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ARCADIS U.S. INC.  
1210 PREMIER DRIVE, SUITE 200  
CHATTANOOGA, TN 37421

ANDREW PARR, P.E. NO. 121197

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEETS .....	ROADWAY-SIGN1
TITLE SHEET .....	1
ROADWAY INDEX, STANDARD ROADWAY DRAWINGS, AND	
STANDARD TRAFFIC DESIGN DRAWINGS .....	1A
ESTIMATED ROADWAY QUANTITIES .....	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE .....	2B
TYPICAL SECTIONS .....	2B1
GENERAL NOTES .....	2C
SPECIAL NOTES .....	2D
ENVIRONMENTAL NOTES .....	2E
EROSION PREVENTION AND SEDIMENT CONTROL NOTES .....	2E1
TABULATED QUANTITIES .....	2F
UTILITY NOTES AND UTILITY OWNERS .....	3
RAMP DETAILS .....	4, 4A
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL .....	T1

YEAR	PROJECT NO.	SHEET NO.
2026	STP/HSP-1(513)	ROADWAY-SIGN 1

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SIGNATURE  
SHEETS

Index Of Sheets  
SEE SHEET NO. 1A

# STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

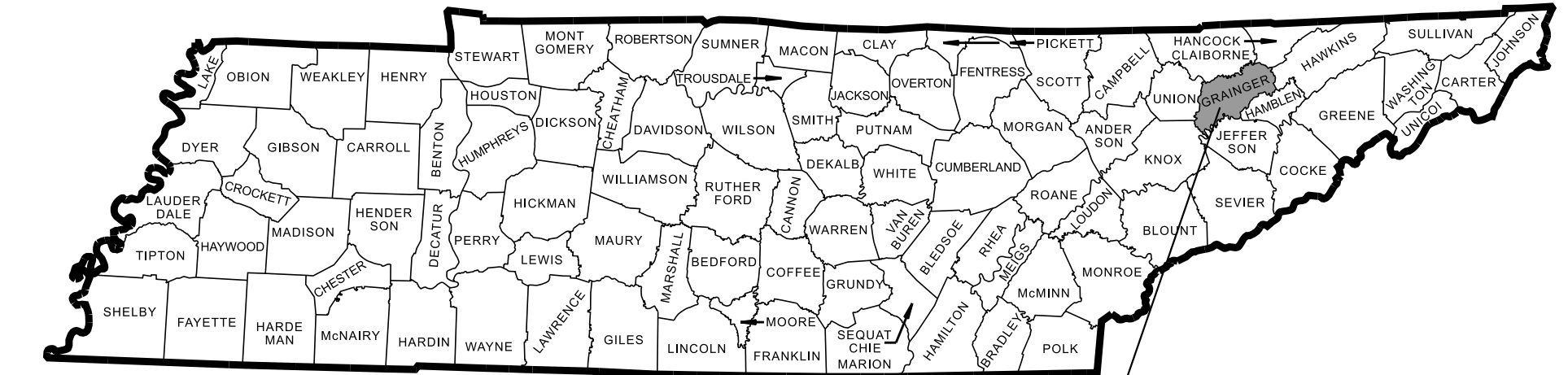
## GRAINGER COUNTY

SR-1 (US-11W):  
FROM NEAR HELTON ROAD  
TO NEAR SR-32 (US-25E) INTERCHANGE  
**RESURFACE & SAFETY**  
411TLD OVERLAY @ 85 LB/SY AND PAVEMENT MARKINGS

STATE HIGHWAY NO. 1 F.A.H.S. NO. US-11W

DOES THIS PROJECT QUALIFY FOR UTILITY CHAPTER 86	YES	NO X
WORK ZONE SIGNIFICANCE DETERMINATION		
SIGNIFICANT	YES	NO X

TENN.	YEAR	SHEET NO.
	2026	1
FED. AID PROJ. NO.	STP/HSIP-1(513)	
STATE PROJ. NO.	29S001-F8-004, 29S001-F3-004 29S001-M3-006	

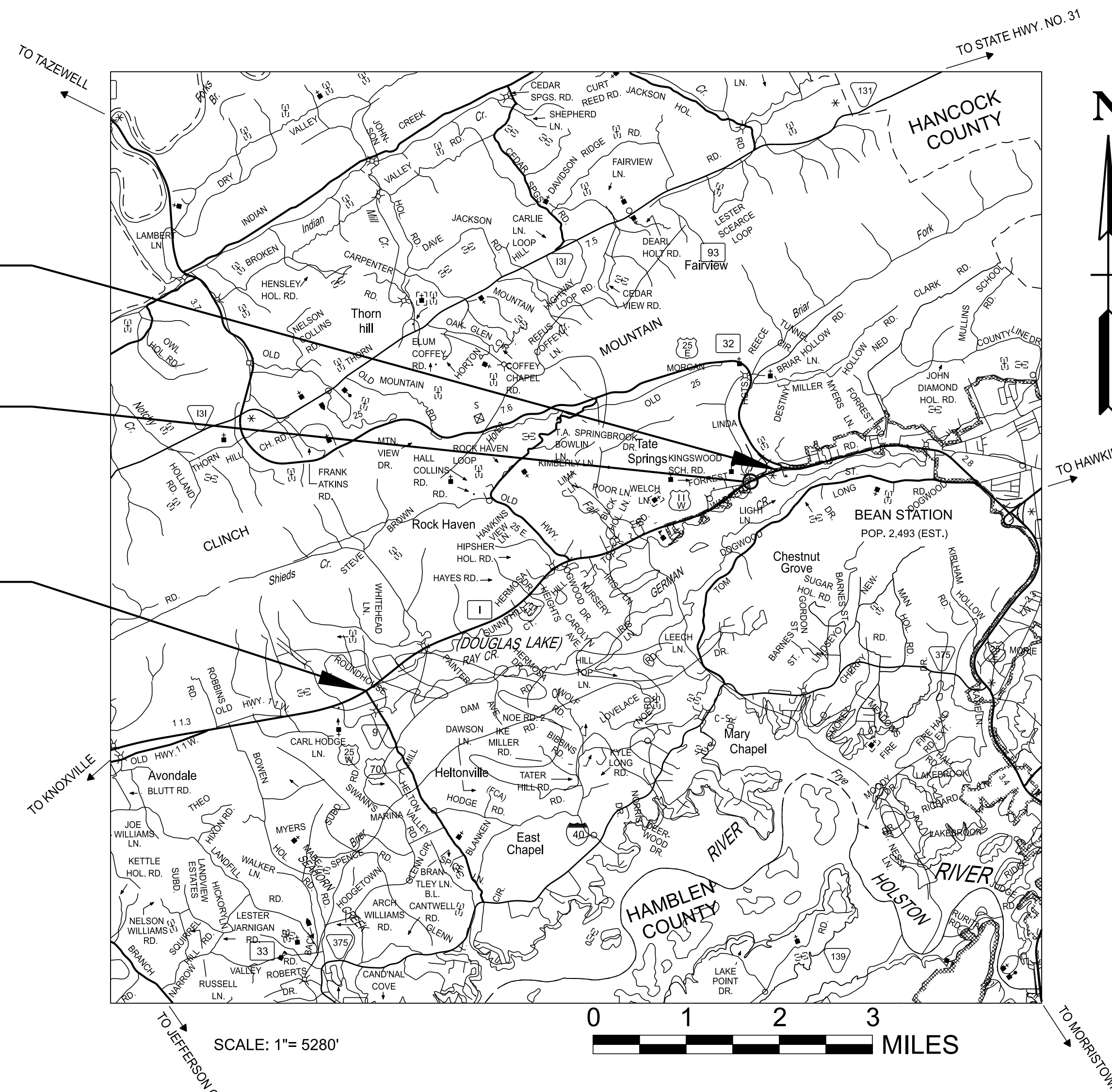


GRAINGER COUNTY SR-1 (US-11W)  
BRIDGE ID. # 29SR0010025, 29SR0010027, 29SR0010029, 29SR0010031,  
29SR0010032, 29SR0010037

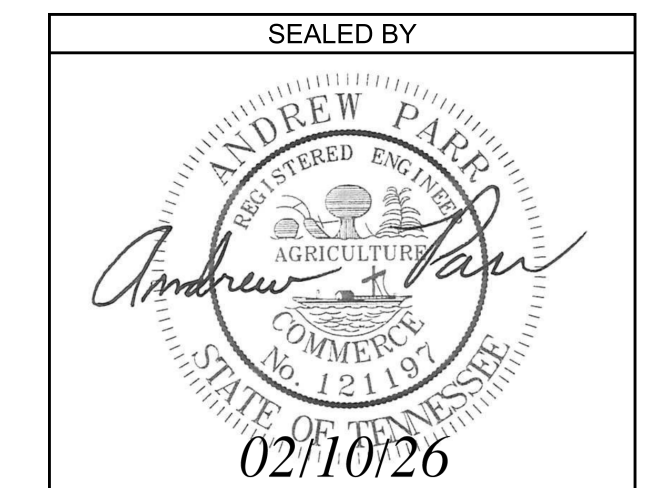
29S001-F8-004  
29S001-F3-004  
END PROJECT NO. STP/HSIP-1(513) RESURFACE & SAFETY  
L.M. 27.18

BRIDGE REPAIR PROJECT NO. 29S001-M3-006  
L.M. 26.83

29S001-F8-004  
29S001-F3-004  
BEGIN PROJECT NO. STP/HSIP-1(513) RESURFACE & SAFETY  
L.M. 22.02



NO EXCLUSIONS



APPROVED:   
SHANE HESTER, P.E. CHIEF ENGINEER

DATE:

APPROVED:   
WILL REID, P.E. COMMISSIONER

TRAFFIC COUNTER & WEATHER STATIONS  
STATION LOCATION L.M. 25.30

TRAFFIC DATA	
ADT (2026)	6373
POSTED SPEED	
L.M. 22.02 - L.M. 25.44	50 MPH
L.M. 25.44 - L.M. 26.93	45 MPH
L.M. 26.93 - L.M. 27.13	55 MPH

PROJECT LENGTH 5.16 MILES  
TOTAL LANE MILES RESURFACED 11.41 MILES

**SPECIAL NOTES**

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

THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION DATED JANUARY 1, 2021 AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

TDOT PROJECT MANAGER: ERIC WILSON, P.E.  
DESIGN FIRM : ARCADIS US, INC.  
DESIGNER : ADAM GRAVITT CHECKED BY JOHN REHM, P.E.  
P.E. NO. 98013-4203-04 (DESIGN)  
PIN NO. 134037.00

# ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEETS.....	ROADWAY-SIGN1
TITLE SHEET .....	1
ROADWAY INDEX, STANDARD ROADWAY DRAWINGS, AND STANDARD TRAFFIC DESIGN DRAWINGS .....	1A
ESTIMATED ROADWAY QUANTITIES.....	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE.....	2B
TYPICAL SECTIONS.....	2B1
GENERAL NOTES .....	2C
SPECIAL NOTES .....	2D
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RAMP DETAILS.....	4, 4A
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL .....	T1

NO UTILITY SHEETS ARE INCLUDED IN THIS SET OF PLANS.

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

# STANDARD ROADWAY DRAWINGS

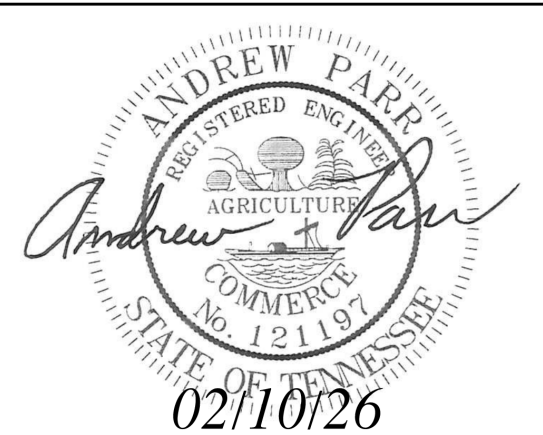
DWG.	REV.	DESCRIPTION
<b>STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS</b>		
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
RD-L-1	02-20-20	STANDARD LEGEND
RD-L-1A		STANDARD LEGEND
<b>ROADWAY DESIGN STANDARDS</b>		
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
RD11-SE-2		SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED ROADWAYS
RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS
RD11-SE-3		SUPERELEVATION TRANSITION DETAILS FOR DIVIDED ROADWAYS
RD11-SE-3A		SUPERELEVATION TRANSITION SECTIONS FOR DIVIDED ROADWAYS
RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS

# STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
<b>DESIGN - TRAFFIC CONTROL</b>		
T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-2	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
T-M-3	01-24-25	MARKING STANDARDS FOR TRAFFIC ISLANDS, PAVED SHOULDERS AND MEDIANS FOR CONVENTIONAL ROADS
T-M-4	01-24-25	STANDARD INTERSECTION PAVEMENT MARKINGS
T-M-5	01-24-25	MARKING DETAIL FOR FREEWAYS
T-M-7	01-24-25	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
T-M-15A	01-24-25	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR NON-ACCESS CONTROLLED RURAL ROUTES
T-M-16	01-24-25	RUMBLE STRIPE INSTALLATION LAYOUT
T-M-16A	01-24-25	RUMBLE STRIPE DETAILS FOR EDGE OF PAVEMENT AND CENTERLINE
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-11	03-26-25	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
T-WZ-FAB1	03-26-25	FLASHING YELLOW ARROW BOARD

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSIP-1(513)	1A

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX,  
STANDARD ROADWAY  
DRAWINGS AND  
STANDARD TRAFFIC  
DESIGN DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSP-1(513)	2

### ESTIMATED ROADWAY QUANTITIES

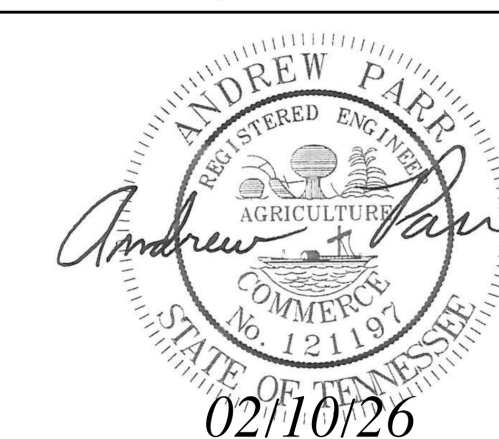
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	QUANTITY	TOTAL QUANTITY
			29S001-F8-004	29S001-F3-004	
(1)	208-01.05 BROOMING & DEGRASSING SHOULDERS	L.M.	12		12
(2)	307-01.15 ASC MIX (PG64-22) (BPMLC-HM) GRADING CS	TON	1079		1079
	403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	87		87
(3)	411-03.13 ACS MIX(PG70-22) THIN LIFT D ASPHALT	TON	5394		5394
	411-12.02 SCORING SHOULDERS (NON-CONTINUOUS) (16IN WIDTH)	L.M.	1		1
	411-12.03 SCORING FOR RUMBLE STRIPE (NON-CONTINUOUS) (8IN WIDTH)	L.M.	9		9
(4)	415-01.02 COLD PLANING BITUMINOUS PAVEMENT	S.Y.	1295		1295
(5)	502-08.01 RESEALING JOINTS (HOT POURED ELASTIC)	L.F.	4574		4574
	712-01 TRAFFIC CONTROL	LS	1		1
	712-04.01 FLEXIBLE DRUMS (CHANNELIZING)	EACH	52		52
	712-05.01 WARNING LIGHTS (TYPE A)	EACH	26		26
(6)	712-06 SIGNS (CONSTRUCTION)	S.F.	1399		1399
	712-08.03 ARROW BOARD (TYPE C)	EACH	2		2
	716-01.21 SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	411		411
	716-01.22 SNOWPLOWABLE RAISED PAVEMENT MARKERS (MONO-DIR)(1 COLOR)	EACH	78		78
	716-01.23 SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	33		33
(7)	716-01.30 REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	522		522
(8)	716-02.04 PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.		450	450
(8)	716-02.06 PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH		7	7
(8)	716-03.04 PLASTIC WORD PAVEMENT MARKING (SCHOOL)	EACH		2	2
(8)(9)	716-04.05 PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH		2	2
(8)(9)	716-04.14 PLASTIC PAVEMENT MARKING (LANE REDUCTION ARROW)	EACH		2	2
(10)	716-05.20 PAINTED PAVEMENT MARKING (6" LINE)	L.M.	9		9
	716-13.02 SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	L.M.	21		21
	716-13.05 SPRAY THERMO PVMT MRKNG (60 mil) (6IN DOTTED LINE)	L.F.	2600		2600
	717-01 MOBILIZATION	LS	1		1

