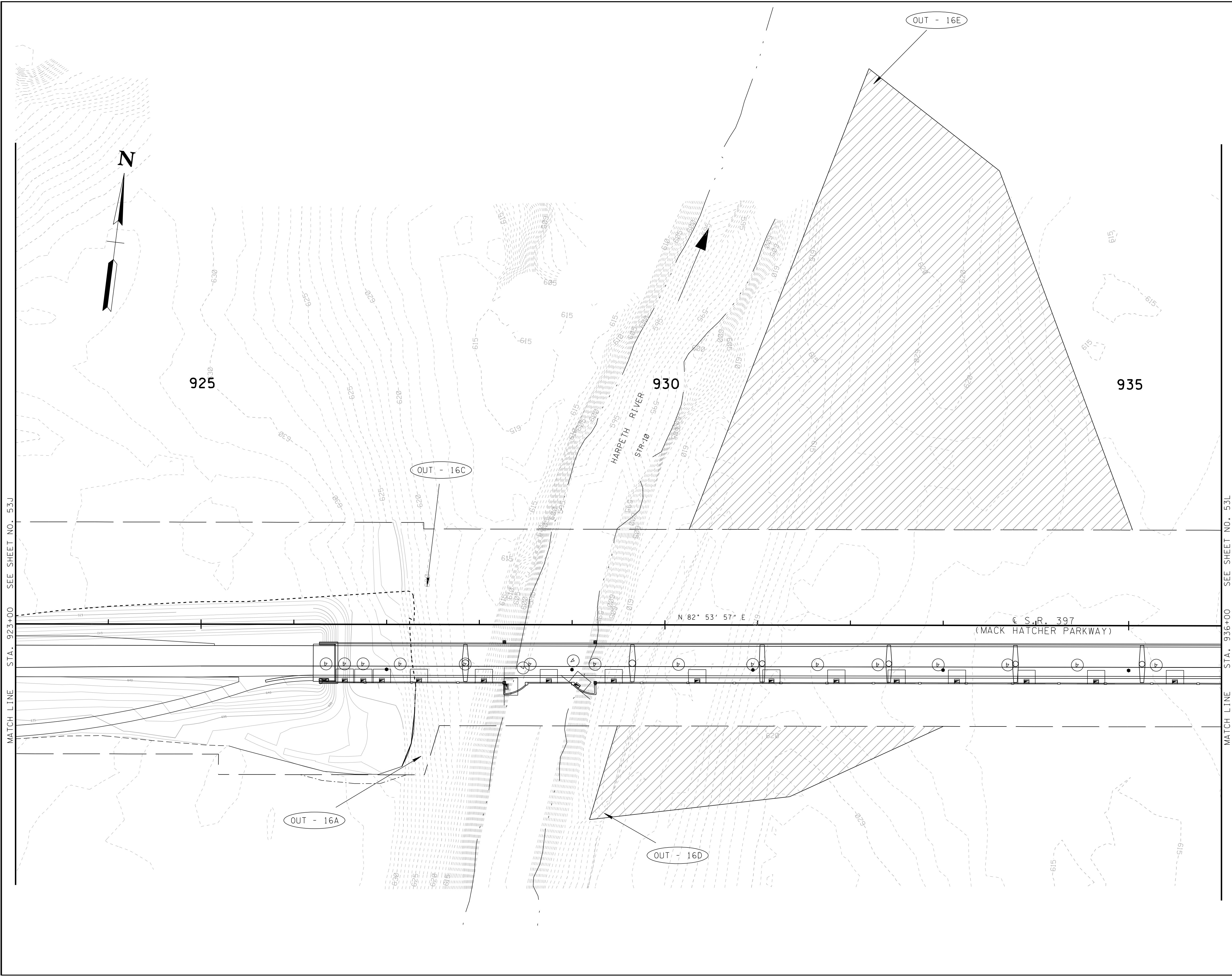
**EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 3**

FROM STA. 910+00
 TO STA. 923+00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	58-A
CONST.	2018	STP/HPP-397(10)	53-K

REV. 6-14-18: ADDED TYPE 4 CURB
INLET PROTECTION ALONG BRIDGE.

