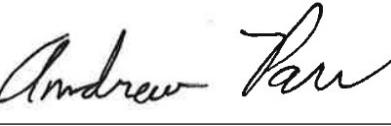




THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:  
  
Contact Info:  
andrew.parr@arcadis.com  
Date: 2025.11.25 15:12:30-05'00'

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ARCADIS US, INC.  
1210 PREMIER DRIVE SUITE 200

CHATTANOOGA, TN 37421  
ANDREW PARR, P.E. NO. 121197

11/25/25  
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	ROADWAY-SIGN2
ROADWAY INDEX, STANDARD ROADWAY DRAWINGS, AND	
STANDARD TRAFFIC DESIGN DRAWINGS	1A
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B

YEAR	PROJECT NO.	SHEET NO.
2025	82S358-S8-002	ROADWAY-SIGN2

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

SIGNATURE  
SHEET

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2025	82S358-S8-002	1A

REV. 11/25/25 : ADDED SHEET ROADWAY-SIGN2  
TO ROADWAY INDEX.

# ROADWAY INDEX

# STANDARD ROADWAY DRAWINGS

# STANDARD TRAFFIC DESIGN DRAWINGS

SHEET NAME	SHEET NO.	DWG.	REV.	DESCRIPTION
SIGNATURE SHEET .....	ROADWAY-SIGN1			
SIGNATURE SHEET .....	ROADWAY-SIGN2			
TITLE SHEET .....	1	RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L
ROADWAY INDEX, STANDARD ROADWAY DRAWINGS, AND		RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z
STANDARD TRAFFIC DESIGN DRAWINGS .....	1A	RD-L-1	02-20-20	STANDARD LEGEND
ESTIMATED ROADWAY QUANTITIES.....	2	RD-L-1A		STANDARD LEGEND
TYPICAL SECTION AND PAVEMENT SCHEDULE .....	2B			<b>ROADWAY DESIGN STANDARDS</b>
GENERAL NOTES .....	2C	RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS
SPECIAL NOTES .....	2D	RD11-SE-2		SUPERELEVATION TRANSITION DETAILS FOR UNDIVIDED ROADWAYS
ENVIRONMENTAL NOTES .....	2E	RD11-SE-2A		SUPERELEVATION TRANSITION SECTIONS FOR UNDIVIDED ROADWAYS
EROSION PREVENTION AND SEDIMENT CONTROL NOTES .....	2E1	RD11-LR-1		MINIMUM RUNOFF LENGTHS (L <sub>r</sub> ) FOR URBAN HIGHWAYS
TABULATED QUANTITIES.....	2F	RD11-LR-2		MINIMUM RUNOFF LENGTHS (L <sub>R</sub> ) FOR RURAL HIGHWAYS
UTILITY NOTES AND UTILITY OWNERS.....	3			
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL .....	T1			<b>SAFETY DESIGN AND GUARDRAILS</b>
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED IN THE NUMBERING OF SHEETS.		S-CZ-1	06-28-19	CLEAR ZONE CRITERIA
<b>NO PROJECT COMMITMENTS IN THIS PLAN SET.</b>		S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED
<b>NO UTILITY SHEETS ARE INCLUDED IN THIS SET OF PLANS.</b>		S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)
		S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS
		S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE
		S-GR31-1	03-13-25	GUARDRAIL DETAILS
		S-GRS-4	05-04-22	SPECIAL CASE GUARDRAIL HEIGHT TRANSITION DETAIL
		S-GRT-2P	10-16-20	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL
		S-GRT-2R	06-28-19	EARTH PAD FOR TYPE 38 AND TYPE 21 TERMINAL (RETROFIT)
		S-GRT-3	06-28-19	TYPE 21 GUARDRAIL END TERMINAL

<b>DWG.</b>	<b>REV.</b>	<b>DESCRIPTION</b>
<b>DESIGN - TRAFFIC CONTROL</b>		
T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
T-M-3	01-24-25	MARKING STANDARDS FOR TRAFFIC ISLANDS, PAVED SHOULDERS AND MEDIANES FOR CONVENTIONAL ROADS
T-M-4	01-24-25	STANDARD INTERSECTION PAVEMENT MARKINGS
T-WZ-10	03-26-25	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
T-WZ-FAB	03-26-25	FLASHING YELLOW ARROW BOARD