### FOOTNOTES

- (1) INCLUDES THE COST OF REMOVING DEBRIS AND SWEEPING SHOULDERS PRIOR TO WORK. SEE SHEET NO. 2C, FINAL PAVEMENT MARKING NOTE (6), AND ALSO SHEET NO. 2D PAVEMENT NOTE (2) FOR MORE INFORMATION.
- (2) TO BE USED FOR SPOT LEVELING. SPOT LEVELING TO BE USED ONLY TO CORRECT DEFICIENCIES ON EXISTING PAVEMENT AT THE DISCRETION OF THE TDOT MANAGER, AND IS NOT TO BE COMBINED WITH OTHER COURSES.
- (3) INCLUDES 156 TONS FOR COUNTY ROADS, 102 TONS FOR TURN LANES, 45 TONS FOR CHANNELIZED AREAS, 8 TONS FOR CROSS-OVER AT L.M. 26.69, AND 210 TONS FOR SR-32 INTERCHANGE RAMP AND GORE AREAS. BUSINESS ENTRANCES, FIELD ENTRANCES, AND PRIVATE DRIVES ARE TO BE TIED-IN AS NEEDED OR AS DIRECTED BY THE TDOT MANAGER.
- (4) TO BE USED AT THE BEGINNING AND END OF THE PROJECT LIMITS, WHERE TYPICAL SECTION TRANSITIONS FROM ASPHALT TO CONCRETE (L.M. 26.88), AT BRIDGE ENDS, AND BRIDGE OVER SHIELDS CREEK (L.M. 22.81).
- (5) TO BE USED ON SR-32 WB INTERCHANGE RAMP.
- (6) SEE SHEET 2F FOR SIGN TABULATED QUANTITIES.
- (7) ANY DAMAGE INCURRED DURING THE REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE TDOT MANAGER.
- (8) 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.
- (9) TO BE USED ON SR-32 INTERCHANGE RAMP.
- (10) TO BE USED FOR TEMPORARY STRIPING DURING PLACEMENT OF SPOT LEVELING ONLY. NO PAYMENT WILL BE MADE FOR TEMPORARY STRIPING DURING PLACEMENT OF THE FINAL SURFACE (ON EITHER EXISTING SURFACE OR FINAL) COURSE DUE TO THE CONTRACTOR'S METHODS OF CONSTRUCTION.

NOTE: THERE ARE NO UTILITY ADJUSTMENTS ON THIS PROJECT.  
NOTE: THERE ARE NO GUARDRAIL ADJUSTMENTS ON THIS PROJECT.

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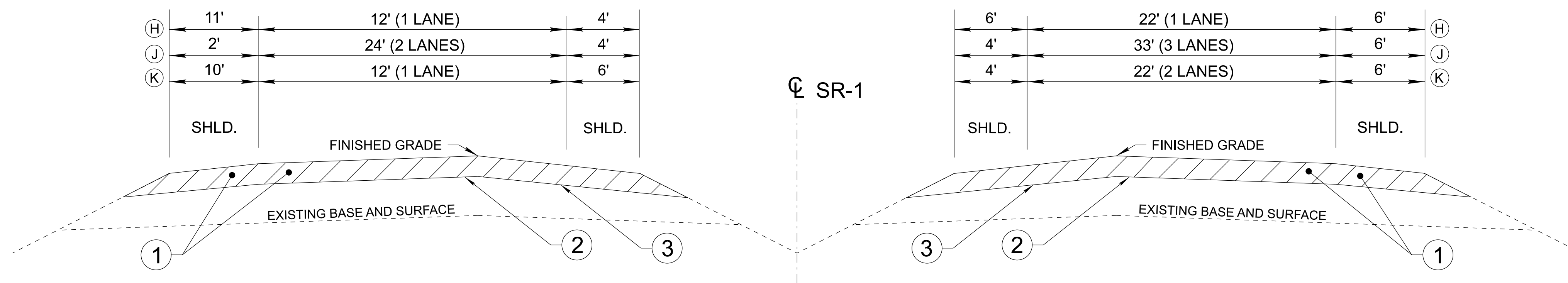


STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

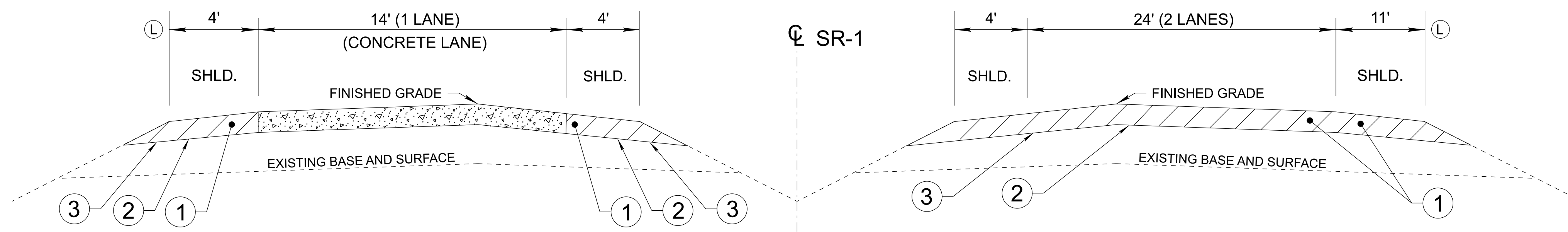
ESTIMATED  
ROADWAY  
QUANTITIES



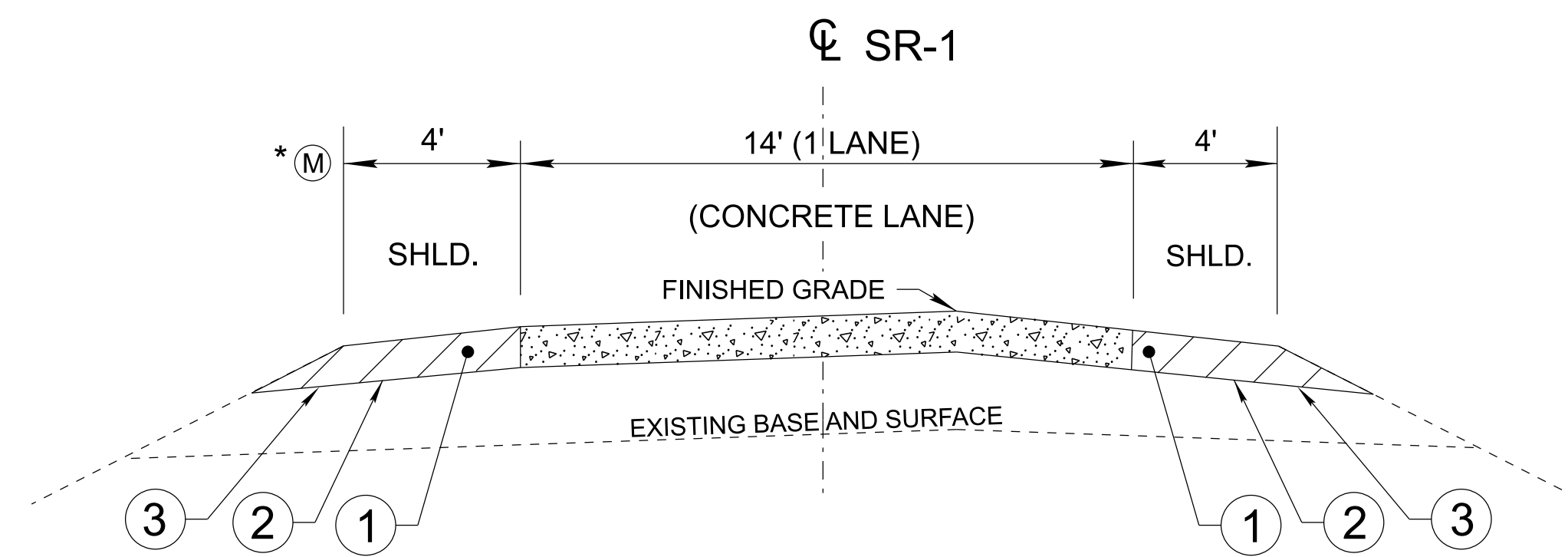
TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSP-1(513)	2B1



H FROM: L.M. 26.61 TO L.M. 26.66  
 J FROM: L.M. 26.66 TO L.M. 26.72  
 K FROM: L.M. 26.72 TO L.M. 26.88



L FROM: L.M. 26.88 TO L.M. 27.18



\* M FROM: L.M. 26.93 TO L.M. 27.18

\* TYPICAL FOR SR-32 SB/WB ENTRANCE RAMP

SEE SHEET NO. 2B FOR PAVEMENT SCHEDULE

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

TYPICAL  
SECTIONS

# GENERAL NOTES

## GRADING

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

## MISCELLANEOUS

- (2) THE CONTRACTOR SHALL BE REQUIRED TO REMOVE AND RESET MAILBOXES AND POSTS WHERE AND AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR OTHER CONSTRUCTION ITEMS.
- (3) NOTHING IN THE GENERAL NOTES OR SPECIAL PROVISIONS SHALL RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITIES TOWARD THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND THE RESIDENTS ALONG THE PROPOSED CONSTRUCTION AREA.

## PAVEMENT MARKINGS

### TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS

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

### FINAL PAVEMENT MARKING

- (6) THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING WORK:
  - a. BROOMING & DE-GRASSING SHOULDERS SHALL INCLUDE CLIPPING OF MATERIAL INTERFERING WITH PROPER DRAINAGE OF ROADWAY (INCLUDING PAVED AND GRAVEL SHOULDERS), AS DIRECTED BY THE ENGINEER.
  - b. ALL MATERIAL FROM CLIPPING, BROOMING AND DE-GRASSING SHOULDERS SHALL BE PICKED UP, REMOVED AND PROPERLY DISPOSED AS DIRECTED BY THE ENGINEER.
  - c. ALL COSTS ASSOCIATED WITH PICKING UP, REMOVAL AND PROPER DISPOSAL SHALL BE PAID FOR UNDER ITEM NO. 208-01.05.
  - d. REMOVE ALL GARBAGE AND CONSTRUCTION DEBRIS FROM PROJECT. THE COST FOR THIS WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (11) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" SPRAY THERMOPLASTIC (60 mil) INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK. SHORT UNMARKED SECTIONS SHALL NOT BE ALLOWED. PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-13.02, SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE), L.M. THE CONTRACTOR SHALL HAVE THE OPTION OF USING REFLECTORIZED PAINT INSTALLED TO PERMANENT STANDARDS AT THE END OF EACH DAY'S WORK AND THEN INSTALLING THE PERMANENT MARKINGS AFTER THE PAVING OPERATION IS COMPLETED. THE TEMPORARY MARKINGS FOR THE FINAL SURFACE WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR THE PERMANENT MARKINGS.

### SNOWPLOWABLE REFLECTIVE PAVEMENT MARKERS

- (19) REMOVE EXISTING SNOWPLOWABLE MARKERS PRIOR TO PAVING AND/OR COLD PLANING. REMOVE ALL ADHESIVES PRIOR TO PAVING. PATCH ANY HOLES OR DIVOTS RESULTING FROM THE REMOVAL OF A MARKER IN A MANNER WHICH ENSURES A UNIFORM PAVED SURFACE. PATCH WORK SHALL BE INCLUDED WITH COST OF OTHER ITEMS OF CONSTRUCTION.

## PAVEMENT

### PAVING

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

### RESURFACING

- (4) WHERE DIRECTED BY THE TDOT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SHAPE PUBLIC SIDE ROADS, BUSINESS ENTRANCES, AND PRIVATE DRIVES, AS WELL AS CLEANING OF EXISTING DRAINS BEFORE PLACING MATERIALS. ALL COSTS ARE TO BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (5) ALL PUBLIC SIDE ROADS SHALL BE PAVED ONE PAVER WIDTH THROUGH THE INTERSECTION AS A MINIMUM. A SATISFACTORY TRANSITION FROM THE NEW PAVEMENT TO THE EXISTING GRADE OF THE INTERSECTING PUBLIC ROAD OR BUSINESS ENTRANCE SHALL BE PROVIDED. SHOULD THE PAVEMENT OF THE INTERSECTING PUBLIC ROAD BE DISTRESSED, THE RESURFACING WIDTH MAY BE INCREASED TO THE NORMAL RIGHT OF WAY LINE.
- (6) PRIVATE DRIVEWAYS, FIELD ENTRANCES, AND BUSINESS ENTRANCES WILL BE RESURFACED A PAVER WIDTH (LANE WIDTH) AS A MINIMUM. A PAVEMENT TAPER TO TRANSITION THE NEW PAVEMENT SHALL BE REQUIRED, IT SHALL BE BASED ON AN ADDITIONAL ONE FOOT OF WIDTH PER ONE INCH DEPTH OF PAVEMENT. IF THE SHOULDER IS NARROW ENOUGH THAT THE SUM OF THE SHOULDER AND THE TRANSITION ARE LESS THAN A PAVER WIDTH, THE TRANSITION SHALL OCCUR WITHIN THE PAVER WIDTH. IF THE SUM OF THE SHOULDER AND THE TRANSITION IS GREATER THAN A PAVER WIDTH (LANE WIDTH), THE TRANSITION SHALL OCCUR OUTSIDE OF THE PAVER WIDTH.
- (9) IN ALL CASES, THE LENGTH OF THE PAVEMENT TRANSITION, THE THICKNESS AND WIDTH OF THE RESURFACING AND ANY ADDITIONAL PAVEMENT MATERIALS SHALL BE AS DIRECTED BY THE TDOT ENGINEER.

### SIGNING

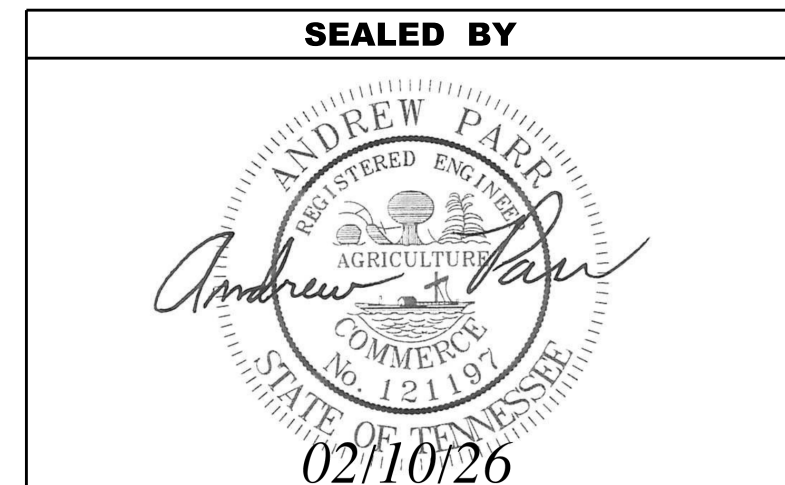
- (12) ALL SIGNS WHICH INTERFERE WITH CONSTRUCTION WILL BE RELOCATED OUTSIDE LIMITS OF CONSTRUCTION BY THE CONTRACTOR. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR WILL RESTORE THE SIGNS TO ORIGINAL LOCATION. THE CONTRACTOR SHALL CHECK WITH THE REGIONAL TRAFFIC ENGINEER PRIOR TO MOVING ANY PERMANENT SIGNS.

### CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) ADVANCED WARNING SIGNS SHALL NOT BE DISPLAYED MORE THAN FORTY-EIGHT (48) HOURS BEFORE PHYSICAL CONSTRUCTION BEGINS. SIGNS MAY BE ERECTED UP TO ONE WEEK BEFORE NEEDED, IF THE SIGN FACE IS FULLY COVERED.
- (2) IF THE CONTRACTOR MOVES OFF THE PROJECT, HE SHALL COVER OR REMOVE ALL UNNEEDED SIGNS AS DIRECTED BY THE ENGINEER. COSTS OF REMOVAL, COVERING, AND REINSTALLING SIGNS SHALL NOT BE MEASURED AND PAID FOR SEPARATELY, BUT ALL COSTS SHALL BE INCLUDED IN THE ORIGINAL UNIT PRICE BID FOR ITEM NO. 712-06, SIGNS (CONSTRUCTION) PER SQUARE FOOT.
- (3) A LONG TERM BUT SPORADIC USE WARNING SIGN, SUCH AS A FLAGGER SIGN, MAY REMAIN IN PLACE WHEN NOT REQUIRED PROVIDED THE SIGN FACE IS FULLY COVERED.
- (4) TRAFFIC CONTROL DEVICES SHALL NOT BE DISPLAYED OR ERECTED UNLESS RELATED CONDITIONS ARE PRESENT NECESSITATING WARNING.
- (5) USE OF BARRICADES, PORTABLE BARRIER RAILS, AND DRUMS SHALL BE LIMITED TO THE IMMEDIATE AREAS OF CONSTRUCTION WHERE A HAZARD IS PRESENT. THESE DEVICES SHALL NOT BE STORED ALONG THE ROADWAY WITHIN THIRTY (30) FEET OF THE EDGE OF THE TRAVELED WAY BEFORE OR AFTER USE UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL INCREASE TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. THESE DEVICES SHALL BE REMOVED FROM THE CONSTRUCTION WORK ZONE WHEN THE ENGINEER DETERMINES THEY ARE NO LONGER NEEDED. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.

- (6) THE CONTRACTOR SHALL NOT BE PERMITTED TO PARK ANY VEHICLES OR CONSTRUCTION EQUIPMENT DURING PERIODS OF INACTIVITY, WITHIN THIRTY (30) FEET OF THE EDGE OF PAVEMENT WHEN THE LANE IS OPEN TO TRAFFIC UNLESS PROTECTED BY GUARDRAIL, BRIDGE RAIL, AND/OR BARRIERS INSTALLED FOR OTHER PURPOSES FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. PRIVATELY OWNED VEHICLES SHALL NOT BE ALLOWED TO PARK WITHIN THIRTY (30) FEET OF AN OPEN TRAFFIC LANE AT ANY TIME UNLESS PROTECTED AS DESCRIBED ABOVE FOR ROADWAYS WITH CURRENT ADT'S LESS THAN 1500 AND DESIGN SPEED OF LESS THAN 60 MPH. THIS DISTANCE SHALL BE INCREASED TO FORTY-FIVE (45) FEET FOR ROADWAYS WITH CURRENT ADT'S OF 1500 OR GREATER AND DESIGN SPEED OF 60 MPH OR GREATER OR ON THE OUTSIDE OF A HORIZONTAL CURVE. WHERE THERE IS INSUFFICIENT RIGHT-OF-WAY TO PROVIDE FOR THIS REQUIRED SETBACK, THE CONTRACTOR SHALL DETERMINE THE ALTERNATE LOCATIONS AND REQUEST THE ENGINEER'S APPROVAL TO USE THEM.
- (9) THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING CONSTRUCTION SIGNS. THE COST OF THIS WORK SHALL BE INCLUDED IN ITEM NO. 712-06, SIGNS (CONSTRUCTION), S.F.

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RESURF	2026	STP/HSP-1(513)	2C



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

GENERAL  
NOTES

# SPECIAL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSP-1(513)	2D

## PAVEMENT

### RESURFACING

- (2) THE CONTRACTOR WILL BE REQUIRED TO PERFORM THE FOLLOWING WORK:
  - A. BROOMING & DEGRASSING SHALL INCLUDE NOTCHING THE GRAVEL SHOULDER PRIOR TO MILLING. THE NOTCH SHALL BE 1.5 IN DEEP AND 2 FT WIDE, OR AS DIRECTED BY THE TDOT PROJECT ENGINEER.
  - B. ALL MATERIAL FROM NOTCHING AND BROOMING SHOULDERS SHALL BE PICKED UP, REMOVED AND PROPERLY DISPOSED AS DIRECTED BY THE TDOT PROJECT ENGINEER.
  - C. ALL COSTS ASSOCIATED WITH NOTCHING, PICKING UP, REMOVAL AND PROPER DISPOSAL SHALL BE PAID FOR UNDER ITEM NO. 208-01.05.
- (3) SURFACE IS TO BE CROWNED AS DIRECTED BY THE ENGINEER.
- (5) THE INSIDE SHOULDER WILL BE PAVED CONCURRENTLY WITH THE INSIDE TRAFFIC LANE.
- (6) THE OUTSIDE SHOULDER WILL BE PAVED CONCURRENTLY WITH THE TRAFFIC LANE.
- (8) THE BITUMINOUS MATERIAL DESIGNATED TO RESTORE THE COLD PLANING AREA WILL BE PLACED WITHIN 96 HOURS OF THE COMMENCEMENT OF COLD PLANING OPERATIONS. COLD PLANING OPERATIONS WILL BE LIMITED TO AN AREA EQUAL TO THAT WHICH CAN BE COVERED WITH BITUMINOUS MATERIAL WITHIN THE TIME LIMITS SPECIFIED, EVEN IF COLD PLANING OPERATIONS MUST BE SUSPENDED UNTIL PAVING CATCHES UP.
- (10) FEATHER SURFACE MIX TO ENDS OF BRIDGES THAT ARE NOT TO BE PAVED.
- (11) TEMPORARY RAMP CLOSURES FOR MAINLINE RESURFACING SHALL BE AS FOLLOW:
  - A. RAMP CLOSURES SHOULD BE LIMITED TO NO MORE THAN 3 HOURS.
  - B. ALL RAMP CLOSURE REQUESTS SHALL BE MADE AT LEAST 7 WORKING DAYS PRIOR TO THE ANTICIPATED DATE OF CLOSURE.
  - C. RAMPS IN THE OPPOSITE DIRECTION OF THE CLOSURES CANNOT BE CLOSED AT SAME TIME AND NO SUBSEQUENT EXIT RAMPS SHALL BE CLOSED UNLESS IT IS LESS THAN 1 MILE FROM RAMP TO RAMP.
  - D. RAMPS WITH HOSPITALS OR OTHER EMERGENCY/FIRE/POLICE FACILITIES SHALL BE PASSABLE FOR EMERGENCY VEHICLES WHEN CLOSED TO REGULAR VEHICLE TRAFFIC.

### STORM DRAIN STRUCTURES

- (1) TAPER AROUND ALL CATCH BASINS AS DIRECTED BY THE ENGINEER.

### PAVEMENT MARKING

- (1) UNDER THE DIRECTION OF THE ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO APPLY PAINTED MARKINGS IN THE PAVEMENT AREAS NOT SPECIFICALLY DETAILED IN THE PLANS. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM NO. 716-05.20.
- (2) UNDER THE DIRECTION OF THE ENGINEER, THE CONTRACTOR MAY BE REQUIRED TO APPLY PLASTIC MARKINGS IN THE PAVEMENT AREAS NOT SPECIFICALLY DETAILED IN THE PLANS. PAYMENT WILL BE MADE AT THE UNIT PRICE BID FOR ITEM NO. 716-13.02.

### SIGNS

- (1) IF THE CONTRACTOR ELECTS TO UTILIZE SIGNPOST ANCHORS (STUBS) FOR SIGN ERECTION, THESE SHALL BE REMOVED WHEN THE SIGNS ARE REMOVED TO AVOID FUTURE DAMAGE TO MOWERS OR OTHER MACHINERY.

### MISCELLANEOUS

- (4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY SIGNS AND MAILBOXES DURING THE OPERATION. ANY SIGNS OR MAILBOXES DAMAGED AS A RESULT OF THE OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

## CONSTRUCTION WORK ZONE & TRAFFIC CONTROL

- (1) THE CONTRACTOR SHALL KEEP TWO TRAFFIC LANES, ONE IN EACH DIRECTION, OPEN TO TRAFFIC DURING NON-WORK HOURS OR NON-WORK DAYS.

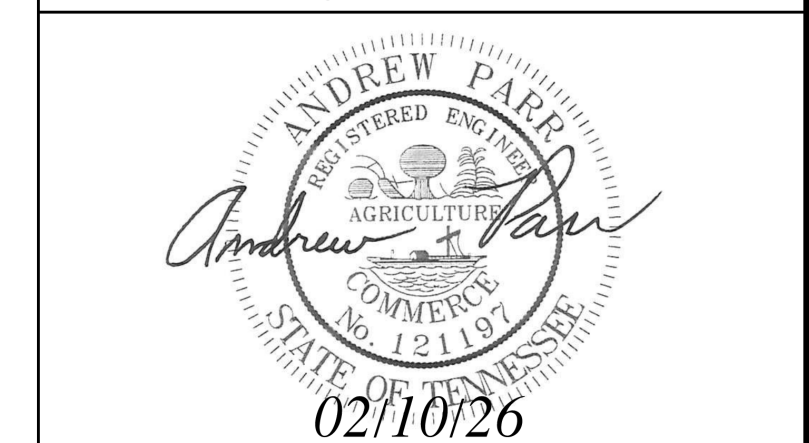
### JOINT SEALANTS

- (1) THE CONTACT SURFACE OF TRANSVERSE JOINTS AND LONGITUDINAL JOINTS IN THE SURFACE LIFT SHALL BE SEALED BY APPLYING JOINT SEALANT PRIOR TO PLACEMENT OF ADDITIONAL ASPHALT AGAINST THE PREVIOUSLY PLACED MATERIAL. MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED IF THE MATERIAL NEEDS TO BE RE-HEATED, AND WHEN PLACING THE THIN, UNIFORM COAT.
- (3) PRIOR TO APPLICATION OF THE SEALANT, THE FACE OF THE JOINT SHALL BE THOROUGHLY DRY AND FREE FROM DUST OR ANY OTHER MATERIAL THAT WOULD PREVENT PROPER SEALING. ALL JOINTS SHALL BE SWEEPED OR BLOWN FREE OF LOOSE MATERIAL, DIRT, VEGETATION, AND OTHER DEBRIS BY MEANS OF COMPRESSED AIR OR A POWER SWEEPER.
- (4) TRUCK AND VEHICLE TRAFFIC SHALL NOT DRIVE ACROSS A SEALED JOINT UNTIL IT HAS DRIED SUFFICIENT TO PREVENT DAMAGE FROM TRACKING.

### LANE CLOSURE NOTES

- (2) ANY WORK REQUIRING LANE CLOSURES INCLUDING PAVEMENT MARKING OPERATIONS SHALL BE AT NIGHT BETWEEN THE HOURS OF 7:00 P.M. AND 6:00 A.M. SUNDAY THROUGH THURSDAY AND 10:00 PM AND 8 AM FRIDAY THROUGH SATURDAY UNLESS OTHERWISE DIRECTED BY THE TDOT MANAGER.
- (5) NO LANE CLOSURES WILL BE ALLOWED ON SATURDAYS WHEN THE UNIVERSITY OF TENNESSEE PLAYS FOOTBALL IN KNOXVILLE UNLESS OTHERWISE APPROVED BY THE TDOT MANAGER AND THE REGIONAL TRAFFIC INCIDENT MANAGEMENT COORDINATOR.

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STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SPECIAL  
NOTES

# ENVIRONMENTAL NOTES

## ENVIRONMENTAL GENERAL NOTES

### NATURAL RESOURCES

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

- (11) 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).
- (12) 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.

### PERMITS, PLANS & RECORDS

- (15) 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.

### ENVIRONMENTAL

- (20) 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.

### ENVIRONMENTAL SPECIAL NOTES

#### ENVIRONMENTAL

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

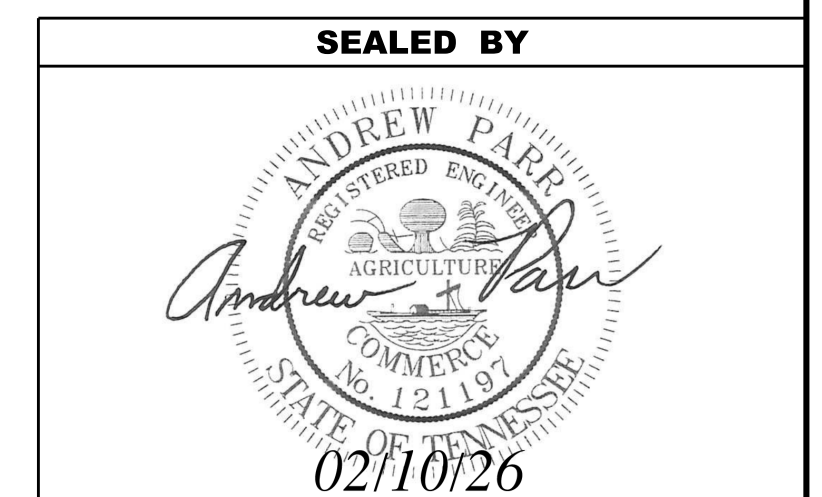
#### ECOLOGY

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

#### SCOPE OF WORK

- (6) 411TLD OVERLAY @ 85 LB/SY AND PAVEMENT MARKINGS.

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSIP-1(513)	2E



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

ENVIRONMENTAL  
NOTES

# EROSION PREVENTION AND SEDIMENT CONTROL NOTES

## EROSION PREVENTION AND SEDIMENT CONTROL GENERAL NOTES

### DISTURBED AREA

- (1) IF DISTURBED ACREAGE IS EQUAL TO ONE ACRE OR MORE, PLEASE CONTACT TDOT ENVIRONMENTAL DIVISION, PERMITS SECTION AS SOON AS POSSIBLE BECAUSE AN NPDES PERMIT WILL BE REQUIRED.

### SEDIMENT CONTROL

- (6) EPSC MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES.
- (8) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFFSITE 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 GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFFSITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFFSITE 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 NEGOTIATED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

### GOOD HOUSEKEEPING MEASURES & WASTE DISPOSAL

- (29) 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.
- (30) 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.
- (31) 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.
- (32) 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.
- (33) 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.
- (34) 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.
- (35) 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.

- (36) 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.
- (37) 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.
- (38) 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.
- (39) 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.
- (40) 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.

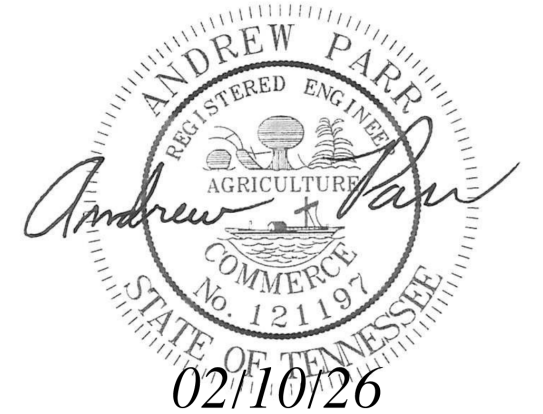
### SPILL PREVENTION, MANAGEMENT & NOTIFICATION

- (44) ALL ONSITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE AND SPILLS.
- (45) FOR ALL HAZARDOUS MATERIALS STORED ONSITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED. SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATIONS OF THE INFORMATION AND CLEANUP SUPPLIES.
- (46) APPROPRIATE CLEANUP MATERIALS AND EQUIPMENT SHALL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ONSITE 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.
- (47) ALL SPILLS SHALL BE CLEANED IMMEDIATELY AFTER DISCOVERY AND THE MATERIALS DISPOSED OF PROPERLY. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- (48) THE CONTRACTOR'S RESPONSIBLE PARTY SHALL 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.
- (49) IF AN OIL SHEEN IS OBSERVED ON SURFACE WATER (E.G. SETTLING PONDS, DETENTION PONDS, SWALES), ACTION SHALL BE TAKEN IMMEDIATELY TO REMOVE THE MATERIAL CAUSING THE SHEEN. THE CONTRACTOR SHALL 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.
- (50) FERTILIZERS SHALL BE APPLIED ONLY IN THE AMOUNTS SPECIFIED. ONCE APPLIED, FERTILIZERS SHALL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORMWATER.
- (51) IF A SPILL OCCURS THE CONTRACTOR'S RESPONSIBLE PARTY SHALL BE RESPONSIBLE FOR COMPLETING THE SPILL REPORTING FORM AND FOR REPORTING THE SPILL TO THE TDOT PROJECT RESPONSIBLE PARTY. 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.