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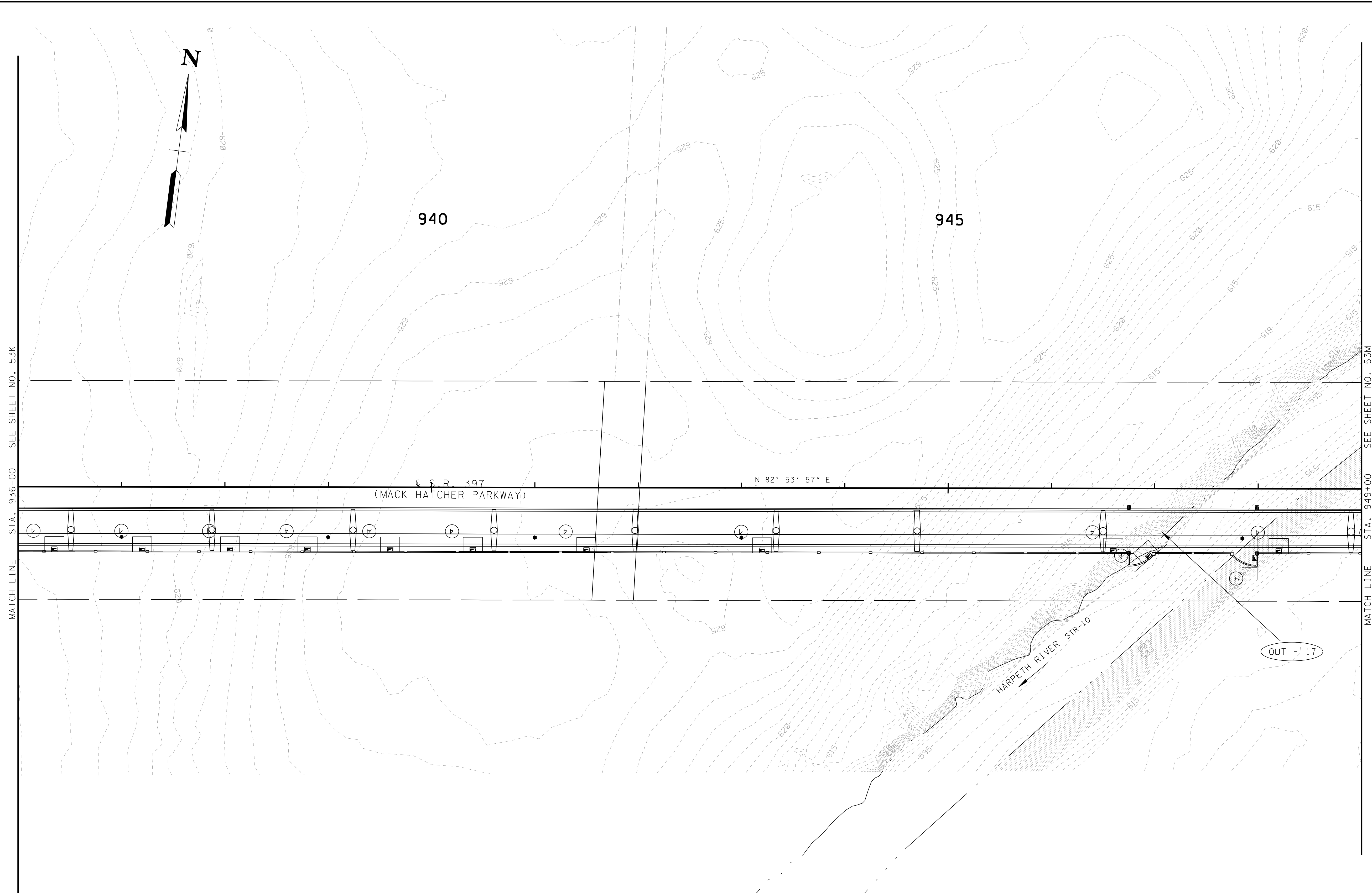
**EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 3**

FROM STA. 923+00
TO STA. 936+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	53-A
CONST.	2018	STP/HPP-397(10)	53-L

REV. 6-14-18: ADDED TYPE 4 CURB INLET PROTECTION ALONG BRIDGE.



MATCH LINE STA. 936+00 SEE SHEET NO. 53K

MATCH LINE STA. 949+00 SEE SHEET NO. 53M

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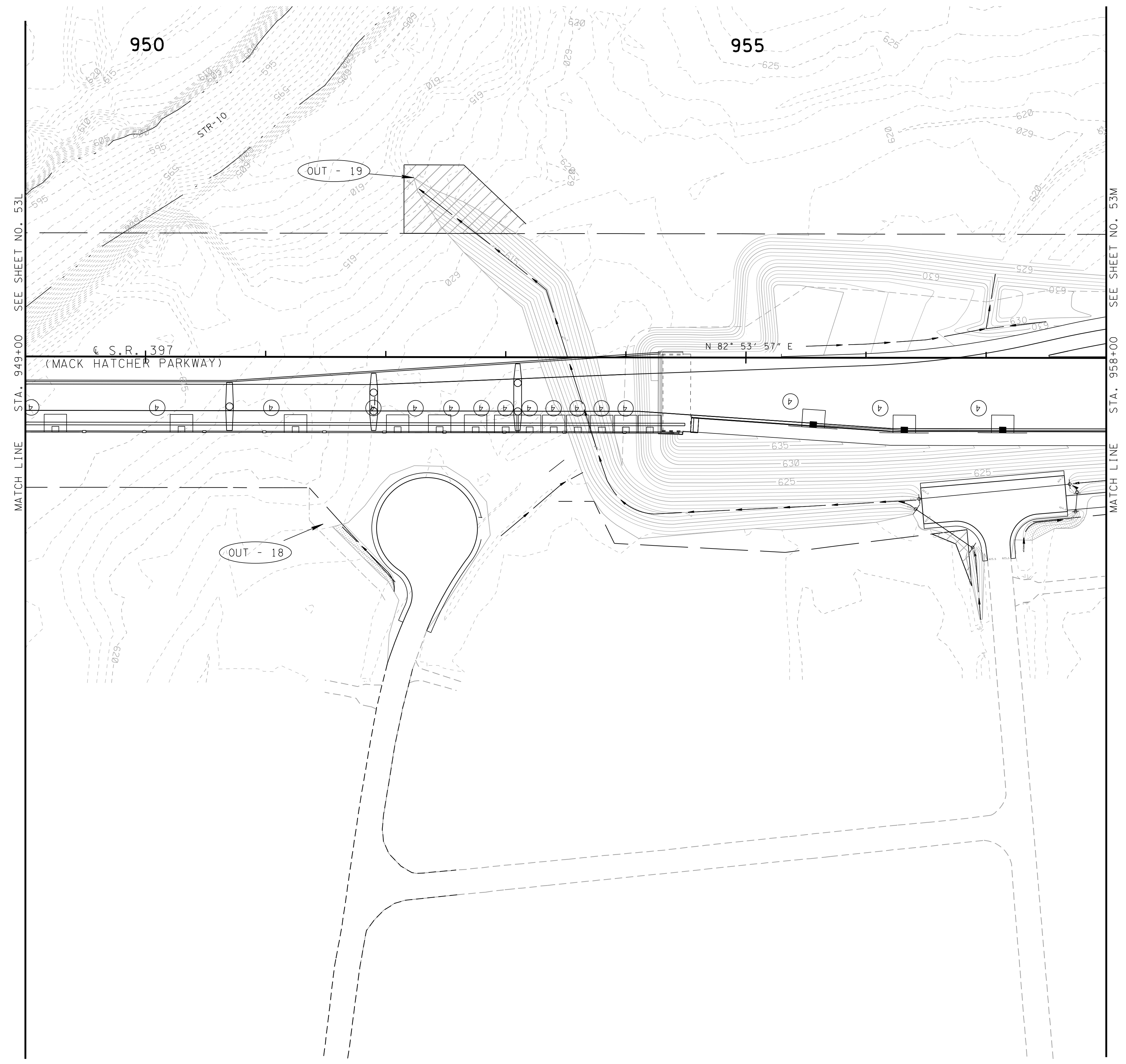
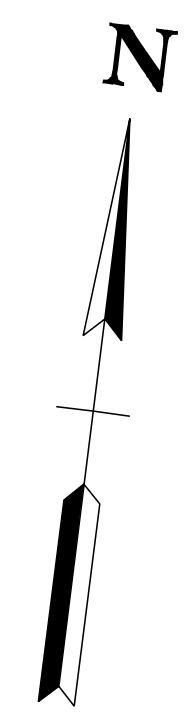
EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 3

