

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Matthew Newman

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GRESHAM SMITH 222 2ND AVE SOUTH NASVHILLE, TN 37201 MATT NEWMAN, P.E., PE. NO. 124700

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

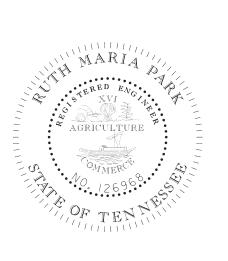
SHEET NAME	SHEET NO.
SIGNATURE SHEETS	. ROADWAY-SIGN2
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	. 1A
ESTIMATED ROADWAY AND TABULATED QUANTITIES	. 2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	. 2B
TRAFFIC CONTROL PLANS	. T2
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED II SHEETS.	N THE NUMBERING

PROJECT NO.	SHEET NO.
19S045-M3-005	ROADWAY-SIGN2

REV. 09/04/2025: SHEET ADDED

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Ruth Park

2025.09.29 16:02:41 -05'00'

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GRESHAM SMITH 222 2ND AVE SOUTH NASHVILLE, TN 37201 DONALD MCCRARY, P.E. NO. 110730

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-SIGN2
LAYOUT OF BRIDGE TO BE REPAIRED	BR-132-842
ESTIMATED BRIDGE QUANTITIES	BR-132-843

YEAR	PROJECT NO.	SHEET NO.
2025	19S045-M3-005	BRIDGE - SIGN 2

REV. 09/04/25: SHEET ADDED

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET

ROADWAY INDEX

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	ROADWAY-SIGN1 - ROADWAY-SIGN2
TITLE SHEET	1
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS	1A
PROJECT COMMITMENTS	1B
ESTIMATED ROADWAY AND TABULATED QUANTITIES	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
GENERAL NOTES	2C
SPECIAL NOTES	2D
ENVIRONMENTAL NOTES	2E-2E1
PRESENT / PROPOSED & EPSC LAYOUT	3
TRAFFIC CONTROL PLANS	T1-T6
BRIDGE PLANS	B-1
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED NUMBERING OF SHEETS.	IN THE

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
10-100.00 AND LEGE		RD ROADWAY TITLE SHEET, ABBREVIATIONS,
RD-TP-1	10-01-24	STANDARD ROADWAY DRAWINGS TITLE SHEET
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
RD-L-5	07-30-24	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-6	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
RD-L-7	02-20-20	STANDARD LEGEND FOR EROSION PREVENTION AND SEDIMENT CONTROL
10-101.00 I	ROADWAY	/ DESIGN STANDARD
RD11-TS-3B		DESIGN STANDARDS FOR ARTERIAL HIGHWAYS WITH FLUSH MEDIAN (4 AND 6 LANE)
RD11-TS-5B		DESIGN STANDARDS FOR FREEWAYS WITH MEDIAN BARRIER (4 AND 6 LANE)
10-104.00 FENCES	ROADWA	Y, PAVEMENT APPURTENANCES, AND
RP-VC-10	03-04-21	VERTICAL CONCRETE CURB AND CURB AND GUTTER (FOR 8" TO 12" GUTTER DEPTH)
10-105.00	MULTIMO	DDAL
MM-SW-1	07-07-23	DETAILS FOR CONCRETE SIDEWALKS
10-106.00	SAFETY	DESIGN AND GUARDRAILS
S-GR31-1	06-15-21	GUARDRAIL DETAILS
S-GR31-1A	06-28-19	GUARDRAIL AND BLOCK-OUT DETAILS
S-GR31-1B		GUARDRAIL FASTENING HARDWARE
S-GR31-1C	07-07-23	GUARDRAIL GENERAL NOTES AND POST DETAILS
S-GR31-1D	03-01-23	GUARDRAIL POST PLACEMENT IN ROCK
S-GRC-4	01-30-25	GUARDRAIL CONNECTION TO BRIDGE RAILING CONCRETE PARAPET
10-107.00	EROSION	I PREVENTION AND SEDIMENT CONTROL
EC-STR-8	06-10-14	FILTER SOCK
E0 0TD 07	00.40.44	OFDIMENT TUDE

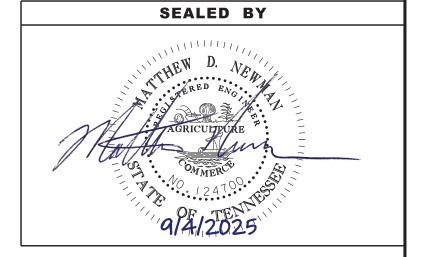
EC-STR-37 06-10-14 SEDIMENT TUBE

STANDARD TRAFFIC DESIGN DRAWINGS

DWG.	REV.	DESCRIPTION
10-204.00	DESIGN -	TRAFFIC CONTROL
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-4A	01-24-25	STANDARD UNSIGNALIZED MID-BLOCK CROSSING
T-WZ-16	07-30-24	LANE SHIFT FOR DIVIDED HIGHWAYS AND FREEWAYS
T-WZ-FAB1		FLASHING YELLOW ARROW BOARD
T-WZ-PCB1	10-10-24	10 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2	10-01-24	20 FOOT PORTABLE CONCRETE BARRIER RAIL
T-WZ-PCB2A	10-01-24	20 FOOT PORTABLE CONCRETE BARRIER RAIL STIFFENER TUBE
T-WZ-PCB3	01-28-22	PORTABLE CONCRETE BARRIER RAIL DETAILS
T-WZ-PCB4	12-09-22	PORTABLE CONCRETE BARRIER RAIL ANCHOR PIN DETAILS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	19S045-M3-005	1A