- (52) WHERE A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTABLE QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24 HOUR PERIOD, SEE THE LATEST TENNESSEE GENERAL PERMIT NO. TNR100000 STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES SECTION 5.1 FOR REPORTING REQUIREMENTS.
- (53) CONTRACTOR'S BULK FUEL AND PETROLEUM PRODUCTS STORED ONSITE OR ADJACENT TO THE R.O.W. IN ABOVE GROUND STORAGE CONTAINERS WITH A COMBINED CAPACITY OF 1320 GALLONS OR MORE SHALL HAVE SECONDARY CONTAINMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A SPILL PREVENTION CONTROL AND COUNTERMEASURE (SPCC) PLAN FOR THE BULK STORAGE AND BE SOLELY RESPONSIBLE FOR OBTAINING ANY NECESSARY LOCAL, STATE, AND FEDERAL PERMITS. THE SPCC PLAN AND/OR PERMITS SHALL BE KEPT ONSITE AND A COPY PROVIDED TO THE TDOT PROJECT RESPONSIBLE PARTY PRIOR TO STORING 1320 GALLONS ON SITE.

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSP-1(513)	2E1

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DEPARTMENT OF TRANSPORTATION

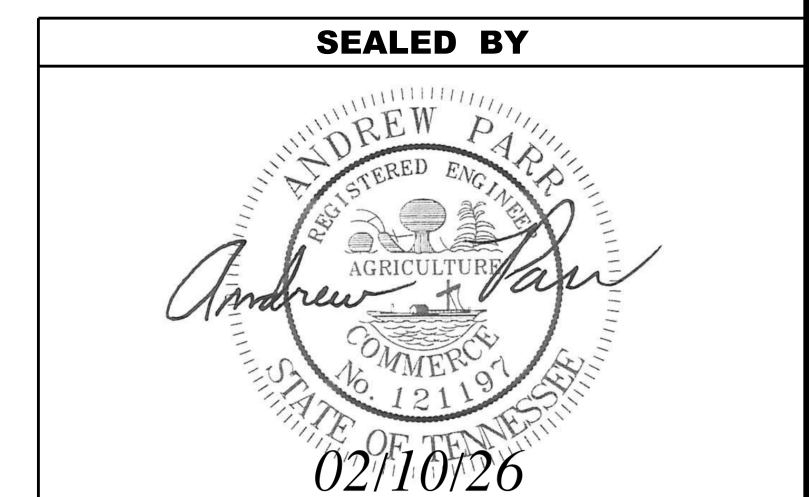
EROSION PREVENTION  
AND SEDIMENT  
CONTROL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSIP-1(513)	2F

TRAFFIC CONTROL SIGN TABULATION (RESURFACING)						
M.U.T.C.D. SIGN NO.	LEGEND \ DESCRIPTION	SIZE IN INCHES		S.F.	TOTAL NUMBER REQUIRED	ITEM NO. 712-06 S.F.
		L	x W			
G20-1	ROAD WORK NEXT 6 MILES	64"	X 24"	11	4	43
G20-2	END ROAD WORK	48"	X 24"	8	32	256
W4-2	LANE ENDS	48"	X 48"	16	2	32
W8-1	BUMP	48"	X 48"	16	2	32
W8-11	UNEVEN LANES	48"	X 48"	16	26	416
W13-1P	ADVISORY SPEED	30"	X 30"	6	2	13
W20-1	ROAD WORK AHEAD	48"	X 48"	16	32	512
W20-4	ONE LANE ROAD	48"	x 48"	16	2	32
W20-5	LANE CLOSED	48"	X 48"	16	2	32
W20-7	FLAGGER	48"	x 48"	16	2	32
<b>TOTAL</b>					<b>1399</b>	

NOTE: THE CONSTRUCTION SIGNING IS TO BE A MINIMUM. OTHER SIGNS MAY BE REQUIRED AS DIRECTED BY THE TDOT MANAGER.

BRIDGE DECK RECOMMENDATIONS (RESURFACING)				
BRIDGE NUMBER	LOCATION LOG MILE	CROSSES OVER/UNDER	BRIDGE LENGTH	BRIDGE DECK RECOMMENDATIONS
29SR0010025	22.81	SHIELDS CREEK	315'	COLD PLANE 1.25" OF THE EXISTING ASPHALT AND REPLACE WITH 1.25" OF NEW ASPHALT.
29SR0010027	24.47	GAP BRANCH	258'	LEAVE AS IS.
29SR0010029	25.26	BUCK HOLLOW BRANCH	172'	LEAVE AS IS.
29SR0010031	26.83 R	BRIAR FORK CREEK	241'	PROVIDE DECK REPAIR ITEM - SEAL WITH TYPE 1 THIN EPOXY OVERLAY.
29SR0010032	26.83 L	BRIAR FORK CREEK	241'	PROVIDE DECK REPAIR ITEM - SEAL WITH TYPE 1 THIN EPOXY OVERLAY.
29SR0010037	27.10	SR-32	333'	LEAVE AS IS.



**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

TABULATED  
QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSIP-1(513)	3

**UTILITY**

- (2) UNLESS OTHERWISE NOTED, ALL UTILITY ADJUSTMENTS WILL BE PERFORMED BY THE UTILITY OR ITS REPRESENTATIVE. THE CONTRACTOR AND UTILITY OWNERS WILL BE REQUIRED TO COOPERATE WITH EACH OTHER IN ORDER TO EXPEDITE THE WORK REQUIRED BY THIS CONTRACT. ON CONTRACTS WHERE CONSTRUCTION STAKES, LINES, AND GRADES ARE CONTRACT ITEMS, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE RIGHT-OF-WAY OR SLOPE STAKES, DITCH OR STREAM BED GRADES, OR OTHER ESSENTIAL SURVEY STAKING TO PREVENT CONFLICTS WITH THE HIGHWAY CONSTRUCTION. FREQUENTLY, THIS WILL BE REQUIRED AS THE FIRST ITEM OF WORK AND AT ANY LOCATION ON THE PROJECT DIRECTED BY THE ENGINEER.
- (3) THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FURNISHING SPECIAL EQUIPMENT WILL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
- (4) PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS. ADVANCE CLEAR CUTTING MAY BE REQUIRED BY THE ENGINEER AT ANY LOCATION WHERE CLEARING IS CALLED FOR IN THE SPECIFICATIONS AND CLEAR CUTTING IS NECESSARY FOR A UTILITY RELOCATION. ANY ADDITIONAL COST WILL BE INCLUDED IN THE UNIT PRICE BID FOR THE CLEARING ITEM SPECIFIED IN THE PLANS.
- (5) THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY IN ACCORDANCE WITH TCA 65-31-106. NOTIFICATION BY CALLING THE TENNESSEE ONE CALL SYSTEM, INC AT 1-800-351-1111 WILL BE REQUIRED.

**UTILITY OWNERS**

**CABLE:**  
**XFINITY**  
 1725 WEARS VALLEY RD.  
 SEVIERVILLE, TN 37862  
 CONTACT: JASON KELLY  
 OFFICE PHONE: (865) 862-5061  
 CELL PHONE: (865) 437-0295  
 Email: jason\_kelly@comcast.com

**ELECTRIC:**  
**KNOXVILLE UTILITIES BOARD**  
 P.O. BOX 59017 4505 MIDDLEBROOK PIKE  
 KNOXVILLE, TN 37921  
 CONTACT: Daniel McElyea  
 PHONE: (865) 558-2699  
 Email: Daniel.McElyea@kub.org

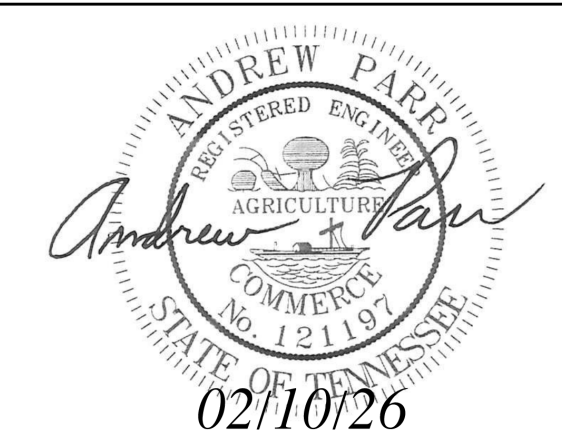
**GAS:**  
**ENBRIDGE**  
 1575 DOWNTOWN WEST BLVD  
 KNOXVILLE, TN 37919  
 CONTACT: CUSTOMER SERVICE  
 PHONE: (865) 693-3501  
 Email: crossingsus@enbridge.com

**SEWER:**  
**GRAINGER CO. MAYOR**  
 P.O. BOX 126  
 RUTLEDGE, TN 37861  
 CONTACT: MIKE BYRD  
 PHONE: (865) 828-3513  
 Email: mike.byrd@graingercountytn.gov

**TELEPHONE:**  
**AT&T**  
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 KNOXVILLE, TN 37922  
 CONTACT: JAY FRAZIER  
 PHONE: (865) 387-2685  
 Email: jf092@att.com

**WATER:**  
**BEAN STATION UTILITY DISTRICT**  
 P.O. BOX 520  
 BEAN STATION, TN 37708  
 CONTACT: Tammy Wilson  
 PHONE: (865) 993-2326  
 Email: twilson@beanstationutility.org

**SEALED BY**



**STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION**

**UTILITY NOTES  
 AND  
 UTILITY OWNERS**

**NOTE: SR-1 / SR-32 INTERCHANGE HAS BEEN INCLUDED IN THE ROADWAY QUANTITIES TABULATION. SEE SHEET 2 FOR MORE INFORMATION.**

**END ADDITIONAL RESURFACING LIMITS SR-1 (US-11E) / SR-32 (US-25E)**

**ASPHALT SHOULDERS TO BE PAVED WITH PLANS MIX / TREATMENT TYPE**

**SEE SHEET 2B1 TYPICAL SECTION M FOR MORE INFORMATION**

**END LIMIT OF RESURFACING**

**BEGIN ADDITIONAL RESURFACING LIMITS SR-1 (US-11E) / SR-32 (US-25E)**

**SR-1 (US-11W)**

**SR-1 (US-11W)**

**US-11W SB ENTRANCE**

**SR-32 (US-25E)**

**SEE SHEET 2B1 TYPICAL SECTION L FOR MORE INFORMATION**



TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSIP-1(513)	4

**MATCHLINE SEE SHT. 4A**

**SEALED BY**

**STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION**

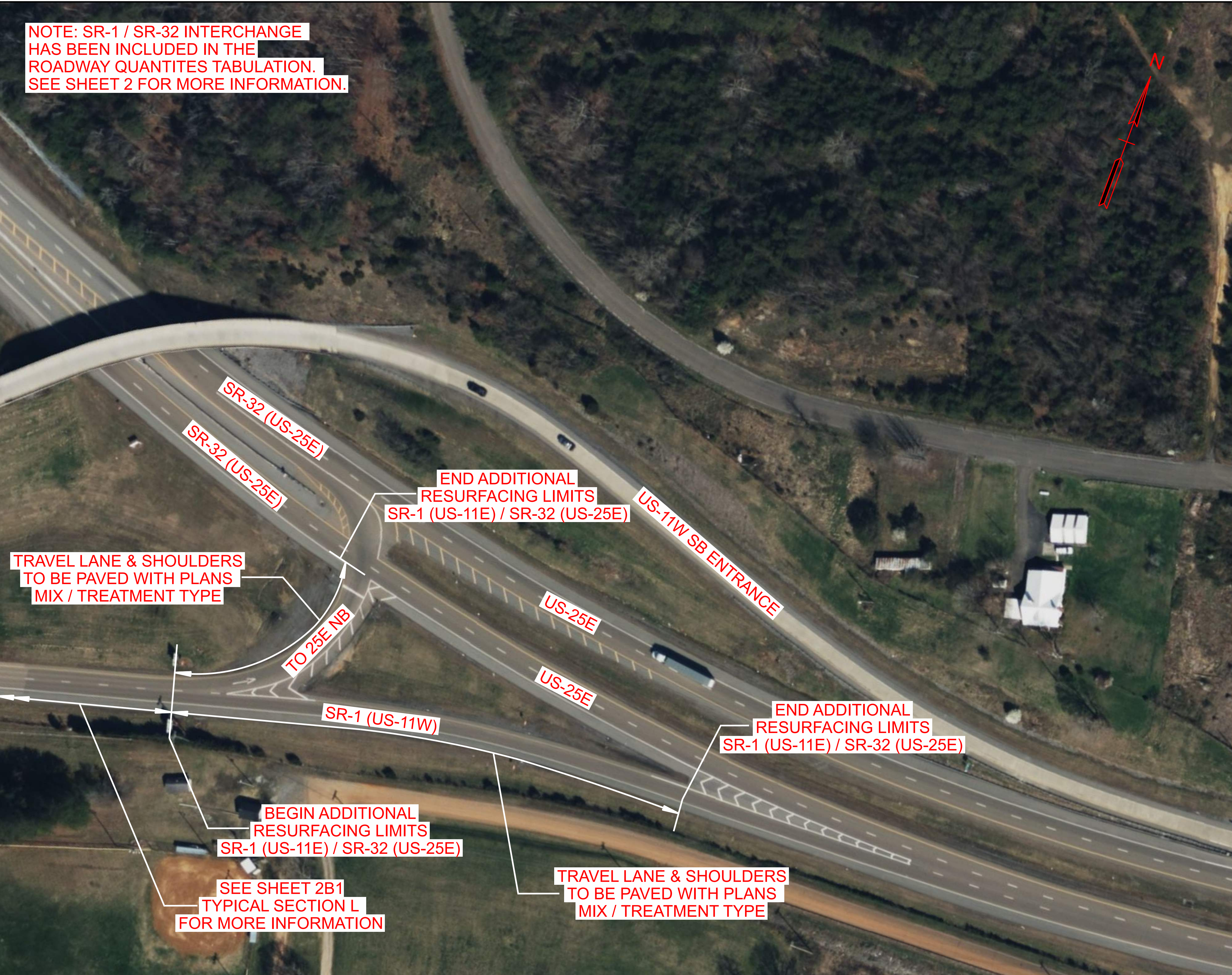
**RAMP DETAILS**

SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSP-1(513)	4A

**NOTE: SR-1 / SR-32 INTERCHANGE HAS BEEN INCLUDED IN THE ROADWAY QUANTITIES TABULATION. SEE SHEET 2 FOR MORE INFORMATION.**

**MATCHLINE SEE SHT. 4**



SEALED BY



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

RAMP  
DETAILS

SCALE: 1" = 50'

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF	2026	STP/HSP-1(513)	T1

# PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

## A. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

1. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 0.75 INCH AND NOT EXCEEDING 1.75 INCHES:
  - a. WARNING SIGNS, UNEVEN LANES (W8-11) AND/OR SHOULDER DROP-OFF WITH PLAQUE (W8-17 AND W8-17P), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
  - b. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
  - c. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.
  - d. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN SEVEN WORKDAYS AFTER THE CONDITION IS CREATED.
2. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 1.75 INCHES AND NOT EXCEEDING 6 INCHES, TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.
  - a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
    - (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
    - (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.
  - b. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 2 INCHES OR LESS BY THE END OF EACH WORKDAY, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH a, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
  - c. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THROUGH TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 3 INCHES, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE REGIONAL TRAFFIC ENGINEER. SEE PARAGRAPH a REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 2 MILES IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

3. DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 6 INCHES BUT NOT EXCEEDING 18 INCHES, THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:
  - a. THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
    - (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
    - (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 6 INCHES OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

- b. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.
- c. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH a AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORK DAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO 6 INCHES OR LESS.
- d. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