FROM STA. 936+00
TO STA. 949+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	60-A
CONST.	2018	STP/HPP-397(10)	53-M

REV. 6-14-2018; ADDED TYPE 4 INLET PROTECTIONS.



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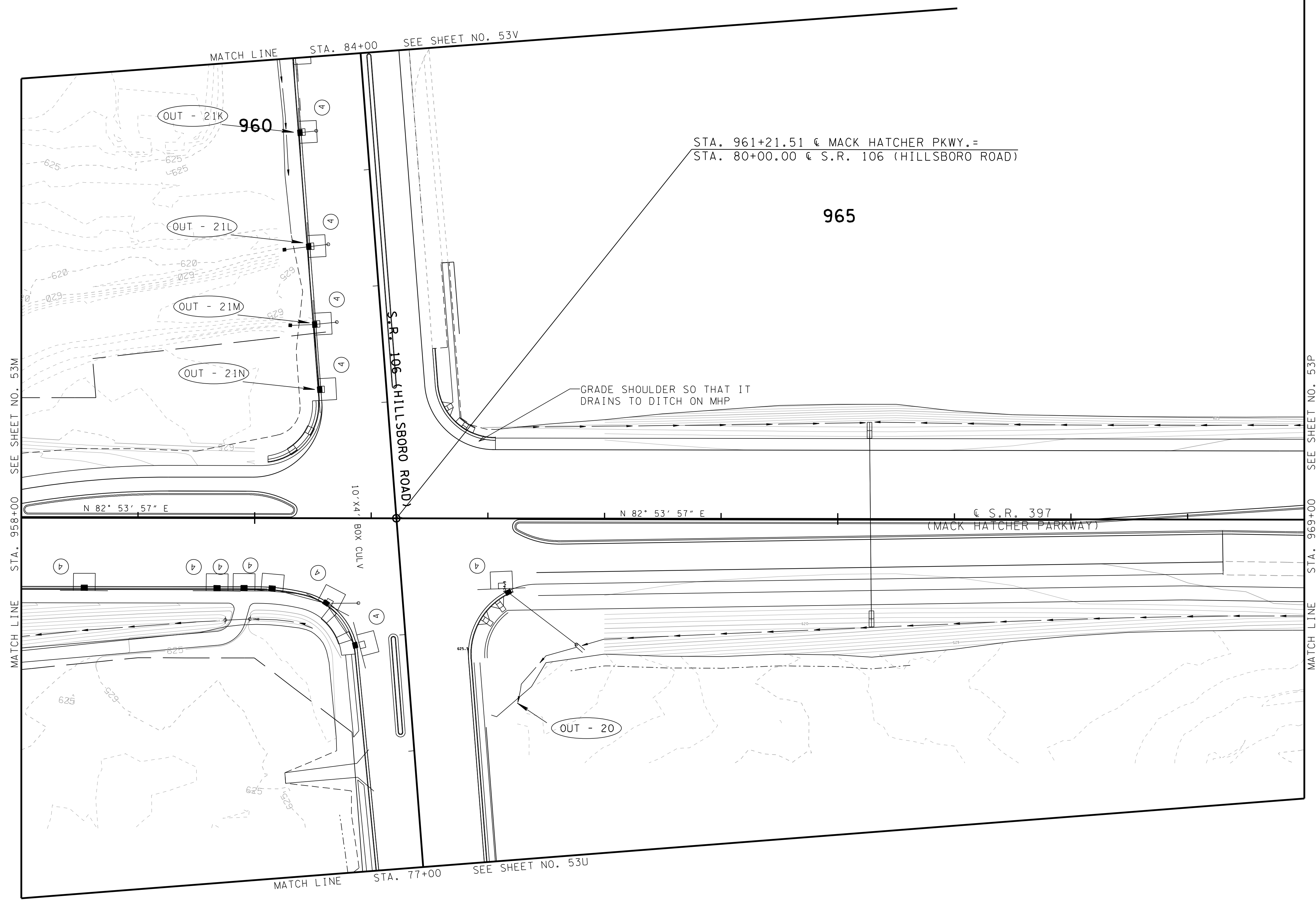
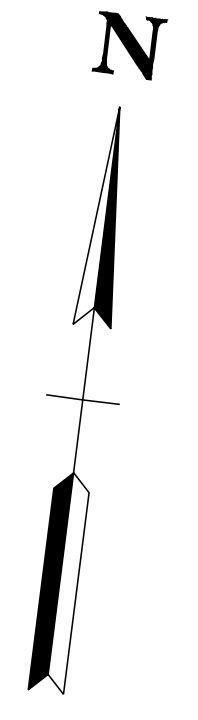
EROSION CONTROL
S.R. 397
(MACK HATCHER PARKWAY)
STAGE 3