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**SEALED BY**

**STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION**

# ROADWAY INDEX, STANDARD ROADWAY DRAWINGS, AND STANDARD TRAFFIC DESIGN DRAWINGS

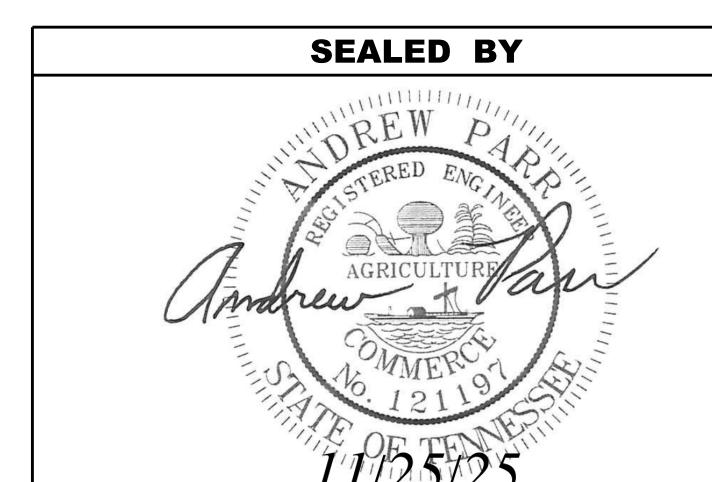
TYPE	YEAR	PROJECT NO.	sheet no.
RESURF.	2025	82S358-S8-002	2

REV. 11/25/25 : CHANGED ITEM NUMBER  
411-03.13 IN ALTERNATE AA1 TO 411-03.08.

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
			82S358-S8-002
(1)	208-01.05 BROOMING & DEGRASSING SHOULDERS	L.M.	13
(2)(3)	705-02.10 GUARDRAIL TRANSITION 27 In To 31 In	EACH	10
(2)	705-04.10 EARTH PAD FOR GUARD RAIL END TREATMENT	EACH	10
(2)(4)	705-06.30 GR TERMINAL (ENERGY ABSORBING) MASH TL2	EACH	10
(2)(5)	706-01 GUARDRAIL REMOVED	L.F.	220
	712-01 TRAFFIC CONTROL	LS	1
	712-04.01 FLEXIBLE DRUMS (CHANNELIZING)	EACH	40
	712-05.01 WARNING LIGHTS (TYPE A)	EACH	20
(6)	712-06 SIGNS (CONSTRUCTION)	S.F.	637
	712-08.03 ARROW BOARD (TYPE C)	EACH	2
(7)	716-01.21 SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR) (1 COLOR)	EACH	1335
(8)	716-01.30 REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	735
(9)(10)	716-02.04 PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	115
(9)	716-02.05 PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	206
(9)	716-02.06 PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	7
(9)	716-04.01 PLASTIC PAVEMENT MARKING (STRAIGHT-TURN ARROW)	EACH	1
(9)	716-04.05 PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	10
(11)	716-05.20 PAINTED PAVEMENT MARKING (6" LINE)	L.M.	10
	716-13.02 SPRAY THERMO PVMT MRKNG (60 mil) (6IN LINE)	L.M.	25
(12)	716-13.05 SPRAY THERMO PVMT MRKNG (60 mil) (6IN DOTTED LINE)	L.F.	3170
	717-01 MOBILIZATION	LS	1
	ALTERNATE AA1		
(13)	307-01.15 ASC MIX (PG64-22) (BPMCL-HM) GRADING CS	TON	682
	403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	57
(14)	411-03.08 ACS MIX(PG70-22) THIN LIFT ASPHALT	TON	3411
(15)	415-01.02 COLD PLANING BITUMINOUS PAVEMENT	SY	1543
	ALTERNATE AA2		
(16)	403-01.01 BITUMINOUS MATERIAL FOR TACK COAT (MICRO-SURFACING)	TON	12
(17)	414-03.01 EMULSIFIED ASPHALT FOR MICRO-SURFACING	TON	162
(18)	414-03.02 AGGREGATE FOR MICRO SURFACING	TON	1344
(19)	716-08.20 REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	25