FOR PRECEDING CONDITIONS a, b, AND c, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN WITH PLAQUE (W8-17 AND W8-17P). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

4. FOR DIFFERENCES IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 18 INCHES.

SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS SITUATION THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1 MILE IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

## B. IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC.:

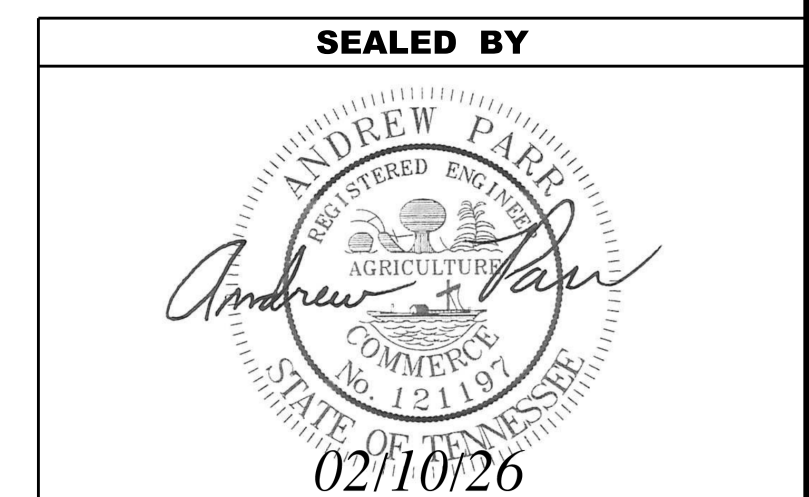
1. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 0.75 INCH AND NOT EXCEEDING 2 INCHES.
  - a. WARNING SIGNS (UNEVEN LANES AND/OR SHOULDER DROP-OFF) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 2,000 FEET WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.
2. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 2 INCHES AND NOT EXCEEDING 6 INCHES:
  - a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
    - (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
    - (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.
3. IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 6 INCHES:
  - a. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
    - (1) WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
    - (2) WHERE POSTED SPEEDS ARE LESS THAN 50 MPH THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.
  - b. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

## C. IF THE DIFFERENCE IN ELEVATION IS FARTHER THAN 8 FEET FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 30 FEET FROM THE NEAREST TRAFFIC LANE:

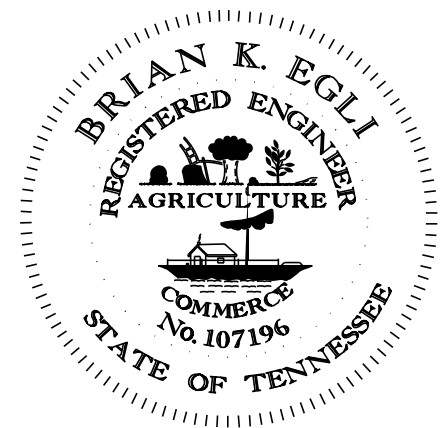
- SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:
1. WHERE POSTED SPEEDS ARE 50 MPH OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 100 FEET.
  2. WHERE POSTED SPEEDS ARE LESS THAN 50 MPH, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN FEET SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES PER HOUR OR 50 FEET, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE  
DROP-OFF NOTES  
FOR  
TRAFFIC CONTROL



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

**BRIAN KENNETH EGLI**  
2026.01.22 08:15:24 -06'00'

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

TENNESSEE DEPARTMENT OF TRANSPORTATION  
505 DEADERICK STREET, SUITE 1200  
NASHVILLE, TN 37243  
BRIAN K. EGLI, P.E. NO. 107196

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE OF TENN. CODE ANN. §62-2-306.

SHEET NAME	SHEET NO.
SIGNATURE SHEET	BRIDGE-SIGN 1
INDEX OF DRAWINGS	B-1
BRIDGE TABULATION, ESTIMATED QUANTITIES &	
REPAIRS NOTES AND DETAILS	B-2
PLAN VIEW REPAIRS LOCATIONS	B-3
PHASE CONSTRUCTION	B-4
TYPE 1 THIN EPOXY OVERLAY NOTES	B-5

YEAR	PROJECT NO.	SHEET NO.
2026	29S001-M3-006	BRIDGE-SIGN 1

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SIGNATURE  
SHEET

\$\$\$\$SYTIME\$\$\$\$  
\$\$\$\$DGNSEPC\$\$\$\$  
\$\$\$\$\$\$\$\$

PROJECT NO.	YEAR	SHEET NO.	
29S001-M3-006	2026	B-1	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
-	-		
-	-		
-	-		
-	-		
-	-		

INDEX OF DRAWINGS

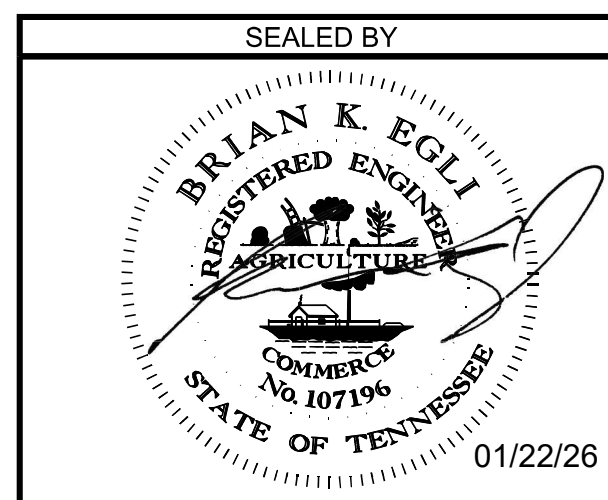
DWG. NO.

LAST  
REV. DATE

SIGNATURE SHEET	BRIDGE-SIGN 1	
INDEX OF DRAWINGS	B-1	
BRIDGE TABULATION, ESTIMATED QUANTITIES &		
REPAIRS NOTES AND DETAILS	B-2	
PLAN VIEW REPAIRS LOCATIONS	B-3	
PHASE CONSTRUCTION	B-4	
TYPE 1 THIN EPOXY OVERLAY NOTES	B-5	

INDEX OF REFERENCE DRAWINGS      DWG. NO.

LAYOUT OF BRIDGE	M-287-33
SUPERSTRUCTURE	M-287-36
REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS	STD-1-5



STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
INDEX OF DRAWINGS  
29-SR1-26.83 RT. & LT. OVER  
BRIAR FORK CREEK  
FED. BRIDGES ID NOS.  
29SR0010031 & 29SR0010032  
GRAINGER COUNTY  
2026

PIN NO.: 134037.00  
DESIGN BY: SILESHI ERGICHO      DATE: 11/25  
DRAWN BY: KEVIN MARTINKO      DATE: 11/25  
SUPERVISED BY:      DATE: 11/25  
CHECKED BY:      DATE: 11/25

TABULATION OF BRIDGE RELATED WORK AND ESTIMATED QUANTITIES

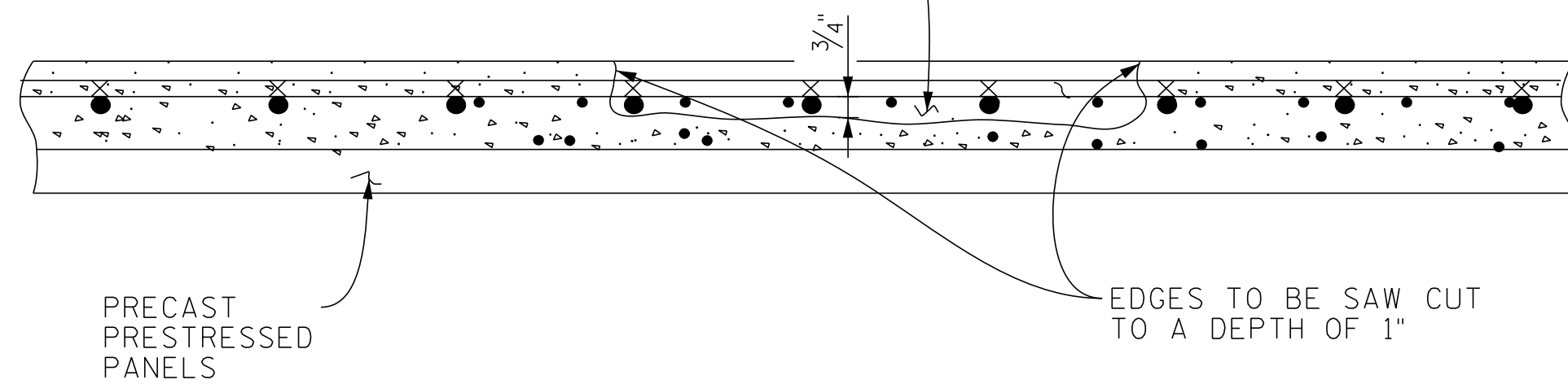
LOCATION OF BRIDGE AND BRIDGE NUMBER	REFERENCE DRAWINGS TO BE PRINTED WITH CONTRACT DRAWINGS	TYPE OF WORK	604-10.50 BRIDGE DECK REPAIRS (PARTIAL DEPTH OF SLAB) S.Y.	604-10.53 CONCRETE REPAIR (PARTIAL DEPTH OF APPROACH PAVEMENT) S.Y.	617-04.01 TYPE 1 THIN EPOXY OVERLAY (EPOXY-URETHANE) S.Y.
29-SR1-26.83 RT. OVER BRAIR FORK CREEK (29SR0010031)	M-287-33 M-287-36 STD-1-5	BRIDGE DECK REPAIRS TYPE 1 THIN EPOXY OVERLAY	5		1193
29-SR1-26.83 LT. OVER BRAIR FORK CREEK (29SR0010032)	M-287-33 M-287-36 STD-1-5	BRIDGE DECK REPAIRS CONCRETE REPAIR TYPE 1 THIN EPOXY OVERLAY	5	5	1301
TOTAL			10	5	2494

PROJECT NO.	YEAR	SHEET NO.	
29S001-M3-006	2026	B-2	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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BRIDGE DECK REPAIR MATERIAL

ALL REPAIRS SHALL USE AN EXTENDED NON-MAGNESIUM PHOSPHET QUICK SET PATCHING MATERIAL FROM THE TDOT QUALIFIED PRODUCTS LIST: 13.004-RAPID SET CEMENTITIOUS PATCHING MATERIALS. PATCHING MATERIAL SHALL BE APPLIED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. MIX MUST MEET 3000 P.S.I. BEFORE OPENING TO TRAFFIC.

RAPID SET CEMENTITIOUS PATCHING MATERIALS (FOR PATCHING MATERIAL REFER TDOT QUALIFIED PRODUCT LIST NO. 13.004)



SKETCH SHOWING DECK REPAIR

NOTE: PARTIAL DEPTH DECK REPAIR ONLY REMOVE CONCRETE IN ALL DELAMINATED AREAS TO A DEPTH OF 3/4" BELOW THE TOP BAR OF THE TOP MAT OF REINFORCING STEEL.

NOTE: PARTIAL DEPTH DECK REPAIRS ALL REINFORCING STEEL IN THE AREAS OF THE DECK REPAIRS SHALL BE COMPLETELY CLEANED. CLEANING SHALL BE DONE PRIOR TO PLACING NEW CONCRETE. AREAS OF CONCRETE REMOVAL SHALL BE DESIGNATED BY PERSONNEL FROM THE HEADQUARTERS, BRIDGE INSPECTION AND REPAIR OFFICE. INSPECTIONS TO DETERMINE AREAS OF DECK REPAIR SHALL BE SCHEDULED WITH THE BRIDGE REPAIR OFFICE AT LEAST (3) DAYS IN ADVANCE.

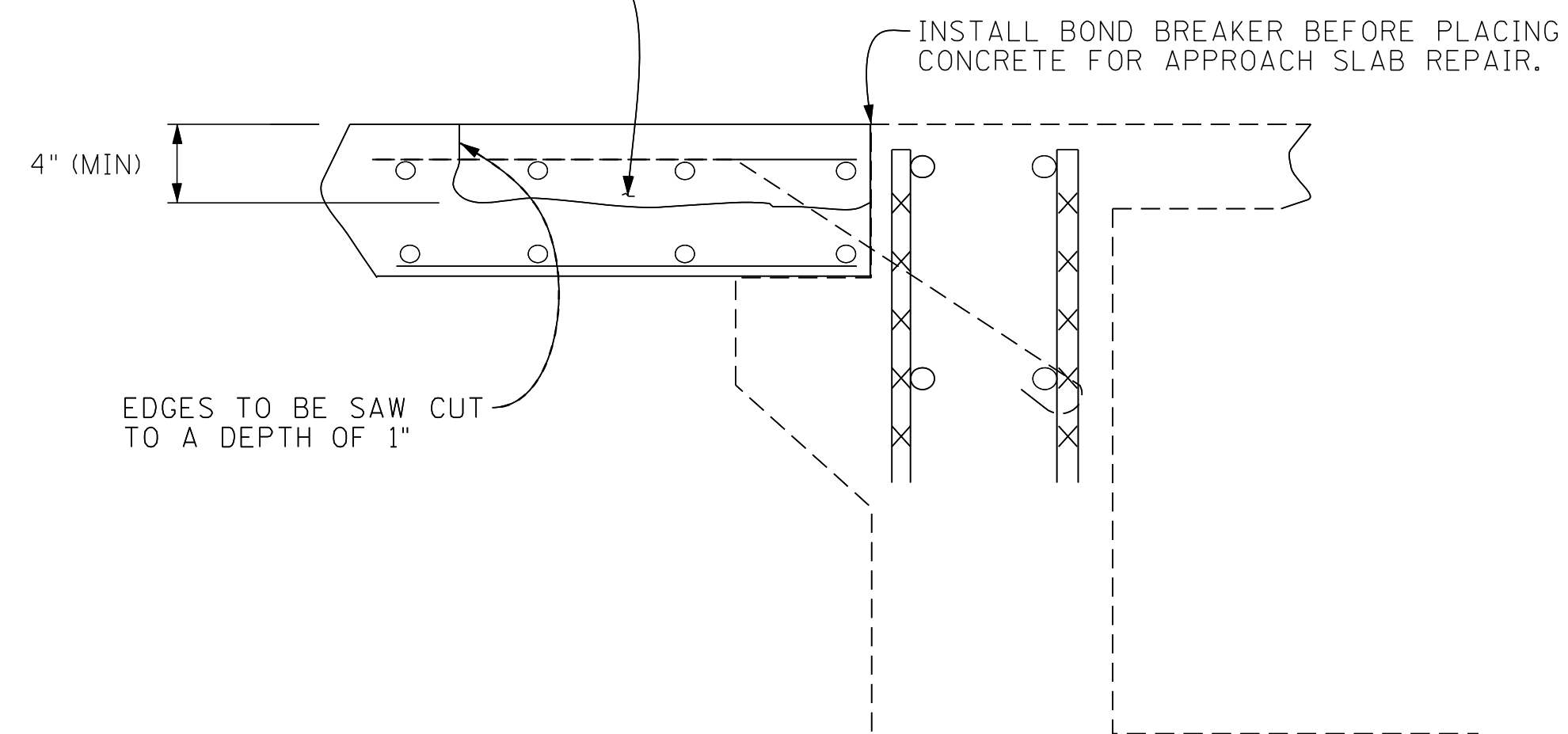
THE COST OF CONCRETE, CONCRETE REMOVAL, LABOR, CLEANING REBAR AND ANY MISCELLANEOUS MATERIAL REQUIRED SHALL BE PAID FOR UNDER ITEM NO. 604-10.50 BRIDGE DECK REPAIRS (PARTIAL DEPTH OF SLAB), S.Y.

NOTE: ITEM NO. 604-10.50, BRIDGE DECK REPAIRS (PARTIAL DEPTH OF SLAB) MAY BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER.

NOTE: THE CONTRACTOR SHOULD TAKE EXTREME CARE WHEN REMOVING THE CONCRETE FOR PARTIAL DEPTH OF DECK REPAIR, SO AS NOT DAMAGE THE EXISTING PRECAST PRESTRESSED PANELS. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY REPAIRS ON ALL DAMAGED PANELS TO THE SATISFACTION OF THE PROJECT ENGINEER AT NO ADDITIONAL COST.

