

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.

YEAR	PROJECT NO.	SHEET NO.
2025	19I040-M3-015	ROADWAY-SIGN1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SIGNATURE SHEET



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

Ruth Park

2025.07.18 09:20:53 -05'00'

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GRESHAM SMITH 222 2ND AVE SOUTH NASHVILLE, TN 37201 RUTH PARK, P.E., P.E. NO. 126968

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
LAYOUT OF BRIDGE TO BE REPAIRED	BR-132-831
ESTIMATED BRIDGE QUANTITIES	BR-132-832
BRIDGE GENERAL NOTES	BR-132-833
SUPERSTRUCTURE REPAIR DETAILS	BR-132-834
SUPERSTRUCTURE REPAIR DETAILS	BR-132-835
BENT DETAILS	BR-132-836
MISCELLANEOUS REPAIR DETAILS	BR-132-837
MISCELLANEOUS REPAIR DETAILS	BR-132-838

YEAR	PROJECT NO.	SHEET NO.
2025	19I040-M3-015	BRIDGE - SIGN 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

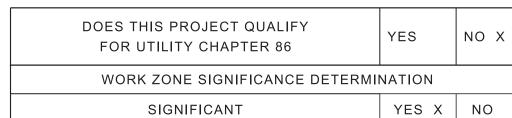
SIGNATURE SHEET Index Of Sheets SEE SHEET NO. 1A

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BUREAU OF ENGINEERING

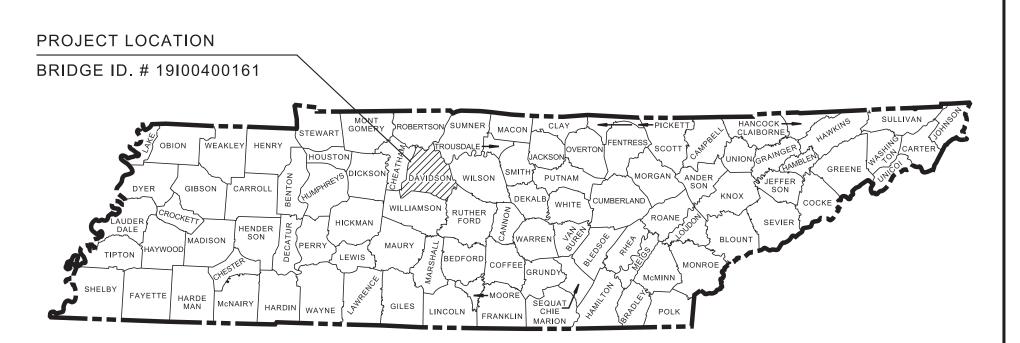
DAVIDSON COUNTY

EXIT 221 A RAMP OVER I-40 (LOG MILE 29.02)

PS&E BRIDGE REPAIR



	TENN.		YEAR	SHEET NO.
_	I EININ.	2025	1	
		FED. AID PROJ. NO.		
		STATE PROJ. NO.	19I040-M3-015	



MT. J

BEGIN PROJECT NO. 191040-M3-015 PS&E

END PROJECT NO. 19I040-M3-015 PS&E

STA. 82+72.27

STA. 86+12.31

N 668947.1681 E 1789477.5369

N 668627.3737 E 1789416.8417

265

3000 6000 12000

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 REPAIR OFFICE DESIGN MANAGER: JOSEPH BENDER, P.E.

DESIGNED BY: GRESHAM SMITH

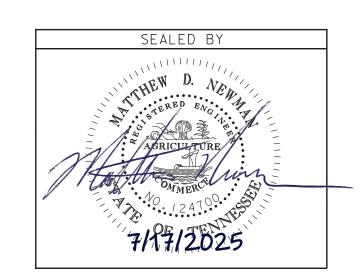
DESIGNER: RUTH PARK, P.E. CHECKED BY DONALD MCCRARY, P.E.

P.E. NO. <u>191040-M3-015</u> PIN NO. <u>133533.00</u> ROADWAY LENGTH BRIDGE LENGTH PROJECT LENGTH 0.011 MILES 0.053 MILES 0.064 MILES NO EXCLUSIONS

LAND DISTURBANCE LESS THAN 1 ACRE

ROAD TO BE CLOSED
DURING CONSTRUCTION

THIS PROJECT WILL
BE BUNDLED WITH
PIN 134893.00
AND PIN 113872.01



APPROVED:

WILL REID, CHIEF ENGINEER

COMMISSIONER

DATE:

WILL REID,

TRAFFIC DATA (RAMP EXIT 221A)

ADT (2024) 20,157

45 MPH

POSTED SPEED

TRAFFIC DATA	A (I-40)
ADT (2024)	106,460
POSTED SPEED	70 MPH

TYPE YEAR PROJECT NO. SHEET NO. PS&E 2025 191040-M3-015 1A

ROADWAY INDEX

NUMBERING OF SHEETS.

SHEET NAME	SHEET NO.
SIGNATURE SHEETS	ROADWAY-SIGN1
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 AND EPSC NOTES	2E-2E1
PRESENT / PROPOSED & EROSION CONTROL PLANS	3
TRAFFIC CONTROL PLANS	T1-T8B
BRIDGE PLANS	B-1
NOTE: THE ALPHABETICAL LETTERS "I", "O" & "Q" ARE NOT USE	D 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	ROADWAY	Y DESIGN STANDARD
RD11-TS-5B		DESIGN STANDARDS FOR FREEWAYS WITH MEDIAN BARRIER (4 AND 6 LANE)
10-107.00	EROSION	I PREVENTION AND SEDIMENT CONTROL
EC-STR-37	06-10-14	SEDIMENT TUBE

	DWG.	REV.	DESCRIPTION
5,	10-204.00	DESIGN -	TRAFFIC CONTROL
	T-M-1	01-24-25	DETAILS OF PAVEMENT MARKINGS FOR CONVENTIONAL ROADS AND MARKING ABBREVIATIONS
	T-M-5	01-24-25	MARKING DETAIL FOR EXPRESSWAY AND FREEWAYS
	T-M-6	01-24-25	MARKING DETAIL FOR EXPRESSWAY AND FREEWAY INTERCHANGES
	T-M-7	01-24-25	GORE MARKINGS DETAILS FOR EXPRESSWAY & FREEWAY INTERCHANGES
	T-M-8	01-24-25	MARKING DETAILS FOR EXPRESSWAYS & FREEWAYS
	T-WZ-10	04-02-12	ADVANCE ROAD WORK SIGNING ON HIGHWAYS AND FREEWAYS
	T-WZ-11	03-04-21	ONE LANE CLOSURE DETAIL ON DIVIDED HIGHWAYS
	T-WZ-12	03-04-21	ONE LANE CLOSURE DETAIL FOR BRIDGES ON DIVIDED HIGHWAYS
	T-WZ-16	07-30-24	LANE SHIFT FOR DIVIDED HIGHWAYS AND FREEWAYS
	T-WZ-18	07-07-23	SHOULDER CLOSURE DETAIL FOR FREEWAYS AND DIVIDED HIGHWAYS
	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

STANDARD TRAFFIC DESIGN DRAWINGS

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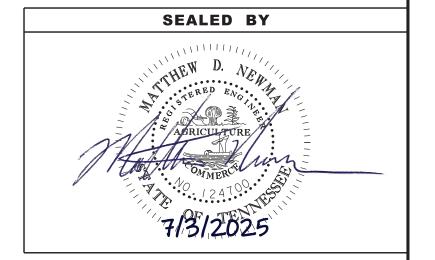
7/3/2025

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

ROADWAY INDEX AND STANDARD ROADWAY DRAWINGS

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	19I040-M3-015	1B
		_	·

PROJECT COMMITMENTS					
COMMITMENT ID	SOURCE DIVISON	DESCRIPTION	STA. / LOCATION		
EDHZ001	ENVIRONMENTAL DIVISION, HAZARDOUS MATERIALS	AN ASBESTOS CONTAINING MATERIAL (ACM) SURVEY WAS COMPLTETED ON BRIDGE NO.19100400161 RAMP M OVER I-40 LM 29.02. NO ASBESTOS WAS DETECTED. PLEASE SEE THE REPORT FOR FURTHER DETAILS AND PHOTOGRAPHS. NO SPECIAL ACCOMMODATIONS FOR DEMOLITION AND WASTE DISPOSAL ARE ANTICIPATED FOR THESE STRUCTURES AND THE MATERIAL CAN BE DEPOSITED IN A C&D LANDFILL. PRIOR TO THE DEMOLITION OR REHABILITATION OF ANY STRUCTURE (BRIDGE OR BUILDING), THE CONTRACTOR IS REQUIRED TO SUBMIT THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS STANDARD 10 DAY NOTICE OF DEMOLITION TO THE TDEC DIVISION OF AIR POLLUTION CONTROL (STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (JANUARY 1, 2021) SECTIONS 107.08D AND 202.03).	BRIDGE NO.19100400161		



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

PROJECT COMMITMENTS

		ESTIMATED ROADWAY QUANTITIES		
	ITEM NO.	DESCRIPTION	UNIT	191040-M3-015 QUANTITY
	209-05	SEDIMENT REMOVAL	C.Y.	2
	712-01	TRAFFIC CONTROL	LS	0.33
(4)	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	2004
(4)	712-02.12	PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3)	L.F.	735
(2)	712-02.60	TEMPORARY WORK ZONE CRASH CUSHION (MASH TL-3)	EACH	2
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	330
	712-04.50	BARRIER RAIL DELINEATOR	EACH	137
(3)	712-06	SIGNS (CONSTRUCTION)	S.F.	1684
	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	40
	712-08.03	ARROW BOARD (TYPE C)	EACH	13
(1)	712-08.09	DIGITAL SPEED LIMIT SIGN ASSEMBLY	EACH	4
(1)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	6
(8)	716-02.07	PLASTIC PAVEMENT MARKING (24" BARRIER LINE)	L.F.	40
(6)	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	31064
(7)	716-09.86	CONTRAST PAVEMENT MARKING 6"	L.M.	0.1
(8)	716-12.02	ENHANCED FLATLINE THERMO PVMT MARKNG (6IN LINE)	L.M.	0.7
(8)	716-12.03	ENHANCED FLATLINE THERMO PVMT MARKNG (8IN BARRIER LINE)	L.F.	215
	717-01	MOBILIZATION	LS	0.33
(1) (5)	740-11.04	TEMPORARY SEDIMENT TUBE 20IN	L.F.	160
(1) (5)	801-01	SEEDING (WITH MULCH)	UNIT	5

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 THIS SHEET FOR TRAFFINC 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) SEE SUBSECTION 209.07 OF THE STANDARD SPECIFICATIONS FOR MAINTENANCE REPLACEMENT
- (6) ASSUMES 1 APPLICATION PER PHASE.
- (7) RIBBON METHOD OF APPLICALTION WILL NOT BE PERMITTED ON CONCRETE OR NEW EPOXY COATED ROADWAY SURFACES.
- (8) ITEM TO BE USED TO REPLACE PERMANENT PAVEMENT MARKINGS THAT CONFLICTED WITH TEMPORARY TRAFFIC CONTROL PAVEMENT MARKING LINES.

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	19I040-M3-015	2

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10. 12470.

12470.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED QUANTITIES

				TYPE YEAR	PROJECT NO.
				PS&E 2025	19I040-M3-015
	6' 24'	12'			
	6' 24' EXIST. EXIST.	12' EXIST.			
	6' 24' EXIST. EXIST. SHLD. TRAVEL LANES	> <			
		EXIST. SHLD.			

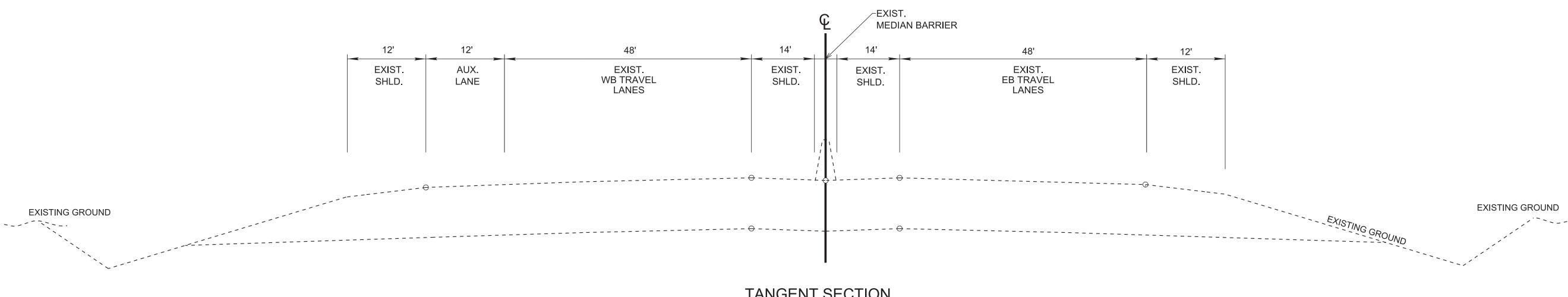
EXISTING GROUND

SUPERELEVATED SECTION

(BASED ON STD. DWG. RD01-TS-4)

EXIT 221A RAMP

(NOTE: NO PROPOSED PAVING ANTICIPATED IN THIS CONTRACT)

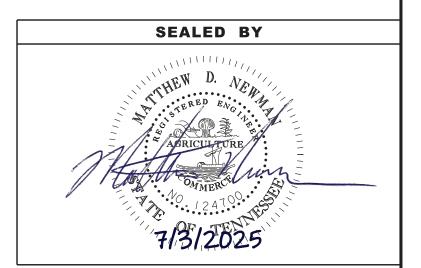


TANGENT SECTION

(BASED ON STD. DWG. RD11-TS-5B) (MODIFIED)

INTERSTATE 40

(NOTE: NO PROPOSED PAVING ANTICIPATED IN THIS CONTRACT)



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

> **TYPICAL** SECTIONS AND PAVEMENT SCHEDULE

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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.
- (2) CERTIFICATION FOR ALL BORROW PITS MUST BE OBTAINED IN ACCORDANCE WITH SUBSECTION 107.06 OF THE STANDARD SPECIFICATIONS.
- (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

(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.

ROAD CLOSURE

(1) NO LESS THAN SEVEN (7) DAYS PRIOR TO THE CLOSURE OF THE ROAD, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING INDIVIDUALS OR AGENCIES COMPLETELY DESCRIBING THE AFFECTED ROADS AND THE APPROXIMATE DURATION OF THE CONSTRUCTION: THESE PARTIES INCLUDE, BUT ARE NOT LIMITED TO: (1) LOCAL LAW ENFORCEMENT OFFICE, (2) LOCAL FIRE DEPARTMENT, (3) AMBULANCE SERVICE, (4) LOCAL SCHOOL SUPERINTENDENT, (5) UNITED STATES POSTAL SERVICE, AND (6) LOCAL ROAD SUPERINTENDENT.

PAVEMENT MARKINGS

FINAL PAVEMENT MARKING

- (8) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 6" ENHANCED FLATLINE THERMOPLASTIC 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. 716-12.02, ENHANCED FLATLINE THERMO PVMT MRKNG (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.
- (9) PERMANENT PAVEMENT LINE MARKINGS SHALL BE 8" ENHANCED FLATLINE THERMOPLASTIC 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. 716-12.03, ENHANCED FLATLINE THERMO PVMT MRKNG (8IN BARRIER LINE), L.F. 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.

DETOURS, LANE SHIFTS AND MEDIAN CROSS-OVERS

- (16) THE PAVEMENT MARKING ON THE LANE SHIFTS AND LANE CLOSURES FOR EDGE AND LANE LINES WILL BE INSTALLED AND MAINTAINED TO THE SAME STANDARDS AS FOR PERMANENT MARKINGS ON THE MAIN ROADWAY. THESE MARKINGS SHALL BE IN PLACE PRIOR TO ALLOWING TRAFFIC ONTO THE PAVEMENT. THESE PAVEMENT MARKINGS WILL BE MEASURED AND PAID FOR UNDER ITEM NO. 716-05.02, L.F.
- 18) BEFORE OPENING THE LANE SHIFTS AND CLOSURES TO TRAFFIC, THE TRANSITIONAL MARKINGS ON THE EXISTING ROADWAY MUST BE IN PLACE. ALL EXISTING MARKINGS IN THE AREA OF THESE TRANSITIONAL MARKINGS SHALL BE OBLITERATED AND ALL EXISTING RAISED PAVEMENT MARKERS SHALL BE REMOVED TO ELIMINATE CONFLICTING MARKINGS. REMOVAL OF THE EXISTING CONFLICTING MARKINGS AND RAISED PAVEMENT MARKERS WILL NOT BE MEASURED AND PAID FOR DIRECTLY, BUT THE

COST WILL BE INCLUDED IN ITEM NO. 712-01, TRAFFIC CONTROL, LUMP

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.
- 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.
- 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.
- (7) ALL DETOUR AND CONSTRUCTION SIGNING SHALL BE IN STRICT ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 8) ALL DETOURS SHALL BE PAVED, STRIPED, SIGNED, AND FLEXIBLE DRUMS ARE TO BE IN PLACE BEFORE IT IS OPENED TO TRAFFIC.
- (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.

TYPE	YEAR	PROJECT NO.	SHEET NO.	
PS&E	2025	19I040-M3-015	2C	
				1

SEALED BY

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AGRICULTURE

7/3/2025

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SPECIAL NOTES

DEMOLITION

DEMOLITION, REPAIR, OR REHABILITATION OF BRIDGES

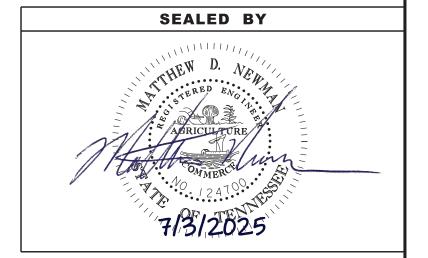
- (1) THE CONTRACTOR SHALL VERIFY THAT AN ASBESTOS SURVEY HAS BEEN COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATIONS ACTIVITIES (NOT INCLUDING ASPHALT MILLING OR OVERLAY).
- (2) ASBESTOS-CONTAINING MATERIALS (ACM) ABATEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE COMPLETED PRIOR TO ANY DEMOLITION, REPAIR OR REHABILITATION OF BRIDGE(S). ABATEMENT SHOULD BE ACCOMPLISHED PER SP202ACM SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS-CONTAINING MATERIALS. STATE OF TENNESSEE ASBESTOS ACCREDITATION REQUIREMENTS (TCA 1200-01-20) MANDATE THAT ACM ABATEMENT WORK BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS.
- (3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A NOTICE TO THE TDEC, DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS IN ADVANCE OF ANY ACM ABATEMENT, DEMOLITION, OR MAJOR REPAIR INVOLVING THE REMOVAL/REPLACEMENT OF A STRUCTURAL COMPONENT.

PAVEMENT MARKINGS

FINAL PAVEMENT MARKING

(1) PERMANENT PAVEMENT LINE MARKINGS ON CONCRETE OR EPOXY SURFACES SHALL BE 6" CONTRAST PAVEMENT MARKING 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. 716-09.86, CONTRAST PAVEMENT MARKING 6", 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.

TYPE	YEAR	PROJECT NO.	SHEET NO.	
PS&E	2025	19I040-M3-015	2D	



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.

SUPPORT ACTIVITIES

(18) MATERIALS AND STAGING AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY ENVIRONMENTAL PERMITS, OBTAINED SOLELY BY THE CONTRACTOR. THE CONTRACTOR SHALL REVIEW ALL EXISTING PERMITS TO ENSURE THAT WORK AT PERMITTED SITES DOES NOT EXCEED EXPIRATION DATES. IF WORK IS GOING TO BE CONTINUED AFTER EXPIRATION DATES, THE CONTRACTOR SHALL CONTACT THE TDOT PROJECT RESPONSIBLE PARTY TO COMMENCE PERMIT RENEWAL PROCESS.

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 PRE-CONSTRUCTION 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.
-) 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.

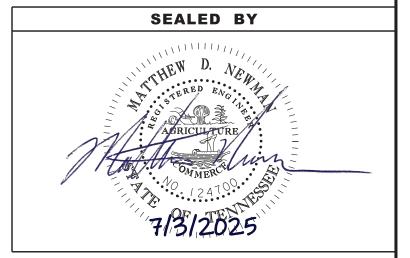
PROJECT COMMITMENTS

(5) SEE PROJECT COMMITMENTS, SHEET 1B, FOR DETAILS RELATING TO SPECIAL ENVIRONMENTAL COMMITMENTS REQUIRED BY THIS PROJECT.

SCOPE OF WORK

(6) PROPOSED BRIDGE BEAM STIFFENERS, THIN LIFT EPOXY OVERLAY.

TYPE	YEAR	PROJECT NO.	SHEET NO.	
PS&E	2025	19I040-M3-015	2E	



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL NOTES

ENVIRONMENTAL 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.

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PS&E	2025	19I040-M3-015	2E1

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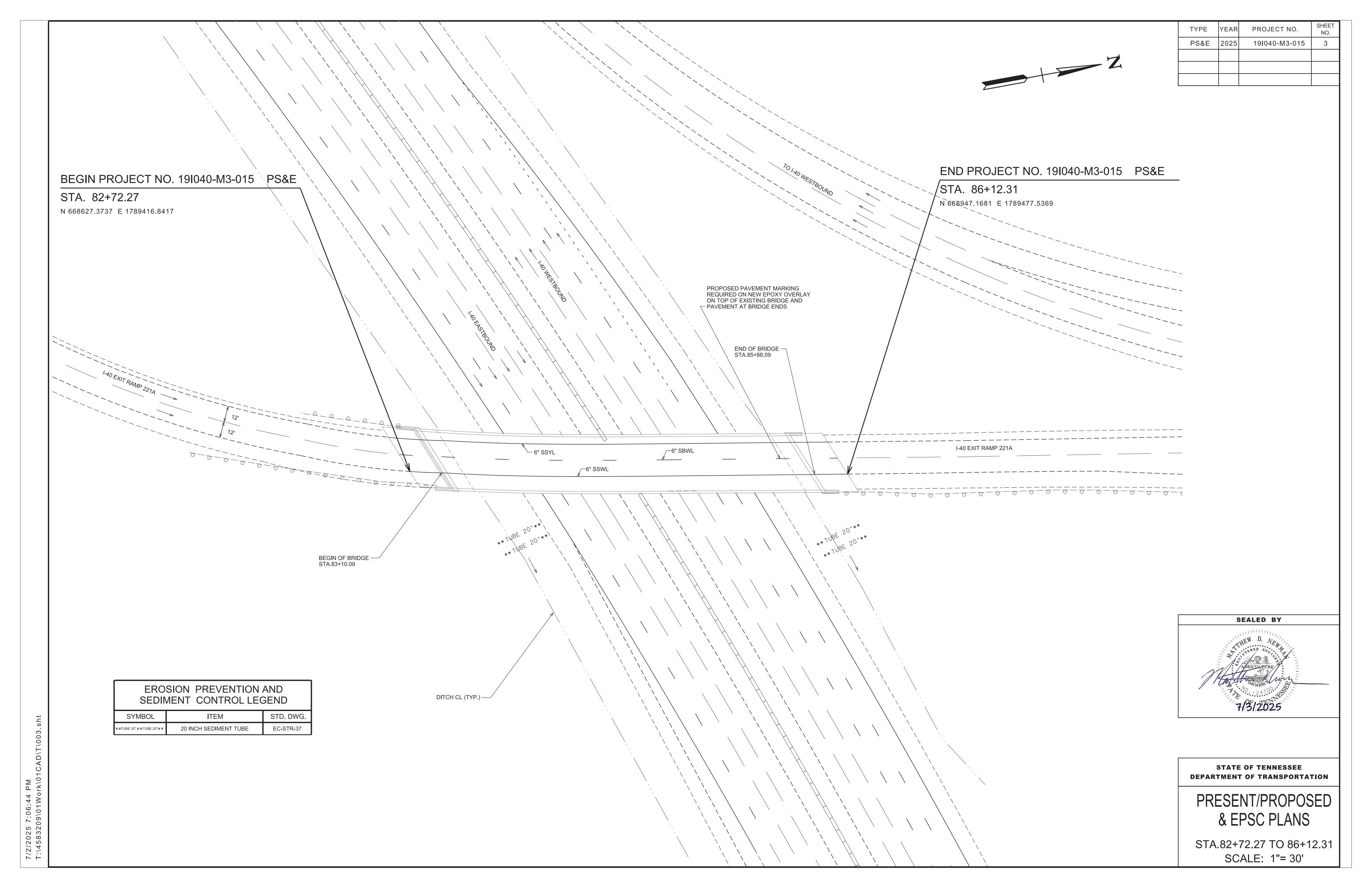
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ENVIRONMENTAL NOTES



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.
 - 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.
- 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 SIX 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.