REV. 09/04/2025: ADDED SHEET ROADWAY-SIGN2



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

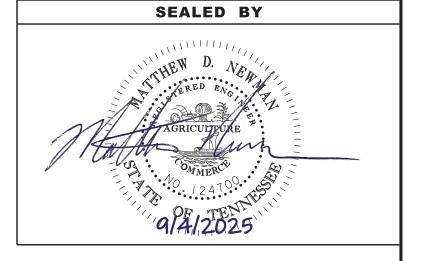
		ESTIMATED ROADWAY QUANTITIES		
	ITEM NO	DECORIDATION	111117	19S045-M3-005
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	202-03	REMOVAL OF RIGID PAVEMENT, SIDEWALK, ETC.	S.Y.	97
	202-03.01	REMOVAL OF ASPHALT PAVEMENT	S.Y.	123
(1)	202-08.15	REMOVAL OF CURB AND GUTTER (OLD HICKORY BLVD)	L.F.	176
(1) (1) (2)	209-05 209-03.20	SEDIMENT REMOVAL FILTER SOCK (8 INCH)	C.Y. L.F.	2 180
(1)(2)	303-01	MINERAL AGGREGATE, TYPE A BASE, GRADING D	TON	225
(8)	303-10.04	MINERAL AGGREGATE (SIZE TO BE DETERMINED BY CONTRACTOR)	TON	1768
(- /	307-02.01	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING A	TON	100
	307-02.08	ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING BM-2	TON	71
(13)	402-01	BITUMINOUS MATERIAL FOR PRIME COAT (PC)	TON	0.4
	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	0.7
	407-20.05	SAW CUTTING ASPHALT PAVEMENT	L.F.	282
	411-02.10	ACS MIX (PG70-22) GRADING D	TON	55
	415-01.02	COLD PLANING BITUMINOUS PAVEMENT	S.Y.	559
	701-01.01 702-03	CONCRETE SIDEWALK (4") CONCRETE COMBINED CURB & GUTTER	S.F. C.Y.	1056 14
(3)	702-03	GUARDRAIL ADJUSTMENT	L.F.	191
(12)	712-01	TRAFFIC CONTROL	LS	0.34
(6)	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	140
(6)	712-02.12	PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3)	L.F.	656
(4)	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	2
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	128
	712-04.50	BARRIER RAIL DELINEATOR	EACH	2
(5)	712-05.01	WARNING LIGHTS (TYPE A)	EACH	8
(5)	712-06	SIGNS (CONSTRUCTION)	S.F.	437
	712-07.02 712-07.03	TEMPORARY BARRICADES (TYPE III) TEMPORARY BARRICADES (TYPE III)	L.F.	72 96
(7)	712-07.03	ARROW BOARD (TYPE B)	EACH	6
(1)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	8
. ,	716-02.03	PLASTIC PAVEMENT MARKING (CROSS-WALK)	L.F.	109
(10)	716-02.04	PLASTIC PAVEMENT MARKING(CHANNELIZATION STRIPING)	S.Y.	39
(10)	716-02.05	PLASTIC PAVEMENT MARKING (STOP LINE)	L.F.	70
(10)(11)	716-02.06	PLASTIC PAVEMENT MARKING (TURN LANE ARROW)	EACH	6
	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	468
(10)(11)	716-02.09	PLASTIC PAVEMENT MARKING (LONGITUDINAL CROSS-WALK)	L.F.	166
(10)(11)	716-03.01 716-04.12	PLASTIC WORD PAVEMENT MARKING (ONLY) PLASTIC PAVEMENT MARKING (YIELD LINE)	EACH S.F.	6 15
	716-04.12	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	142
	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	1.8
(9)(11)	716-09.86	CONTRAST PAVEMENT MARKING 6"	L.M.	0.4
(10)(11)	716-12.02	ENHANCED FLATLINE THERMO PVMT MRKNG (6IN LINE)	L.M.	0.5
	717-01	MOBILIZATION	LS	0 <mark>.3</mark> 4
	740-07.04	GEOGRID REINFORCEMENT TYPE 2	S.Y.	2 <mark>76</mark> 4
(4) (0)	740-10.04	GEOTEXTIBLE (TYPE IV) (STABILIZATION)	S.Y.	790
(1) (2)	740-11.03	TEMPORARY SEDIMENT TUBE 18IN	L.F.	373
(1) (2) (1) (2)	740-11.04 801-01	TEMPORARY SEDIMENT TUBE 20IN SEEDING (WITH MULCH)	L.F. UNIT	408 5
(1)(2)	801-01	SEEDING (WITH MOLOTI)	ONIT	3
			-	
				
			 	
			 	
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FOOTNOTES:

- (1) TO BE USED AS DIRECTED BY ENGINEER.
- (2) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT
- (3) INCLUDES ANY GUARDRAIL REMOVAL REQUIRED FOR CONSTRUCTION AND THE REPLACEMENT OF EXISTING GUARDRAIL AFTER CONSTRUCTION.
- (4) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
- (5) SEE SHEET T2 FOR TRAFFIC CONTROL SIGN SCHEDULE, ADDITIONAL SIGNS INSTALLED AS DIRECTED BY THE ENGINEER SHALL BE PAID FOR AT THE UNIT COST FOR THIS ITEM.
- (6) NO BARRIER RAIL SHALL BE PLACED EARLIER THAN 10 DAYS BEFORE WORK IS TO BE DONE AT THAT LOCATION. IF NO WORK TAKES PLACE IN THE CONSTURCTION ZONE BEHIND BARRIER RAIL OVER 2 SUCCESSIVE WEEKS AND THE ENGINEERS DETERMINE THAT THE RAIL IS NOT WARRANTED, THE BARRIER RAIL MUST BE REMOVED AT THE CONTRACTORS EXPENSE AND A SAFE CONDITION CREATED.
- (7) ALL ARROW BOARDS ALONG OLD HICKORY BLVD. MAY BE TYPE B 60" X 30".
- (8) AGGREGATE SIZE MUST BE ONE OF THE APPROVED OPTIONS PROVIDED IN STANDARD DRAWING STD-10-2
- (9) ITEM TO BE USED FOR PERMENANT PAVEMENT MARKING PROPOSED ON CONCRETE OR EPOXY OVERLAYED SURFACES.
- (10) ITEM TO BE USED TO REPLACE PERMANENT PAVEMENT MARKINGS THAT CONFLICTED WITH TEMPORARY TRAFFIC CONTROL PAVEMENT MARKING LINES.
- (11) RIBBON METHOD OF APPLICALTION WILL NOT BE PERMITTED ON CONCRETE OR NEW EPOXY COATED ROADWAY SURFACES.
- (12) INCLUDES THE COST OF ANY TEMPORARY ADJUSTMENTS OF SIGNAL HEAD LOCATIONS
 AS DIRECTED BY THE ENGINEER DURING PHASED CONSTRUCTION
- (13) INCLUDES THE COST OF ANY AGGREGATE FOR COVER MATERIAL.

