

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:
James Fritz Brogdon, P.E.
Digitally signed by: James Fritz Brogdon, P.E.
DN: CN = James Fritz Brogdon, P.E. email = fritz.brogdon@arcadis.com, C = US, O = Arcadis, Inc., OU = Senior Transportation Engineer
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ARCADIS U.S. INC.
1210 PREMIER DRIVE, SUITE 200
CHATTANOOGA, TN 37421

JAMES FRITZ BROGDON, P.E. NO. 106940

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN3
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS.....	1A
ESTIMATED ROADWAY QUANTITIES	2

YEAR	PROJECT NO.	SHEET NO.
2025	NH-I-81-1(138)	ROADWAY-SIGN3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE
SHEET

ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEET	ROADWAY-SIGN1
SIGNATURE SHEET	ROADWAY-SIGN2
SIGNATURE SHEET	ROADWAY-SIGN3
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS.....	1A
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B, 2B1
TYPICAL SECTIONS.....	2B2
GENERAL NOTES.....	2C
SPECIAL NOTES.....	2D
ENVIRONMENTAL NOTES.....	2E
EROSION PREVENTION AND SEDIMENT CONTROL NOTES	2E1
TABULATED QUANTITIES	2F
DETAIL SHEET.....	2G, 2G1
UTILITY NOTES AND UTILITY OWNERS.....	3
RAMP DETAILS.....	4-4G
PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL.....	T1
TRAFFIC CONTROL PHASING NOTES, TYPICAL SECTIONS AND	
LEGEND	T2, T2A
PORTABLE SMART WORK ZONE SYSTEM PLAN	T2B-T2C
TRAFFIC CONTROL PHASE I	T3, T3A-T3P
TRAFFIC CONTROL PHASE II	T4, T4A-T4P
TRAFFIC CONTROL PLAN DETOUR	T5
*BRIDGE SHEETS.....	B1-B11

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

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION	DWG.	REV.	DESCRIPTION
STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS			DESIGN - TRAFFIC CONTROL		
RD-TP-1	10-01-24	STANDARD ROADWAY DRAWINGS TITLE SHEET	T-M-1	06-28-19	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
RD-A-1	02-20-20	STANDARD ABBREVIATIONS A THROUGH L	T-M-2	01-09-24	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS
RD-A-2		STANDARD ABBREVIATIONS M THROUGH Z	T-M-5	03-01-23	MARKING DETAIL FOR FREEWAYS
RD-L-1	02-20-20	STANDARD LEGEND	T-M-6	03-01-23	MARKING DETAIL FOR EXPRESSWAY AND FREEWAY INTERCHANGES
RD-L-1A		STANDARD LEGEND	T-M-7	06-28-19	GORE MARKING DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
ROADWAY DESIGN STANDARDS			T-M-8	06-28-19	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
RD11-SE-1		TRANSITION AND CROSS SLOPE DETAILS	T-M-9	05-01-23	PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
RD11-SE-3		SUPERELEVATION TRANSITION DETAILS FOR DIVIDED ROADWAYS	T-M-9A		PAVEMENT MARKING AND SIGNING DETAILS FOR RAMP INTERSECTIONS
RD11-SE-3A		SUPERELEVATION TRANSITION SECTIONS FOR DIVIDED ROADWAYS	T-M-15	06-28-19	ASPHALT SHOULDER RUMBLE STRIP INSTALLATION DETAILS FOR INTERSTATE AND ACCESS CONTROLLED ROUTES
RD11-LR-2		MINIMUM RUNOFF LENGTHS (LR) FOR RURAL HIGHWAYS	T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
SAFETY DESIGN AND GUARDRAILS			T-WZ-11	03-04-21	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
S-CZ-1	06-28-19	CLEAR ZONE CRITERIA	T-WZ-12	03-04-21	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS
S-PL-1	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED	T-WZ-FAB1		FLASHING YELLOW ARROW BOARD
S-PL-1A	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED (FOR RIGID OBJECTS)	EROSION PREVENTION AND SEDIMENT CONTROL		
S-PL-1B	03-01-23	SAFETY PLAN FOR BARRIER LENGTH OF NEED ON CURVED ROADWAYS	EC-STR-3B	06-15-21	SILT FENCE
S-PL-6	07-30-24	SAFETY PLAN SAFETY HARDWARE PLACEMENT ON OUTSIDE EDGE	EC-STR-3C	03-01-23	SILT FENCE WITH WIRE BACKING
S-PL-6A	06-28-19	SAFETY PLAN SAFETY HARDWARE PLACEMENT IN MEDIAN	EC-STR-3E	04-01-08	SILT FENCE FABRIC JOINING DETAILS
S-GR31-1	06-15-21	GUARDRAIL DETAILS	EC-STR-34	05-04-22	EROSION CONTROL BLANKET FOR SLOPE INSTALLATION
S-GRC-4	07-07-23	GUARDRAIL CONNECTION TO BRIDGE RAILING CONCRETE PARAPET			
S-GRC-5	02-28-20	GUARDRAIL CONNECTION TO BRIDGE ENDS (TRAILING ENDS)			
S-GRC-6	07-07-23	GUARDRAIL CONNECTION TO BRIDGE ENDS FOR LOW SPEED ROADWAYS			
S-GRS-4	05-04-22	SPECIAL CASE GUARDRAIL HEIGHT TRANSITION DETAIL			
S-GRT-2	06-28-19	TYPE 38 GUARDRAIL END TERMINAL			
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)			

TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2025	NH-I-81-1(138)	1A

REV. 02/25/25 : ADDED SHEET ROADWAY-SIGN2, BRIDGE SHEETS, AND PROJECT COMMITMENTS AND PORTABLE SMART WORK ZONE SYSTEM PLANS TO ROADWAY INDEX.
REV. 03/18/25 : ADDED SHEET ROADWAY-SIGN3.

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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

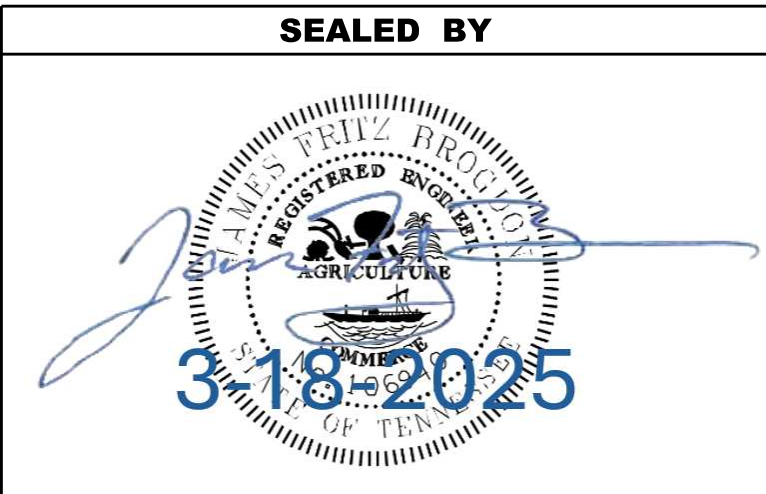
TYPE	YEAR	PROJECT NO.	SHEET NO.
RESURF.	2025	NH-I-81-1(138)	2

REV. 02/25/25 : REVISED QUANTITY FOR ITEM NUMBER 716-09.86.
REV. 03/18/25 : ADDED ITEM NUMBERS 712-09.31, 716-08.30, 716-08.33. ADDED FOOTNOTE NUMBER (10) AND RENUMBERED FOOTNOTES. REVISED QUANTITY FOR ITEM NUMBERS 716-05.49 AND 716-09.87. REVISED FOOTNOTE NUMBER (15).