IF THE DIFFERENCE IN ELEVATION IS WITHIN 30 FEET OF THE		
NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY	<u> </u>	
GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES,		

 IF THE DIFFERENCE IN ELEVATION IS WITHIN 8 FEET OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 3/4 INCH AND NOT EXCEEDING 2 INCHES.

B.

UNDERCUTTING, ETC.:

- 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.
- 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:
 - 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.
- 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.

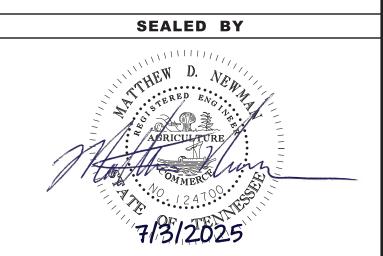
THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 8 FEET OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE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



YEAR

2025

PS&E

PROJECT NO.

19I040-M3-015

T1

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE DROP-OFF NOTES FOR TRAFFIC CONTROL

		TRAFFIC CONTROL QUANTITIES		
	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
	712-01	TRAFFIC CONTROL	LS	0.33
(4)	712-02.10	PORTABLE BARRIER RAIL (MASH TL-3)	L.F.	2004
(4)	712-02.12	PORTABLE BARRIER RAIL, REDUCED DEFLECTION (MASH TL-3)	L.F.	735
(2)	712-02.60	TEMPORARY CRASH CUSHION (MASH TL-3)	EACH	2
	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	330
	712-04.50	BARRIER RAIL DELINEATOR	EACH	137
(3)		SIGNS (CONSTRUCTION)	S.F.	1684
		TEMPORARY BARRICADES (TYPE III)	L.F.	40
	712-08.03	ARROW BOARD (TYPE C)	EACH	13
(1)	712-08.09	DIGITAL SPEED LIMIT SIGN ASSEMBLY	EACH	4
(1)	713-16.01	CHANGEABLE MESSAGE SIGN UNIT	EACH	6
(5)	716-05.02	PAINTED PAVEMENT MARKING (8" BARRIER LINE)	L.F.	31064

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 THIS SHEET FOR TRAFFINC 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) ASSUMES 1 APPLICATION PER PHASE.

	TRAFFIC CONTRO	L SIGNS		
M.U.T.C.D.				ITEM NO.
NO.	DESCRIPTION	SIZE	NO.	712-06
				(S.F.)
G20-2	END ROAD WORK	48" X 24"	16	128
M1-1	EXIT NUMBER	24" X 24"	2	8
M4-8	DETOUR	24" X 12"	2	4
M6-1L	LEFT	21" X 15"	1	2
M5-1L	ADVANCE TURN (LEFT)	21" X 15"	1	2
R11-2	ROAD CLOSED	48" X 30"	1	10
W1-4BL	DOUBLE REVERSE CURVE (LEFT)	48" X 48"	4	64
W1-4BR	DOUBLE REVERSE CURVE (RIGHT)	48" X 48"	4	64
W4-1	MERGE	48" X 48"	2	32
W4-2LC	LANE ENDS (LEFT)	48" X 48"	12	192
W20-1	ROAD WORK AHEAD	48" X 48"	24	384
W20-1M	ROAD WORK 1/2 MILE	48" X 48"	4	64
W20-1M	ROAD WORK 1 MILE	48" x 48"	2	32
W20-5AL	2 LEFT LANES CLOSED AHEAD	48" x 48"	8	128
W20-5LF	LEFT LANE CLOSED 1000 FT	48" x 48"	8	128
W20-5LF	LEFT LANE CLOSED 1500 FT	48" X 48"	12	192
W20-5LM	LEFT LANE CLOSED 1/2 MILE	48" X 48"	12	192
W21-5AR	RIGHT SHOULDER CLOSED	48" X 48"	3	48
W21-5BR	RIGHT SHOULDER CLOSED 1500 FEET	30" X 24"	2	10
			TOTAL	1684

TYPE	YEAR	PROJECT NO.	SHEET NO.
PS&E	2025	19I040-M3-015	T2

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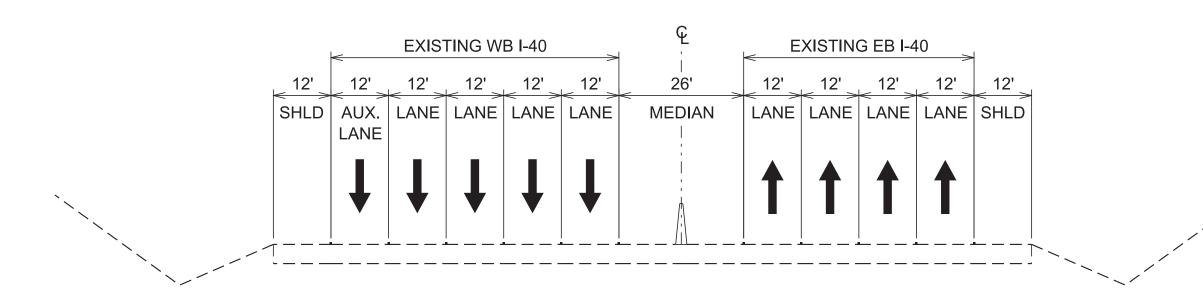
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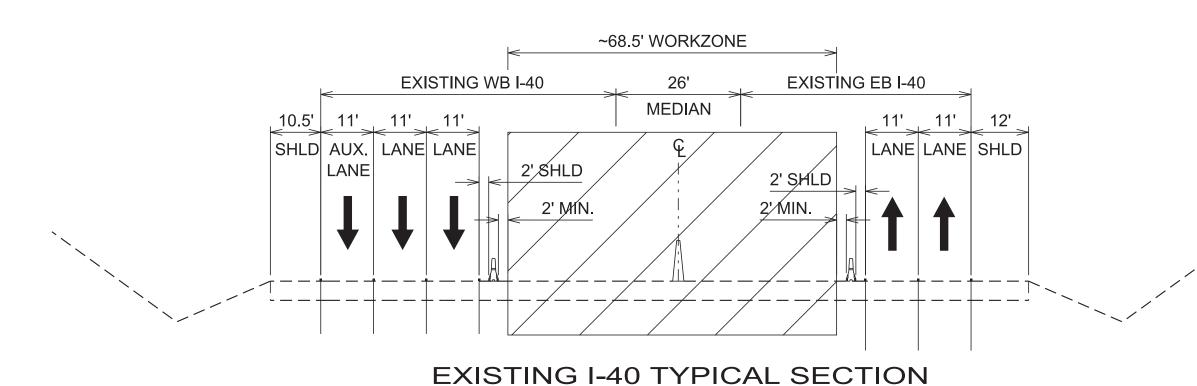
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STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

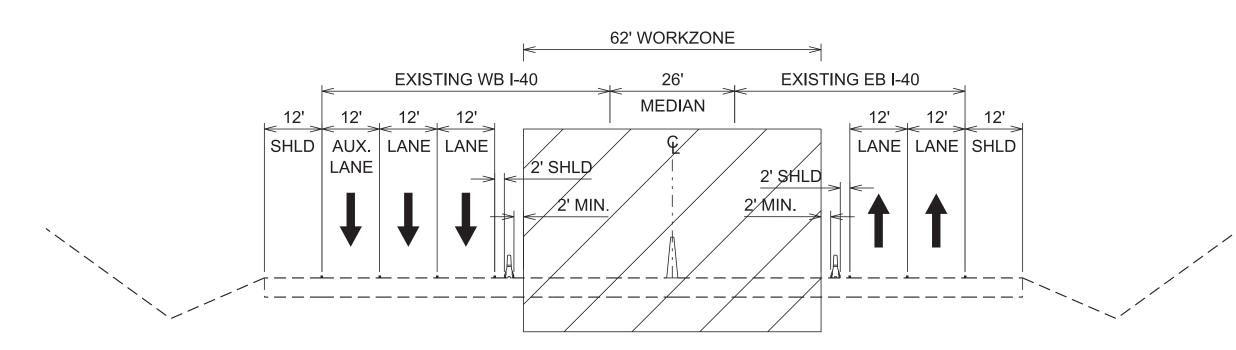
TABULATED
TRAFFIC
CONTROL
QUANTITIES



EXISTING I-40 TYPICAL SECTION



I-40 - MEDIAN CLOSURE (PHASE 1) 2 LANES CLOSED WITH SHIFT



EXISTING I-40 TYPICAL SECTION

I-40 - MEDIAN CLOSURE (PHASE 2)
2 LANES CLOSED

PHASING NOTES: (I-40)

PHASE 1: *EB I-40 REDUCED TO 2 THROUGH LANES

*WB I-40 REDUCED TO 2 THROUGH LANES + AUX LANE

*ALL LANE WIDTHS REDUCED TO 11' WIDE.

*EB I-40 LANES SHIFTED 2' TOWARDS OUTSIDE SHOULDERS
*WB I-40 SHIFTED 4.5' TOWARDS OUTSIDE SHOULDERS
*MOST RESTRICTIVE PHASE FOR TRAVEL WAY REQUIRED TO
ATTACHED THE OUTER MOST PROPOSED STIFFENERS TO THE

BRIDGE BEAMS AT THE MEDIAN.

PHASE 2: *EB I-40 REDUCED TO 2 THROUGH LANES

*WB I-40 REDUCED TO 2 THROUGH LANES + AUX LANE

*OPEN LANES REMAIN IN EXISTING LOCATIONS

*PHASE REQUIRED TO REDUCE THE DURATION OF PHASE I WHILE STILL PROVIDING ACCESS TO OUTTER MOST

STIFFENERS ALONG THE MEDIAN.

PHASE 3: *EB I-40 REDUCED TO 3 THROUGH LANES

*WB I-40 REDUCED TO 3 THROUGH LANES + AUX LANE

*OPEN LANES REMAIN IN EXISTING LOCATIONS

*PHASE REQUIRED TO ATTACH ALL REMAINING STIFFENERS

TO EXISTING BRIDGE BEAMS AT THE MEDIAN.

PHASE 4: *ALL I-40 LANES REMAIN OPEN.

*OUTSIDE SHOULDERS CLOSED.

*PHASE REQUIRED TO ATTACH ALL BEAM STIFFENERS NEAR

THE OUTSIDE ABUTMENTS OF THE EXISTING BRIDGE.

GENERAL: *THE ORDER AND SEQUENCE OF THE TRAFFIC PHASING IS NOT REQUIRED TO FOLLOW THE ORDER ABOVE AND IS TO BE

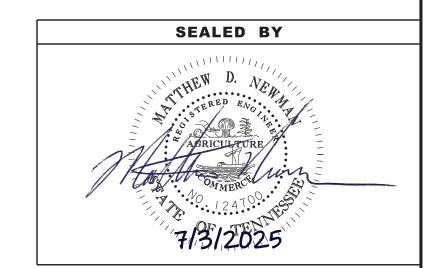
DETERMINED BY THE ENGINEER.

*THE VARIOUS TRAFFIC PHASES FOR I-40 MAY BE USED

CONCURRENTLY WITH EXIT 221A RAMP CLOSURE AS DIRECTED

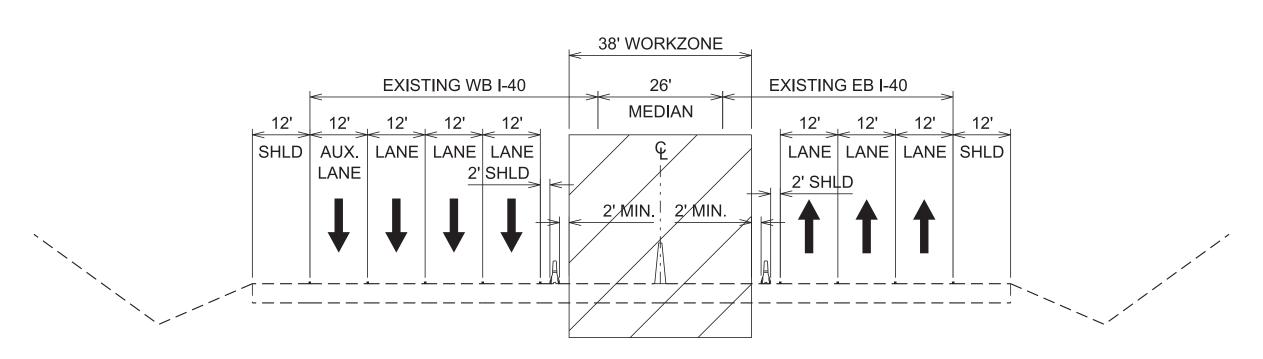
BY THE ENGINEER.

*SEE SHEET T3B FOR DETAILS REGARDING WHICH PROPOSED STIFFENERS CAN BE INSTALLED DURING EACH PHASE.



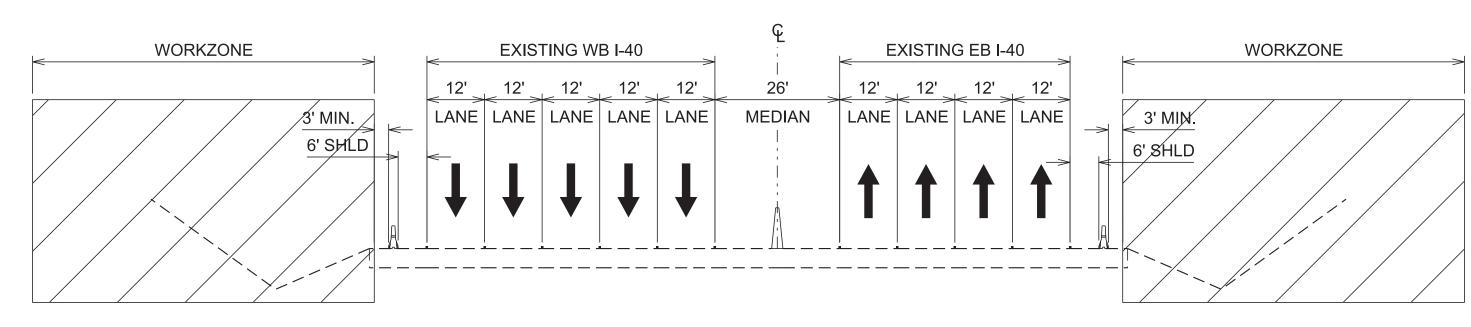
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL
TYPICAL SECTIONS



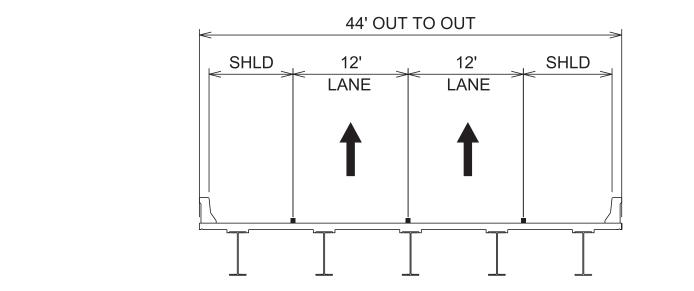
EXISTING I-40 TYPICAL SECTION

I-40 - MEDIAN CLOSURE (PHASE 3) 1 LANES CLOSED

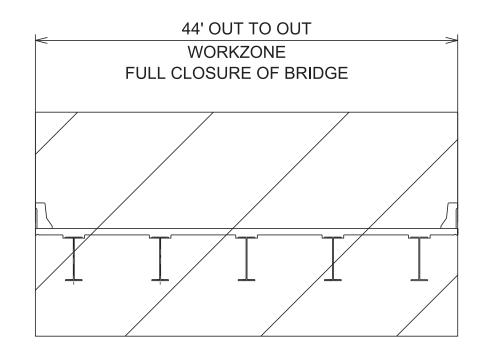


EXISTING I-40 TYPICAL SECTION

I-40 - OUTSIDE SHOULDER CLOSURE (PHASE 4)



EXISTING EXIT 221A RAMP BRIDGE TYPICAL SECTION



EXISTING EXIT 221A RAMP BRIDGE TYPICAL SECTION

RAMP CLOSURE

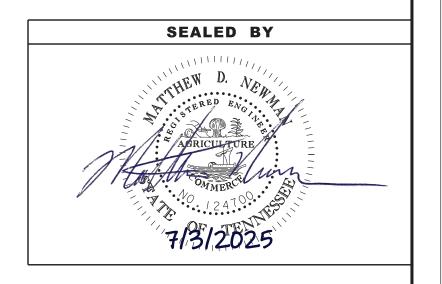
PHASING NOTES: (EXIT 221A RAMP)

GENERAL: *EXIT 221A RAMP TO BE CLOSED FOR CONSTRUCTION.

*TRAFFIC TO BE REROUTED TO EXIT 221B OLD HICKORY BLVD

DURING CLOSURE.
*EB I-40 AUX LANE BETWEEN STEWARTS FERRY PIKE AND EXIT 221A TO BE CLOSED DURING RAMP CLOSURE.

*CLOSURE IS REQUIRED FOR BRIDGE REPAIRS ALONG THE RAMP AND TO REDUCE LIVE LOADS DURING THE ADDITION OF THE PROPOSED BEAM STIFFENERS.



PROJECT NO.