NOTE: AREAS OF PARTIAL DEPTH REPAIR SURFACE OF AGGREGATE OR CONCRETE MUST BE SATURATED WITH CLEAN WATER, GIVE IT TIME TO BECOME DAMP (NOT WET) BLAST ANY EXCESSIVE WATER. PATCHED AREA TO BE SATURATED SURFACE DRY UNLESS OTHERWISE NOTES IN MANUFACTURER'S SPECIFICATIONS.

SEE BRIDGE DECK REPAIR MATERIAL NOTE BELOW

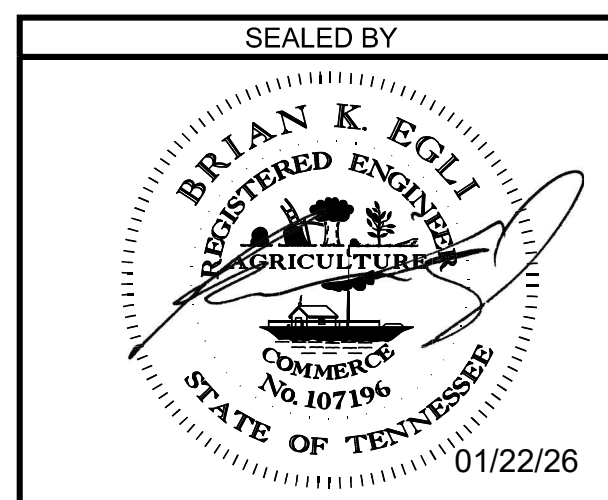


CONCRETE APPROACH PAVEMENT REPAIR DETAILS:

NOTE: REMOVE CONCRETE TO A DEPTH OF 3/4" MINIMUM BELOW EXISTING REINFORCING STEEL OR TO SOUND CONCRETE. CONCRETE REMOVAL SHOULD BE TO A MINIMUM DEPTH OF 4". DEPTH FOR CONCRETE REMOVAL SHOULD NOT BE MORE THAN 6".

NOTE: COST OF SAW CUTTING, CONCRETE REMOVAL, COMPLETELY CLEANING EXPOSED REINFORCING STEEL, LABOR, AND ANY MISCELLANEOUS MATERIALS NECESSARY TO COMPLETE THE REPAIRS AS SHOWN SHALL BE INCLUDED IN ITEM NO. 604-10.53 CONCRETE REPAIR S.Y.

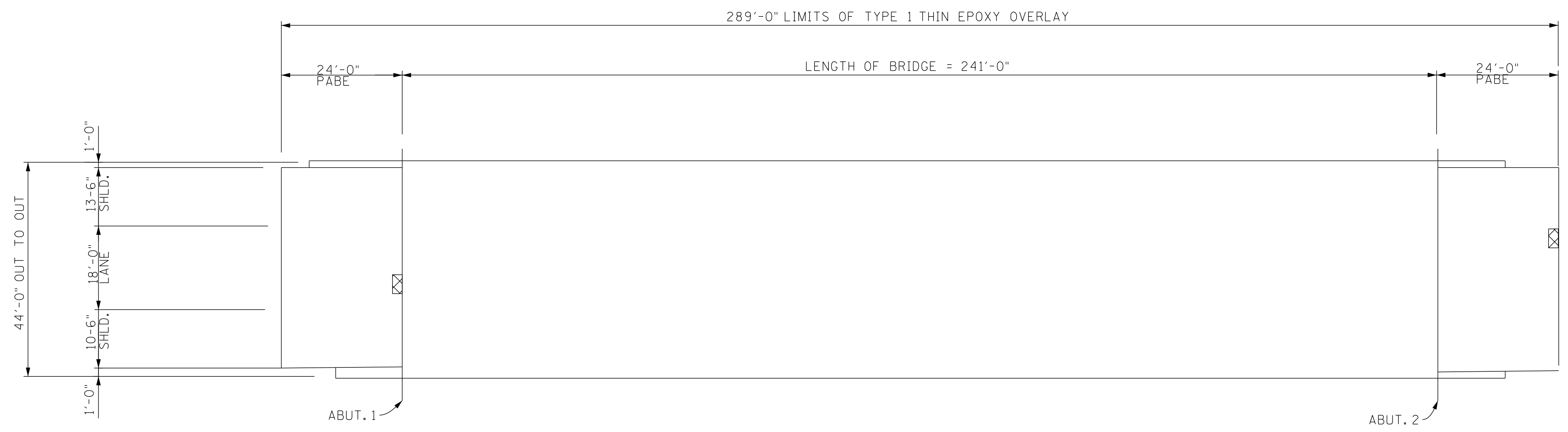
NOTE: ITEM NO. 604-10.53, CONCRETE REPAIR (PARTIAL DEPTH OF APPROACH PVMT.) MAY BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER.



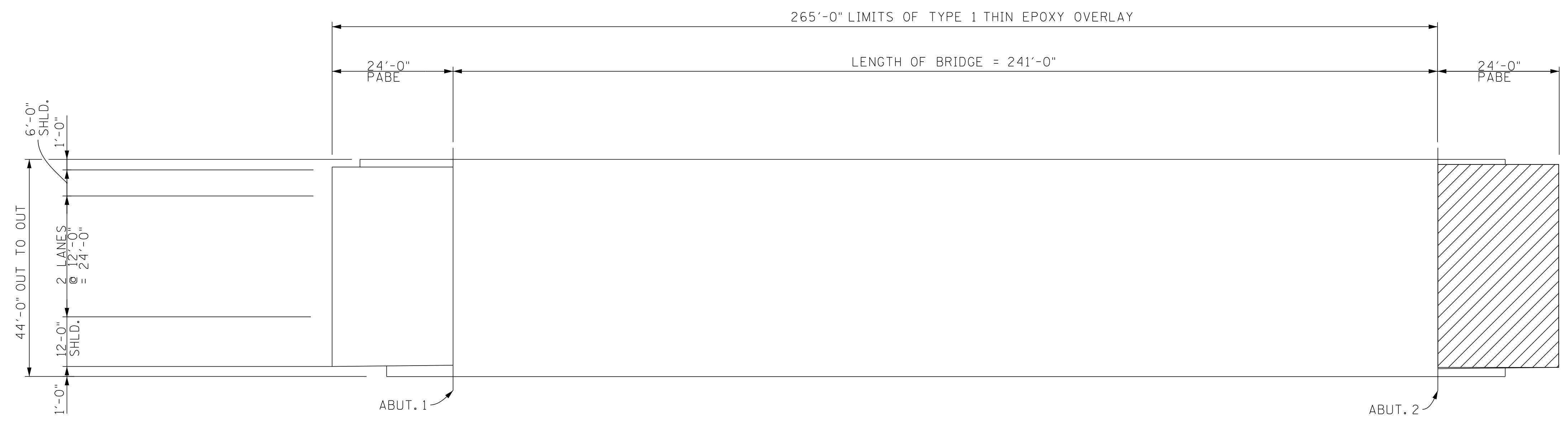
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
BRIDGE TABULATION,  
ESTIMATED QUANTITIES  
REPAIRS NOTES  
© DETAILS  
29-SR1-26.83 RT. & LT. OVER  
BRIAR FORK CREEK  
FED. BRIDGES ID NOS.  
29SR0010031 & 29SR0010032  
GRAINGER COUNTY  
2026

PIN NO.: 134037.00  
DESIGN BY: SILESHI ERGICHO DATE: 11/25  
DRAWN BY: KEVIN MARTINKO DATE: 11/25  
SUPERVISED BY: DATE: 11/25  
CHECKED BY: DATE: 11/25

PROJECT NO.	YEAR	SHEET NO.	
29S001-M3-006	2026	B-3	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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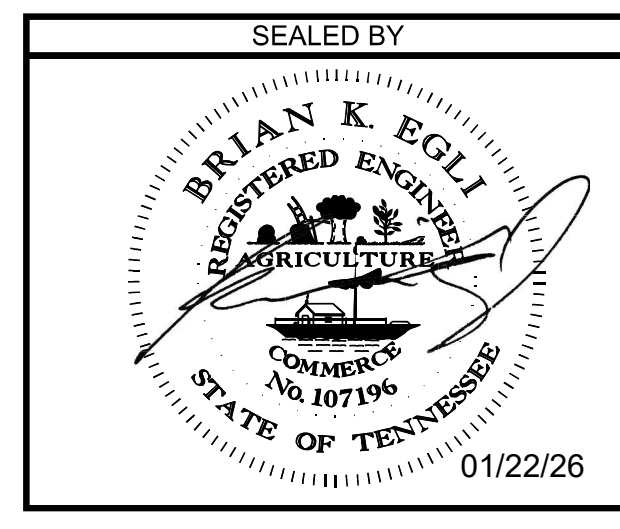


PLAN VIEW  
29-SR1-26.83 LT.



PLAN VIEW  
29-SR1-26.83 RT.

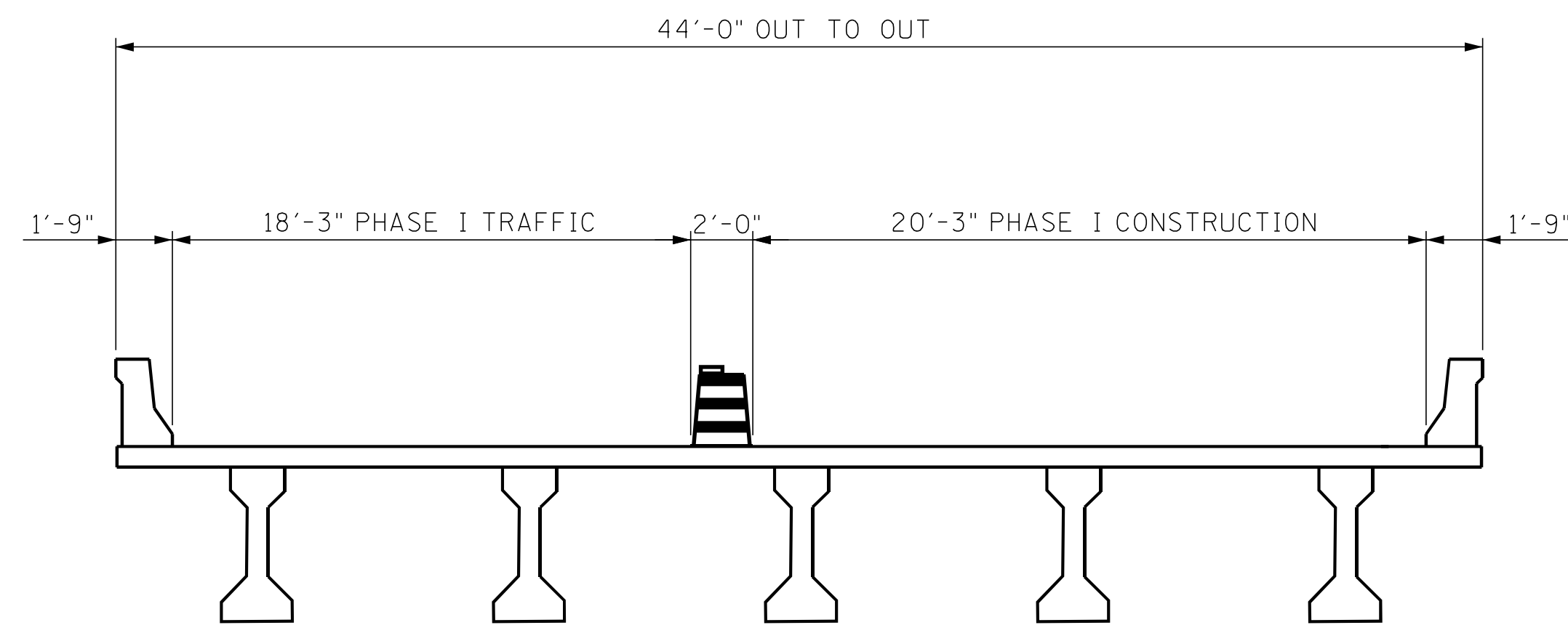
- DENOTES: CONCRETE REPAIR (PARTIAL DEPTH OF APPROACH PAVEMENT)
- DENOTES: AREAS THAT HAVE EXISTING ASPHALT OVER APPROACH PAVEMENT SHALL BE PAVED, SEE PAVING SCHEDULE.



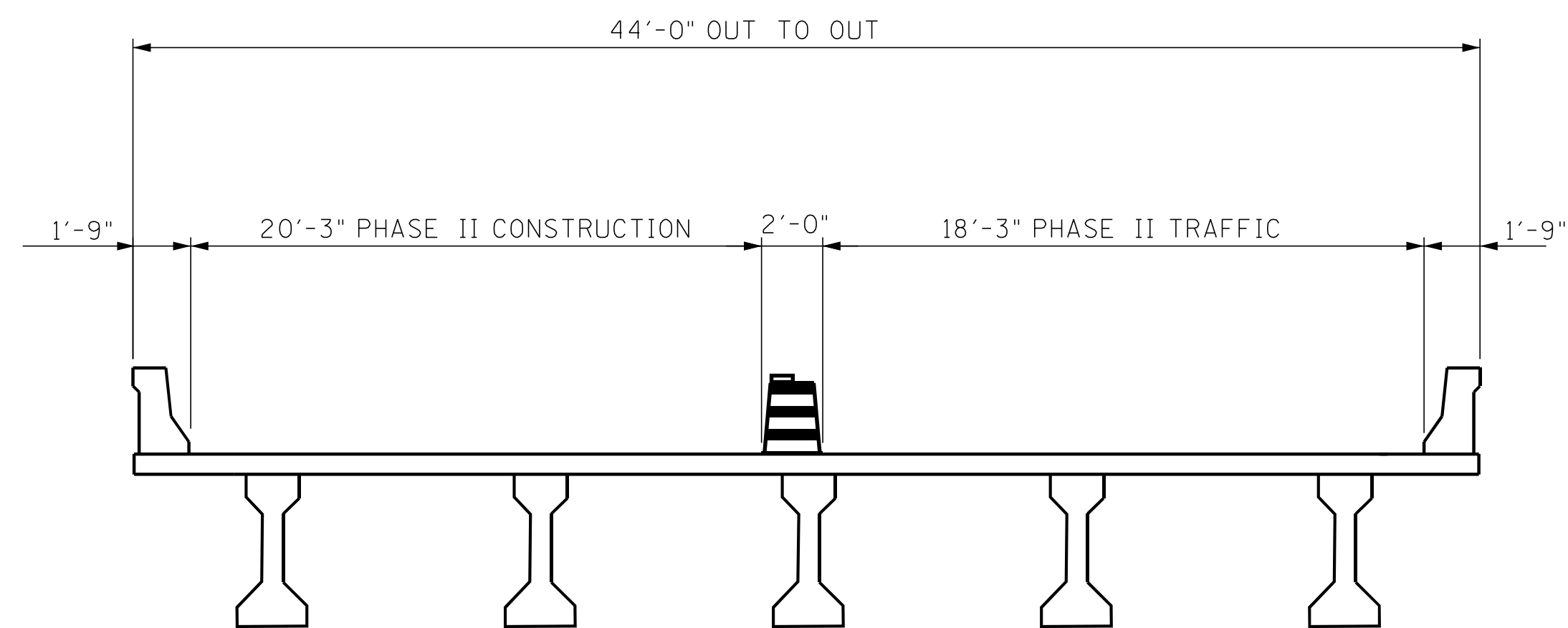
STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION  
PLAN VIEW APPROXIMATE  
REPAIRS LOCATIONS  
29-SR1-26.83 RT. & LT. OVER  
BRIAR FORK CREEK  
FED. BRIDGES ID NOS.  
29SR0010031 & 29SR0010032  
GRAINGER COUNTY  
2026

