



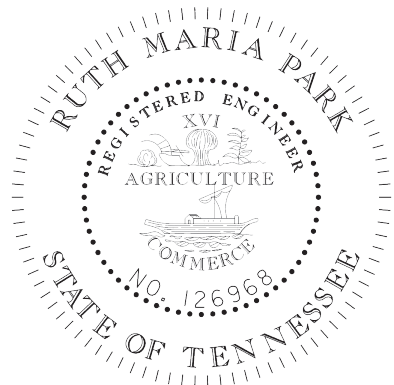
SHEET NAME	SHEET NO.
SIGNATURE SHEETS.....	ROADWAY-SIGN2
ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS.....	1A
ESTIMATED ROADWAY AND TABULATED QUANTITIES.....	2
TYPICAL SECTIONS AND PAVEMENT SCHEDULE	2B
TRAFFIC CONTROL PLANS	T2
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USED IN THE NUMBERING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

YEAR	PROJECT NO.	SHEET NO.
2025	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'

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

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 IN THE NUMBERING OF SHEETS.	

STANDARD ROADWAY DRAWINGS

DWG.	REV.	DESCRIPTION
10-100.00 STANDARD ROADWAY TITLE SHEET, ABBREVIATIONS, AND LEGENDS		
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 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 ROADWAY, PAVEMENT APPURTENANCES, AND FENCES		
RP-VC-10	03-04-21	VERTICAL CONCRETE CURB AND CURB AND GUTTER (FOR 8” TO 12” GUTTER DEPTH)
10-105.00 MULTIMODAL		
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 PREVENTION AND SEDIMENT CONTROL		
EC-STR-8	06-10-14	FILTER SOCK
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

SEALED BY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX
AND
STANDARD
ROADWAY
DRAWINGS

(1)	(1) (2)	(8)	(13)	(3)	(12)	(6)	(6)	(4)	(5)	(7)	(1)	(10)	(10)	(10)(11)	(10)(11)	(9)(11)	(10)(11)	(1) (2)	(1) (2)	(1) (2)
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TO BE USED AS DIRECTED BY ENGINEER.
SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE
REPLACEMENT