19I040-M3-015

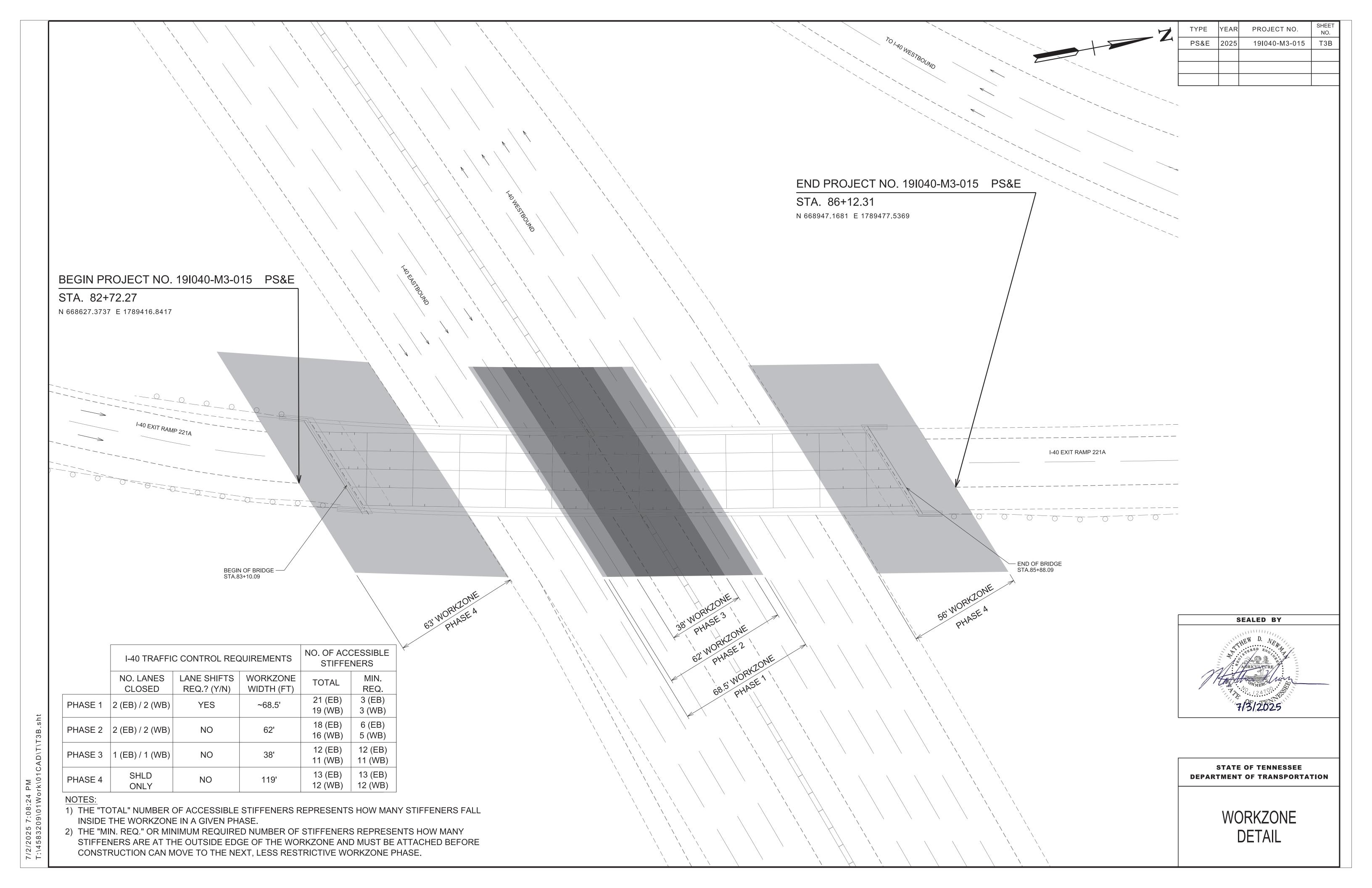
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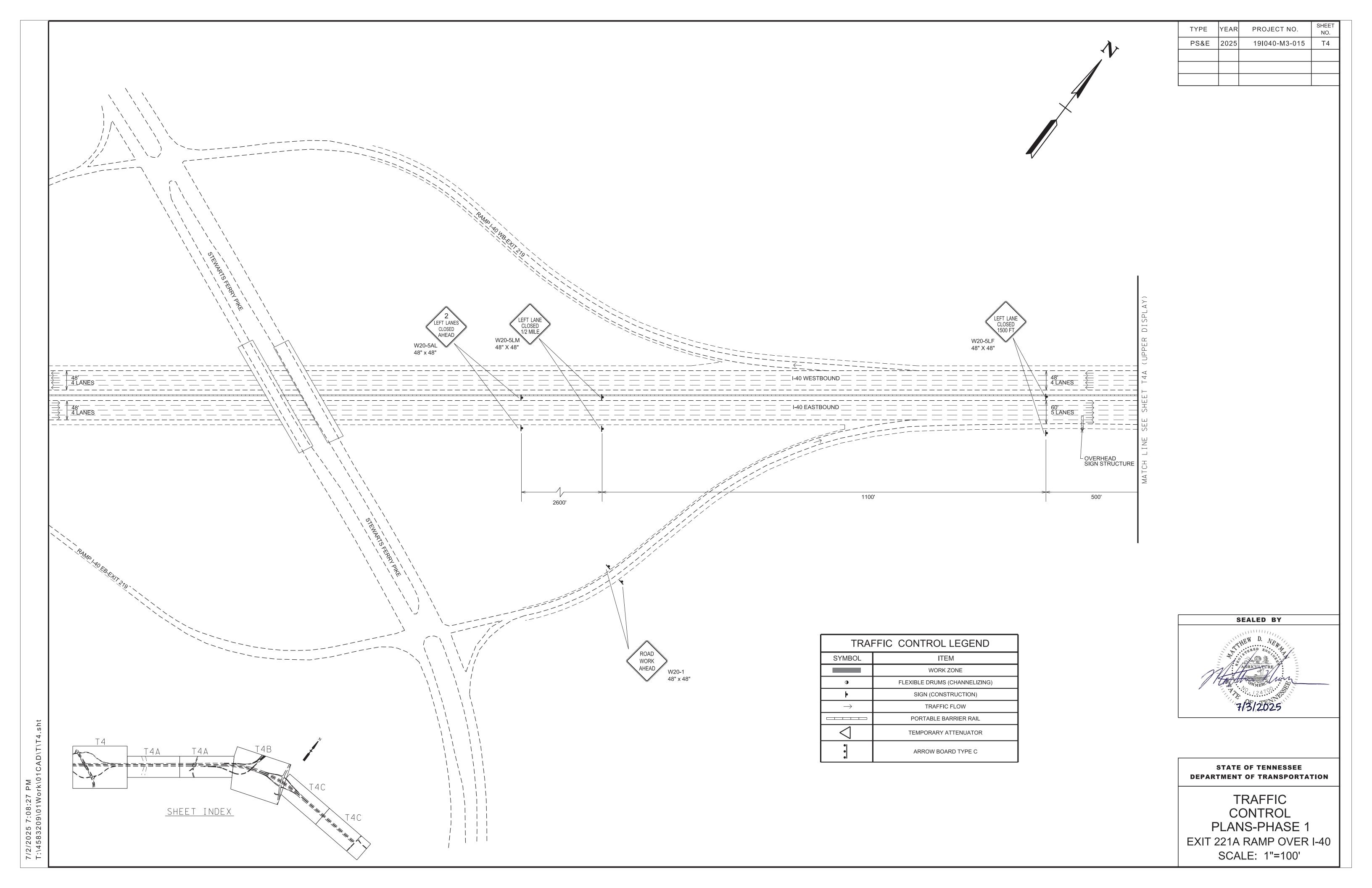
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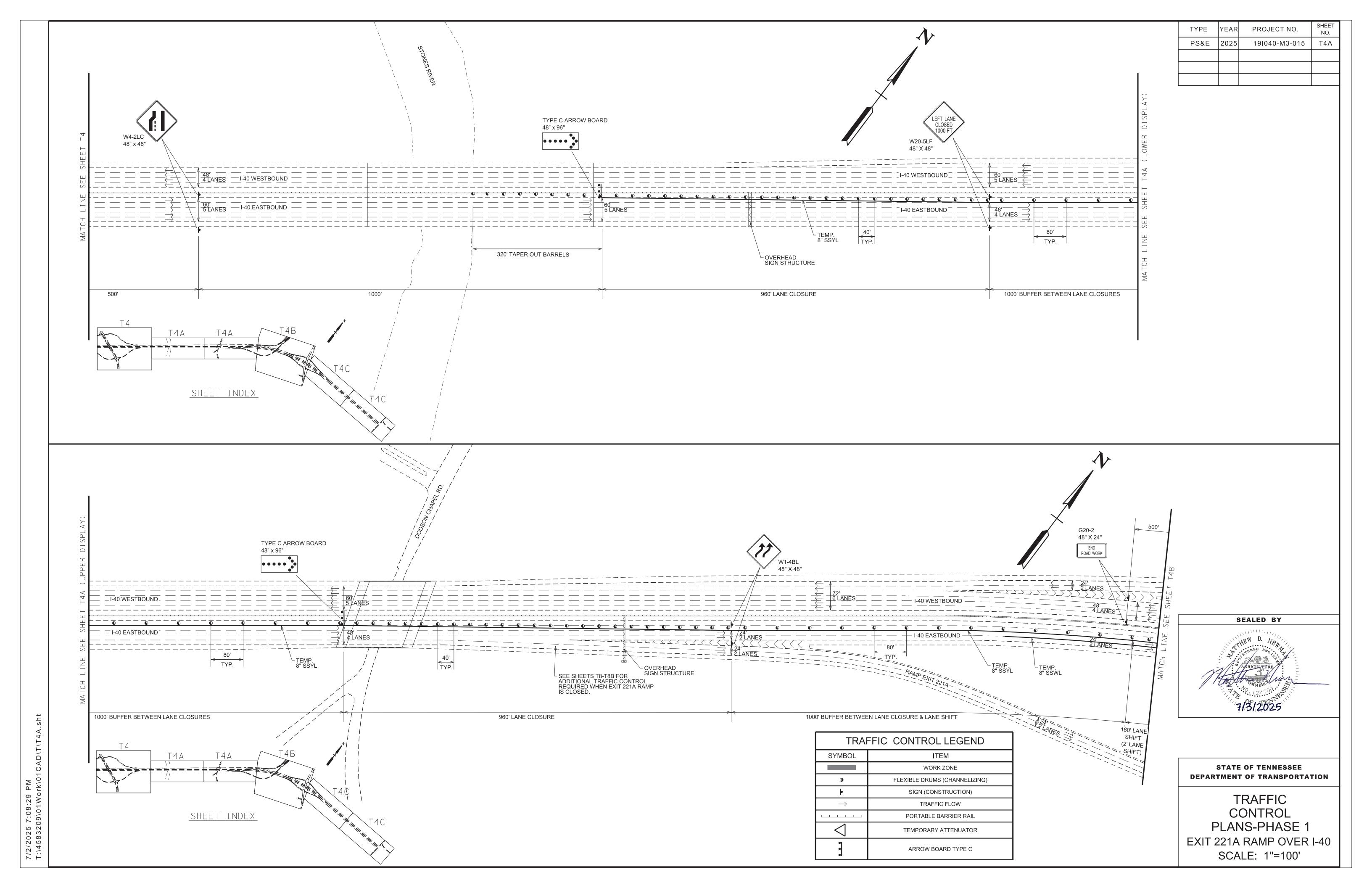
2025

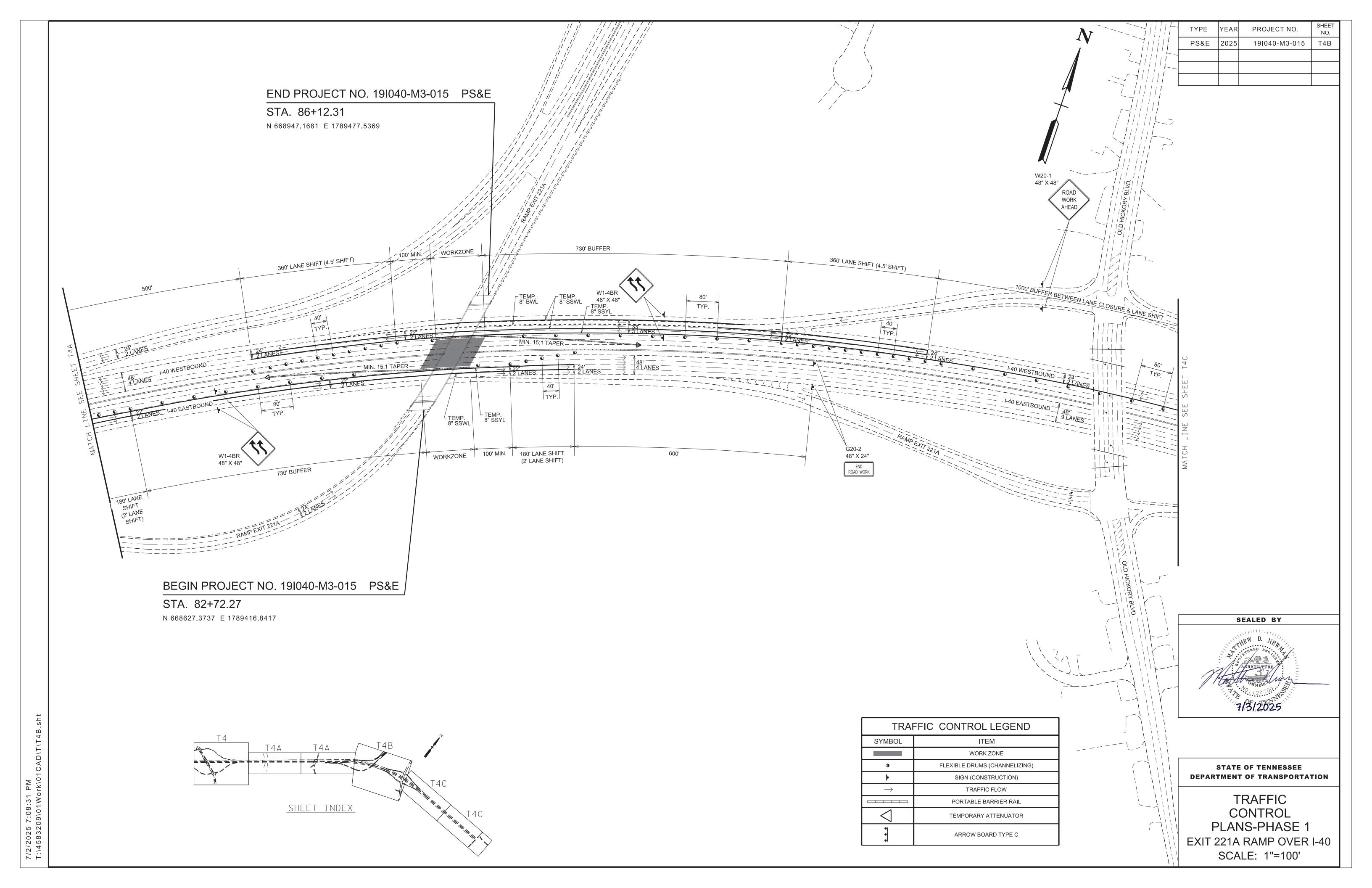
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