FROM STA. 949+00
TO STA. 958+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	61-A
CONST.	2018	STP/HPP-397(10)	53-N

REV. 6-14-18: ADJUSTED LABEL FOR
 OUTFALL 20. UPDATED SHEET NUMBERS
 ON MATCHLINES. ADDED TYPE 4 INLET
 PROTECTIONS.



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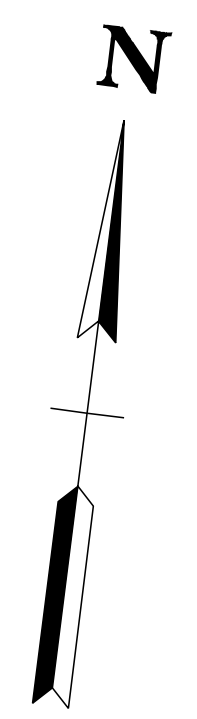
**STATE OF TENNESSEE
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EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 3

FROM STA. 958+00
 TO STA. 969+00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	62-A
CONST.	2018	STP/HPP-397(10)	53-P



970

975

980

← END PROJECT STP-397(8) R.O.W.
 STA. 978+96.53 @ S.R.397
 (MACK HATCHER PKWY.)

PROP.
 V-SOD DITCH

N 82° 53' 57" E

€ S.R. 397
 (MACK HATCHER PARKWAY)

PC 980+98.06

MATCH LINE STA. 969+00 SEE SHEET NO. 53W

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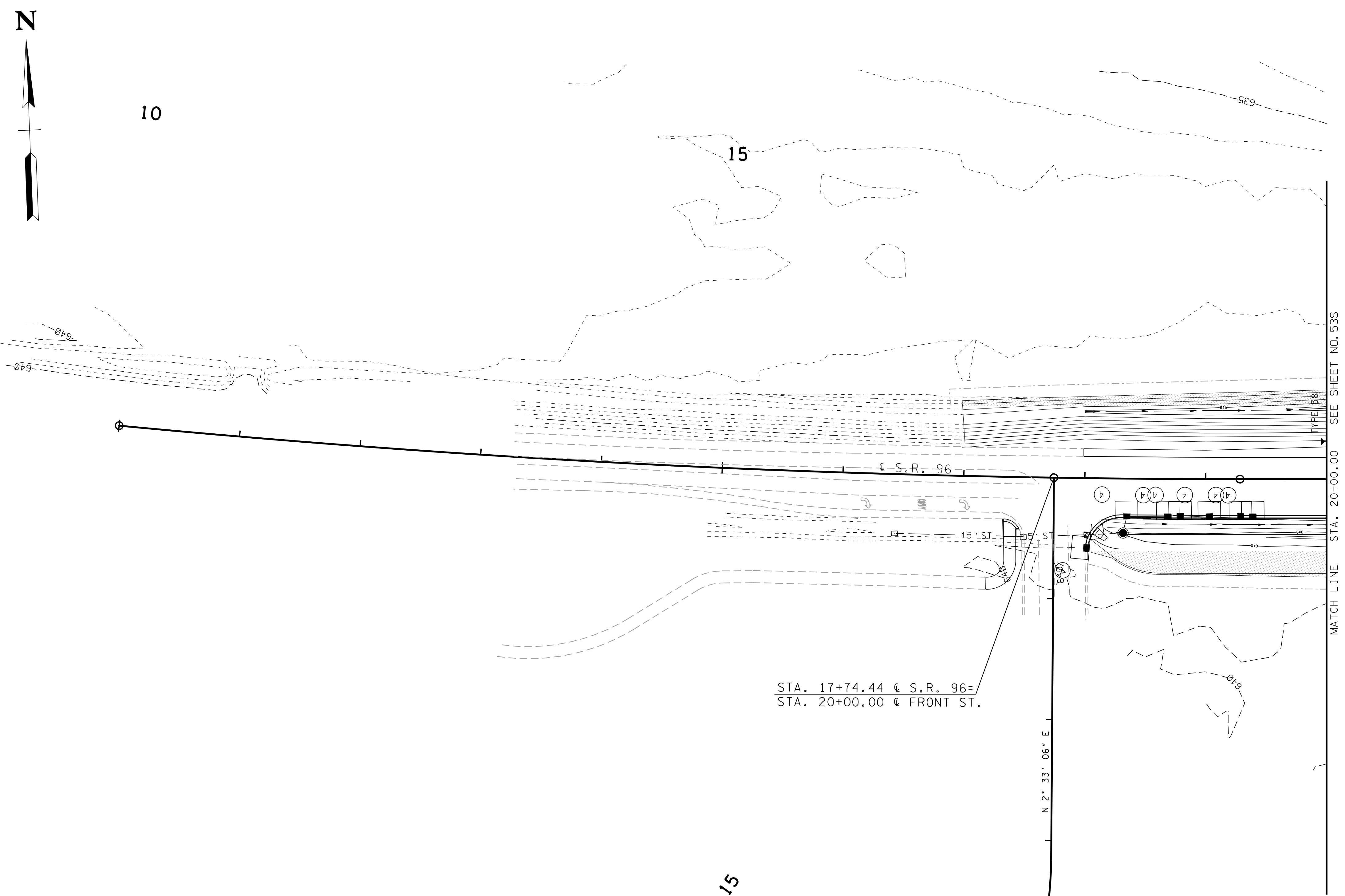
**STATE OF TENNESSEE
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**EROSION CONTROL
 S.R. 397
 (MACK HATCHER PARKWAY)
 STAGE 3**