TYPE	YEAR	PROJECT NO.	NO.	
PS&E	2025	19S045-M3-005	2	

REV. 09/04/2025: UPDATED LUMP SUM ITEMS TO 0.34. REMOVED 402-02 AND ADDED FOOTNOTE TO 402-01

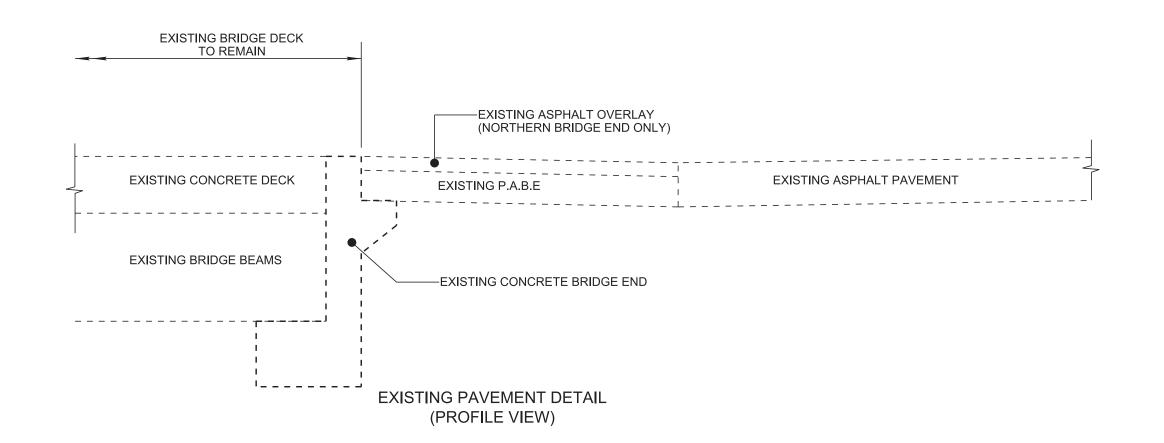


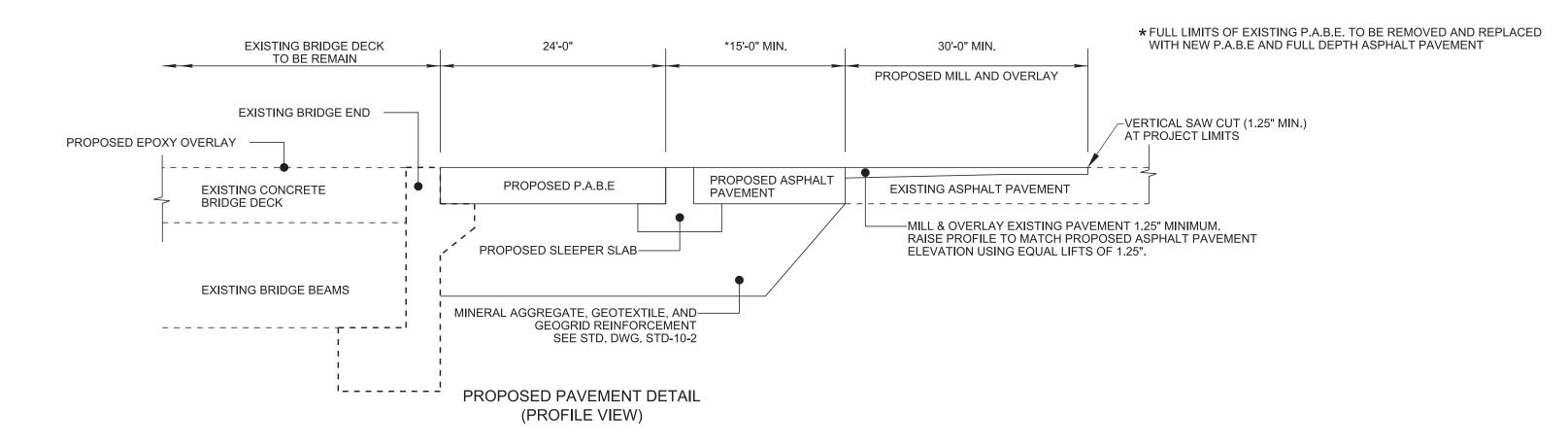
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	19S045-M3-005	2B

REV. 09/04/2025: REMOVED 402-02 FROM PRIME COAT LEGEND





PROPOSED PAVEMENT SCHEDULE

1 ASPHALTIC CONCRETE SURFACE (HOT MIX) PG70-22 GRADING "D" SURFACE @ 1.25" THICK (APPROX. 132.5 LB./S.Y.)

411-02.10 ACS MIX (PG70-22) GRADING "D"

- 1A ASPHALTIC CONCRETE SURFACE (HOT MIX) PG70-22
 GRADING "D" SURFACE @ VARIABLE THICKNESS
 (APPLIED IN EQUAL LIFTS OF 1.25")
 411-02.10 ACS MIX (PG70-22) GRADING "D"
- 2 COLD PLANING BITUMINOUS PAVEMENT
 MILLING @ 1.25" THICK
 415-01.02 COLD-PLANING BITUMINOUS PAVEMENT
- (3) TACK COAT

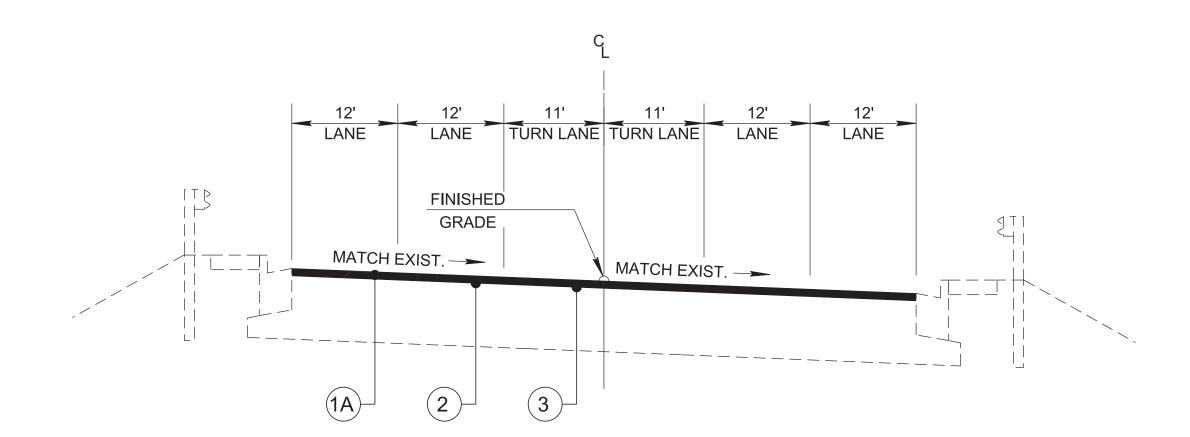
403-01 BITUMINOUS MATERIAL FOR TACK COAT (TC) SEE 403.05 FOR DETERMINING APPLICATION RATE IN THE FIELD

- (4) BITUMINOUS PLANT MIX BASE (HOT MIX) PG70-22
 GRADING "B-M2" @ 4.50" THICK (APPROX. 508.5 LB./S.Y.)
 (APPLIED IN TWO EQUAL LIFTS OF 2.25")
 307-02.08 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "B-M2"
- 5 BITUMINOUS PLANT MIX BASE (HOT MIX) PG70-22 GRADING "A" @ 6.25" THICK (APPROX. 718.75 LB./S.Y.) (APPLIED IN LIFTS OF 3" and 3.25")
 307-02.01 ASPHALT CONCRETE MIX (PG70-22) (BPMB-HM) GRADING "A"
- 6 PRIME COAT

402-01 BITUMINOUS MATERIAL FOR PRIME COAT (PC) AT 0.35 GALLONS/S.Y. AGGREGATE FOR COVER MATERIAL (PC) AT 12 LB./S.Y.