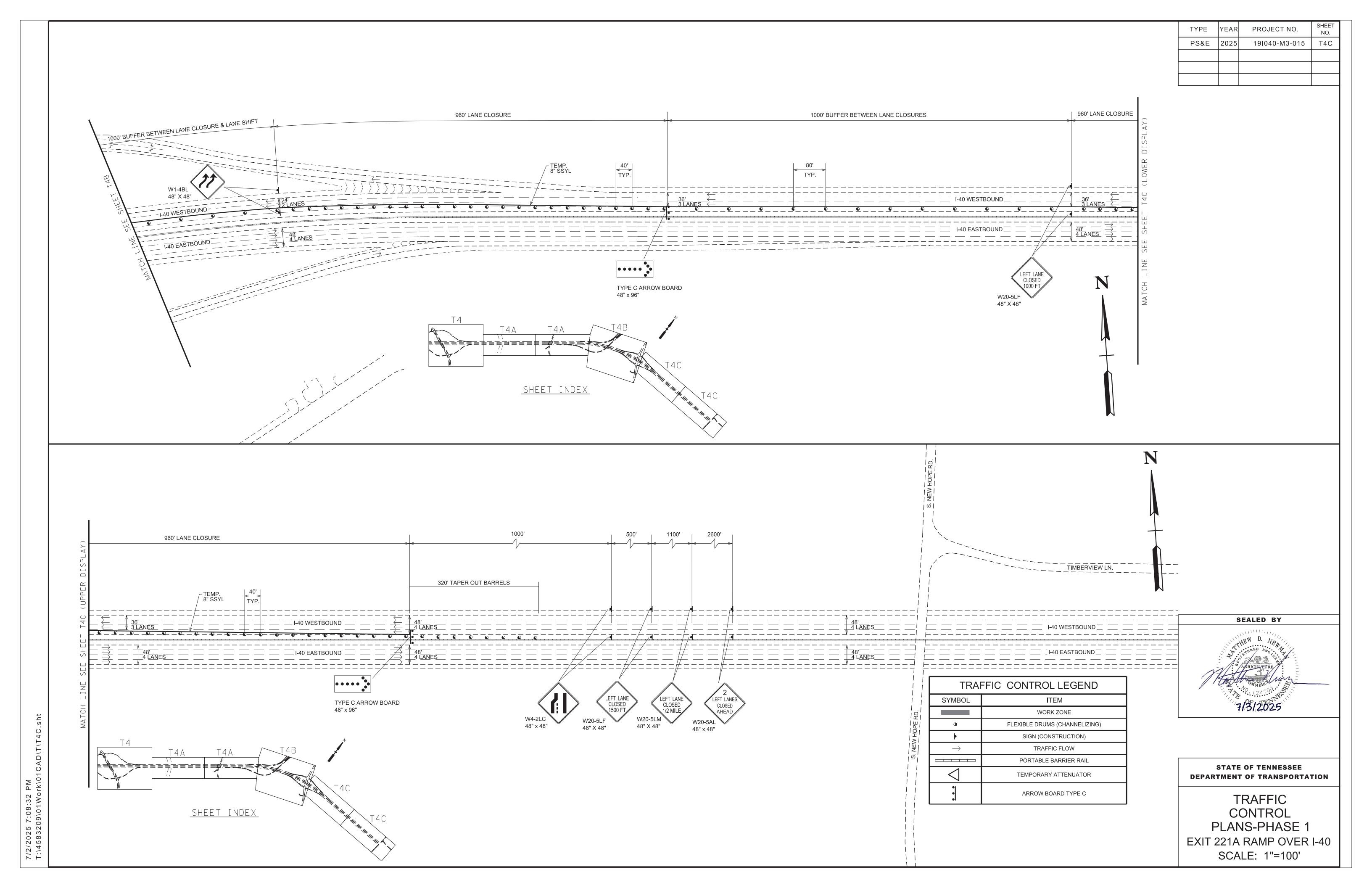
TRAFFIC CONTROL
TYPICAL SECTIONS

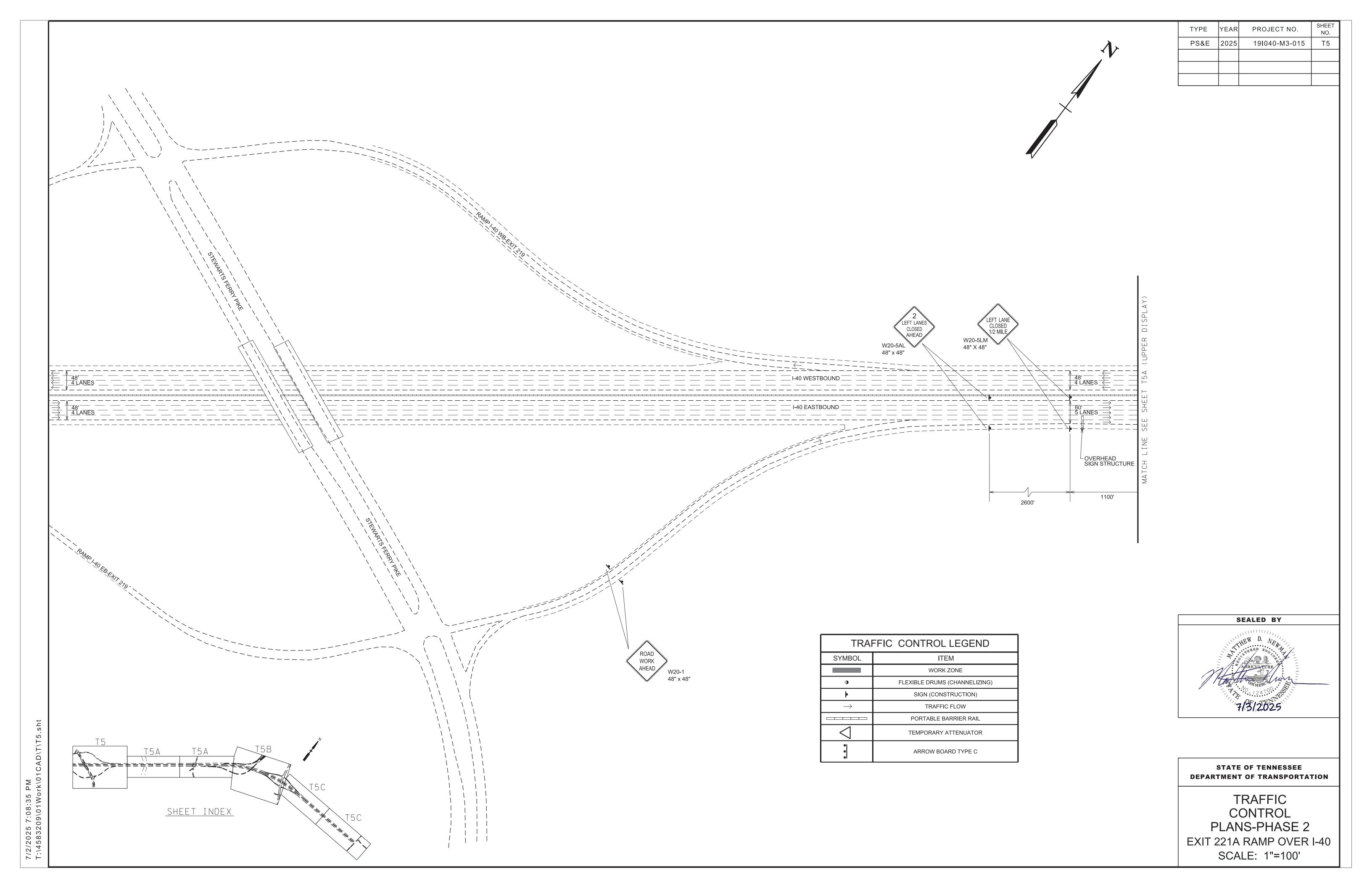


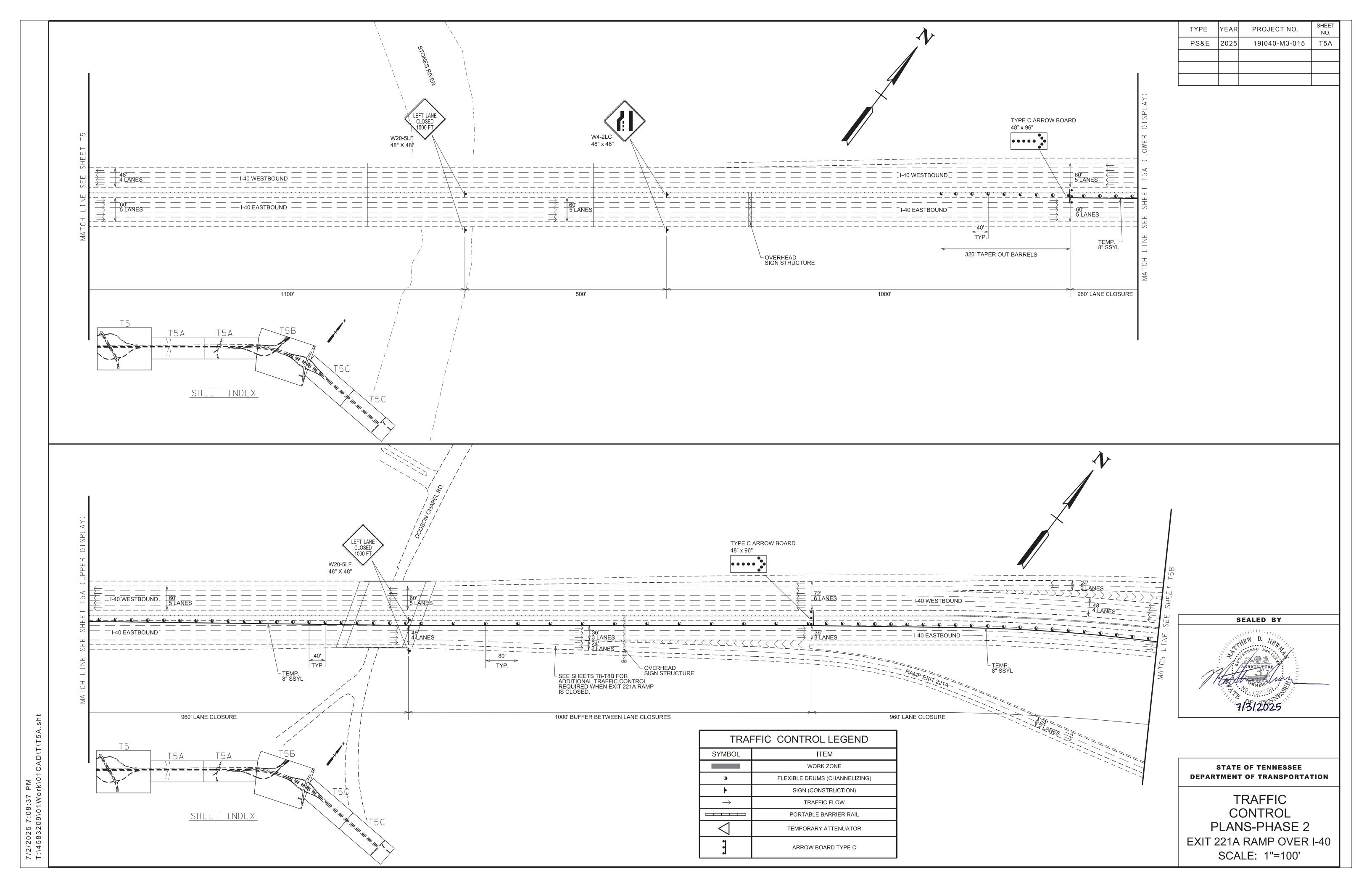


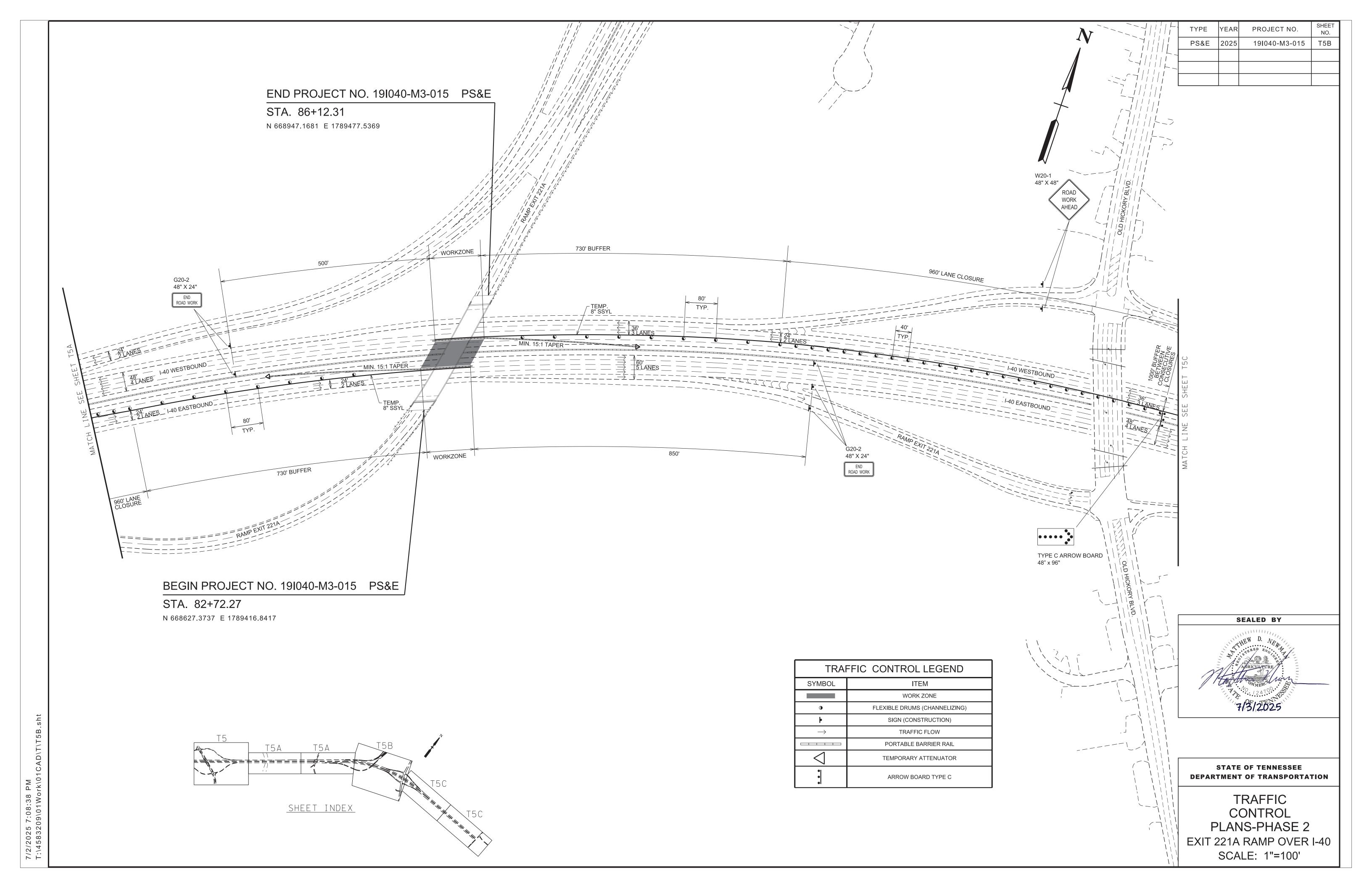


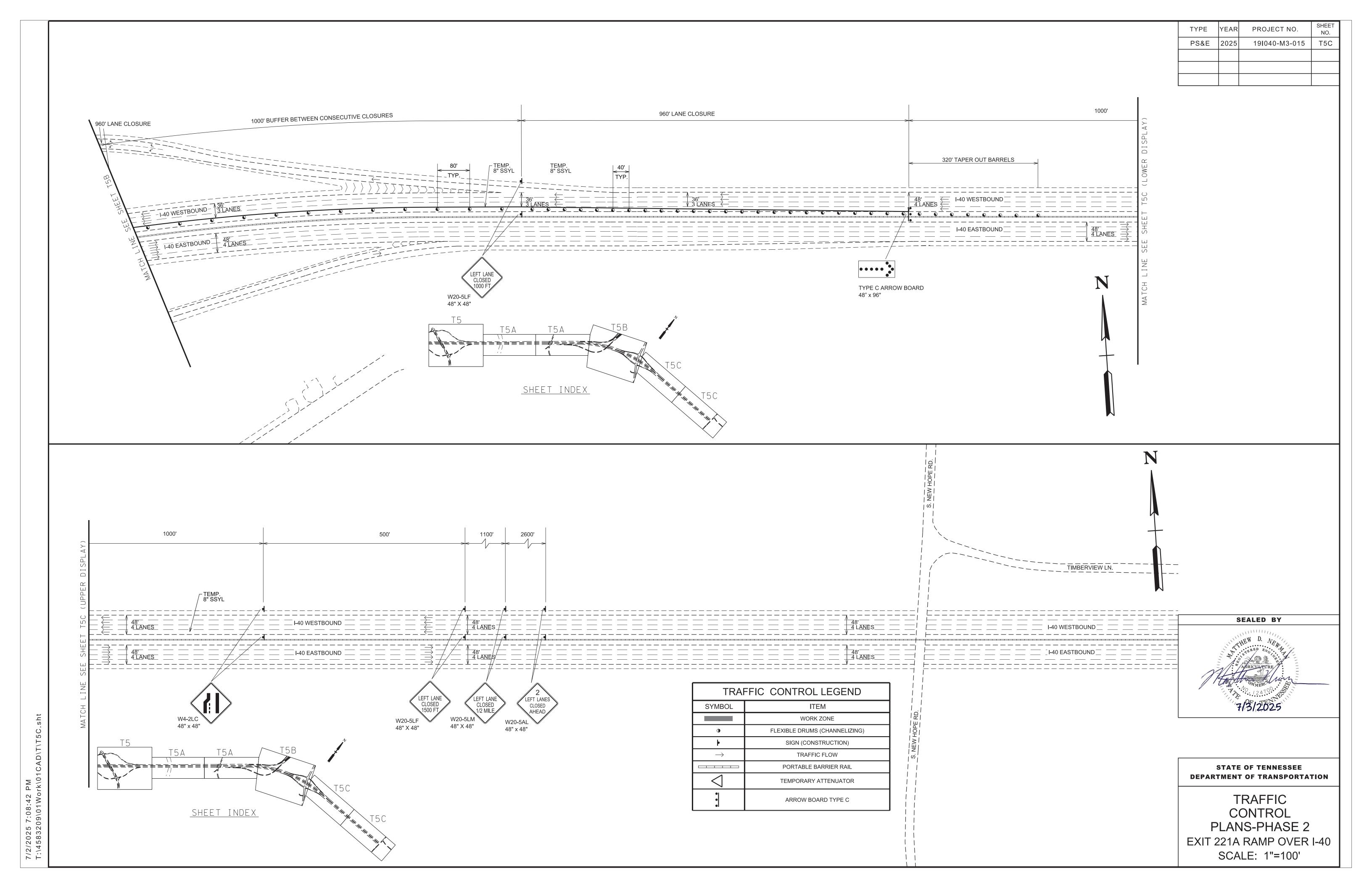


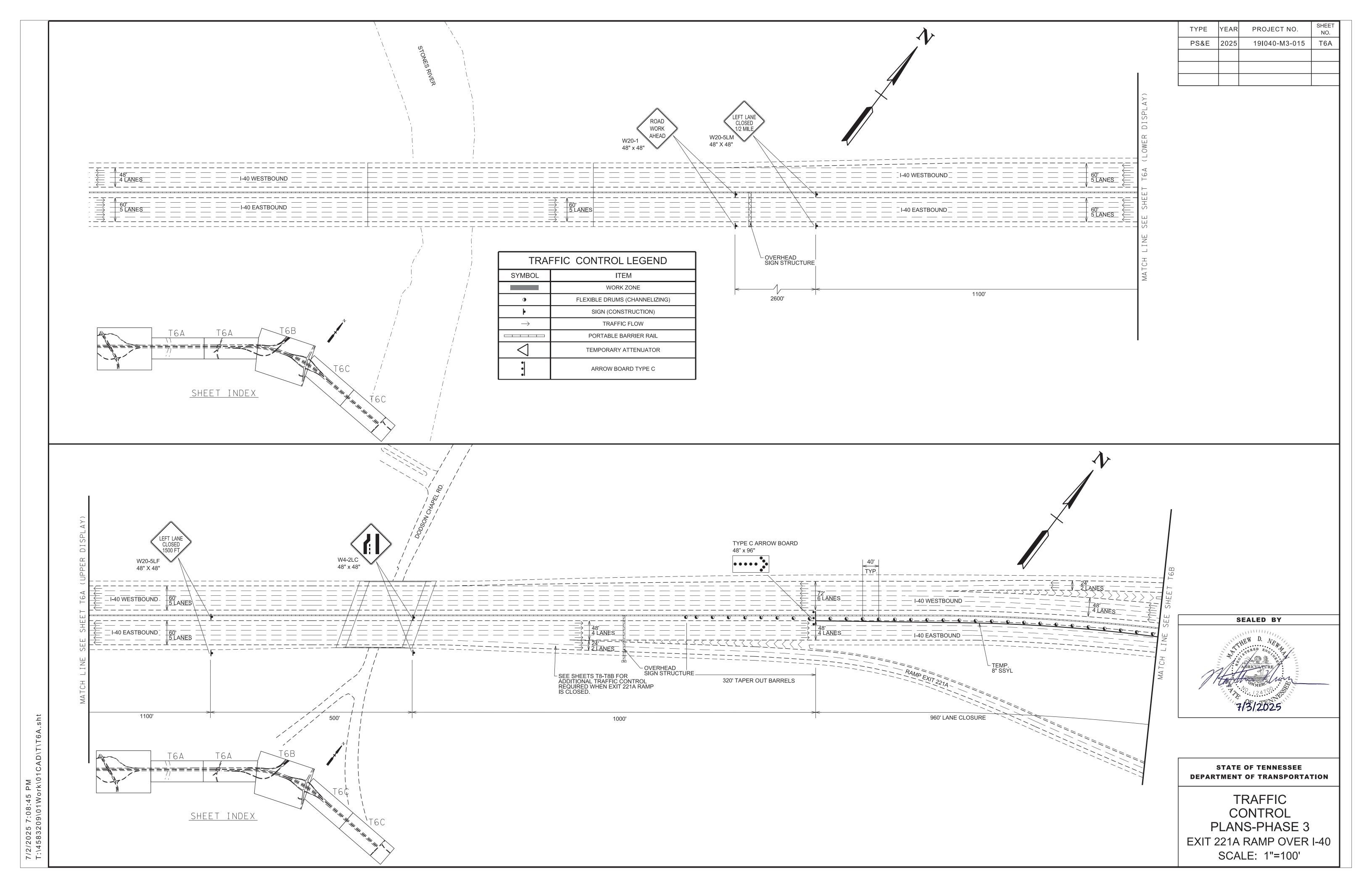


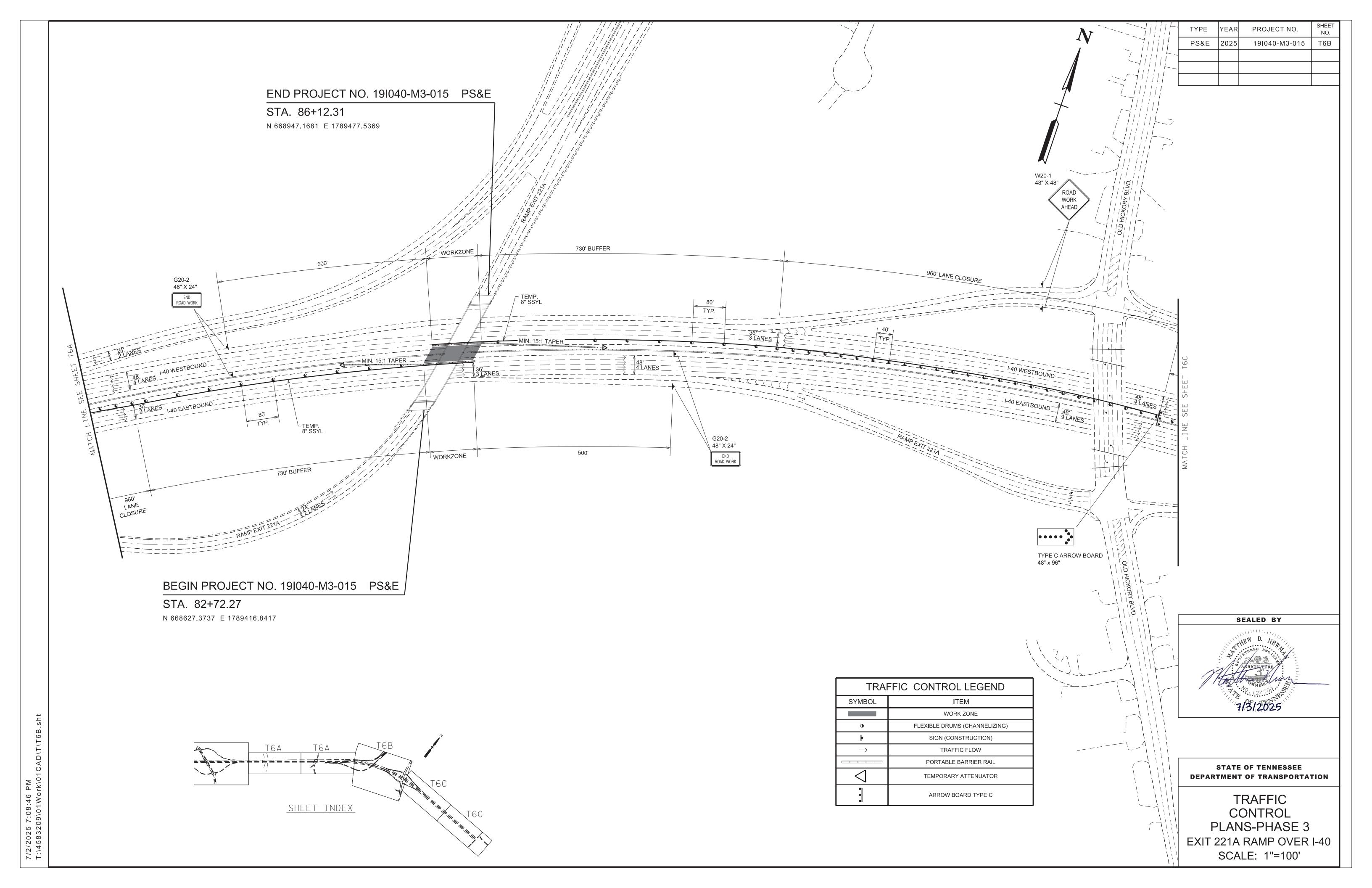


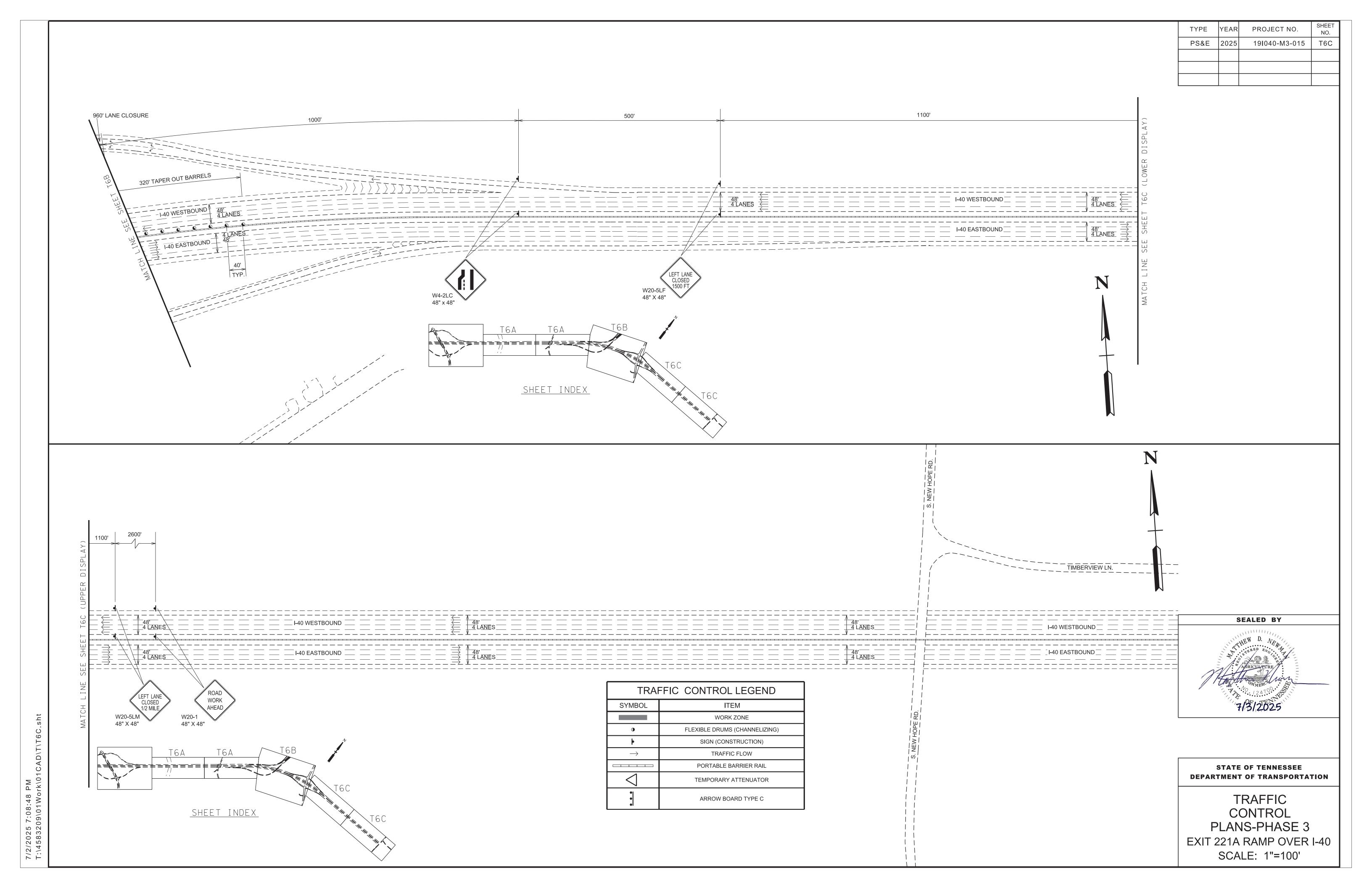


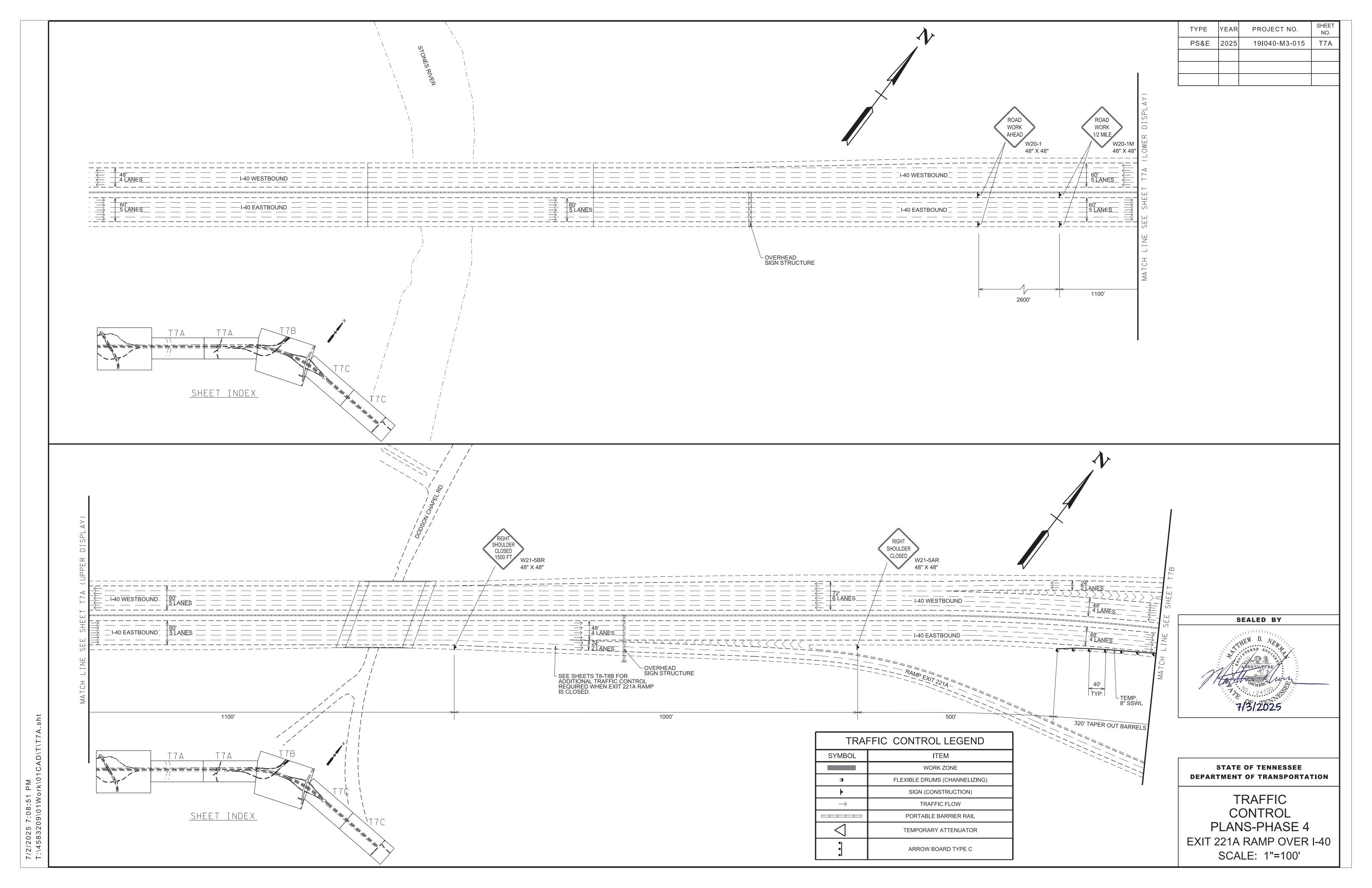


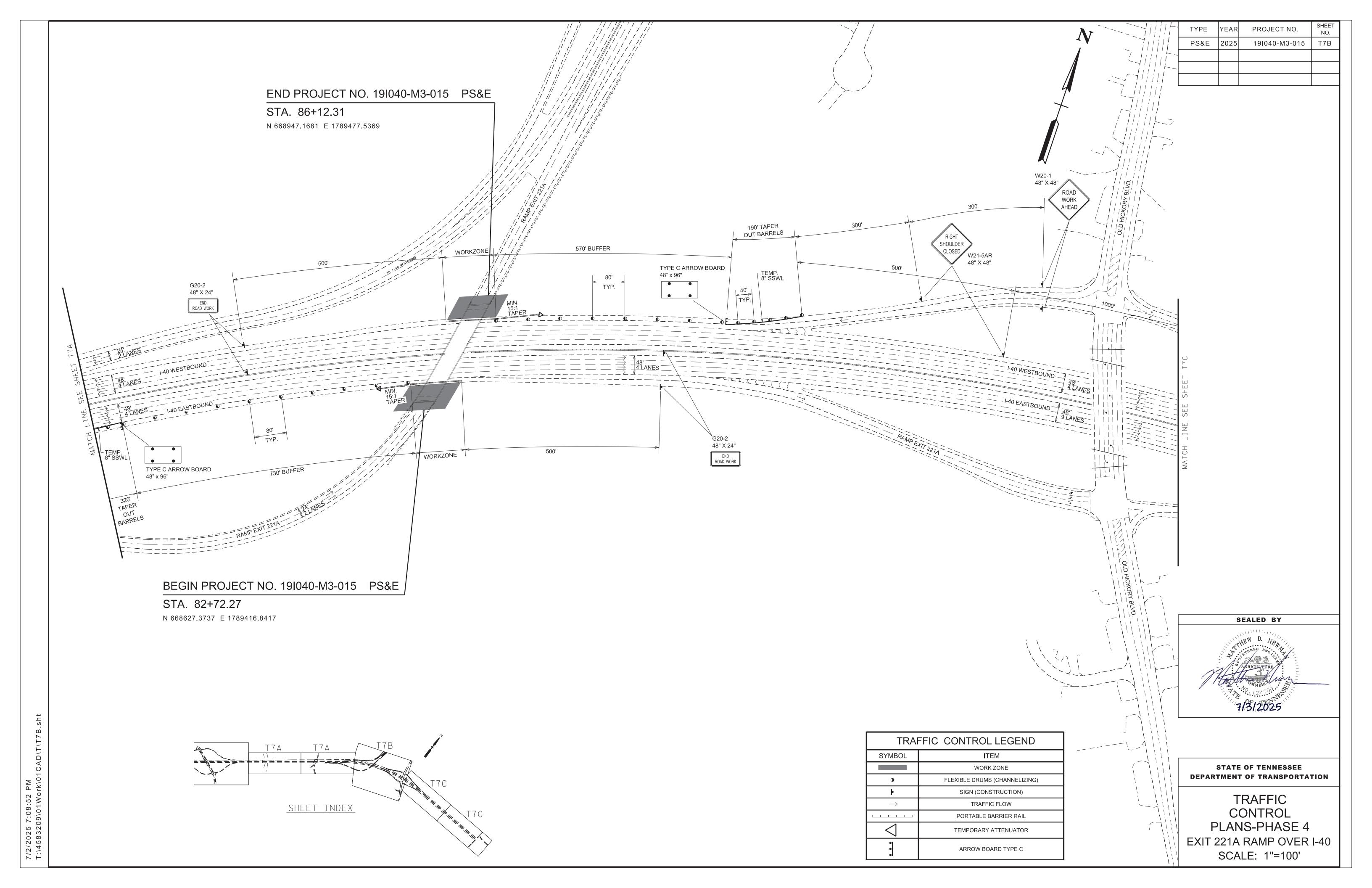


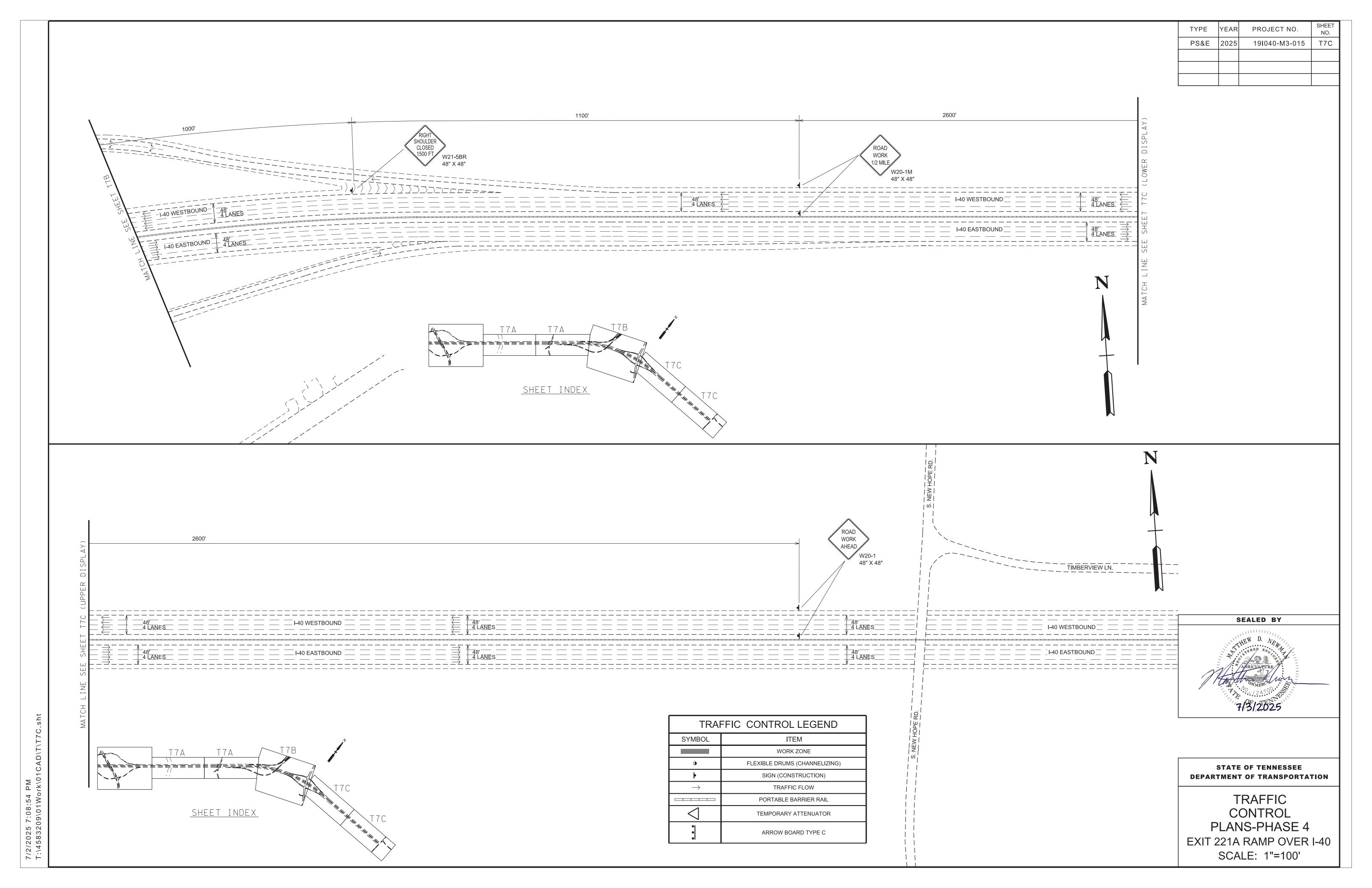


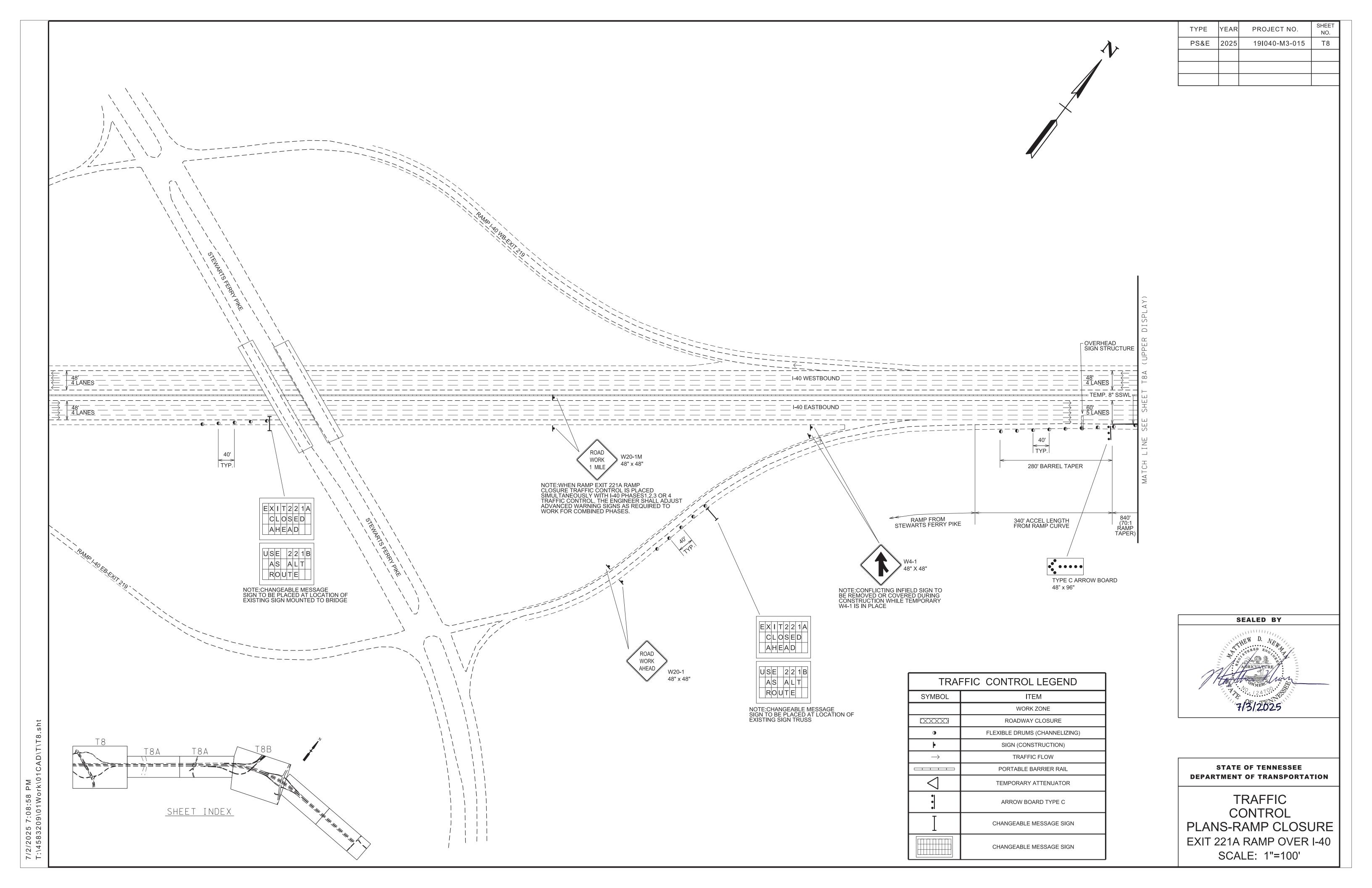


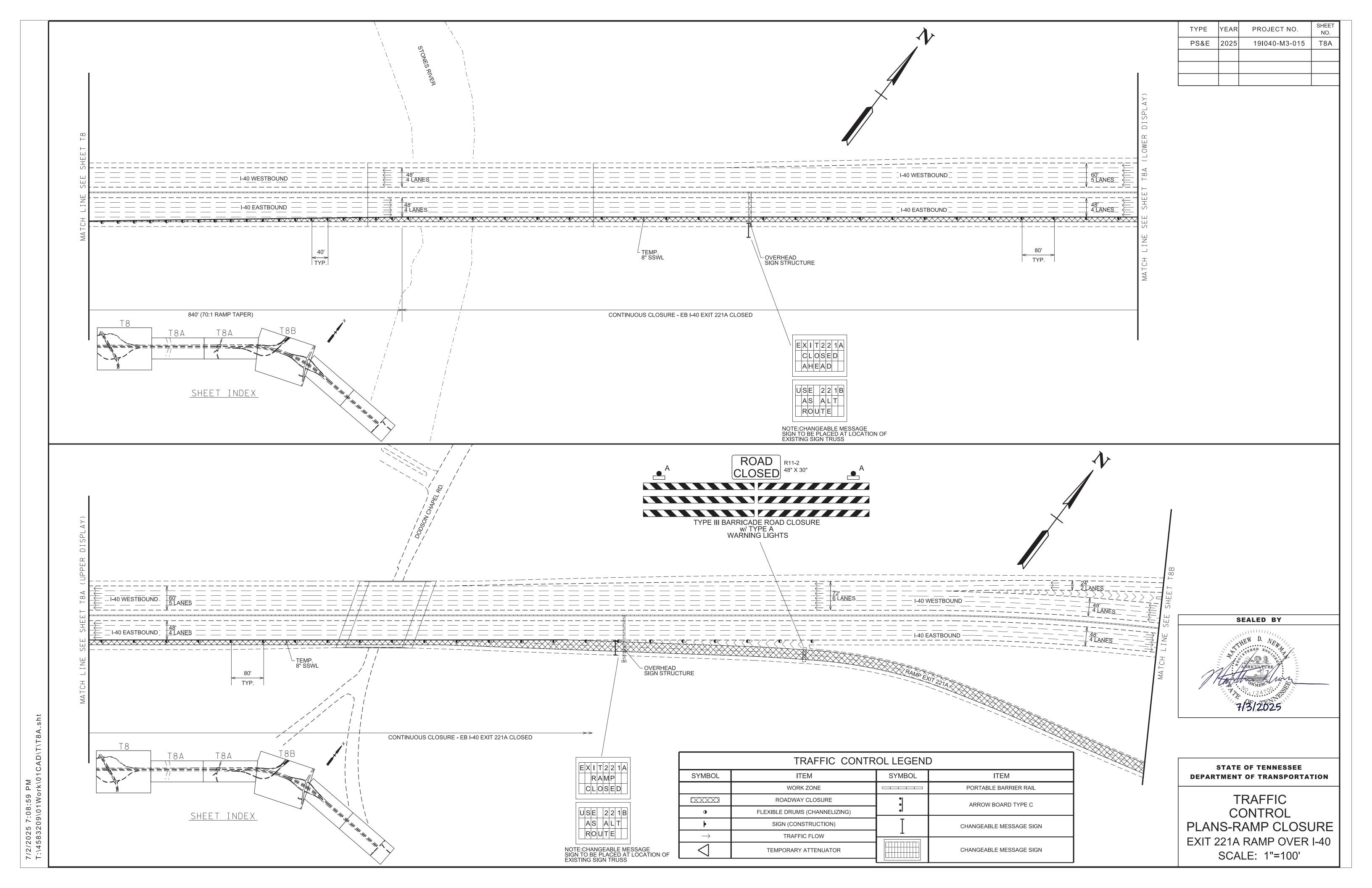


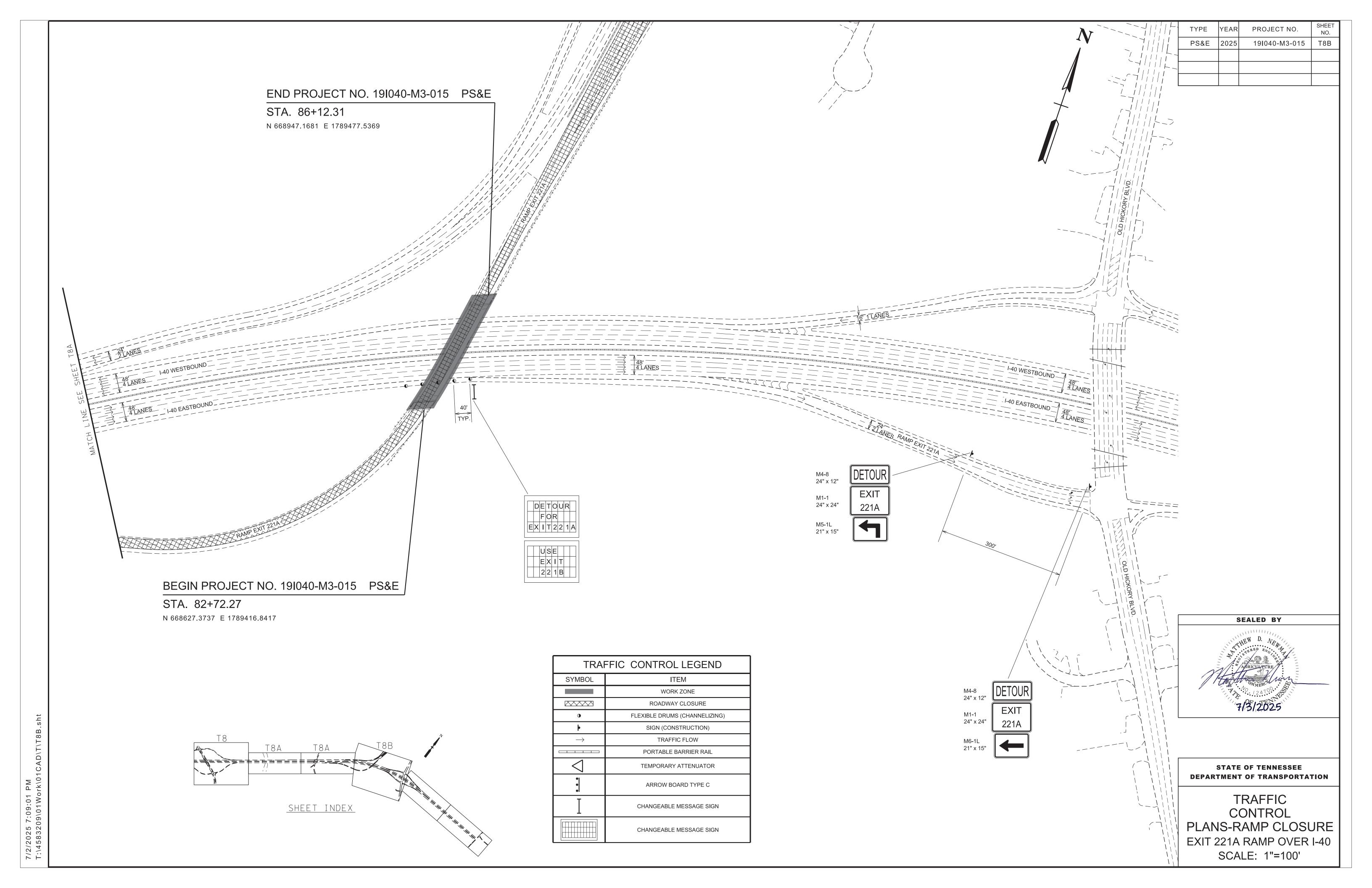


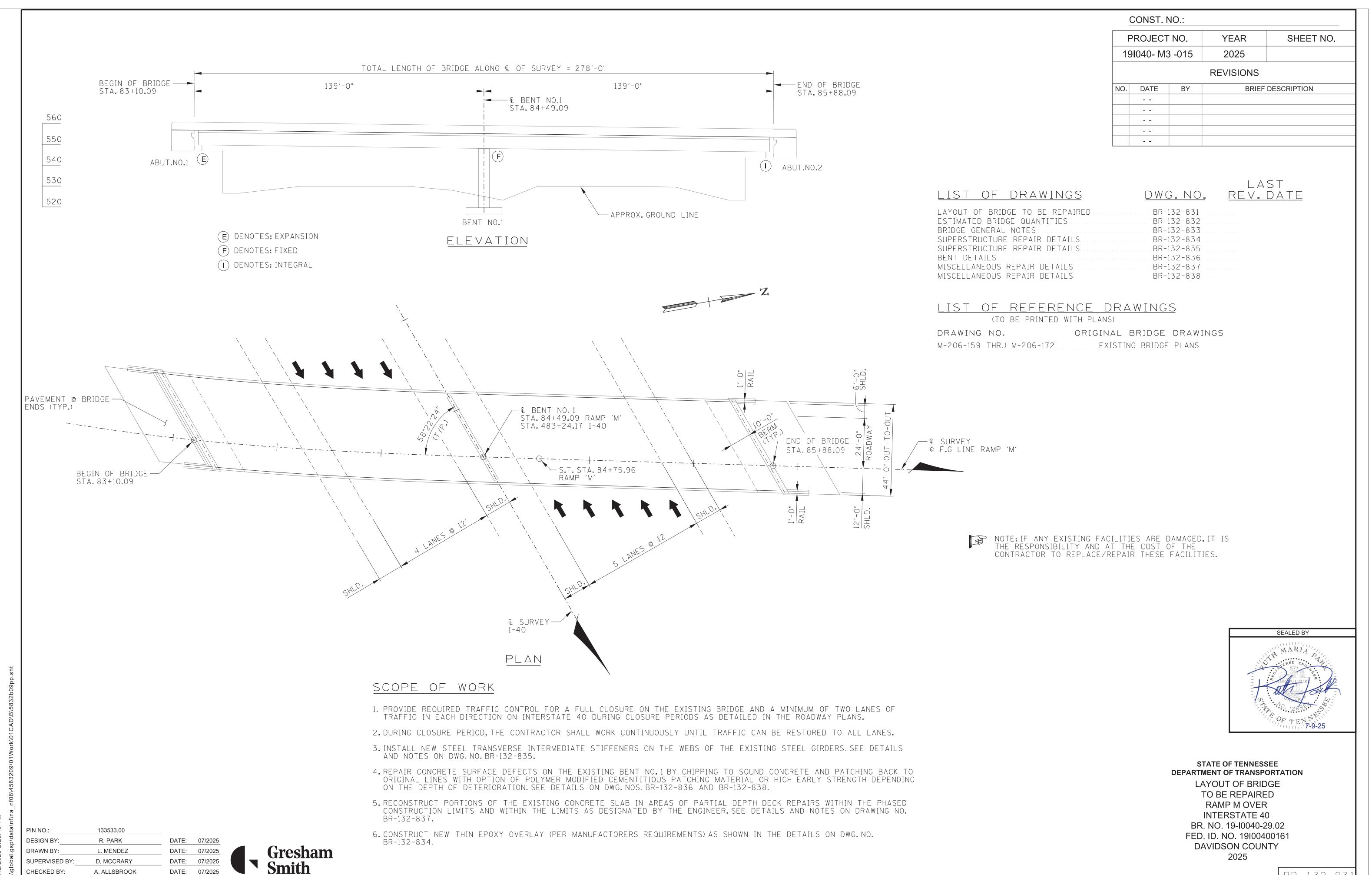












BR-132-831

		ESTIMATED BRIDGE QUANTITIES		
	ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
(1)	602-10.32	STRUCTURAL STEEL (REPAIRS)	LB.	7473
(2)	604-10.05*	CONCRETE	S.F.	6
(3)	604-10.50*	BRIDGE DECK REPAIRS (PARTIAL DEPTH OF SLAB)	S.Y.	35
(4)	604-10.54*	CONCRETE REPAIRS	S.F.	6
(5)	617-04.01	TYPE 1 THIN EPOXY OVERLAY (EPOXY-URETHANE)	S.Y.	417

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

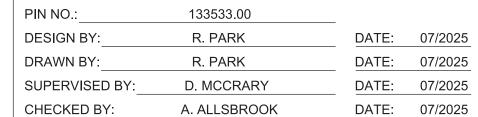