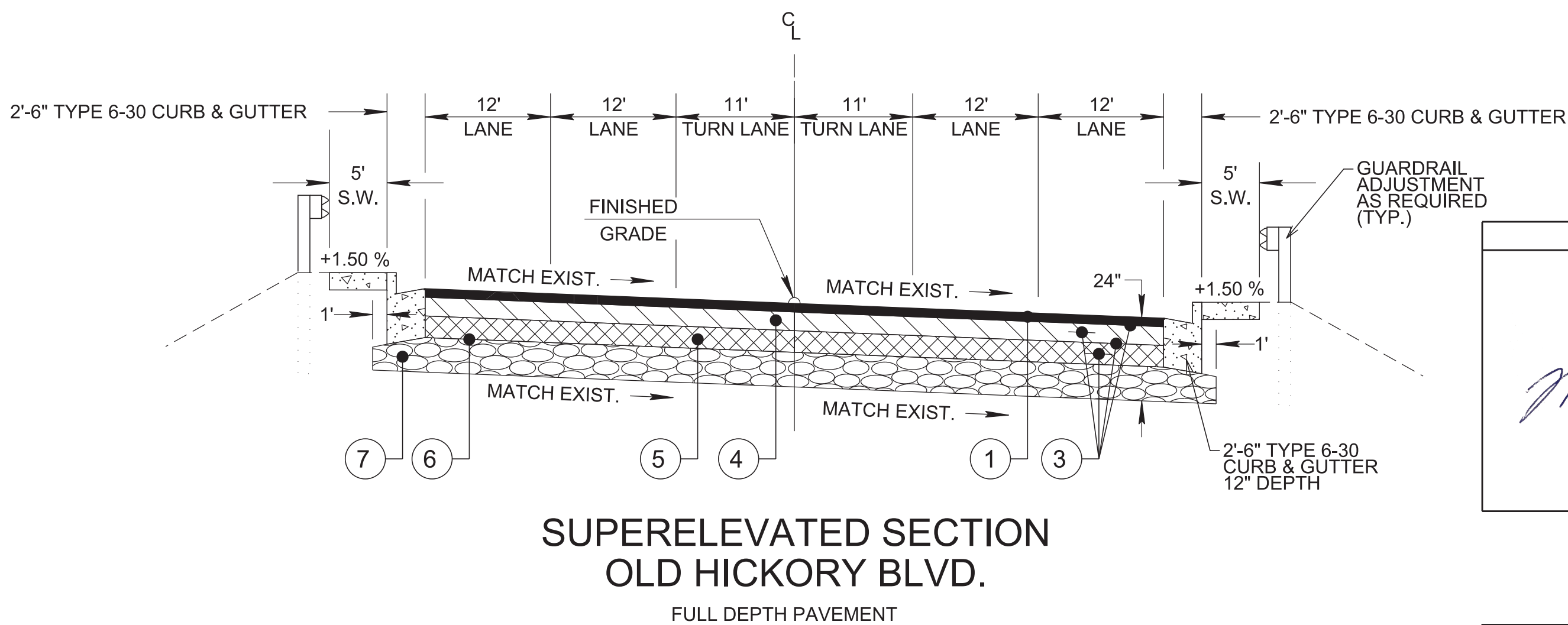
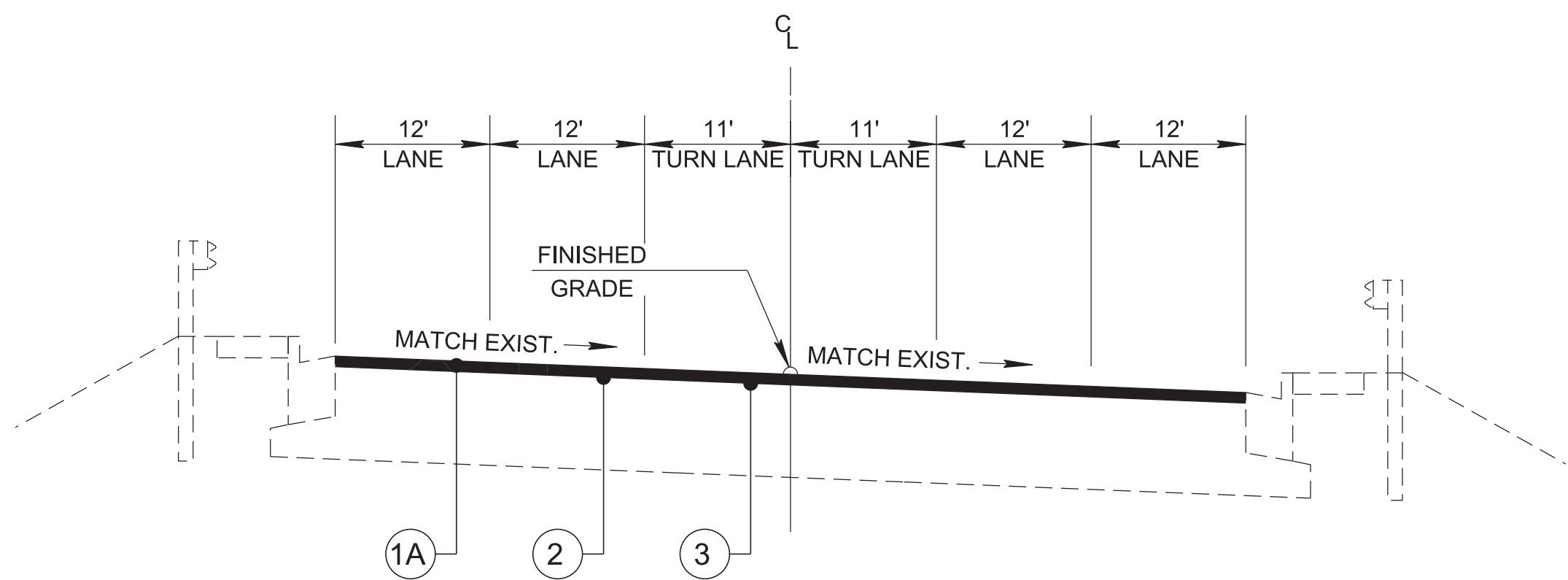
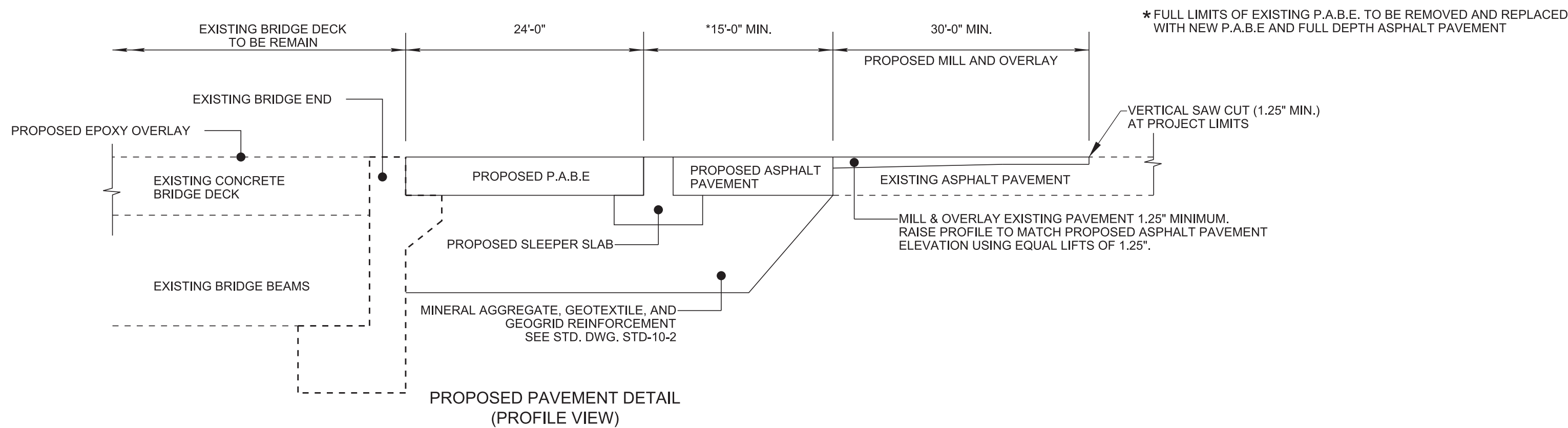
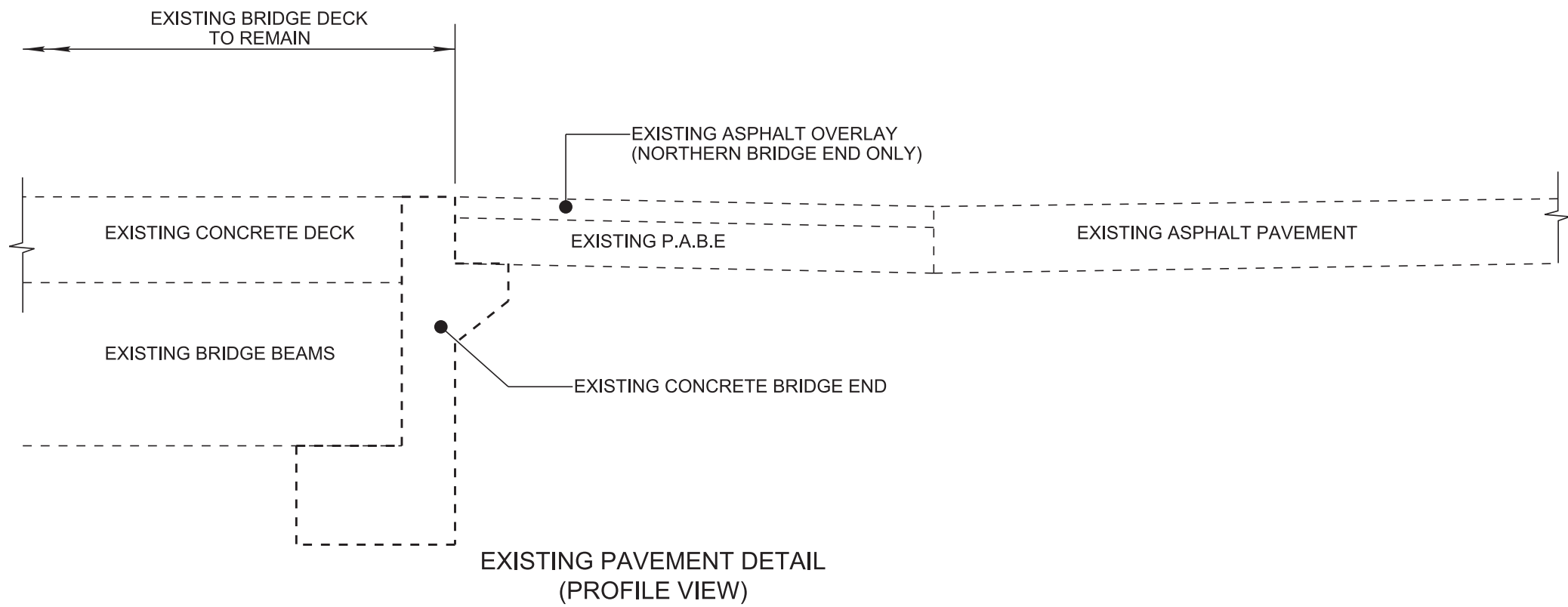
- (12) INCLUDES THE COST OF ANY TEMPORARY ADJUSTMENTS OF SIGNAL HEAD LOCATIONS
AS DIRECTED BY THE ENGINEER DURING PHASED CONSTRUCTION
- (13) INCLUDES THE COST OF ANY AGGREGATE FOR COVER MATERIAL.