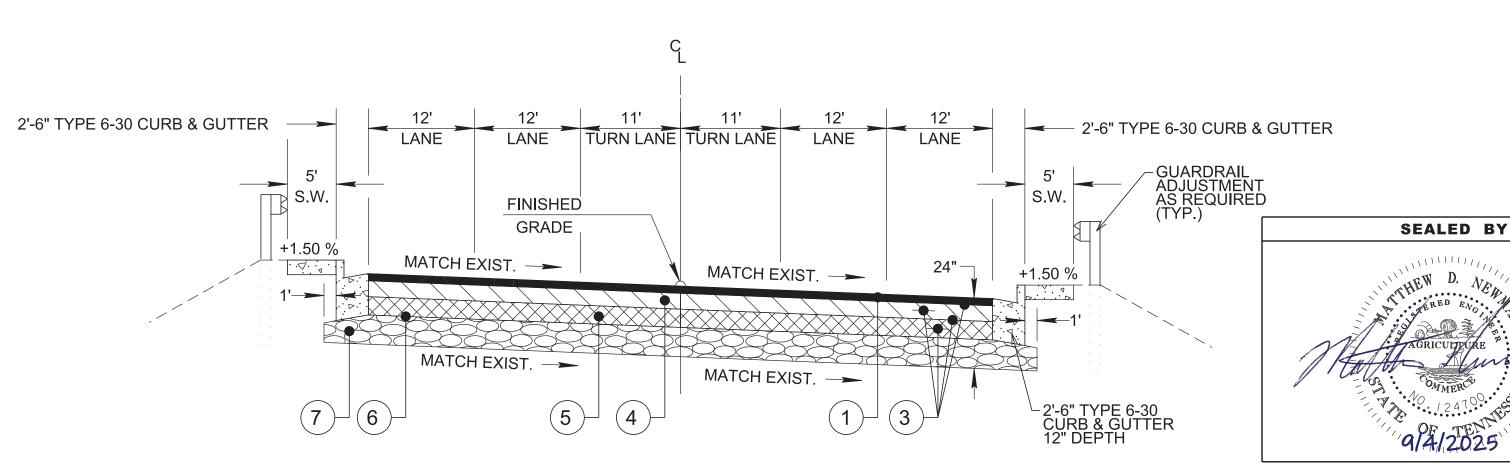
7) MINERAL AGGREGATE 12" THICK

303-01 MINERAL AGGREGATE, TYPE "A" BASE, GRADING "D"



SUPERELEVATED SECTION OLD HICKORY BLVD.

MILL AND OVERLAY



SUPERELEVATED SECTION OLD HICKORY BLVD.

FULL DEPTH PAVEMENT

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS AND
PAVEMENT
SCHEDULE

	TRAFFIC CONTROL QUANTITIES					
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY		
(6)	712-01	TRAFFIC CONTROL	LS	0.34		
(4)	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	140		
(4)	712-02.12	PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3)	L.F.	656		
(2)	712-02.60	TEMPORARY CRASH CUSHION (MASH TL-3)	EACH	2		
I	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	128		
	712-04.50	BARRIER RAIL DELINEATOR	EACH	2		
	712-05.01	WARNING LIGHTS (TYPE A)	EACH	8		
(3)	712-06	SIGNS (CONSTRUCTION)	S.F.	437		
Ī	712-07.02	TEMPORARY BARRICADES (TYPE II)	L.F.	72		
I	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	96		
(5)	712-08.03	ARROW BOARD (TYPE B)	EACH	6		
(1)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	8		
	716-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	L.F.	142		
ı	716-05.20	PAINTED PAVEMENT MARKING (6" LINE)	L.M.	1.8		

FOOTNOTES:

- (1) TO BE USED AS DIRECTED BY ENGINEER.
- (2) THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF AASHTO MASH FOR TEST LEVEL 3. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS SHOWN ON THE MANUFACTURER'S DRAWING.
- (3) SEE SHEET T2 FOR TRAFFIC CONTROL SIGN SCHEDULE, ADDITIONAL SIGNS INSTALLED AS DIRECTED BY THE ENGINEER SHALL BE PAID FOR AT THE UNIT COST FOR THIS ITEM.
- (4) NO BARRIER RAIL SHALL BE PLACED EARLIER THAN 10 DAYS BEFORE WORK IS TO BE DONE AT THAT LOCATION. IF NO WORK TAKES PLACE IN THE CONSTURCTION ZONE BEHIND BARRIER RAIL OVER 2 SUCCESSIVE WEEKS AND THE ENGINEERS DETERMINE THAT THE RAIL IS NOT WARRANTED, THE BARRIER RAIL MUST BE REMOVED AT THE CONTRACTORS EXPENSE AND A SAFE CONDITION CREATED.
- (5) ALL ARROW BOARDS ALONG OLD HICKORY BLVD. MAY BE TYPE B 60" X 30".
- (6) INCLUDES THE COST OF ANY TEMPORARY ADJUSTMENTS OF SIGNAL HEAD LOCATIONS AS DIRECTED BY THE ENGINEER DURING PHASED CONSTRUCTION