PIN NO.: 134037.00  
DESIGN BY: SILESHI ERGICHO DATE: 11/25  
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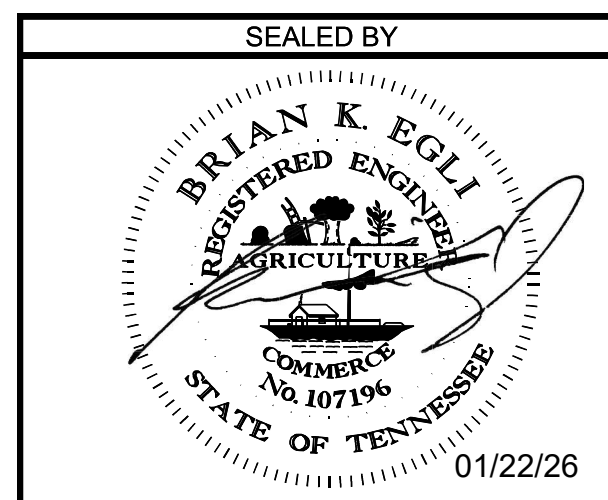
PROJECT NO.	YEAR	SHEET NO.	
29S001-M3-006	2026	B-4	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
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PHASE I CONSTRUCTION  
 (LEFT LANE - LOOKING BACK ON THE SURVEY)  
 (RIGHT LANE - LOOKING AHEAD ON THE SURVEY)



PHASE II CONSTRUCTION  
 (LEFT LANE - LOOKING BACK ON THE SURVEY)  
 (RIGHT LANE - LOOKING AHEAD ON THE SURVEY)



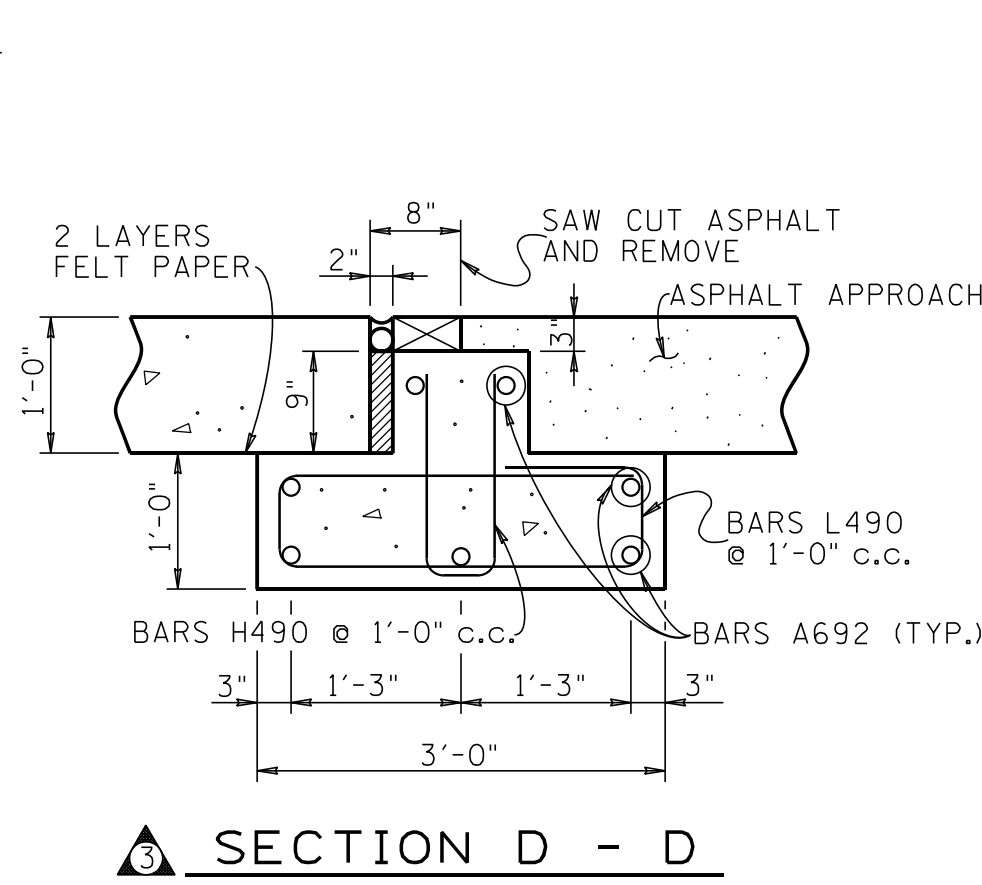
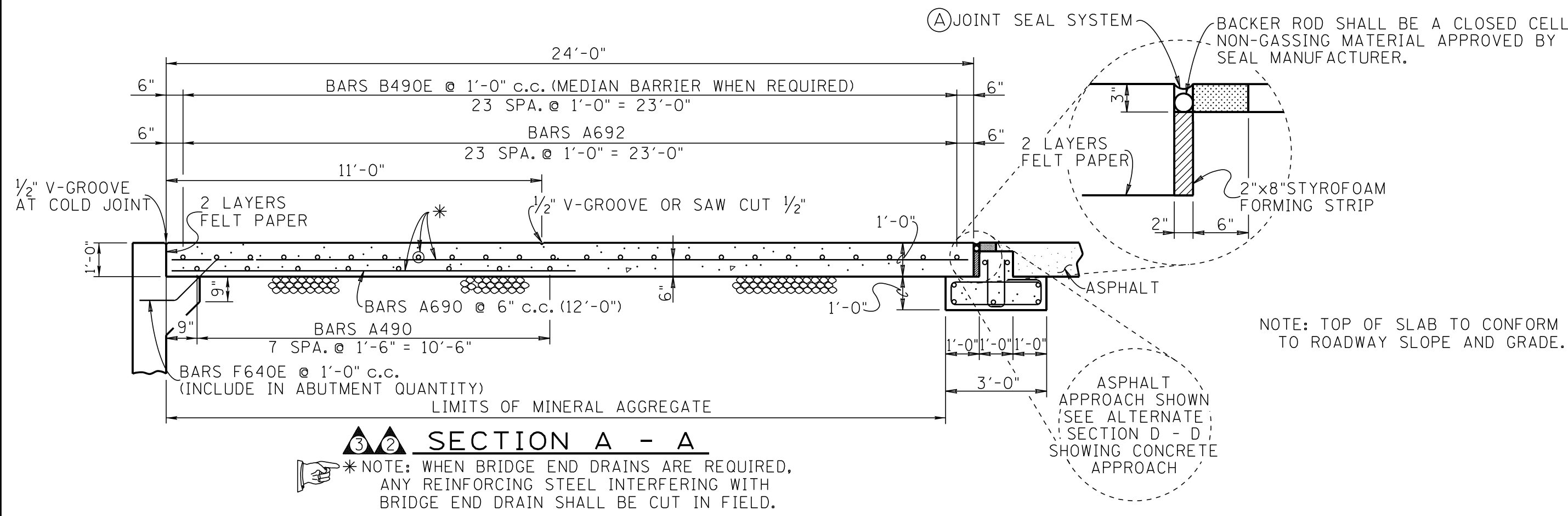
STATE OF TENNESSEE  
 DEPARTMENT OF TRANSPORTATION  
 PHASE CONSTRUCTION  
 29-SR1-26.83 RT. & LT. OVER  
 BRIAR FORK CREEK  
 FED. BRIDGES ID NOS.  
 29SR0010031 & 29SR0010032  
 GRAINGER COUNTY  
 2026

PIN NO.: 134037.00  
 DESIGN BY: SILESHI ERGICHO DATE: 11/25  
 DRAWN BY: KEVIN MARTINKO DATE: 11/25  
 SUPERVISED BY: DATE: 11/25  
 CHECKED BY: DATE: 11/25