FOOTNOTES	
(1)	INCLUDES THE COST OF REMOVING DEBRIS AND SWEEPING SHOULDERS PRIOR TO WORK. SEE SHEET NO. 2C, FINAL PAVEMENT MARKING NOTE (6) FOR MORE INFORMATION.
(2)	SEE SHEET NUMBER 2F FOR PROPOSED GUARDRAIL TABULATION BLOCK.
(3)	COST INCLUDES THE LENGTH OF GUARDRAIL NECESSARY TO TRANSITION FROM EXISTING HEIGHT OF GUARDRAIL TO 31 INCHES.
(4)	INCLUDES ALL MATERIAL NECESSARY FOR THE CONSTRUCTION OF THE PAD AND ANY NECESSARY EPSC MEASURES.
(5)	GUARDRAIL SHALL BE REMOVED SUCH THAT NEW COMBINED GUARDRAIL AND END TERMINAL LENGTH IS EQUAL TO OR GREATER THAN EXISTING.
(6)	SEE SHEET NUMBER 2F FOR TRAFFIC CONTROL SIGN TABULATION BLOCK.
(7)	USE 20' SPACING FOR THE FOLLOWING LOCATIONS: L.M. 0.000 - L.M. 1.274, L.M. 1.444 - L.M. 1.990, L.M. 2.981 - L.M. 3.528, L.M. 3.704 - L.M. 4.359, AND L.M. 5.040 - 5.660.
(8)	ANY DAMAGE THAT OCCURS DURING REMOVAL SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE TDOT MANAGER.
(9)	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.
(10)	8" BARRIER LINE TO BE USED.
(11)	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.
(12)	SEE SHEET 2F FOR TABULATION BREAKDOWN OF LOCATIONS.
(13)	TO BE USED FOR SPOT LEVELING. TO BE USED ONLY TO CORRECT DEFICIENCIES ON EXISTING PAVEMENT AND IS NOT TO BE COMBINED WITH OTHER COURSES.
(14)	INCLUDES 150 TONS FOR COUNTY ROADS AND 99 TONS FOR TURN LANES. BUSINESS ENTRANCES AND PRIVATE DRIVES ARE TO BE TIED-IN AS NEEDED OR AS DIRECTED BY THE TDOT MANAGER.
(15)	TO BE USED AT THE BEGINNING AND END OF THE PROJECT LIMITS AND FOR THE BRIDGE OVER SOUTH FORK HOLSTON RIVER/RIVERSIDE CIRCLE
(16)	NO PAYMENT WILL BE MADE DIRECTLY FOR THE WATER REQUIRED TO DILUTE THE TACK COAT.
(17)	INCLUDES 1 TON FOR TURN LANES.
(18)	INCLUDES 6 TONS FOR TURN LANES.
(19)	INCLUDES THE COST ASSOCIATED WITH THE REMOVAL OF EXISTING SPECIALTY MARKINGS WHERE MICRO-SURFACE IS TO BE PLACED.