FOOTNOTES:

- (1) INCLUDES ALL LABOR AND MATERIALS FOR INSTALLATION AND PAINTING OF NEW STRUCTURAL STEEL STIFFENERS AS SHOWN ON THE PLANS. PREPARATION OF EXISTING STEEL SURFACE REPAIR LOCATIONS TO BE INCLUDED IN ITEM NO. 602-10.32. REPAIR AREAS SHALL BE MARKED AND QUANTIFIED FOR APPROVAL BY THE ENGINEER PRIOR TO BEGINNING OF THE WORK. SEE DWG. NO. BR-132-835
- (2) INCLUDES ALL LABOR AND MATERIALS TO PLACE HIGH EARLY STRENGTH CONCRETE FOR REPAIR AREAS AS NOTED IN THE PLANS. SEE DWG. NOS. BR-132-836 AND BR-132-838 FOR DETAILS.
- (3) INCLUDES ALL COSTS FOR PARTIAL DEPTH CONCRETE DECK REPAIRS AT LOCATIONS DESIGNATED BY THE ENGINEER. FOR DETAILS, SEE DWG. NO. BR-132-837.
- (4) INCLUDES ALL LABOR AND MATERIALS TO PLACE A POLYMER MODIFIED CEMENTITIOUS STRUCTURAL PATCHING MATERIAL FOR REPAIR AREAS AS NOTED IN THE PLANS. SEE DWG. NOS. BR-132-836 AND BR-132-838 FOR DETAILS.
- (5) INCLUDES COST OF ALL LABOR AND MATERIALS NECESSARY TO PLACE A TYPE I THIN OVERLAY (EPOXY-URETHANE) TO THE BRIDGE DECK FOR THE FULL LENGTH OF THE BRIDGE. FOR DETAILS, SEE DWG. NO. BR-132-834 AND THE TDOT QUALIFIED PRODUCTS LIST 23 SECTION 02.