FROM STA. 969+00
 TO END PROJECT

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	64-A
CONST.	2018	STP/HPP-397(10)	53-R



STA. 17+74.44 @ S.R. 96=
 STA. 20+00.00 @ FRONT ST.

N 2° 33' 06" E

MATCH LINE STA. 20+00.00 SEE SHEET NO. 53S

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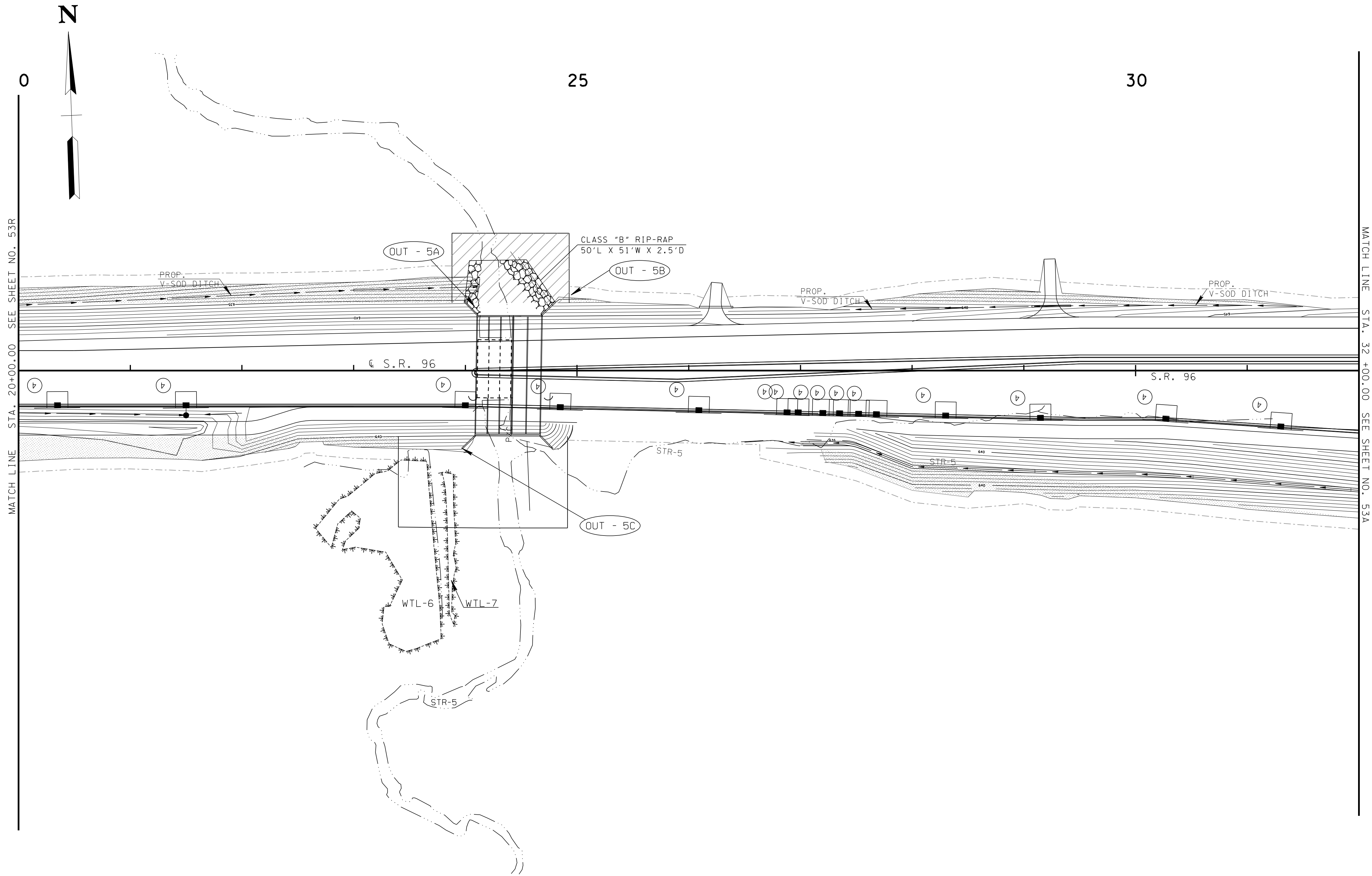
**STATE OF TENNESSEE
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**EROSION CONTROL
 S.R. 96
 STAGE 3**