TRAFFIC CONTROL SIGNS				
M.U.T.C.D.				ITEM NO.
NO.	DESCRIPTION	SIZE	NO.	712-06
				(S.F.)
G20-2	END ROAD WORK	48" X 24"	2	16
M1-1.2	I-40	24" X 24"	4	16
M3-2	EAST	24" X 12"	2	4
M3-4	WEST	24" X 12"	2	4
M6-1	RIGHT ARROW	21" X 15"	4	9
R3-7R	RIGHT LANE MUST TURN RIGHT	36" X 36"	8	72
R3-7R (MOD)	TRUCKS MUST TURN RIGHT	36" X 36"	4	36
R9-9	SIDEWALK CLOSED	24" X 12"	8	16
R11-2	ROAD CLOSED	48" X 30"	4	40
W1-4R	REVERSE CURVE (RIGHT)	48" X 48"	2	32
W1-4L	REVERSE CURVE (LEFT)	48" X 48"	2	32
W4-3L	ADDED LANE	48" X 48"	2	32
W20-1	ROAD WORK AHEAD	48" X 48"	8	128
			TOTAL	437

PHASING NOTES

PHASE 1 - TRAFFIC CONTROL

- *WESTERN HALF OF OLD HICKORY BLVD BRIDGE AND P.A.B.E. CLOSED FOR REPAIRS.
- *SB AND NB TRAFFIC SHIFTED TO THE EAST SIDE OF THE OLD HIKCORY BLVD BRIDGE.
- *OLD HICKORY BLVD LANES REDUCED TO 1 NB / 1 SB / 1 MEDIAN TURN LANE (ALL 10' WIDE) ON BRIDGE.
- *DETOURS REQUIRED FOR WB I-40 TO SB OLD HICKORY BLVD AND EB I-40 TO NB OLD HICKORY BLVD (LARGE TRUCKS ONLY)

PHASE 2 - TRAFFIC CONTROL

- *EASTERN HALF OF OLD HICKORY BLVD BRIDGE AND P.A.B.E CLOSED FOR REPAIRS.
- *SB AND NB TRAFFIC SHIFTED TO THE WEST SIDE OF THE OLD HIKCORY BLVD BRIDGE.
- *OLD HICKORY BLVD LANES REDUCED TO 1 NB / 1 SB / 1 MEDIAN TURN LANE (ALL 10' WIDE) ON BRIDGE.
 *DETOURS REQUIRED FOR WB I-40 TO SB OLD HICKORY BLVD AND EB I-40 TO NB OLD HICKORY BLVD (LARGE TRUCKS ONLY)

GENERAL NOTES

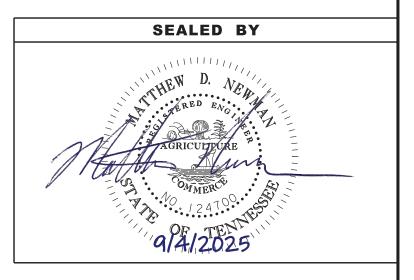
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*CONTRACT SHALL COORDINATE ACCESS WITH ADJACENT BUSINESS TO ENSURE AND MAINTAIN SUFFICIENT INGRESS AND EGRESS TO IMPACTED PROPERTIES DURING CONSTRUCTION.

TYPE	YEAR	PROJECT NO.	SHEET NO.	
PS&E	2025	19S045-M3-005	Т2	

REV. 09/04/2025: UPDATED LUMP SUM ITEMS TO 0.34



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
TRAFFIC
CONTROL
QUANTITIES

TOTAL LENGTH OF BRIDGE = 222'-10"

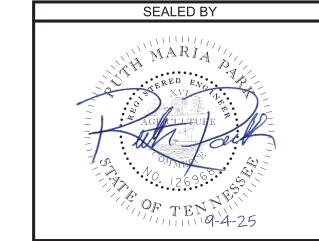
- 2. PROVIDE REQUIRED TRAFFIC CONTROL AND PHASED CONSTRUCTION TO MAINTAIN A MINIMUM OF ONE 12'-0" LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES ON THE EXISTING BRIDGE OF STATE ROUTE 45 AS DETAILED ON SHEET NOS. T1 THRU T6, AND BRIDGE DRAWING. NO. BR-132-845. ALL LANES OF I-40 ARE TO REMAIN FULLY OPERATIONAL FOR THE DURATION OF CONSTRUCTION OPERATIONS.
- 3. MILL AND REMOVE EXISTING 1 $\frac{1}{2}$ " +/- OF ASPHALT OVERLAY ON PORTIONS OF THE PAVEMENT AT BRIDGE ENDS (PABE) AT ABUTMENT NO. 1 AND FOR A 50 FT TRANSITION BEYOND THE PAVEMENT AT BRIDGE ENDS AT ABUTMENT NO. 1 AS DETAILED IN THE PLANS ON SHEET NOS. 2B AND 3. MILLING AND REMOVAL OF THE ASPHALT OVERLAY ON THE EXISTING PABE SHALL BE PERPENDICULAR TO THE ROADWAY ALIGNMENT AND STAIR-STEPPED TRANSVERSELY ACROSS THE BRIDGE ALONG THE SKEW. UNDER NO CIRCUMSTANCES SHALL MILLING BE PERMITTED ON ANY PORTION OF THE EXISTING BRIDGE DECK.