MARIA SERED ENG.
10. 12896. OF TENT-9-25

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION **ESTIMATED BRIDGE** QUANTITIES RAMP M OVER **INTERSTATE 40** BR. NO. 19-I0040-29.02 FED. ID. NO. 19100400161 DAVIDSON COUNTY

BR-132-832





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YEAR

REVISIONS

SHEET NO.

BRIEF DESCRIPTION

CONST. NO.:

PROJECT NO.

19I040- M3 -015

NO. DATE

- -

2025

SPECIFICATIONS & LOADING

- (1) **CONSTRUCTION SPECIFICATIONS**: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION (JANUARY 1, 2021 EDITION), AND THE 4TH EDITION (2017) AASHTO LRFD BRIDGE CONSTRUCTION SPECIFICATIONS WITH INTERIMS.
- (2) **DESIGN SPECIFICATIONS:** 9TH EDITION (2020) AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS WITH INTERIMS, AND THE 2ND EDITION (2011) AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN WITH INTERIMS.

STEEL, CONCRETE, REINFORCING, AND FORMING

- (3) **STRUCTURAL STEEL:** SHALL CONFORM TO ASTM A709 GRADE 50 UNLESS OTHERWISE NOTED.
- (4) **BOLTS:** SHALL BE HIGH TENSILE STRENGTH BOLTS ASTM-F3125, GRADE A325, TYPE 1, UNLESS OTHERWISE NOTED. BOLT SIZE TO BE AS NOTED ON PLANS. SEE SECTION 602 OF THE STANDARD SPECIFICATIONS. EXISTING CONTACT SURFACES SHALL BE CLEANED OF ALL EXISTING PAINT AND RUST TO BARE METAL PRIOR TO ATTACHMENT OF NEW MEMBERS. UNCOATED (BLACK) BOLTS MAY BE USED INSTEAD OF GALVANIZED BOLTS.
- (5) **CONCRETE**: TO BE CLASS A F'C = 3000 PSI EXCEPT AS NOTED OTHERWISE.
- (6) HIGH EARLY STRENGTH CONCRETE: THE MIX IS TO MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, CLASS X. THE CEMENT CONTENT SHALL BE A MINIMUM OF 714 LBS. THE WATER-CEMENT RATIO SHALL BE A MAXIMUM OF 0.40. DESIGN AIR CONTENT SHALL BE 6% WITH ±2% ACCEPTANCE RANGE IN THE FIELD. SLUMP SHALL BE 3±1 INCHES. IF USING A TYPE A, F, OR G WATER REDUCER, THE SLUMP SHALL BE MAXIMUM OF 8 INCHES. NO FLY ASH REPLACEMENT WILL BE PERMITTED. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 3,500 PSI. TRAFFIC SHALL NOT BE PERMITTED ON ANY OF THE REPAIRED AREAS UNTIL TEST SPECIMENS ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AND THE CONCRETE HAS BEEN IN PLACE A MINIMUM OF TEN (10) DAYS.
- (7) **CONCRETE CURING:** ALL CONCRETE IN REPAIR AREAS SHALL BE CURED ACCORDING TO THE STANDARD SPECIFICATIONS.

MISCELANEOUS GENERAL NOTES

- (8) SHOP DRAWINGS: REFER TO SECTION 105.02 OF THE STANDARD SPECIFICATIONS. IF USING PAPER COPIES, SHOP DRAWINGS ARE TO BE SENT TO THE BRIDGE REPAIR OFFICE IN THE DIVISION OF STRUCTURES, FOR ELECTRONIC SUBMITTALS, SEE SECTION 105.02 OF THE STANDARD SPECIFICATIONS. EACH SHOP DRAWING SHALL CONTAIN IN THE TITLE BLOCK THE FOLLOWING: THE STATE PROJECT NUMBER, COUNTY, BRIDGE NAME, BRIDGE NUMBER (OR STRUCTURE TYPE AND NUMBER), STATION, AND CONTRACT NUMBER. SHOP DRAWINGS WITH TITLE BLOCKS NOT INCLUDING THE FOREGOING IDENTIFICATION WILL BE RETURNED FOR CORRECTION BEFORE ANY REVIEWS FOR APPROVAL ARE CONDUCTED.
- (9) **DEMOLITION:** THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ANY PARTS OF THE STRUCTURE THAT ARE NOT TO BE REMOVED SPECIFICALLY. FOR FULL DEPTH SLAB REMOVAL, EXCEPT OVER BEAMS, THE MAXIMUM HAMMER SIZE IS 90 POUND CLASS. FOR PARTIAL DEPTH SLAB REMOVAL AND ANY WORK OVER THE BEAMS, THE MAXIMUM HAMMER SIZE IS 60 POUND CLASS; CHIPPING HAMMERS OF THE 15 POUND CLASS SHALL BE USED TO REMOVE CONCRETE FROM BENEATH ANY REINFORCING STEEL. SAWING OR CUTTING OF THE CONCRETE IS ACCEPTABLE AS LONG AS ANY SPECIFIED PROJECTION OF THE EXISTING REINFORCING STEEL IS MAINTAINED. EXPANSION JOINT REMOVAL SHALL FOLLOW THE SAME RESTRICTIONS AS FULL DEPTH SLAB REMOVAL. ALL DEVICES PROPOSED FOR CONCRETE DEMOLITION SHALL MEET THE APPROVAL OF THE ENGINEER.
- (10) THE CONTRACTOR IS NOT ALLOWED TO USE A HYDRAULIC RAM MOUNTED ON A BACKHOE (COMMONLY CALLED A HOE RAM), MINI EXCAVATOR, OR OTHER EQUIPMENT FOR ANY CONCRETE REMOVAL.

- (11) **GROUTED BARS IN DRILLED HOLES:** HORIZONTALLY DRILLED HOLES SHALL BE DRILLED ½" IN DIAMETER LARGER THAN THE BAR, CLEANED, PACKED WITH NON-SHRINK GROUT, AND THE BAR ROTATED (NOT DRIVEN) TO ITS SEAT. VERTICALLY DRILLED HOLES SHALL BE DRILLED ¼" IN DIAMETER LARGER THAN THE BAR, CLEANED, PACKED WITH EPOXY GROUT, AND THE BAR DRIVEN TO ITS SEAT. ALL GROUTING MATERIAL SHALL BE APPROVED BY TDOT MATERIALS AND TESTS.
- (12) QUICK-SET PATCHING MATERIAL: QUICK-SET PATCHING MATERIAL SHALL BE A POLYMER MODIFIED CEMENTITIOUS PATCHING MATERIAL. SEE TDOT QUALIFIED PRODUCTS LIST 13.009 POLY MOD CEMENT STRUCT PATCH VERT & OVER FOR ACCEPTABLE PATCHING MATERIALS.

PAINTING NEW STEEL NOTES

- (13) PAINTING OF NEW STEEL: ALL STRUCTURAL STEEL SHALL BE BLAST CLEANED AND SHOP PRIMED. BLAST CLEANING SHALL BE IN ACCORDANCE WITH 603.05(B.2) OF THE STANDARD SPECIFICATIONS. PAINT SHALL BE SYSTEM "A", INORGANIC ZINC SYSTEM (QPL 3.001), AS STATED IN SECTION 603.06(A) OF THE STANDARD SPECIFICATIONS. COLOR OF THE URETHANE FINISH COAT SHALL COMPLY WITH AMS-STD-595A, FEDERAL STANDARD NO. 30059, BROWN. SEE SECTIONS 603 AND 910 OF THE STANDARD SPECIFICATIONS. COST OF SHOP PRIMECOAT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR STRUCTURAL STEEL. THE CONTRACTOR SHALL ALSO HAVE THE OPTION TO USE ORGANIC ZINC WHEN USING A PAINT SYSTEM FROM QPL 3.002. ORGANIC ZINC SYSTEMS SHALL BE FROM QPL 3.002.
- (14) SEE THE TDOT QUALIFIED PRODUCTS LIST 3.001 OR 3.002 FOR ACCEPTABLE COATINGS FOR THE PAINT SYSTEM. THE SAME MANUFACTURER SHALL SUPPLY ALL PRODUCTS USED, INCLUDING THINNERS.

SPECIAL NOTES

- (15) NOTE: CONTRACTOR IS RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS TO ENSURE THE STABILITY OF THE STRUCTURE DURING THE REPAIR.
- (16) NOTE: THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND QUANTITIES PRIOR TO ORDERING ANY MATERIALS.
- (17) **REQUIREMENTS AND RESTRICTIONS FOR PHASE CONSTRUCTION:** TWO (2) 11'-0" TRAFFIC LANES SHALL BE MAINTAINED AT ALL TIMES DURING PHASE CONSTRUCTION ON I-40. SEE TRAFFIC CONTROL PLANS FOR FURTHER DTAILS.

ARIAN ARIAN

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STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

BRIDGE
GENERAL NOTES
RAMP M OVER
INTERSTATE 40
BR. NO. 19-10040-29.02
FED. ID. NO. 19100400161
DAVIDSON COUNTY
2025

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 PIN NO.:
 133533.00

 DESIGN BY:
 R. PARK
 DATE: 07/2025

 DRAWN BY:
 R. PARK
 DATE: 07/2025

 SUPERVISED BY:
 D. MCCRARY
 DATE: 07/2025

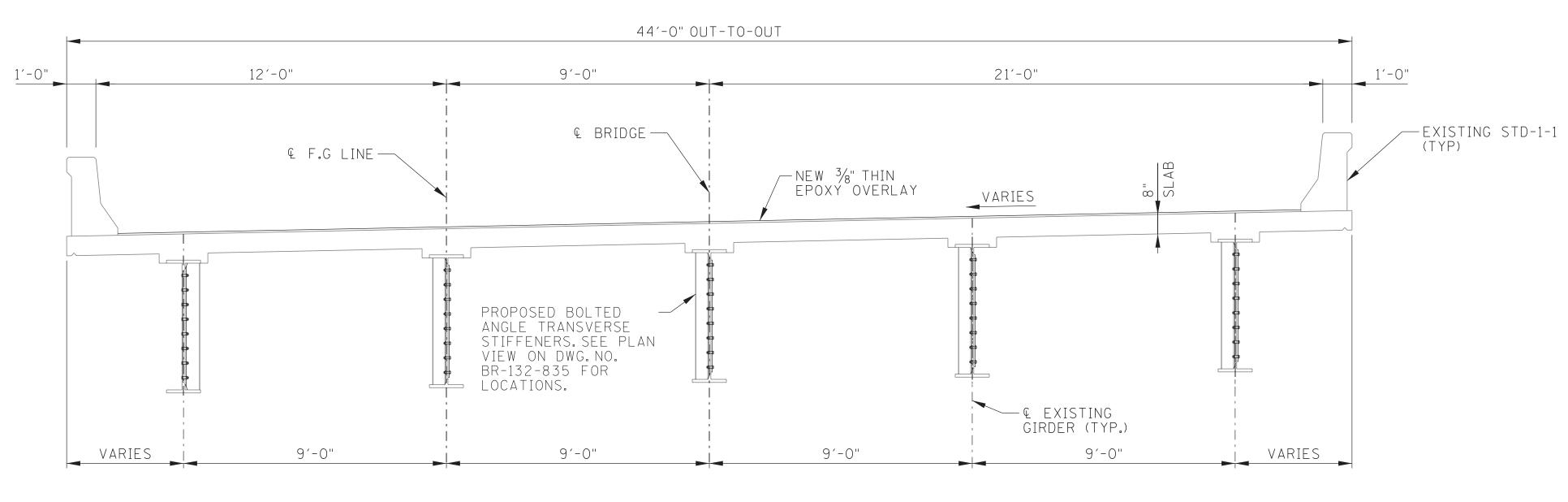
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 A. ALLSBROOK
 DATE: 07/2025





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	PROJECT NO.		YEAR	SHEET NO.	
1	91040- M3	3 -015	2025		
	REVISIONS				
NO	NO. DATE BY		BRIEF DESCRIPTION		



CONST. NO.:

PROJECT NO. YEAR SHEET NO.

191040- M3 -015

REVISIONS

NO. DATE BY BRIEF DESCRIPTION

TYPICAL CROSS-SECTION

(LOOKING FORWARD ON SURVEY)

THIN EPOXY OVERLAY NOTES:

THE TOP OF THE NEW OVERLAY SHALL CONFORM TO THE CROSS SLOPE AND GRADE OF THE BRIDGE.

TYPE I THIN EPOXY OVERLAY SYSTEM - USE DECK PRETREATMENT/PRIMER PER MANUFACTURER'S RECOMMENDATION AND 2 LIFTS OF AN EPOXY URETHANE COPOLYMER AND AGGREGATE. TYPE I OVERLAY SHALL BE APPLIED MECHANICALLY USING METERED EQUIPMENT: HAND MIXING IS NOT PERMITTED.

THIN OVERLAY SYSTEM SHALL BE FROM THE QUALIFIED PRODUCTS LIST 23, SECTION 02. MINIMUM OVERLAY THICKNESS SHALL BE $\frac{3}{8}$ ".

APPLICATION EQUIPMENT SHOULD:

- A) BE CAPABLE OF METERING, MIXING AND DISTRIBUTING THE POLYMER AND PRETREATMENT TO MANUFACTURER'S RECOMMENDATION.
- B) USE AN APPLICATION MACHINE THAT FEATURES POSITIVE DISPLACEMENT VOLUMETRIC METERING PUMPS CONTROLLED BY A HYDRAULIC POWER UNIT.
- C) STORE COMPONENTS IN TEMPERATURE CONTROLLED RESERVOIRS CAPABLE OF MAINTAINING 100 DEGREES FAHRENHEIT (PLUS OR MINUS 10 DEGREES) TO INSURE OPTIMAL MIXING.
- D) CHECK MIXING RATIO AT THE PUMP OUTLETS AS WELL AS CYCLE COUNTING CAPABILITIES TO MONITOR OUTPUT ON STANDARD FEATURES.
- E) USE MOTIONLESS IN-LINE MIXING SO AS TO NOT OVERLY SHEAR THE MATERIAL TO ENTRAP AIR IN THE MIX.
- F) MAXIMIZE MATERIAL WORKING TIME BY MIXING IT IMMEDIATELY BEFORE DISPENSING.

AGGREGATE SHALL BE ANGULAR, HAVING LESS THAN 0.2% MOISTURE AND FREE OF DIRT, CLAY, ASPHALT AND OTHER FOREIGN OR ORGANIC MATERIALS. AGGREGATE FOR ALL LAYERS SHALL BE BAUXITE OR FLINT ROCK PRODUCTS FLINT AND MEETS THE FOLLOWING GRADATION:

FOR THE CLOSURE POUR MATERIAL, SEE MANUFACTURER'S RECOMMENDATION ON CURE TIME AND STRENGTH BEFORE THE OVERLAY IS PLACED.

SEE MANUFACTURER'S RECOMMENDATIONS FOR REQUIRED AMBIENT AND SURFACE TEMPERATURES AND HUMIDITY LIMITS FOR APPLICATION.

THE CONCRETE DECK SURFACE SHALL BE CLEANED BY SHOTBLASTING TO REMOVE ANY OIL, DIRT, RUBBER, TRAFFIC STRIPPING, AND ANY OTHER POTENTIAL DETRIMENTAL MATERIAL SUCH AS CURING COMPOUND AND LAITANCES, WHICH THE MANUFACTURER AND ENGINEER'S OPINION WOULD PREVENT PROPER BONDING AND CURING OF THE MATERIAL. IN AREAS WHERE SHOTBLASTING EQUIPMENT CAN NOT REACH (I.E., ALONG BRIDGE RAILS) SANDBLASTING IS PERMITTED TO AN EXTENT TO THE ENGINEER'S AND MANUFACTURER'S APPROVAL. IMMEDIATELY BEFORE APPLICATION, ALL PREPARED SURFACES SHALL BE CLEANED WITH COMPRESSED AIR OR VACUUMED TO REMOVE DUST

THE CONTRACTOR IS TO PREVENT THE TRACKING OF TACKCOAT AND CONSTRUCTION DEBRIS ACROSS THE BRIDGE DECK PRIOR TO APPLICATION OF THIN EPOXY OVERLAY. MILLING THE BRIDGE DECK WILL NOT BE AN OPTION FOR TACKCOAT AND DEBRIS REMOVAL.

ALL SURFACES THAT ARE TREATED SHALL BE DRY AT THE TIME OF APPLICATION. THE OVERLAY SHALL NOT BE APPLIED WHEN IT HAS RAINED 24 HOURS PRIOR TO, OR RAIN IS FORECASTED WITHIN 8 HOURS AFTER, APPLICATION. THE MOISTURE CONTENT IN THE DECK SUBSTRATE SHALL BE TESTED. MOISTURE IS NOT TO EXCEED 4.5 PERCENT WHEN MEASURED BY ELECTRONIC METER OR BY TAPING A 4 FT X 4 FT POLYETHYLENE SHEET TO THE CONCRETE DECK, IF MOISTURE COLLECTS UNDER THE PLASTIC IN LESS TIME THAN IT WOULD TAKE FOR THE EPOXY TO CURE. IF EITHER TEST SHOWS EXCESS MOISTURE, THE DECK SHALL CONTINUE TO DRY BEFORE APPLICATION PROCEEDS.

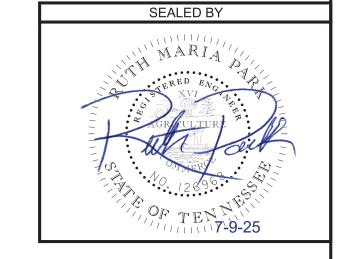
BLUSHING (A WAXY SURFACE COATING ON THE EPOXY) IS CAUSED BY THE REACTION OF MOISTURE WITH THE HARDENING AGENT. BLUSHING CREATES A SURFACE THAT MAKES FUTURE LAYERS DIFFICULT TO ADHERE. LIFTS THAT SHOW SIGNS OF BLUSHING SHALL BE REMOVED AND REPLACED PRIOR TO APPLICATION OF THE NEXT LAYER. THE COST TO REMOVE AND REPLACE AREAS SHALL BE AT THE CONTRACTOR'S EXPENSE.

TRAFFIC OTHER THAN APPLICATION EQUIPMENT, SHALL NOT BE ALLOWED ON ANY PORTION OF THE DECK THAT HAS BEEN SHOTBLASTED OR WHERE PART OF THE APPLICATION HAS BEEN PLACED.

THE MANUFACTURER SHALL HAVE A REPRESENTATIVE ON THE JOB SITE AT ALL TIMES DURING APPLICATION AND CURE TIME. THE REPRESENTATIVE, ALONG WITH CONSULTATION WITH ENGINEER, MAY SUSPEND ANY ITEM OF WORK THAT IS SUSPECT AND DOES NOT MEET THE REQUIREMENTS OF THE SPECIFICATIONS. WORK SHALL NOT RESUME UNTIL THE ENGINEER AND REPRESENTATIVE ARE SATISFIED THAT THE APPROPRIATE REMEDIAL ACTION HAS BEEN TAKEN BY THE CONTRACTOR.

THICKNESS VERIFICATION: THE PROJECT ENGINEER SHALL BE NOTIFIED OF THE NUMBER OF GALLONS USED ON THE PROJECT WITH NOTARIZED QUANTITY STATEMENTS FROM THE CONTRACTOR AND THE MANUFACTURER. THE CONTRACTOR SHALL VERIFY TO TDOT THAT THE OVERLAY IS AN AVERAGE OF AT LEAST 3/8 INCH THICK AT THREE RANDOM LOCATIONS AGREED UPON BY THE PROJECT ENGINEER AND THE MATERIAL MANUFACTURER REPRESENTATIVE. IF 3/8 INCH THICK AVERAGE IS NOT ACHIEVED, A RE-TEST SHALL BE PERFORMED IN ADJOINING AREAS. THIN AREAS SHALL BE RE-COATED AS DESCRIBED ABOVE BY THE CONTRACTOR AND REVERIFIED AT NO ADDITIONAL COST TO TDOT. THIS VERIFICATION MAY CONSIST OF CORES, HOLES, ETC., BUT IN ALL CASES ANY DESTRUCTIVELY TESTED AREAS SHALL BE REPAIRED BY THE CONTRACTOR BEFORE FINAL ACCEPTANCE BY THE PROJECT ENGINEER. SEE MANUFACTURER'S RECOMMENDATIONS FOR REQUIRED AMBIENT AND SURFACE TEMPERATURES AND HUMIDITY LIMITS FOR APPLICATION.