STA. 10+00.00
 LIMITS OF PROJECT
 TO STA. 19+66.00

SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	65-A
CONST.	2018	STP/HPP-397(10)	53-S



MATCH LINE STA. 20+00.00 SEE SHEET NO. 53R

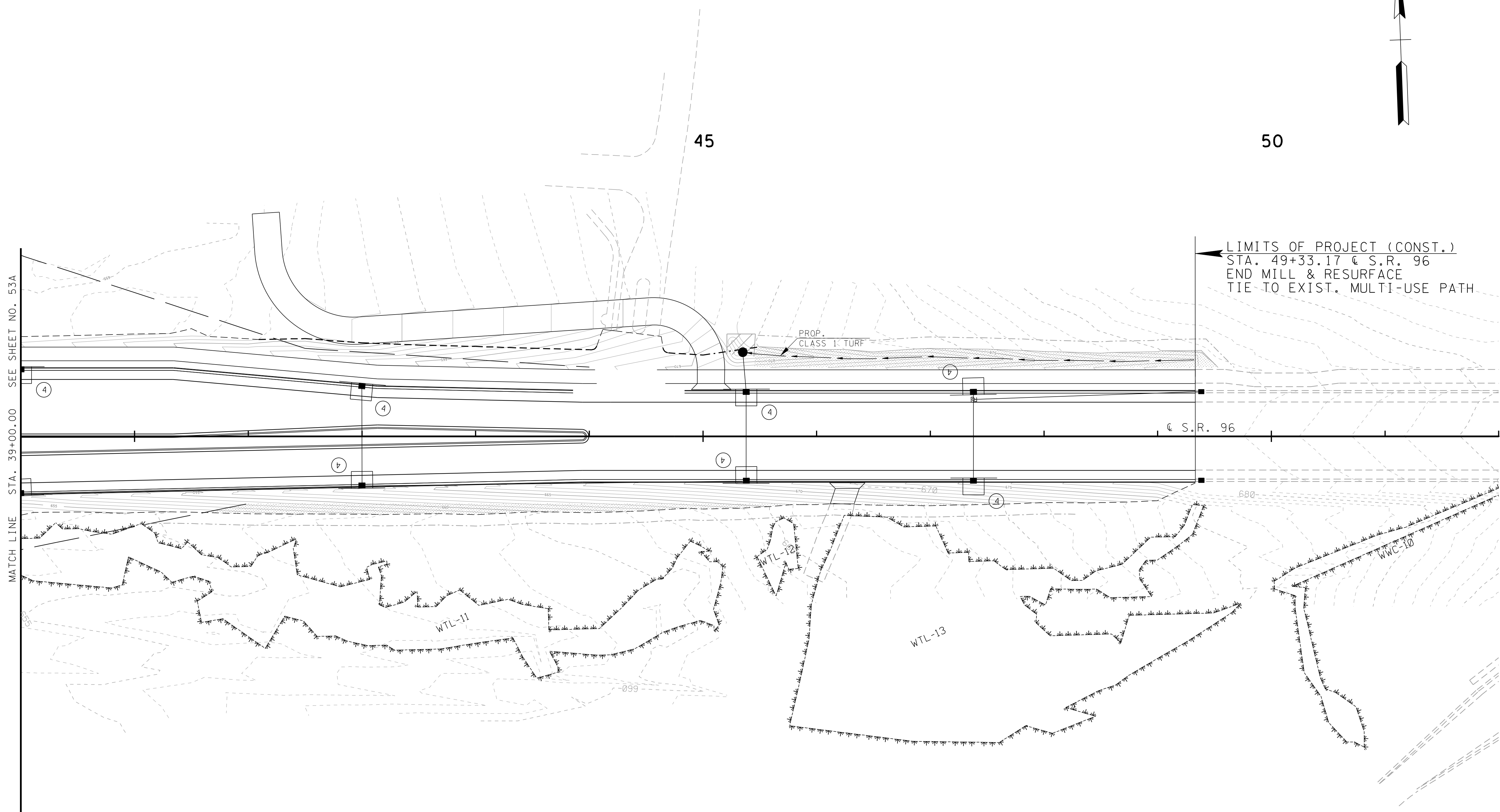
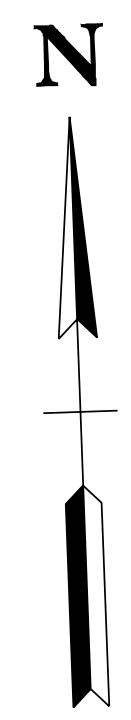
MATCH LINE STA. 32+00.00 SEE SHEET NO. 53A

WETLAND LEGEND

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 DEPARTMENT OF
 TRANSPORTATION**
 EROSION CONTROL
 S.R. 96
 STAGE 3
 FROM STA. 19+60.00
 TO STA. 32+00.00
 SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	66-A
CONST.	2018	STP/HPP-397(10)	53-T