ESTIMATED ROADWAY QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY 821081-F8-005
(1)	201-01 CLEARING AND GRUBBING	LS	1
	208-01.05 BROOMING & DEGRASSING SHOULDERS	L.M.	18
(2)	303-01 MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	314
(3)	307-03.12 ASPHALT CONCRETE MIX (PG76-22) GRADING CM	TON	11204
(3)	403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	63
(4)	411-03.10 ACS MIX(PG76-22) GRADING D	TON	476
(3)(5)	411-03.23 ACS MIX (PG76-22) OGFC	TON	13397
	411-12.01 SCORING SHOULDERS (CONTINUOUS) (16IN WIDTH)	L.M.	18
(3)	415-01.01 COLD PLANING BITUMINOUS PAVEMENT	TON	12431
(6)	502-08.01 RESEALING JOINTS (HOT POURED ELASTIC)	L.F.	33101
(3)	705-02.10 GUARDRAIL TRANSITION 27IN TO 31IN	EACH	5
(3)(7)	705-04.09 EARTH PAD FOR TYPE 38 GR END TREATMENT	EACH	5
(3)	705-06.20 TANGENT ENERGY ABSORBING TERM MASH TL-3	EACH	5
	712-01 TRAFFIC CONTROL	LS	1
	712-04.01 FLEXIBLE DRUMS (CHANNELIZING)	EACH	261
	712-05.01 WARNING LIGHTS (TYPE A)	EACH	131
(8)	712-06 SIGNS (CONSTRUCTION)	S.F.	2028
(9)	712-06.16 SIGNS (CONSTRUCTION)(REDUCED SPEED WARNING)	EACH	4
	712-08.03 ARROW BOARD (TYPE C)	EACH	2
	712-08.08 SPEED FEEDBACK SIGN ASSEMBLY	EACH	4
	712-08.09 DIGITAL SPEED LIMIT SIGN ASSEMBLY	EACH	8
	712-08.12 QUEUE PROTECTION TRUCK	DAY	42
(10)	712-09.31 REMOVABLE BLACK-OUT TAPE (8IN)	L.F.	1783
	713-16.01 CHANGEABLE MESSAGE SIGN UNIT	EACH	6
	716-01.23 SNOWPLOWABLE RAISED PAVEMENT MARKERS (BI-DIR)(2 COLOR)	EACH	917
(11)	716-01.30 REMOVAL OF SNOWPLOWABLE REFLECTIVE MARKER	EACH	917
(12)	716-02.07 PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	950
(12)	716-04.05 PLASTIC PAVEMENT MARKING (STRAIGHT ARROW)	EACH	2
(12)	716-04.07 PLASTIC PAVEMENT MARKING (EXIT ONLY ARROW)	EACH	6
(13)	716-05.49 PAINTED PAVEMENT MARKINGS(8" LINE)	L.M.	30
	716-08.30 HYDROBLAST REMOVAL OF PAVEMENT MARKING (LINE)	L.M.	1
(15)	716-08.33 HYDROBLAST REMOVAL OF PAVEMENT MARKING (WORDS AND SYMBOLS)	EACH	4
(14)	716-09.86 CONTRAST PAVEMENT MARKING 6"	L.M.	1
(15)	716-09.87 CONTRAST PAVEMENT MARKINGS WORDS AND SYMBOLS	EACH	4
	716-12.02 ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	20
	716-12.03 ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE)	L.F.	6575
	716-12.05 ENHANCED FLATLINE THERMO PVMT MRKNG (6IN DOTTED LINE)	L.F.	2350
	716-12.08 ENHANCED FLAT LINE THERMO (12IN BARRIER LINE)	L.F.	2310
	716-12.10 ENHANCED FLAT LINE THERMO (12IN DOTTED)	L.F.	5105
	717-01 MOBILIZATION	LS	1
	ALTERNATE AA1		
(3)(16)	403-02.01 TRACKLESS TACK COAT	TON	193
	ALTERNATE AA2		
(3)(17)	403-02.02 HOT APPLIED TACK COAT	TON	146