ALL COSTS FOR AGGREGATE, EPOXY FOR MINIMUM OF TWO LIFTS, SURFACE PREPARATION, LABOR AND ANY OTHER MISCELLANEOUS MATERIALS REQUIRED TO PLACE THIN OVERLAY SHALL BE INCLUDED IN ITEM NO. 617-04.01, TYPE I THIN OVERLAY (EPOXY-URETHANE), S.Y., AS CALLED FOR ON THE QUANTITY SHEET.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
REPAIR DETAILS
RAMP M OVER
INTERSTATE 40
BR. NO. 19-I0040-29.02
FED. ID. NO. 19I00400161
DAVIDSON COUNTY
2025

 PIN NO.:
 133533.00

 DESIGN BY:
 R. PARK
 DATE: 07/2025

 DRAWN BY:
 L. MENDEZ
 DATE: 07/2025

 SUPERVISED BY:
 D. MCCRARY
 DATE: 07/2025

 CHECKED BY:
 A. ALLSBROOK
 DATE: 07/2025

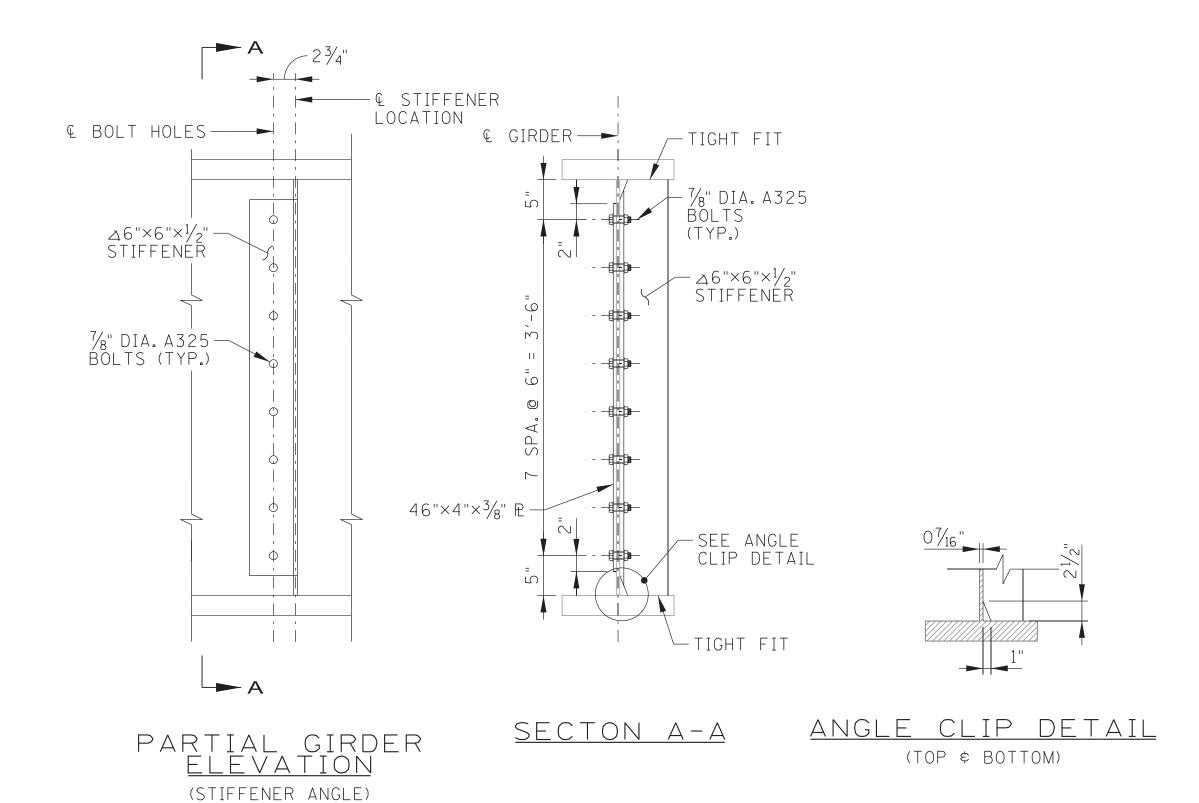


SHEET NO. PROJECT NO. YEAR 2025 19I040- M3 -015 **REVISIONS** NO. DATE BRIEF DESCRIPTION BY - -CROSS-FRAME (TYP.) - -- -4 EQ.SPA. - -- -∕- € BEAM NO.1 2 EQ.SPA. 3 EQ. SPA. 3 EQ.SPA.

3 EQ.SPA. 6'-0" 2 EQ. SPA. 2 EQ.SPA. — € BEAM NO.2 — € BRG.ABUT.NO.2 3 EQ.SPA. 3 EQ.SPA. 3 EQ.SPA. & BRG. Abut.no.1 ,—€ BEAM NO.3 2 EQ. SPA. - & BEAM NO. 4 3 EQ. SPA. 3'-0" BEG. OF BRIDGE -STA. 83+10.09 2 EQ.SPA. 2 EQ.SPA. - & BEAM NO.5 3 EQ.SPA. 3 EQ.SPA. -END OF BRIDGE └- Q SURVEY RAMP M STA.85+88.09 3 EQ.SPA. -LOCATION OF PROPOSED STIFFENERS (TYP.) ▲ DENOTES: 2 EQUAL SPACES 4 EQ.SPA. € BENT NO.1

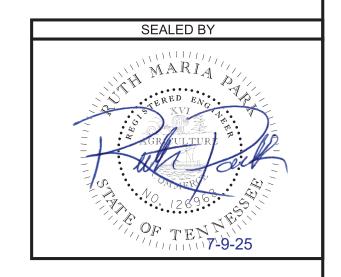
FRAMING PLAN

NOTE: SEE TRAFFIC CONTROL PLANS FOR SEQUENCE OF STIFFENER INSTALLATION



NOTES:

- 1. ALL STEEL TO BE ASTM A709 GRADE 50 UNLESS OTHERWISE NOTED
- 2. ALL BOLTS TO BE FIELD BOLTED.
- 3. USE $\frac{7}{8}$ " \(\phi \) ASTM F3125 GRADE A325 TYPE 1 BOLTS
- 4. ALL BOLTS SHALL BE TORQUED TO AASHTO SPECIFICATIONS.
- 5. ALL NEW STRUCTURAL STEEL COMPONENTS SHALL BE PAINTED IN ACCORDANCE WITH SECTION 603.05(B.2) OF THE STANDARD SPECIFICATION AND ACCORDING TO PAINTING REQUIREMENTS. COLOR OF THE TOP COAT SHALL COMPLY WITH AMS-STD-595A. FEDERAL STANDARD NO. 30059. BROWN. COST OF PAINTING NEW STRUCTURAL STEEL TO BE INCLUDED IN ITEM NO.602-10.32, STRUCTURAL STEEL (REPAIRS)(LB.).
- 6. THE CONTACT SURFACES OF THE PROPOSED ANGLE STIFFENERS AND THE EXISTING STEEL SHALL BE CLEANED OF DEBRIS AND SURFACE CONTAMINANTS BEFORE THE STIFFENERS ARE ASSEMBLED AND BOLTED. COST OF CLEANING CONTACT SURFACES PRIOR TO BOLTING TO BE PAID UNDER ITEM NO. 602-10.32, STRUCTURAL STEEL (REPAIRS) (LB.).



STATE OF TENNESSEE **DEPARTMENT OF TRANSPORTATION** SUPERSTRUCTURE REPAIR DETAILS RAMP M OVER **INTERSTATE 40** BR. NO. 19-I0040-29.02 FED. ID. NO. 19100400161 DAVIDSON COUNTY 2025

CONST. NO.:

BR-132-835

PIN NO.: 133533.00 **DESIGN BY:** R. PARK DATE: 07/2025 DATE: 07/2025 DRAWN BY: R. PARK DATE: 07/2025 D. MCCRARY SUPERVISED BY: DATE: 07/2025 CHECKED BY: A. ALLSBROOK



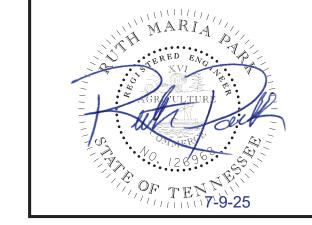
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ELEVATION (LOOKING FORWARD ON SURVEY)

EST. REPAIR QUANTITIES

LOCATION	ITEM NO.604-10.05 OR 604-10.54 APPROX.REPAIR AREAS (S.F.)
BENT NO.1	10

ELEVATION (LOOKING BACK ON SURVEY) DENOTES: APPROXIMATE AREA TO BE REPAIRED UNDER ITEM NO. 604-10.05 AND/OR 604-10.54. SEE MISCELLANEOUS BRIDGE REPAIR DETAILS ON DWG. NO. BR-132-838.



SEALED BY

STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION BENT DETAILS

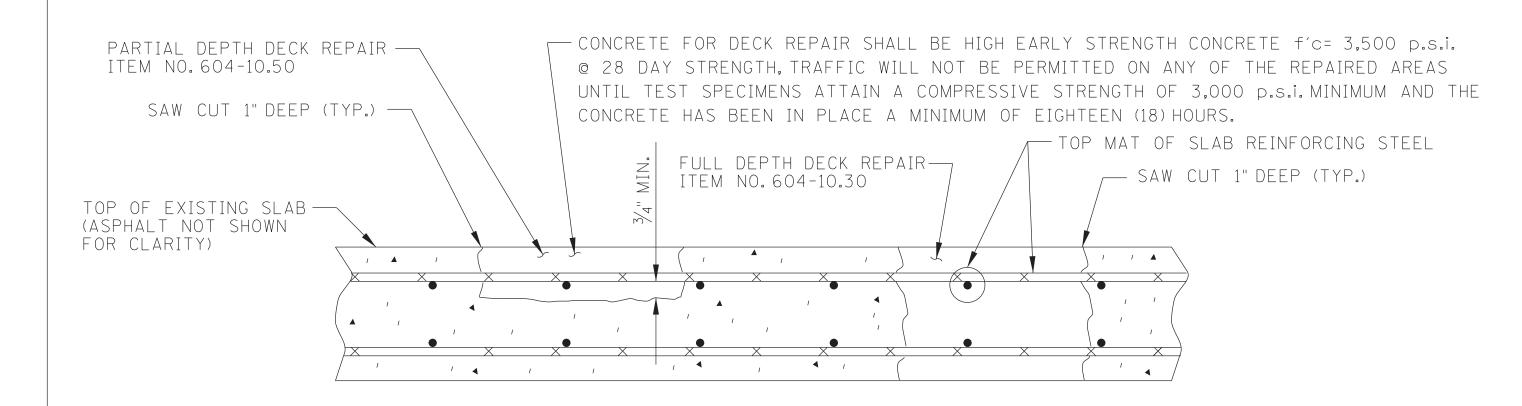
> RAMP M OVER **INTERSTATE 40** BR. NO. 19-I0040-29.02 FED. ID. NO. 19100400161 **DAVIDSON COUNTY** 2025

> > BR-132-836

PIN NO.: 133533.00 DESIGN BY: R. PARK DRAWN BY: R. PARK SUPERVISED BY: D. MCCRARY DATE: 07/2025 CHECKED BY: A. ALLSBROOK







DETAIL SHOWING FULL AND PARTIAL DEPTH DECK REPAIR

REMOVE CONCRETE IN ALL DELAMINATED AREAS TO A DEPTH OF $\frac{3}{4}$ " BELOW THE TOP BAR OF THE TOP MAT OF REINFORCING STEEL. ALL REINFORCING STEEL IN AREAS OF DECK REPAIR SHALL BE COMPLETELY CLEANED. AREAS OF CONCRETE REMOVAL SHALL BE DESIGNATED BY PERSONNEL FROM THE BRIDGE REPAIR OFFICE. INSPECTIONS TO DETERMINE AREAS OF DECK REPAIR SHALL BE SCHEDULED WITH THE BRIDGE REPAIR OFFICE AT LEAST THREE (3) DAYS IN ADVANCE. DECK REPAIR WILL BE PAID FOR UNDER ITEM NO. 604-10.50, BRIDGE DECK REPAIR (PARTIAL DEPTH OF SLAB) OR ITEM NO. 604-10.30, BRIDGE DECK REPAIR (FULL DEPTH OF SLAB). DURING PARTIAL DEPTH REPAIRS, SHOULD DETERIORATED CONCRETE BE ENCOUNTERED WHICH APPEARS TO RUN FULL DEPTH IN THE SLAB, THE ENGINEER MAY DESIGNATE THESE AREAS TO BE REPAIRED UNDER ITEM NO. 604-10.30. POWER DRIVEN HAND TOOLS USED FOR THE REMOVAL OF UNSOUND CONCRETE IN MAKING PARTIAL AND FULL DEPTH REPAIRS ARE SUBJECT TO THE FOLLOWING RESTRICTIONS:

- 1. (PARTIAL DEPTH REPAIRS) PNEUMATIC HAMMERS HEAVIER THAN NOMINAL 60 POUND CLASS SHALL NOT BE USED.
- 2. (FULL DEPTH REPAIRS) PNEUMATIC HAMMERS HEAVIER THAN NOMINAL 90 POUND CLASS SHALL NOT BE USED. ALSO ALL DECK REPAIR OVER BEAMS WILL BE RESTRICTED TO 60 POUND PNEUMATIC HAMMERS.
- 3. CHIPPING HAMMERS OF THE 15 POUND CLASS SHALL BE USED TO REMOVE CONCRETE FROM BENEATH ANY REINFORCING STEEL.

THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD ALL 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 OF ITEMS BID ON.

WHEN REMOVING CONCRETE FROM THE LIMITS SHOWN, CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING TRANSVERSE REINFORCING STEEL. EXISTING REINFORCING STEEL THAT IS EXPOSED DURING REMOVAL OF PORTIONS OF CONCRETE SLAB SHALL BE THOROUGHLY CLEANED AND MAINTAINED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING REPAIRS. EXTENSIVE AREAS OF DECK REMOVAL WILL REQUIRE A SUPPORT SYSTEM FOR THE BEAM AND DETAILS SUBMITTED TO THE ENGINEER FOR APPROVAL.

NOTE: ITEM NO. 604-10.30 AND ITEM NO. 604-10.50 SHALL BE BID WITH THE CONTINGENCY THAT THESE ITEMS MAY BE INCREASED. DECREASED, OR ELIMINATED AS DIRECTED BY THE ENGINEER.

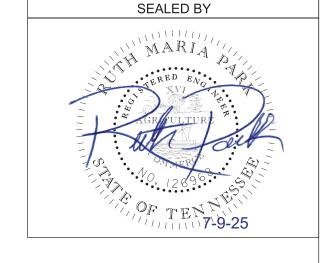
PIN NO.:	133533.00		
DESIGN BY:	R. PARK	DATE:	07/2025
DRAWN BY:	R. PARK	DATE:	07/2025
SUPERVISED BY:	D. MCCRARY	DATE:	07/2025
CHECKED BY:	A. ALLSBROOK	DATE:	07/2025





CONST. NO.:

PROJECT NO.			YEAR	SHEET NO.
19I040- M3 -015			2025	
			REVISIONS	
NO. DATE BY BRIEF DESCRIPTION			DESCRIPTION	



STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

> MISCELLANEOUS REPAIR DETAILS RAMP M OVER **INTERSTATE 40** BR. NO. 19-I0040-29.02 FED. ID. NO. 19100400161 DAVIDSON COUNTY 2025

DETAIL AT CORNERS

CONST. NO.:

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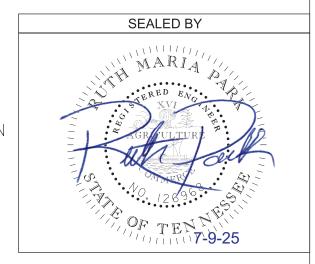
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	PROJECT NO.		YEAR	SHEET NO.		
19	19I040- M3 -015		2025			
			REVISIONS			
NO.	DATE	BY	BRIEF	DESCRIPTION		

NOTES:

- I. THE CONTRACTOR SHALL VERIFY IN THE FIELD THE EXTENT OF ALL SPALL AND/OR DELAMINATED DAMAGE. ALL SPALLED OR DELAMINATED AREAS NOT INDICATED ON THESE DRAWINGS SHALL BE REPAIRED AS DIRECTED AND APPROVED BY THE ENGINEER.
- 2. REPAIR DETAILS APPLY TO ALL HOLLOW AREAS AND SPALLS IN EITHER PIERS OR ABUTMENTS AND OTHER AREAS DESIGNATED IN THE PLANS.
- 3. SURFACE PREPARATION, PROPORTION AND MIXING OF MATERIALS, APPLICATION OF MATERIALS, AND REPAIR PROCEDURES SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.
- 4. NEW CONCRETE PATCHES SHALL MATCH SHAPE OF EXISTING CONCRETE SURFACES UNLESS NOTED OTHERWISE.
- 5. ALL EXPOSED REINFORCEMENT WITHIN REPAIR AREA SHALL BE CLEANED, AND SAND BLASTED. BROKEN PORTION OF REBARS SHALL BE REMOVED AND LAP SPLICED WITH NEW REBARS.
- 6. IF CORRODED REINFORCING BARS HAVE SECTION LOSSES EXCEEDING 25% THE CORRODED BARS SHALL BE REPLACED IN ACCORDANCE WITH THE REINFORCEMENT REPAIR DETAIL SHOWN ON THIS SHEET.
- 7. ALL CRACKS WHICH ARE ASSOCIATED WITH DELAMINATION SHALL BE CUT OUT TOGETHER WITH THE DELAMINATED CONCRETE.
- 8. TO THE EXTENT REASONABLE LIMITS OF ALL PATCHES IN ELEVATION SHALL MAINTAIN HORIZONTAL AND VERTICAL LINES UNLESS NOTED OTHERWISE.
- 9. IF REPAIR AREA EXTENDS NEAR EDGE OF MEMBER, DO NOT REMOVE DAMAGED REINFORCEMENT NEAR EDGE WITHIN MINIMUM LAP SPLICE LENGTH.
- 10. HOOK BOLTS SHALL BE SPACED AT 1'-O" CENTERS FOR REPAIRS LESS THAN 3" THICK AND 1'-6" FOR GREATER DEPTH.
- II. IF REPAIR INCLUDES A CORNER OF MEMBER, PROVIDE HOOK BOLTS IN BOTH SURFACES.
- 12. WHERE NEW REINFORCING BAR HAS BEEN DETERMINED TO BE REQUIRED, BILL OF STEEL IS SHOWN ON THE REPAIR DRAWING. ADDITIONAL BAR NOT INDICATED ON THE DRAWINGS SHALL BE PROVIDED AS ORDERED BY THE ENGINEER.
- 13. NOTIFY THE ENGINEER IF DEPTH OF DETERIORATED CONCRETE FOUND EXCEEDS THE MINIMUM LIMIT SPECIFIED.
- 14. FOR AREAS WITH ONLY SURFACE DETERIORATION, THE ENGINEER MAY ELECT TO USE ITEM 604-10.05 WHICH DOES NOT REQUIRE THE REMOVAL OF CONCRETE BEHIND THE EXISTING REBAR.
- 15. HOOK BOLTS, WIRE FABRIC, AND REINFORCING STEEL SHALL BE INCLUDED IN PRICE BID FOR CONCRETE REPAIRS, ITEM NO. 604-10.54, OR CONCRETE, ITEM NO. 604-10.05 AS DESIGNATED BY THE ENGINEER.



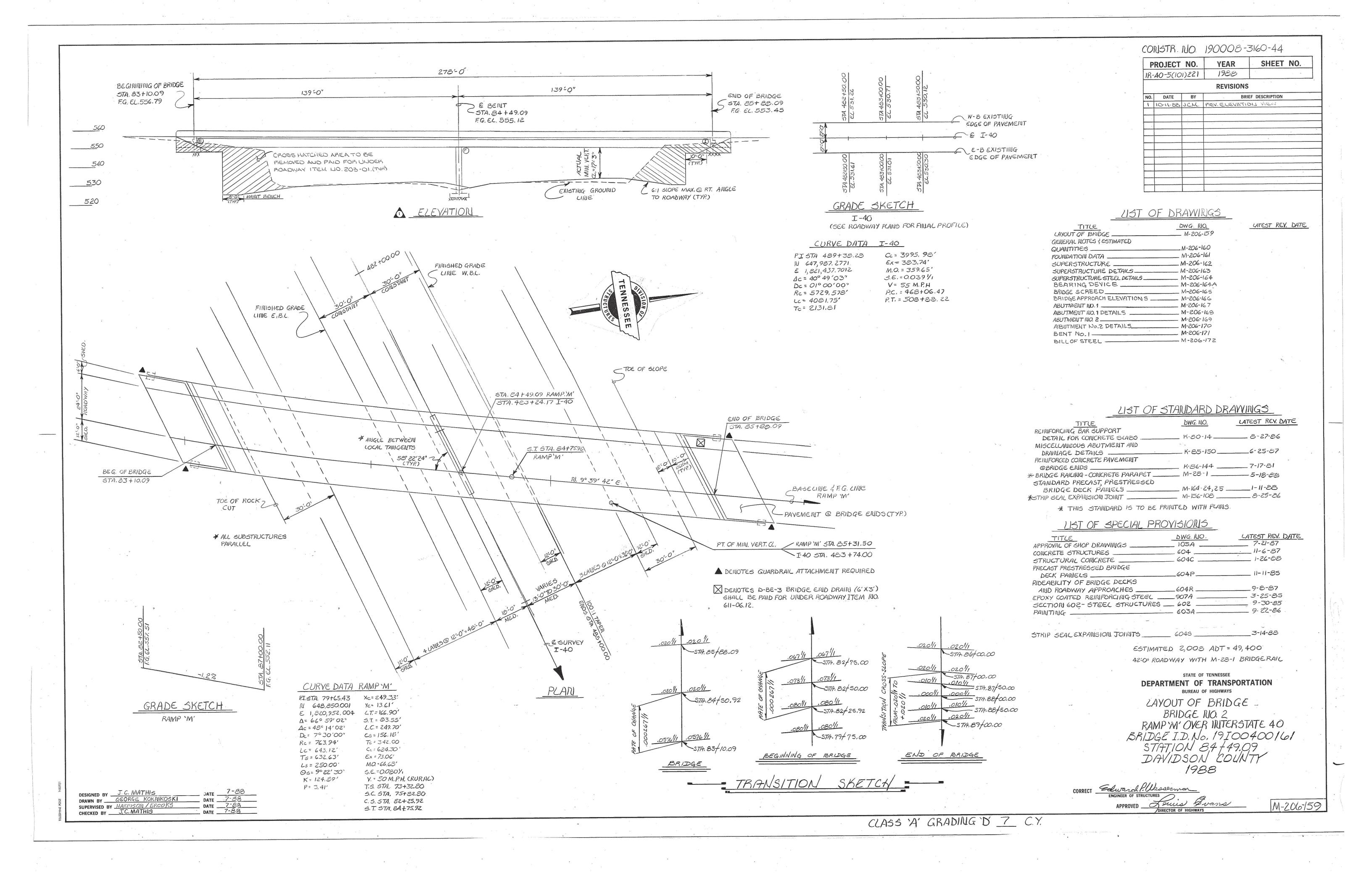
STATE OF TENNESSEE DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS
REPAIR DETAILS
RAMP M OVER
INTERSTATE 40
BR. NO. 19-I0040-29.02
FED. ID. NO. 19I00400161
DAVIDSON COUNTY
2025

BR-132-838



DETAIL I



GENERAL NOTES

SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. (MARCH 1981 EDITION). LOADING: HS 20-44

DESIGN SPECIFICATIONS: AASHTO 1983 EDITION WITH ADDENDA. CONCRETE: TO BE CLASS "A" (CAST-IN-PLACE) F'C = 3000 PSI.

EXCEPT, DECK SLAB TO BE F'C=4,500 PSI. CLASS 'A' CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED BY SPECIAL PROVISION 604-C.