PIN NO.:	134893.00		
DESIGN BY:	R. PARK	DATE:	07/2025
DRAWN BY:	L. MENDEZ	DATE:	07/2025
SUPERVISED BY:	D. MCCRARY	DATE:	07/2025
CHECKED BY:	D. MCCRARY	DATE:	07/2025



- 5. REMOVE THE EXISTING PAVEMENT AT BRIDGE ENDS (PABE) AT BOTH ABUTMENTS NO. 1 AND NO.2 WITHIN THE LIMITS SHOWN AND THE PHASED CONSTRUCTION LIMITS AS DETAILED IN THE PLANS ON DRAWING NOS. BR-132-842 AND BR-132-845. THIS INCLUDES PORTIONS OF THE EXISTING SIDEWALKS ON TOP OF THE PABE, END OF BRIDGE DRAINS, ALL CONCRETE AND REINFORCING STEEL IN THE PABE SLAB AND FOOTING. JOINT MATERIAL, BACKFILL MATERIAL TO THE DEPTH DETAILED IN TDOT STANDARD DRAWING STD-10-2.
- 6. INSTALL WATERPROOF MEMBRANE TO THE BACK SIDE OF ABUTMENT 1. SEE DETAILS AND NOTES ON DWG.NO.BR-132-848.
- 7. SPOT CLEAN WITH MECHANICAL HAND AND POWER TOOLS AND SPOT PAINT RUSTED STRUCTURAL STEEL ON EAST FASCIA GIRDER A AT ABUTMENT 1. SEE DETAILS AND NOTES ON DWG. NO. BR-132-848.
- 8. CONSTRUCT NEW $4' \times 8'-7"$ BRIDGE END DRAINS AT ABUTMENT NO.1 AND NO.2 IN ACCORDANCE WITH TDOT STD.DWG.NOS.STD-1-6.STD-1-7 AND STD-1-9 WITHIN THE PHASED CONSTRUCTION LIMITS. SEE DETAILS AND NOTES ON NO. BR-132-842.

- BR-132-842 AND BR-132-845.
- 10. CONSTRUCT THE NEW SIDEWALK WITHIN THE LIMITS SHOWN AND THE PHASED CONSTRUCTION LIMITS. SEE DETAILS AND NOTES ON DRAWING NOS. BR-132-842 AND BR-132-845.
- 11. PERFORM PARTIAL AND FULL DEPTH DECK REPAIRS AND CONSTRUCT NEW THIN EPOXY OVERLAY OVER THE DECK AND NEW PABE (PER MANUFACTURER REQUIREMENTS) AS SHOWN IN THE DETAILS ON DWG. NOS. BR-132-846 AND BR-132-847.
- 12. REMOVE AND RESET THE EXISTING METAL GUARDRAIL AND ATTACHMENT AT THE BRIDGE ENDS AT ALL FOUR CORNERS OF THE EXISTING BRIDGES. FOR DETAILS, SEE SHEET 2B AND STANDARD S-GR-SERIES.
- 13. CONSTRUCT NEW ASPHALT TRANSITIONS AND RESTRIPE TO MATCH EXISTING. SEE DETAILS AND NOTES ON SHEET NO. 2B.



DEPARTMENT OF TRANSPORTATION LAYOUT OF BRIDGE TO BE REPAIRED OLD HICKORY BOULEVARD **OVER INTERSTATE 40 EAST** BR. NO. 19-SR045-17.92

STATE OF TENNESSEE

CONST. NO.:

PROJECT NO.

YEAR

SHEET NO.

FED. ID. NO. 19100400141 DAVIDSON COUNTY 2025

	ESTIMATED BRIDGE QUANTITIES				
	ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	
(1)	202-04.01	REMOVAL OF STRUCTURES (PAVEMENT AT BRIDGE ENDS)	LS	1	
(2)	603-02.20*	SPOT PAINTING EXISTING STEEL STRUCTURES	S.F	35	
(3)	604-02.03	EPOXY COATED REINFORCING STEEL	LB.	1114	
(4)(5)	604-03.01	CLASS A CONCRETE (BRIDGES)	C.Y	10	
(6)(7)	604-03.04	PAVEMENT @ BRIDGE ENDS	S.Y.	458	
(8)	604-04.04	BRIDGE END DRAINS (4'X8')	EACH	2	
(9)	604-10.14	REMOVE EXISTING WEARING SURFACE	LS	1	
(10)	604-10.30*	BRIDGE DECK REPAIRS (FULL DEPTH OF SLAB)	S.Y.	15	
(11)	604-10.50*	BRIDGE DECK REPAIRS (PARTIAL DEPTH OF SLAB)	S.Y.	15	
(12)	617-04.01	TYPE I THIN OVERLAY (EPOXY URETHANE)	S.Y.	2287	

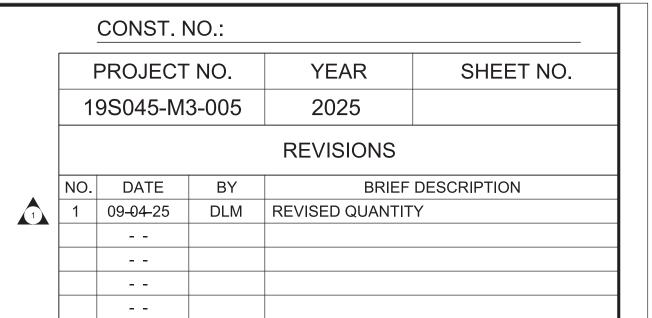
^{*} DENOTES: ITEM CAN BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER.