**BILL OF STEEL**

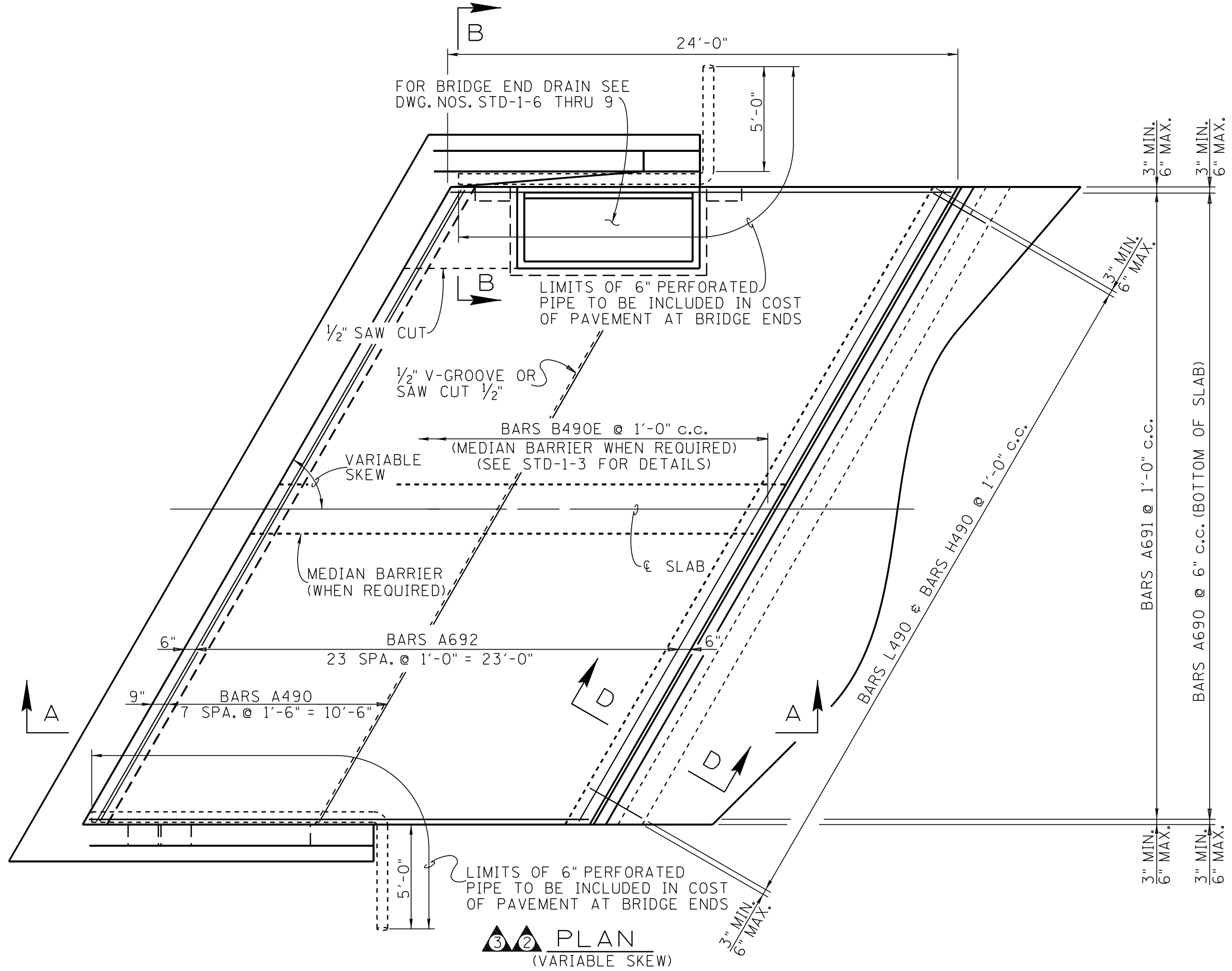
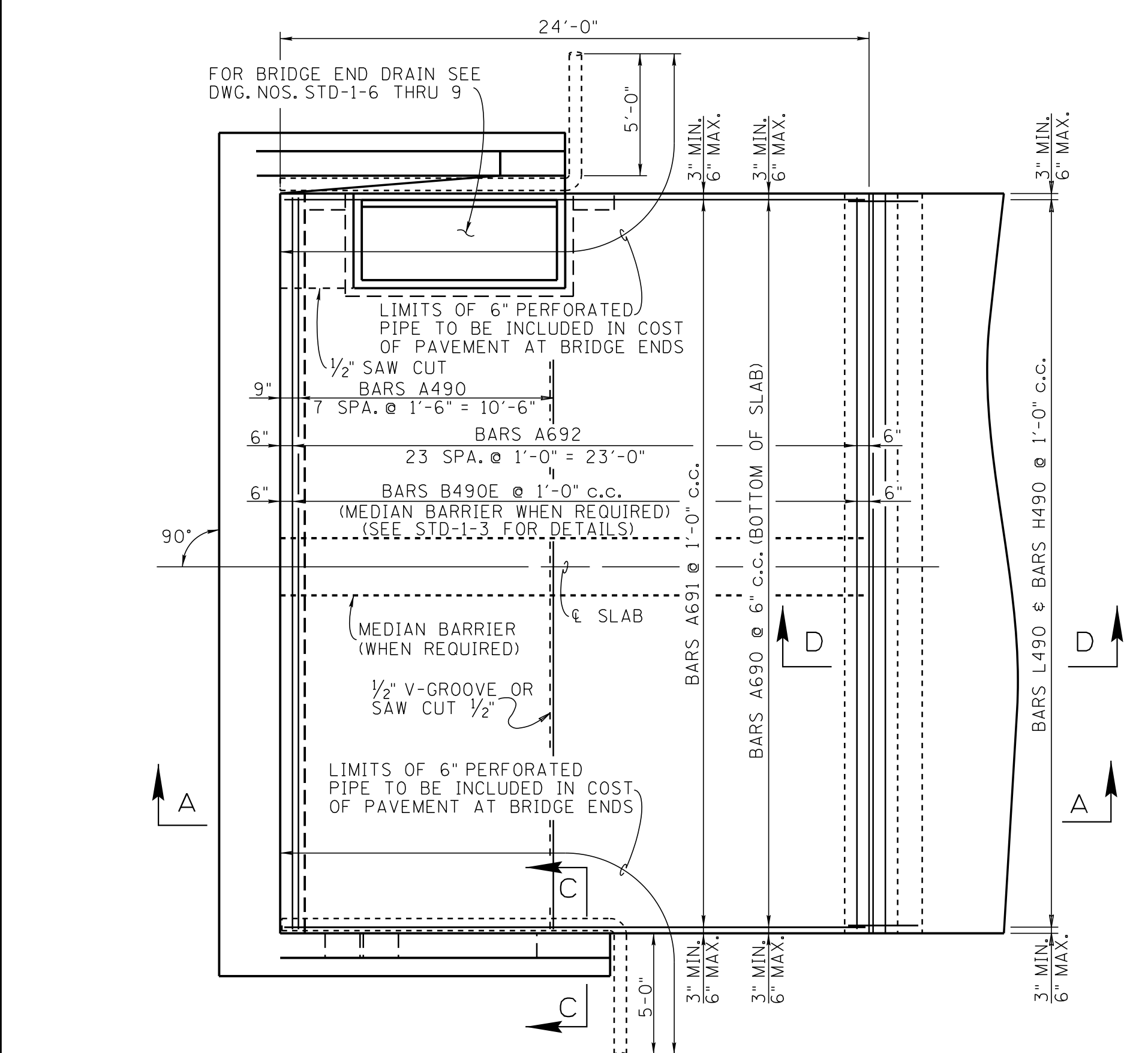
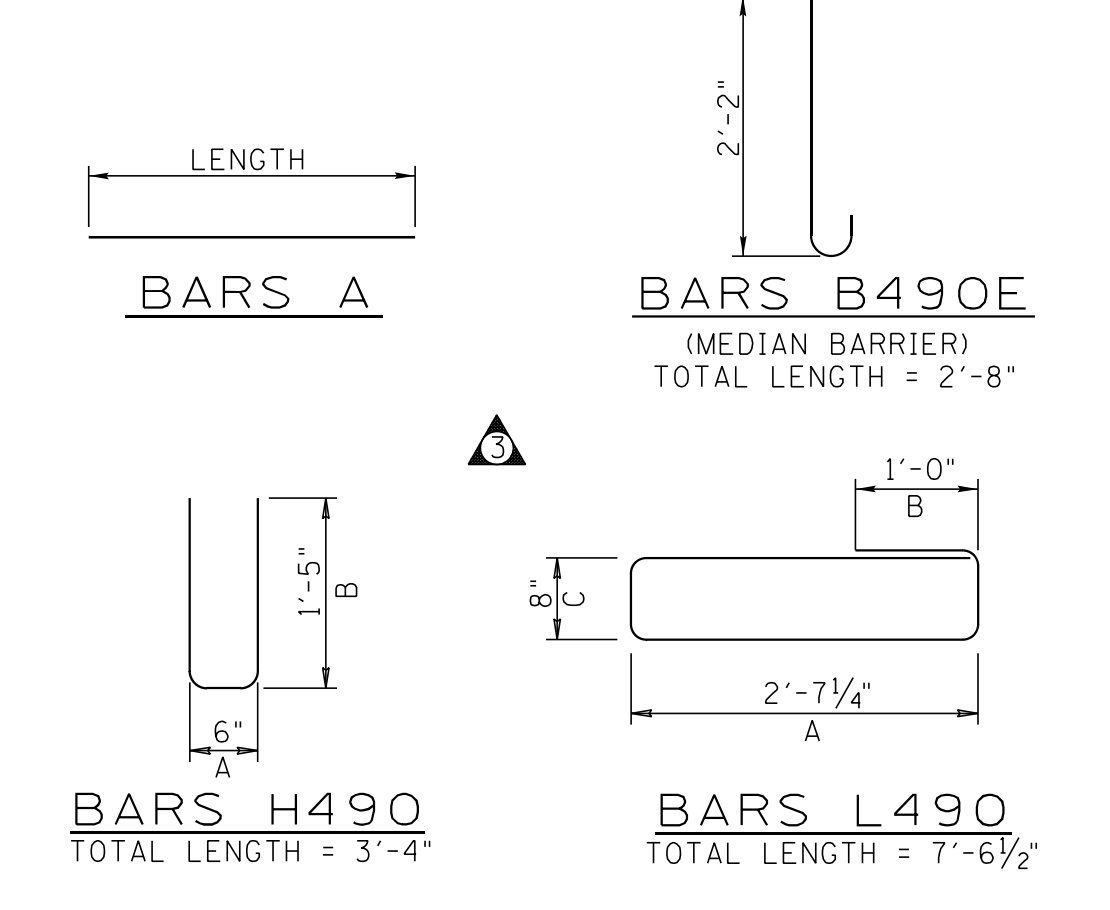
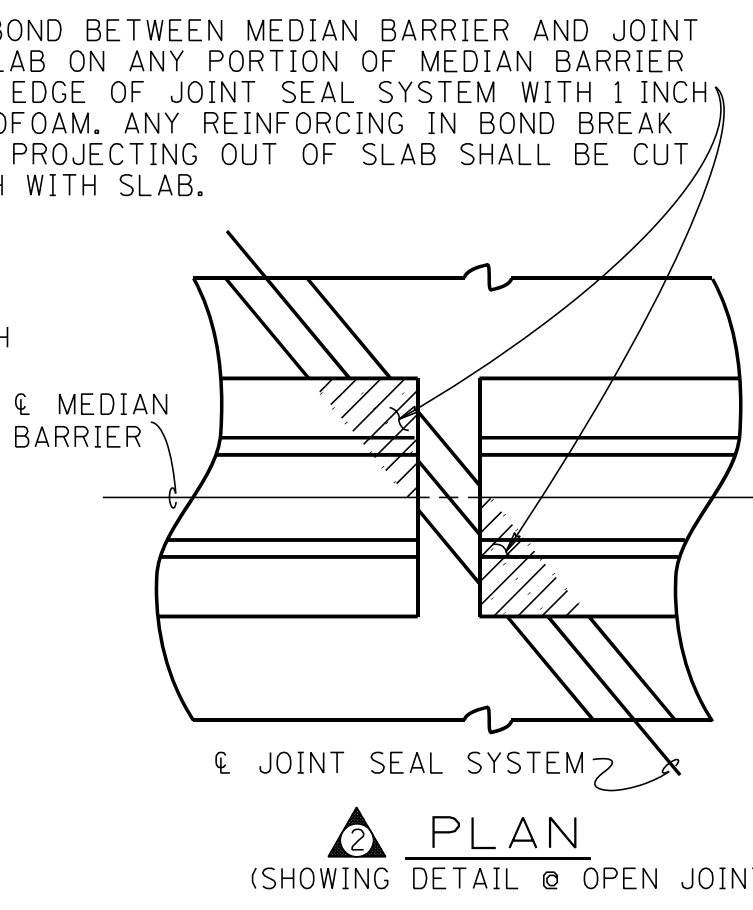
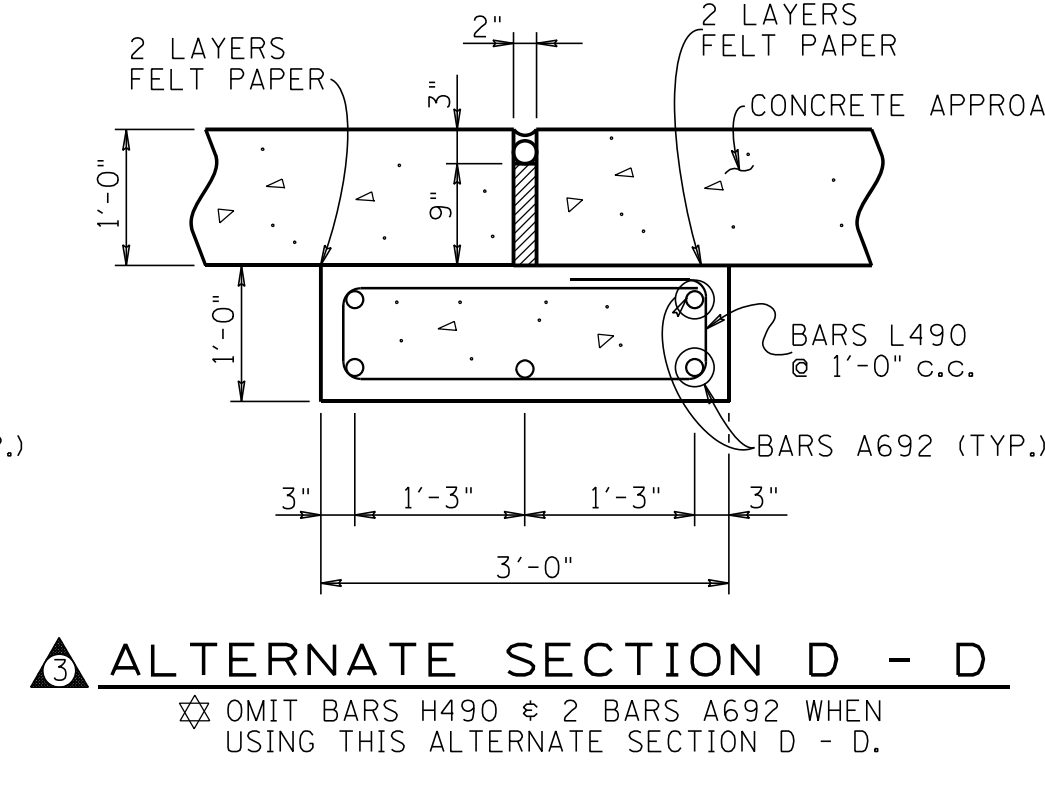
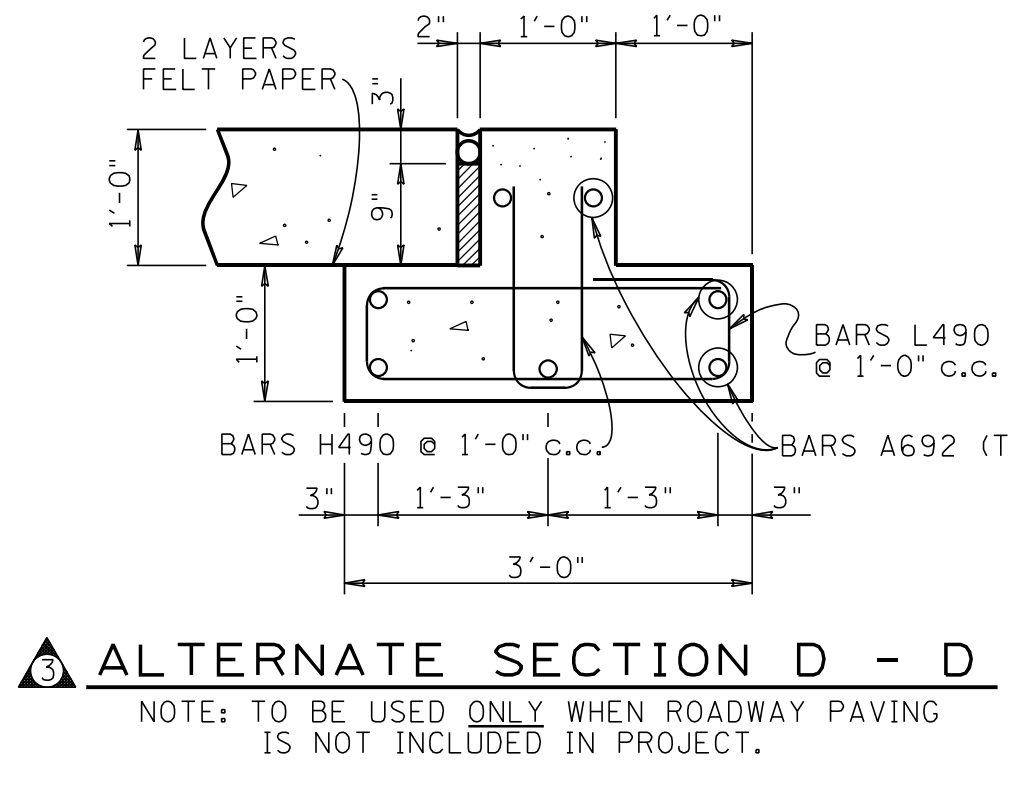
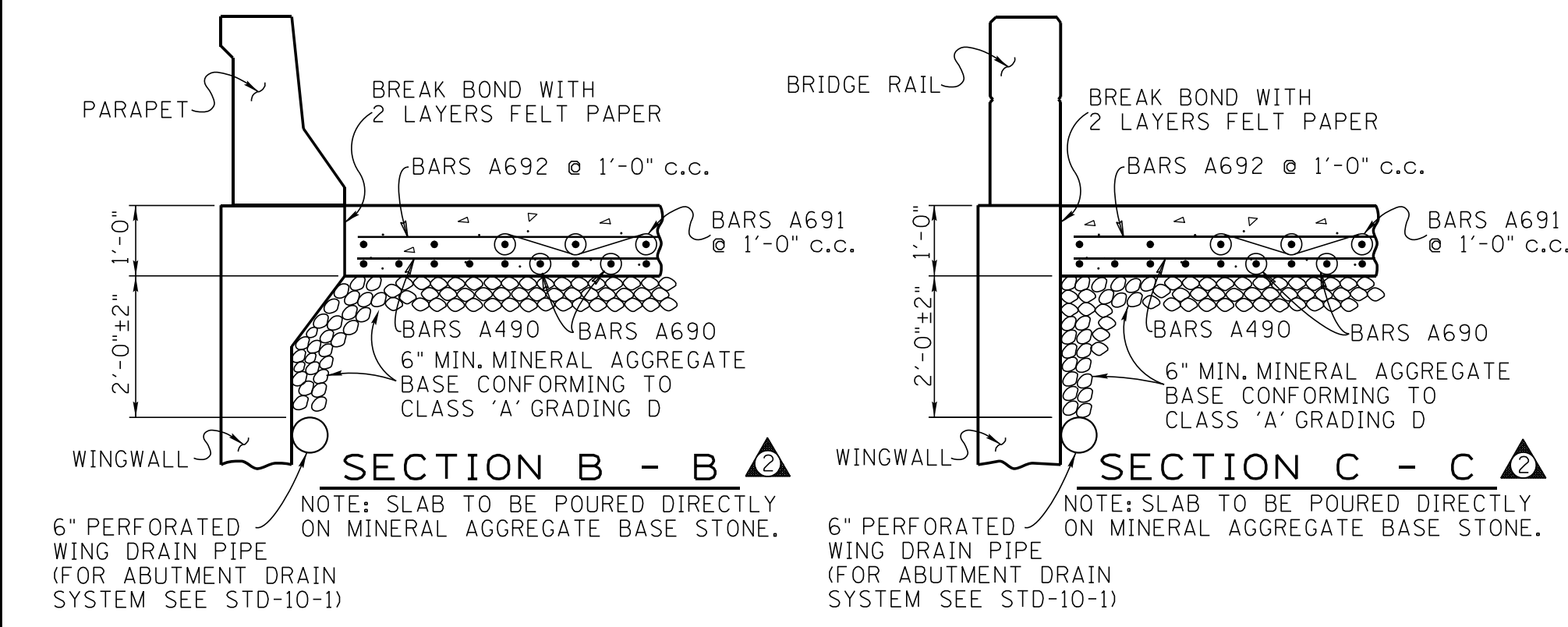
BARS	LOCATION	SIZE	NO. REQ'D	BENDING DIMENSIONS				LENGTH
				A	B	C	D	
B490E	MEDIAN (WHEN REQ'D.)	4	48					2'-8"
A490	SLAB	4	8					△
A690	SLAB	6	△					12'-0"
A691	SLAB	6	△					23'-8"
A692	SLAB	6	31					△
H490	FOOTING	4	△	6"	1'-4"			3'-4"
L490	FOOTING	4	△	2'-7 1/4"	1'-0"	8"		7'-6 1/2"

△ THESE NUMBERS VARY DEPENDING UPON ROADWAY WIDTH.

PROJECT NO.	YEAR	SHEET NO.
	1995	

REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	5-1-95	CMH	GENERAL REVISION REDESIGN
2	12-18-95	CMH	ADDED BARS A490 AND JOINT DETAIL
3	4-28-97	CMH	REVISED JOINT DETAILS AND NOTE
4	9-6-99	CMH	REVISED JOINT NOTE



- NOTES**
- QUANTITIES FOR CLASS 'A' CONCRETE, REGULAR AND EPOXY COATED REINFORCING STEEL (WHEN REQUIRED FOR MEDIAN BARRIER), BACKER ROD, JOINT SEALER, ELASTOMERIC CONCRETE, STYROFOAM, GRATE AND MISCELLANEOUS MATERIALS FOR BRIDGE END DRAIN, WHEN REQUIRED, ARE TO BE INCLUDED IN PAVEMENT AT BRIDGE ENDS, S.Y. FOR BAR BENDING DIMENSIONS SEE THIS SHEET AND BILL OF STEEL FOR BRIDGE END DRAIN ON DRAWING NO. STD-1-6.
  - COST OF MINERAL AGGREGATE CLASS A GRADING D BASE QUANTITY SHALL BE INCLUDED IN COST OF PAVEMENT AT BRIDGE ENDS. CLASS B GRADING C OR D MAY ALSO BE USED.

- GENERAL NOTES**
- CONCRETE: TO BE CLASS 'A' (f'c = 3,000 psi)
- REINFORCING STEEL: SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. SEE SECTION 604 AND 907 OF THE STANDARD SPECIFICATIONS.
- SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (CURRENT EDITION).
- NOTE: THE APPROACH SLAB SHALL NOT BE POURED UNTIL THE ADJACENT END SPAN DECK SLAB IS IN PLACE AND ACCEPTED BY THE ENGINEER.
- NOTE: THE APPROACH SLAB CONTROL ELEVATIONS SHALL BE ADJUSTED, (IF REQUIRED), SO AS TO MATCH THE IN PLACE DECK SLAB IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS.
- JOINT SEAL SYSTEM:**  
THE EXPANSION JOINT SYSTEM USED SHALL BE ON THE TDOT APPROVED QUALIFIED LISTS FOR ACCEPTABLE PRODUCTS. THE JOINT SYSTEM SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF AN AUTHORIZED TECHNICIAN PROVIDED BY THE EXPANSION JOINT SUPPLIER.

MINOR REVISION - FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

REINFORCED CONCRETE PAVEMENT AT BRIDGE ENDS  
1995

DESIGNED BY: C.M. HILES  
DRAWN BY: KIM FRANKENFIELD  
SUPERVISED BY: C.M. HILES  
CHECKED BY: \_\_\_\_\_

DATE: 4-95  
DATE: 4-95  
DATE: \_\_\_\_\_

CORRECT *Edward P. Wasserman*  
ENGINEER OF STRUCTURES