THERE ARE NO UTILITY ADJUSTMENTS WITHIN PROJECT LIMITS

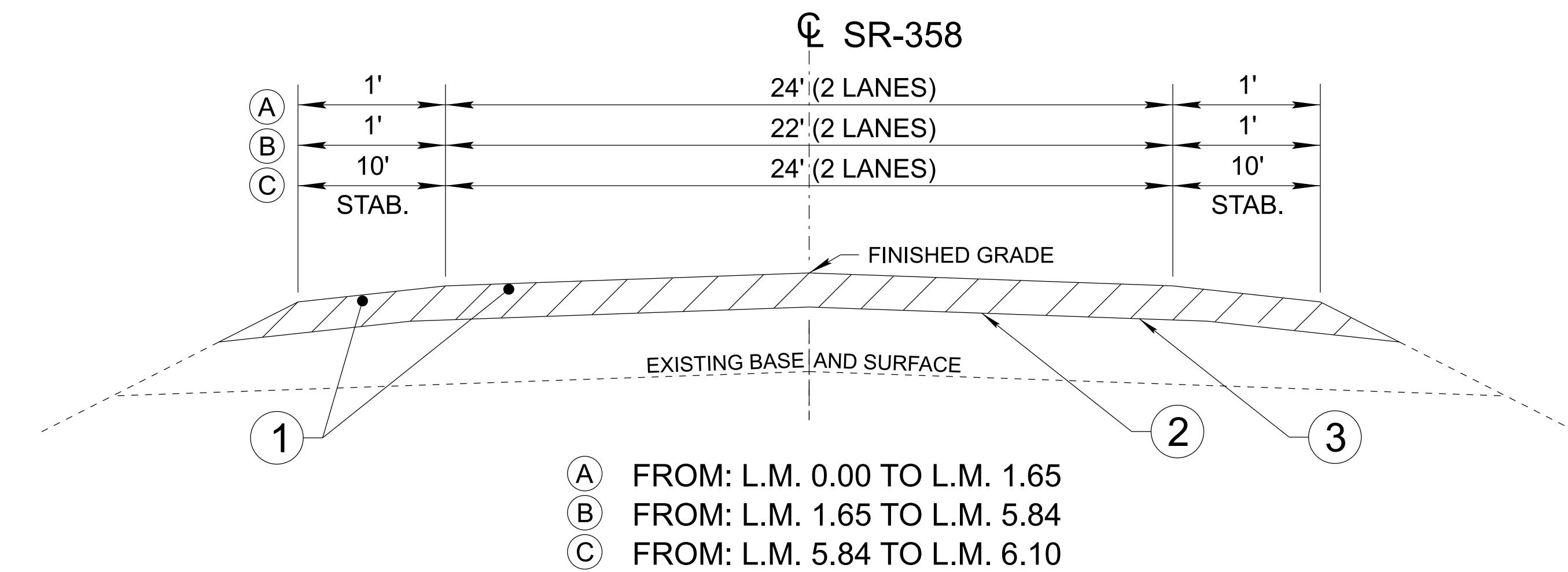


STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

ESTIMATED  
ROADWAY  
QUANTITIES

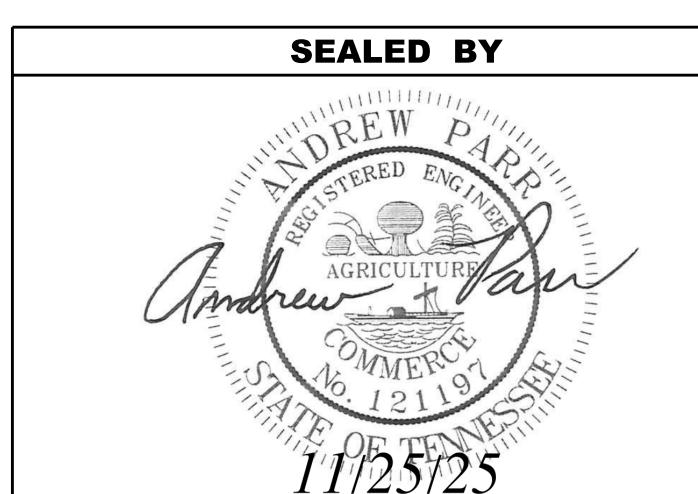
TYPE	YEAR	PROJECT NO.	sheet no.
RESURF.	2025	82S358-S8-002	2B

REV. 11/25/25 : CHANGED ITEM NUMBER  
411-03.13 IN ALTERNATE AA1 PROPOSED  
PAVEMENT SCHEDULE TO 411-03.08.



PROPOSED PAVEMENT SCHEDULE	
ALTERNATE AA1	
① ASPHALTIC CONCRETE SURFACE (HM) @ 0.75"± THICK (APPROX. 65 LBS./S.Y.)	ITEM 411-03.08      ACS MIX (PG70-22) THIN LIFT ASPHALT
② TACK COAT	ITEM 403-01      BITUMINOUS MATERIAL FOR TACK COAT (TC) SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD
③ BITUMINOUS COURSE (SPOT LEVELING)	ITEM 307-01.15      ASPHALT CONCRETE MIX (PG64-22) (BPMCL-HM) GRADING "CS"
COLD PLANING @ 0.75"± THICK (APPROX. 78.8 LBS./S.Y.)	
ITEM 415-01.02      COLD PLANING BITUMINOUS PAVEMENT	

PROPOSED PAVEMENT SCHEDULE	
ALTERNATE AA2	
① MICRO-SURFACING @ 22 LBS/SY	ITEM 414-03.01      EMULSIFIED ASPHALT FOR MICRO-SURFACING
	ITEM 414-03.02      AGGREGATE FOR MICRO-SURFACING
② TACK COAT (TC) FOR MICRO-SURFACING	ITEM 403-01.01      BITUMINOUS MATERIAL FOR TACK COAT (TC) SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
TYPICAL SECTION AND PAVEMENT SCHEDULE