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TRANSPORTATION**

EROSION CONTROL
S.R. 96
STAGE 3

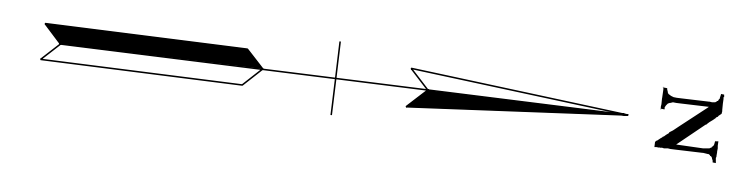
FROM STA. 39+00.00
TO STA. 52+00.00

SCALE: 1"=50'

7/24/2018 4:54:31 PM
M:\Franklin\macthatcherpkwy\2-Lane\Sheets_2Lane\053T_erosion_2Lane.sht

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2018	STP/HPP-397(10)	53-U

REV. 6-14-18: ADDED THIS SHEET TO PLANS.

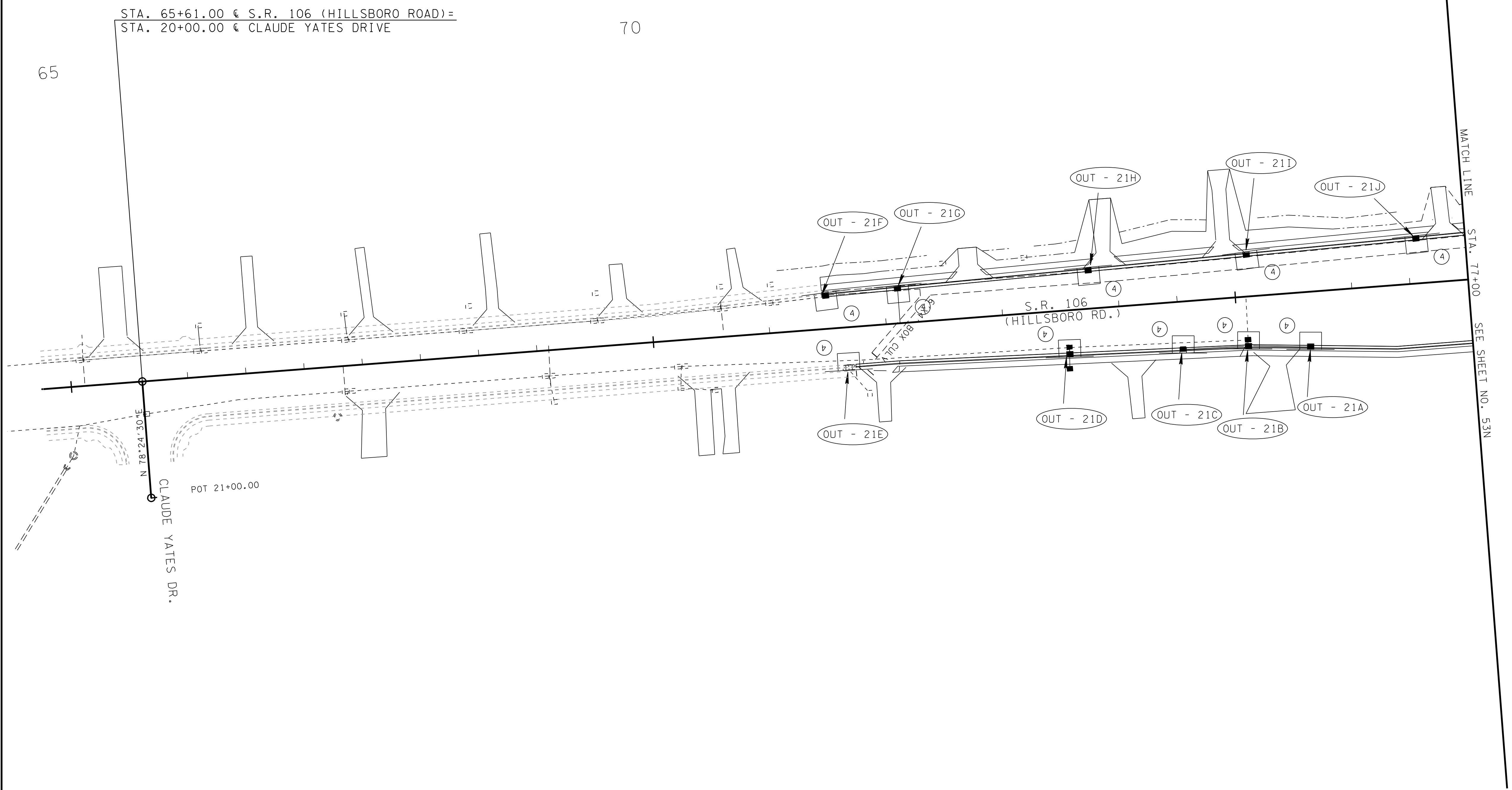


STA. 65+61.00 @ S.R. 106 (HILLSBORO ROAD) =
STA. 20+00.00 @ CLAUDE YATES DRIVE

65

70

75



N 78°24'30"E
CLAUDE YATES DR.

POT 21+00.00

S.R. 106
(HILLSBORO RD.)