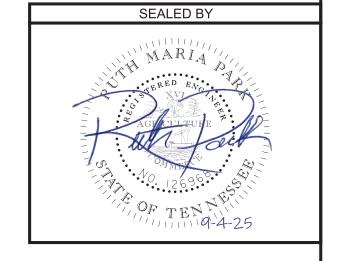
FOOTNOTES:

- (1) INCLUDES ALL COSTS ASSOCIATED WITH THE REMOVAL OF THE PAVEMENT AT BRIDGE ENDS AT ABUTMENTS NOS. 1 AND 2 INCLUDING THE SIDEWALK, AND EXISTING END DRAINS WITHIN THE LIMITS OF CONSTRUCTION.
- (2) INCLUDES ALL LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO CLEAN AND PAINT AREAS OF EXISTING STRUCTURAL STEEL AS INDICATED IN THE PLANS OR DESIGNATED BY THE ENGINEER. PAYMENT SHALL BE FULL COMPENSATION FOR OBTAINING ALL PERMITS AND APPROVALS. ALL SURFACE PREPARATION, CONTAINMENT, FURNISHING, AND APPLYING PAINT IS INCLUDED AND SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. AREAS TO BE SPOT CLEANED AND PAINTED TO BE MARKED AND QUANTIFIED FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING THE WORK. ITEM NO. 603-02.20 MAY BE INCREASED OR DECREASED AT THE DISCRETION OF THE ENGINEER. SEE. DWG. NO. BR-132-848.
- (3) INCLUDES ALL COSTS FOR PLACEMENT OF EPOXY COATED REINFORCING STEEL IN SIDEWALKS AS SHOWN ON DWG. NOS. BR-132-846 AND BR-132-849.
- (4) INCLUDES ALL COSTS FOR PLACEMENT OF CONCRETE SIDEWALK ON PAVEMENT AT BRIDGE ENDS. FOR DETAILS AND LOCATIONS, SEE DWG. NOS. BR-132-842 AND BR-132-846.
- (5) THE COST OF BITUMINOUS FIBERBOARD AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS. SEE DWG. NO. BR-132-836.
- (6) PRIOR TO CONSTRUCTION OF THE PAVEMENT AT BRIDGE ENDS, THE CONTRACTOR SHALL SUBMIT A PROPOSED BILL OF STEEL TO THE ENGINEER FOR APPROVAL. THIS SHALL INCLUDE THE COST OF LABOR AND MATERIALS ASSOCIATED WITH BACKFILL EXCAVATION AND PLACEMENT OF THE NEW PAVEMENT AT BRIDGE END. SEE STD-1-5 AND STD-10-2.
- (7) THE COST OF ALL LABOR AND MATERIAL FOR PLACING THE WATER PROOF MEMBRANE TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS. SEE DWG. NO. BR.-132-848 AND THE TDOT QUALIFIED PRODUCTS LIST 2
- (8) INCLUDES COST OF ALL LABOR AND MATERIALS REQUIRED TO INSTALL BRIDGE END DRAINS. SEE DWG. NO. BR-132-842, AND STANDARD DRAWINGS STD-1-6, STD-1-7, AND STD-1-9 FOR DETAILS.
- (9) INCLUDES COST OF ALL LABOR AND MATERIALS REQUIRED TO REMOVE AND DISPOSE OF THE EXISTING ASPHALT WEARING SURFACE ON THE PABE AT ABUTMENT NO. 1
- (10) INCLUDES COST OF ALL LABOR AND MATERIALS TO PERFORM FULL DEPTH DECK REPAIRS. CONTRACTOR SHALL TAKE EXTREME CAUTION TO AVOID DAMAGING STAY IN PLACE DECK FORMS. SEE DETAIL ON DWG. NO. BR-132-847.
- (11) INCLUDES COST OF ALL LABOR AND MATERIALS TO PERFORM PARTIAL DEPTH DECK REPAIRS. SEE DETAIL ON DWG. NO. BR-132-847.
- (12) INCLUDES COST OF ALL LABOR AND MATERIALS NECESSARY TO PLACE A TYPE I THIN OVERLAY (EPOXY-URETHANE) TO THE BRIDGE DECK. SEE NOTES ON DWG. NO. BR-132-847 AND THE TDOT QUALIFIED PRODUCTS LIST 23 SECTION 02.

PIN NO.:	134893.00		
DESIGN BY:	R. PARK	 DATE:	07/2025
DESIGN BT.	R. PARK	DATE.	0772023
DRAWN BY:	L. MENDEZ	DATE:	07/2025
SUPERVISED BY:_	D. MCCRARY	DATE:	07/2025
CHECKED BY:	D MCCRARY	DATE:	07/2025







DEPARTMENT OF TRANSPORTATION

ESTIMATED BRIDGE

QUANTITIES

OLD HICKORY BOULEVARD

OVER INTERSTATE 40 EAST

BR. NO. 19-SR045-17.92

STATE OF TENNESSEE

BR. NO. 19-SR045-17.92 FED. ID. NO. 19100400141 DAVIDSON COUNTY

2025

BR-132-843