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

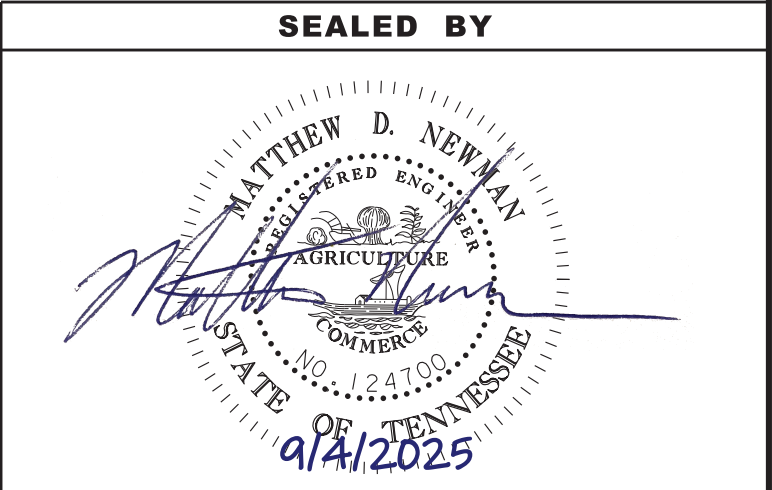
ESTIMATED QUANTITIES

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-PANING 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"



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TYPICAL
SECTIONS AND
PAVEMENT
SCHEDULE

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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
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
712-07.02	TEMPORARY BARRICADES (TYPE II)	L.F.	72
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
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 SUCESSIVE 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. NO.	DESCRIPTION	SIZE	NO.	ITEM 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