MATCH LINE
STA. 77+00
SEE SHEET NO. 53N

**UNOFFICIAL
SET
NOT FOR
BIDDING**

**STATE OF TENNESSEE
DEPARTMENT OF
TRANSPORTATION**

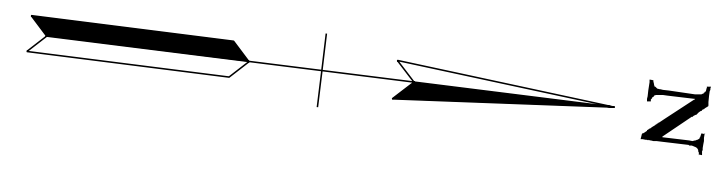
**EROSION CONTROL
S.R. 106
(HILLSBORO ROAD)
STAGE 3**

FROM STA. 64+75.00
TO STA. 77+00.00
SCALE: 1"=50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
R.O.W.	2009	STP/HPP-397(10)	70-A
CONST.	2018	STP/HPP-397(10)	53-V

REV. 6-14-18: ADDED THIS SHEET TO PLANS.

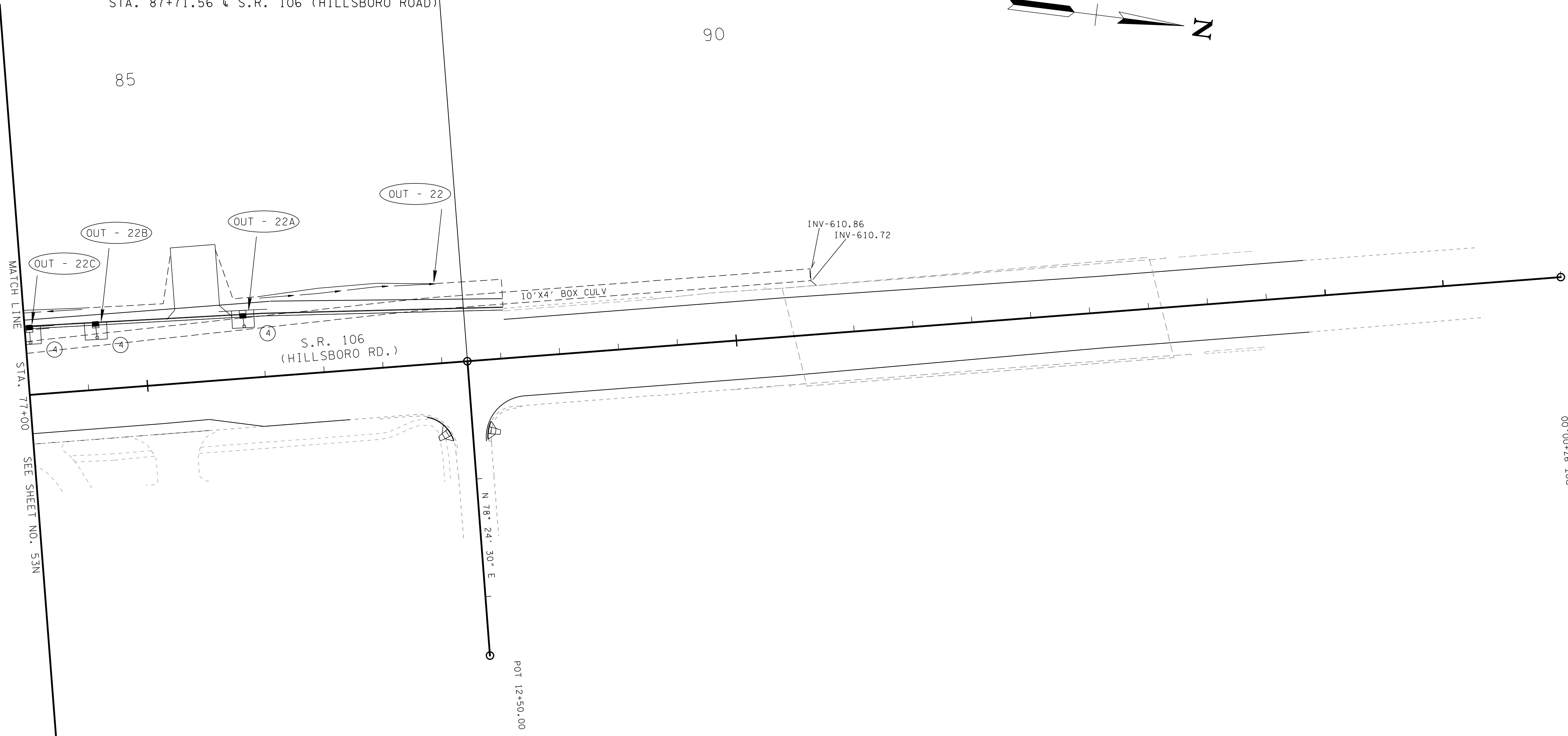
STA. 10+00.00 @ FULTON GREER LANE=
 STA. 87+71.56 @ S.R. 106 (HILLSBORO ROAD)



95

90

85



**UNOFFICIAL
 SET
 NOT FOR
 BIDDING**

**STATE OF TENNESSEE
 DEPARTMENT OF
 TRANSPORTATION**

EROSION CONTROL
 S.R. 106
 (HILLSBORO ROAD)
 PHASE 3
 FROM STA. 64+75.00
 TO STA. 77+00.00
 SCALE: 1"=50'