FOOTNOTES	
(1)	SEE DETAIL ON SHEET 2G1.
(2)	TO BE USED ON THE SHOULDERS OF CONCRETE RAMPS.
(3)	SEE SHEET 2F FOR MORE INFO.
(4)	TO BE USED ON ALL BRIDGES WITHIN PROJECT LIMITS.
(5)	<u>225 TONS</u> TO BE USED FOR PLANT STARTUP AND HEATING UP EQUIPMENT AT BEGINNING OF EACH SHIFT, <u>15 TONS</u> WASTE MATERIAL PER DAY.
(6)	TO BE USED TO SEAL SHOULDER JOINTS ON CONCRETE RAMPS.
(7)	INCLUDES ALL MATERIAL NECESSARY FOR THE CONSTRUCTION OF THE PAD AND ANY NECESSARY EPSC MATERIALS.
(8)	SEE SHEET 2F FOR SIGN TABULATED QUANTITIES. THE CONSTRUCTION SIGNING IS TO A MINIMUM. OTHER SIGNS MAY BE REQUIRED AS DIRECTED BY THE TDOT MANAGER.
(9)	ITEM TO BE USED ONLY WHEN A REDUCED SPEED LIMIT IS ESTABLISHED WITHIN THE PROJECT CONSTRUCTION WORK ZONE LIMITS. ITEM INCLUDES SIGN FACE, SUPPORTS AND TWO (2) TYPE "B" FLASHERS PER STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TURNING ON THE TYPE "B" FLASHERS WHEN WORKERS ARE IN THE CONSTRUCTION WORK ZONE AND TURNING THEM OFF WHEN WORKERS ARE NO LONGER IN THE CONSTRUCTION WORK ZONE.
(10)	SEE SHEET T2 FOR MORE INFORMATION.
(11)	ANY DAMAGE THAT OCCURS DURING REMOVAL SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE AND TO THE SATISFACTION OF THE TDOT MANAGER.
(12)	THE CONTRACTOR MAY ELECT TO SUBSTITUTE PREFORMANCE PLASTIC FOR THERMO PLASTIC. PREFORMED PLASTIC SHALL BE PAID FOR AT THE SAME PRICE AS BID FOR THERMOPLASTIC.
(13)	TO BE USED FOR TEMPORARY PAVEMENT MARKINGS ON INTERMEDIATE LAYERS.
(14)	TO BE USED ON EXISTING CONCRETE RAMPS AT FORDTOWN ROAD/EXIT 56 INTERCHANGE.
(15)	FOR 2 STRAIGHT ARROWS AND 2 STOP BARS AT FORDTOWN ROAD/EXIT 56 INTERCHANGE.
(16)	USE AN APPROVED TRACKLESS TACK FROM QPL 40-F APPLIED WITH A DISTRIBUTOR AT A MINIMUM RATE OF 0.25 GAL/SY (APPROXIMATE RESIDUAL RATE 0.13-0.15 GAL/SY). PAVING SHALL NOT BEGIN UNTIL THE DEPARTMENT IS SATISFIED THE APPLICATION RATE IS ACHIEVED AND THE EMULSION HAS FULLY BROKEN. MULTIPLE PASSES MAY BE REQUIRED. OR, EMULSION TYPE CQS-1HP MAY BE APPLIED WITH A SPRAY PAVER AT AN APPLICATION RATE BETWEEN 0.18 TO 0.23 GAL/SY. THE SPRAY PAVER SHALL BE A SINGLE PIECE OF EQUIPMENT THAT APPLIES THE TACK COAT AND SPREADS THE BITUMINOUS PAVEMENT. ATA MINIMUM THE SPRAY PAVER SHALL MEET THE PAVER REQUIREMENTS OF 407.06 AND THE DISTRIBUTOR REQUIREMENTS IN 402.03.
(17)	HOT APPLIED TRACKLESS TACK MAY BE EITHER HOT APPLIED ASPHALT BINDER OR AN APPROVED HOT APPLIED TRACKLESS TACK COAT FROM QPL 40, SECTION F. IF USING ASPHALT BINDER THE MINIMUM GRADE SHALL BE SHALL BE PG64-22 BUT A HIGHER GRADE MAY BE USED.

NOTE: THERE ARE NO UTILITY ADJUSTMENTS WITHIN PROJECT LIMITS



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION
ESTIMATED ROADWAY QUANTITIES