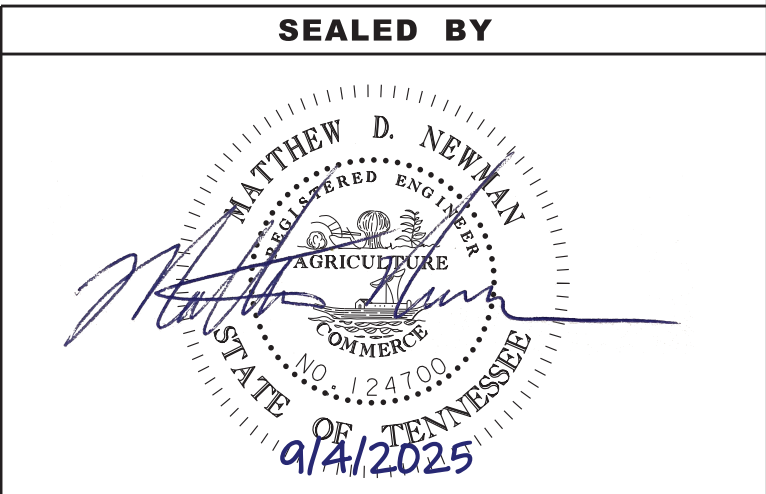
- *EASTERN HALF OF OLD HICKORY BLVD BRIDGE AND P.A.B.E CLOSED FOR REPAIRS.
- *SB AND NB TRAFFIC SHIFTED TO THE WEST SIDE OF THE OLD HIKCORY BLVD BRIDGE.
- *OLD HICKORY BLVD LANES REDUCED TO 1 NB / 1 SB / 1 MEDIAN TURN LANE (ALL 10' WIDE) ON BRIDGE.
- *DETOURS REQUIRED FOR WB I-40 TO SB OLD HICKORY BLVD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

GENERAL NOTES

- *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	T2

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



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TABULATED
TRAFFIC
CONTROL
QUANTITIES

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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)

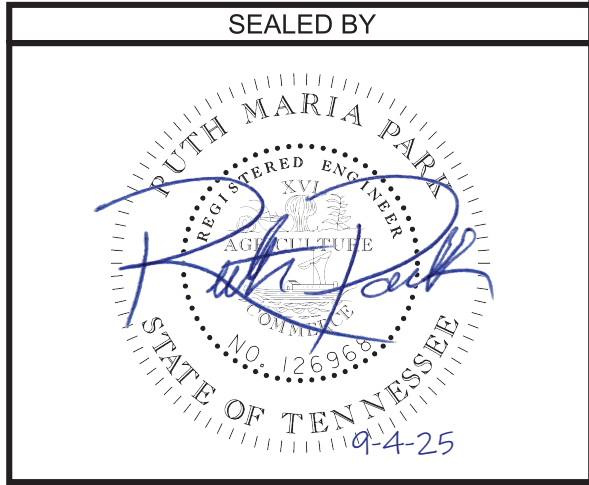
INCLUDES COST OF ALL LABOR AND MATERIALS NECESSARY TO PLACE A TYPE I THIN OVERLAY (EPOXY-URETHANE) TO THE BRIDGE DECK. SEE NOTES ON DWG. NO. BR-132-847 AND THE TDOT QUALIFIED PRODUCTS LIST 23 SECTION 02.

PIN NO.:	134893.00	DATE:	07/2025
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



CONST. NO.:

PROJECT NO.		YEAR	SHEET NO.
19S045-M3-005		2025	
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	09-04-25	DLM	REVISED QUANTITY
	- -		
	- -		
	- -		
	- -		



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
ESTIMATED BRIDGE
QUANTITIES
OLD HICKORY BOULEVARD
OVER INTERSTATE 40 EAST
BR. NO. 19-SR045-17.92
FED. ID. NO. 19I00400141
DAVIDSON COUNTY
2025