BRIDGE DECK SURFACE FINISH: TO BE IN ACCORDANCE WITH NOTE C, SHEET 2, OF SPECIAL PROVISION 604.

BRIDGE DECK FORMS: BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS MAY BE EITHER REMAIN-IN-PLACE STEEL OR PRECAST, PRESTRESSED CONCRETE PANELS. IN EITHER CASE, FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO SUPPORT MEMBERS. THE CONTRACTOR SHALL TAKE STEPS TO ASSURE THE STABILITY OF THE EXTERIOR GIRDER AGAINST TWISTING OR OVERTURNING DURING SLAB POURING OPERATIONS. WHEN THE WIDTH OF THE OVERHANG EXCEEDS THE DEPTH OF THE EXTERIOR GIRDER, DETAILS AND DESIGN CALCULATIONS FOR THE CANTILEVER SUPPORT SYSTEM SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

BEARING DEVICES SHALL BE IN ACCORDANCE WITH THE DETAILS AND DIMENSIONS SHOWN ON DRAWING M-206-164A. THE CONTRACTOR MAY ALSO SUBMIT ALTERNATE DETAILS FOR APPROVAL.

REINFORCING STEEL: TO BE ASTM A615 GRADE 60. STANDARD CRSI HOOK DETAILS APPLY UNLESS OTHERWISE NOTED ON BILL OF STEEL. SPACING DIMENSIONS ARE CENTER TO CENTER UNLESS OTHERWISE NOTED ON DETAIL DRAWINGS. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, REINFORCEMENT SHALL BE PLACED WITHIN A TOLERANCE OF ± ½. THE SUFFIX E, FOR BARS SO MARKED, DENOTES EPOXY COATED REINFORCEMENT. SEE SPECIAL PROVISION 907A.

BRIDGE RAIL SYSTEM: BUILD PARAPETS ACCORDING TO STANDARD DRAWING M-28-1.

SHOP DRAWINGS: SEE SPECIAL PROVISION NO. 105A.

CONCRETE SEAL: TO BE EITHER:

A. SONNEBORN HIM 5000 S, B, OR K (SPRAY BRUSH OR BOLL ON)

A. SONNEBORN HIM 5000 S, B, OR R (SPRAY BRUSH OR ROLL ON)

B. 3M SCOTCH CLAD, COLD APPLIED, SINGLE COMPONENT MOISTURE CURING POLYURETHANE ELASTOMER.

CONCRETE SEAL TO BE APPLIED TO THE FRONT VERTICAL FACE OF THE ABUTMENT BACKWALL, THE FRONT AND TOP OF ABUTMENT BEAMS OR ANY OTHER FACES THAT ARE DEEMED NECESSARY)
BEFORE PLACEMENT OF BEARING DEVICES AND APPLYING
TEXTURED COATING. CONCRETE SHALL BE CLEAN AND DRY BEFORE
APPLYING THE CONCRETE SEAL AND THE THICKNESS OF THE SEAL SHALL
NOT BE LESS THAN 50 MILS. THE COST SHALL BE INCLUDED IN THE UNIT PRICE OF THE EXPANSION DEVICE.

STRUCTURAL STEEL: SEE NOTES ON DRAWING NO. M-206-162.

WELDING: SEE SPECIAL PROVISION NO. 602 AND NOTES ON DRAWING NO. M-206-164.

RADIOGRAPHIC, ULTRASONIC, AND MAGNETIC INSPECTION: SEE SPECIAL PROVISION NO. 602. NOTES ON DRAWING NO. M-206-162.

STEEL STRUCTURES: SEE TENNESSEE STANDARD SPECIFICATIONS SECTION 602 AND NOTES ON DRAWING NO. M-206-162.

PAINT: SYSTEM B - INORGANIC ZINC - URETHENE FINISH BROWN TOP COAT SEE TENNESSEE STANDARD SPECIFICATION 603.05(B) AND SPECIAL PROVISION 603A.

NON-PAY ITEMS: ONLY ITEMS SHOWN ON THE PROPOSAL AS PAY ITEMS WILL BE PAID FOR. COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS FOR THE ENTIRE CONTRACT SHALL BE INCLUDED IN THE PRICE BID FOR PAY ITEMS.

APPLIED TEXTURE FINISH MOUNTAIN GRAY NO. 36440

* NOTE : CONSTRUCTION OF BENT FOR THIS STRUCTURE WAS INCLUDED IN A PREVIOUS CONTRACT.

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	ITEM NO.	DESCRIPTION	UNIT	TOTAL	SUPERSTRUCTURE	ABUTMENT NO.1	BENT NO.1	ABUTMENT NO.2
2)	204-02.01	DRY EXCAVATION (BRIDGES)	C.Y.	96		50 .		46
	204-04.01	ROCK EXCAVATION (BRIDGES)	C.Y.	48		12		36
	204-05	ROCK DRILLING (BRIDGES)	L.F.	24		12		12
(3)	602-03	STEEL STRUCTURES	L.S.	1		4		
	604-01.12	CLASS 'A' CONCRETE (BRIDGE DECK)	C.Y.	317	315	2		
	604-02.03	EPOXY COATED REINFORCING STEEL	LB.	87,573	87,573			
(8)	604-03.01	CLASS 'A' CONCRETE (BRIDGES)	C.Y.	107	65	24		18
A 0	604-03.02	STEEL BAR REINFORCEMENT (BRIDGES).	LB.	15,703	5,796	5,083		4,824
	604-03.04	PAVEMENT AT BRIDGE ENDS	S.Y.	220				
	604-04.01	APPLIED TEXTURE FINISH (NEW STRUCTURES)	S.Y.	958				
(10)(7)	604-11.01	EXPANSION DEVICE (@ ABUTMENT NO. 1)	L.F.	52	×	52		
(5)(6)	620-03	CONCRETE PARAPET (M-28-1)	L.F.	601	: -1 × %	VIII II	9 9 A 99 A 1 9 8 4 4	
(4)	710-09.01	6" PERF. PIPE WITH VERTICAL DRAIN SYSTEM	L.F.	122		61	Corp. 2	61
\sim	710-09.02	6" PIPE UNDERDRAIN	L.F.	33		17		16
· .	908-21.02	BEARINGS (ABUTMENT No.1)	EA.	5	,	5		
	908-21.03	BEARINGS (BENT No.1)	EA.	5			5	
	*							
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1) NOTE: SQUARE YARD FOR PAVEMENT AT BRIDGE ENDS SHALL BE MEASURED AS ROAD SURFACE AREA AND SHALL INCLUDE ALL CONCRETE, REINFORCING STEEL, PILES, JOINT MATERIAL, NOTCH FOR ROADWAY DRAIN, SURFACE FINISH AS PER SP604 AND ANY OTHER INCIDENTALS NECESSARY FOR COMPLETE INSTALLATION.

(2) EXCAVATION BASED ON EXISTING GROUND AND FINAL PROFILE.

NOTE: LUMP SUM: TOTAL ESTIMATED WEIGHT OF 5/5,070 LBS. OF (ABG)
STRUCTURAL STEEL INCLUDES SHEAR CONNECTORS, BOLTS, ETC. ALSO SEE
TENNESSEE STANDARD SPECIFICATIONS SECTION 602.53 AND 602.54.

4 NOTE: COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN COST OF PERFORATED PIPE.

NOTE: THE COST OF 8 INSERT ASSEMBLIES AND 32 7/8" DIA. X 4" HEX HEAD BOLTS, (A307), TO BE INCLUDED IN ITEM 620-03.

6 NOTE: ALL REINFORCING STEEL IN THE PARAPETS SHALL BE EPOXY COATED. PRICE TO BE INCLUDED IN THE PRICE BID FOR ITEM 620-03.

THE EXPANSION JOINT AT ABUT. NO. 1 SHALL BE IN ACCORDANCE WITH SPECIAL PROVISION 604S AND STANDARD DRAWING M-156-108. THE TOTAL REQUIRED MOVEMENT IS 4". SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF STRUCTURES FOR APPROVAL.

8 NOTES: COST OF RUBBER BONDING CEMENT AND ELASTOMERIC BEARING PADS TO BE INCLUDED IN UNIT PRICE BID FOR CLASS "A" CONCRETE.

9 NOTE: THE COST OF BITUMINOUS-FIBERBOARD, ETC., AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN BRIDGE ITEMS BID ON.

10 THE PRICE BID FOR ROADWAY EXPANSION DEVICES TO INCLUDE THE COST OF 62 S.Y. OF CONCRETE SEAL REQUIRED. SEE GENERAL NOTES FOR DESCRIPTION OF CONCRETE SEAL.

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APPLIED TEXTURE FINISH SKETCH

FINISHING CONCRETE SURFACES: CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.22 OF THE TENNESSEE STANDARD SPECIFICATION.

AN APPLIED TEXTURE FINISH SHALL BE USED IN LIEU OF A CLASS 2 FINISH.

THE COLOR OF THE FINISH SHALL BE SIMILAR TO MOUNTAIN GRAY

FEDERAL COLOR STANDARD NO. 595A, AND A COLOR SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO TEXTURE FINISH SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAULING OPERATIONS AT THE BRIDGE SITE. PAYMENT FOR THE APPLIED TEXTURE FINISH SHALL BE UNDER ITEM 604-04.01.

NOTE: IN ADDITION TO AREAS SHOWN IN THE ABOVE SKETCH, THE FOLLOWING EXPOSED AREAS SHALL RECEIVE AN APPLIED TEXTURE FINISH: WINGWALLS, EXTERIOR PORTIONS OF ENDWALLS, ABUTMENT, AND BENT.

BRIDGE No. 2

STATE OF TENNESSEE

CONST. NO. 19008-3160-44

YEAR

NO. DATE BY BRIEF DESCRIPTION

2 10-11-88 JCM REV. GELLEHAL NOTES

1988

REVISIONS

1 9-26-88 HMB ADDED ITEMS: 908-21.02 4908-21-03

3 11-22-38 JCH REV. EPOXY-CONTED REINF STEECET

4 6-13-99 JCM REU. FPOXY-COATED REINF. STEELOTY

5 10-11-89 JCM REV. EPOXY-COATED REINF. STEEL

AND STEEL BAR REINE QTY.

PROJECT NO.

IR-40-5(101)221

SHEET NO.

DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

GENERAL NOTES AND
ESTIMATED QUANTITIES

MP 'M' OVER INTERSTATE 40

STATION 84+49 09

STATION 84+49.09
DAVIDSON COUNTY

1988

CORRECT Edward P. Wasserman

ENGINEER OF STRUCTURES

APPROVED Device Grown

M-206-160

DESIGNED BY J.C. MATHIS

DATE 5-88

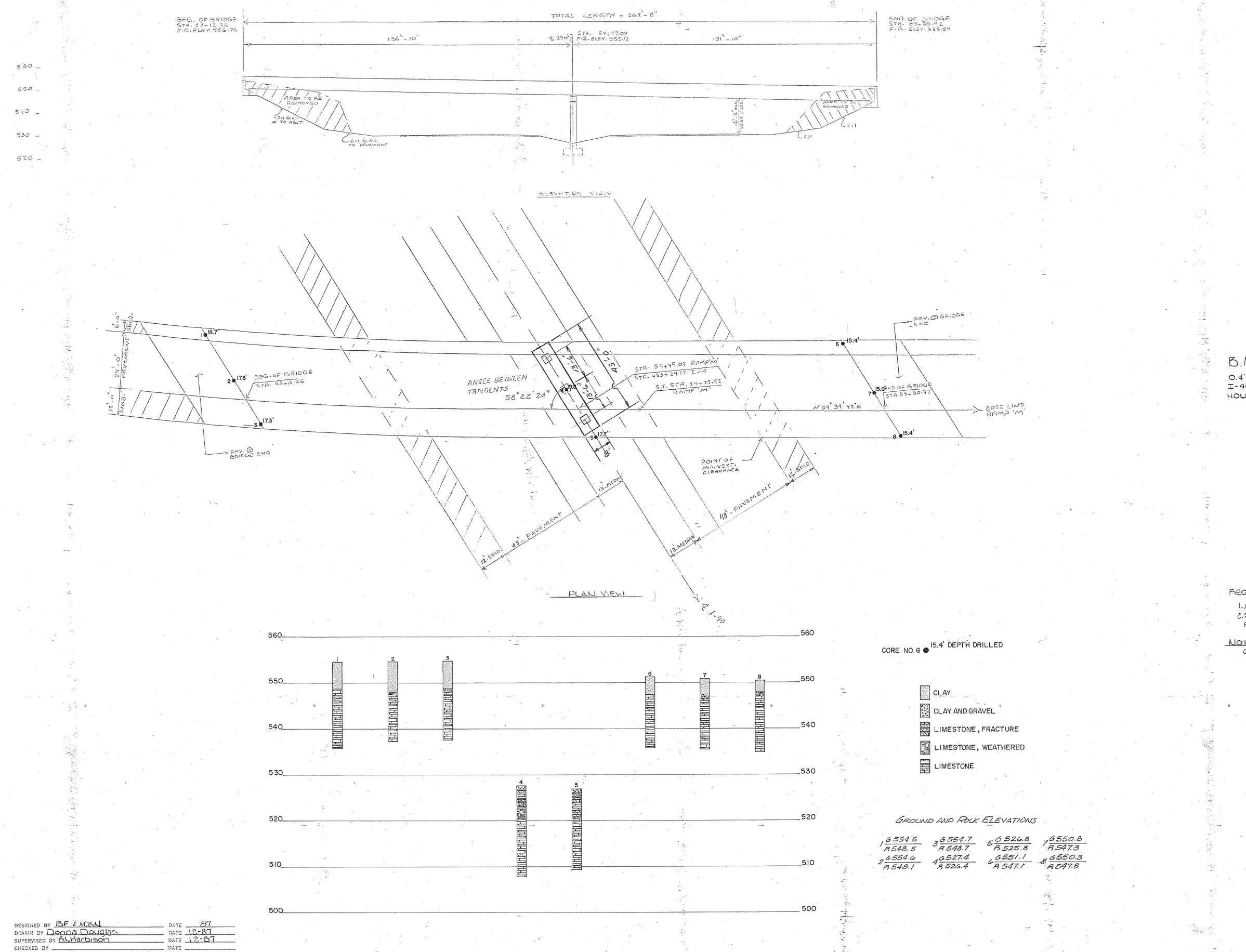
DRAWN BY GEORGE KORNIKOSKI

SUPERVISED BY HARBISON/BROOKS

CHECKED BY J.C. MATHIS

DATE 8-88

DATE 8-88



P	ROJECT	NO.	YEAR	SHEET NO.		
IR	-40-5(1	01)221	1988			
	-		REVISIONS			
NO.	DATE	вү	BRI	EF DESCRIPTION		
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1						

B.M. EL.520.87

0.4' BT. STA. 486+63.00 I-40 CENTER OFMAN-HOLE IN MEDIAN.

REQUIRED:

1. APPROXIMATE EXISTING GROUND LINE AND ROCK LINE. C. SUFFICIENT GROUND, ROCK, AND CORING INFORMATION FOR BRIDGE FOUNDATIONS.

MOTE: THIS DRAWING IS FOR FOUNDATION INFORMATION ONLY AND IS NOT TO BE USED AS A LAYOUT.

BRIDGE No. 2

DEPARTMENT OF TRANSPORTATION

BUREAU OF HIGHWAYS

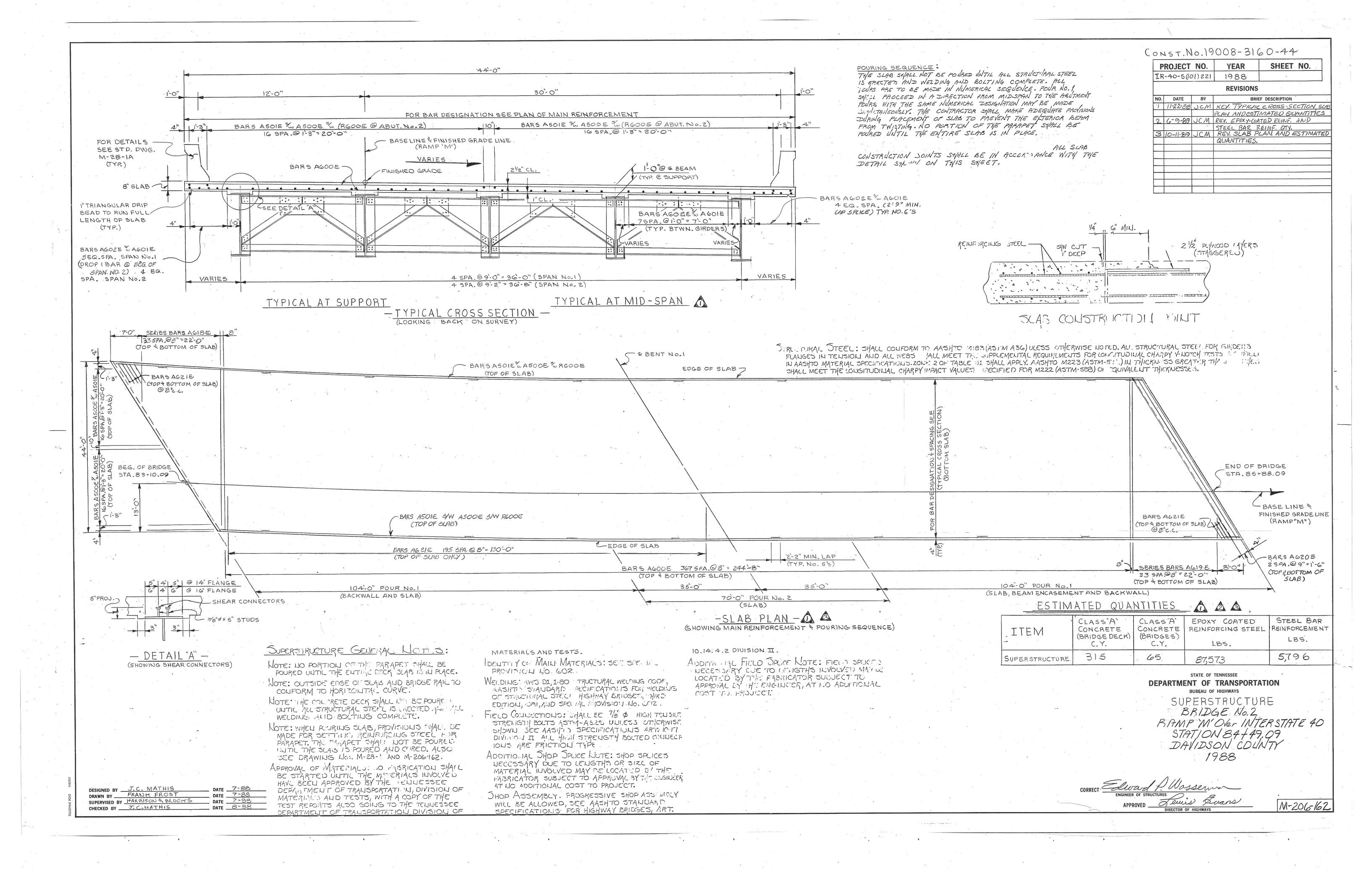
FOUNDATION DATA RAMP "M" over INTERSTATE 40 STATION 84+49.09 DAVIDSON COUNTY 1988

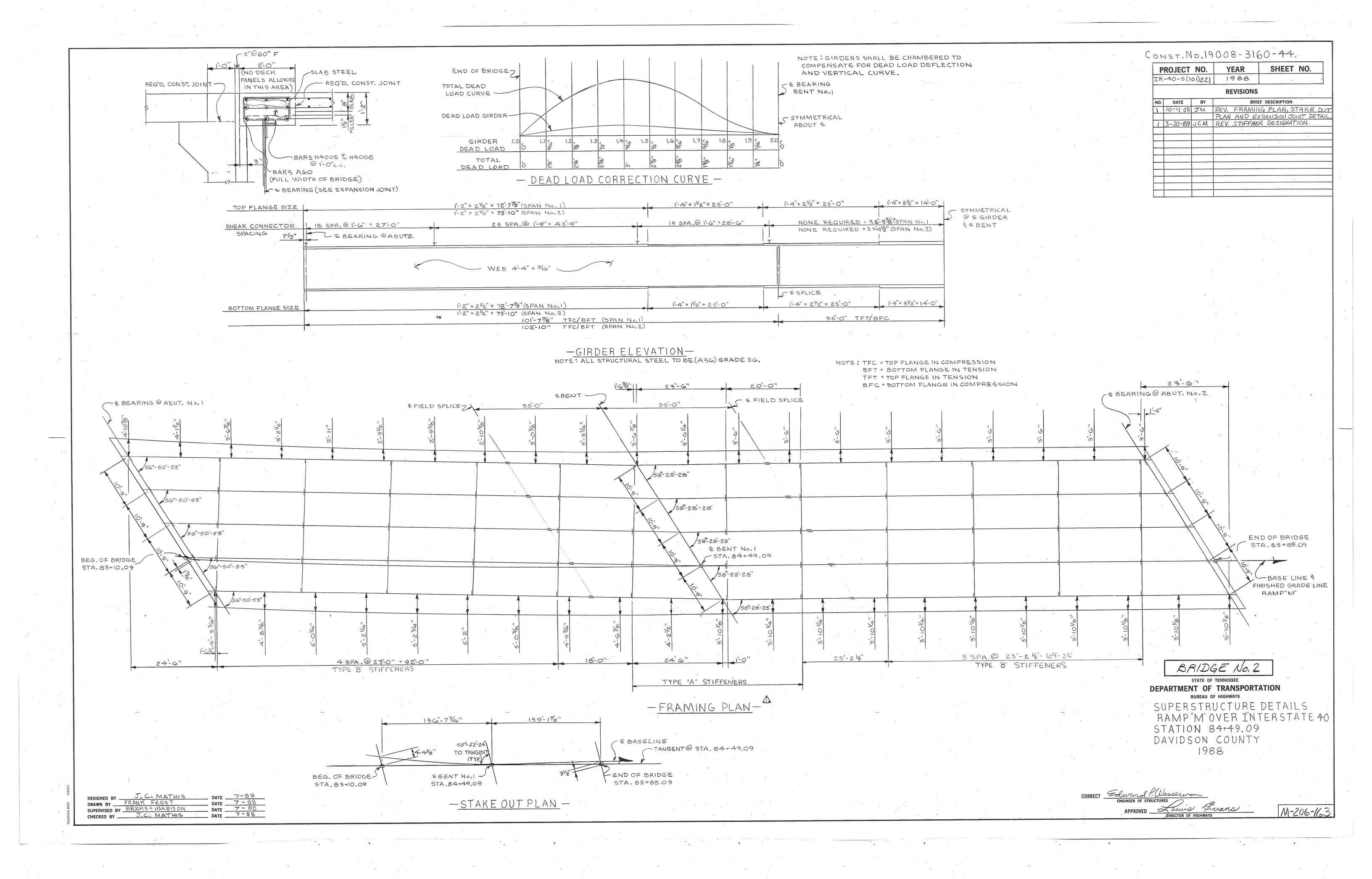
CORRECT Slevard Wasserman

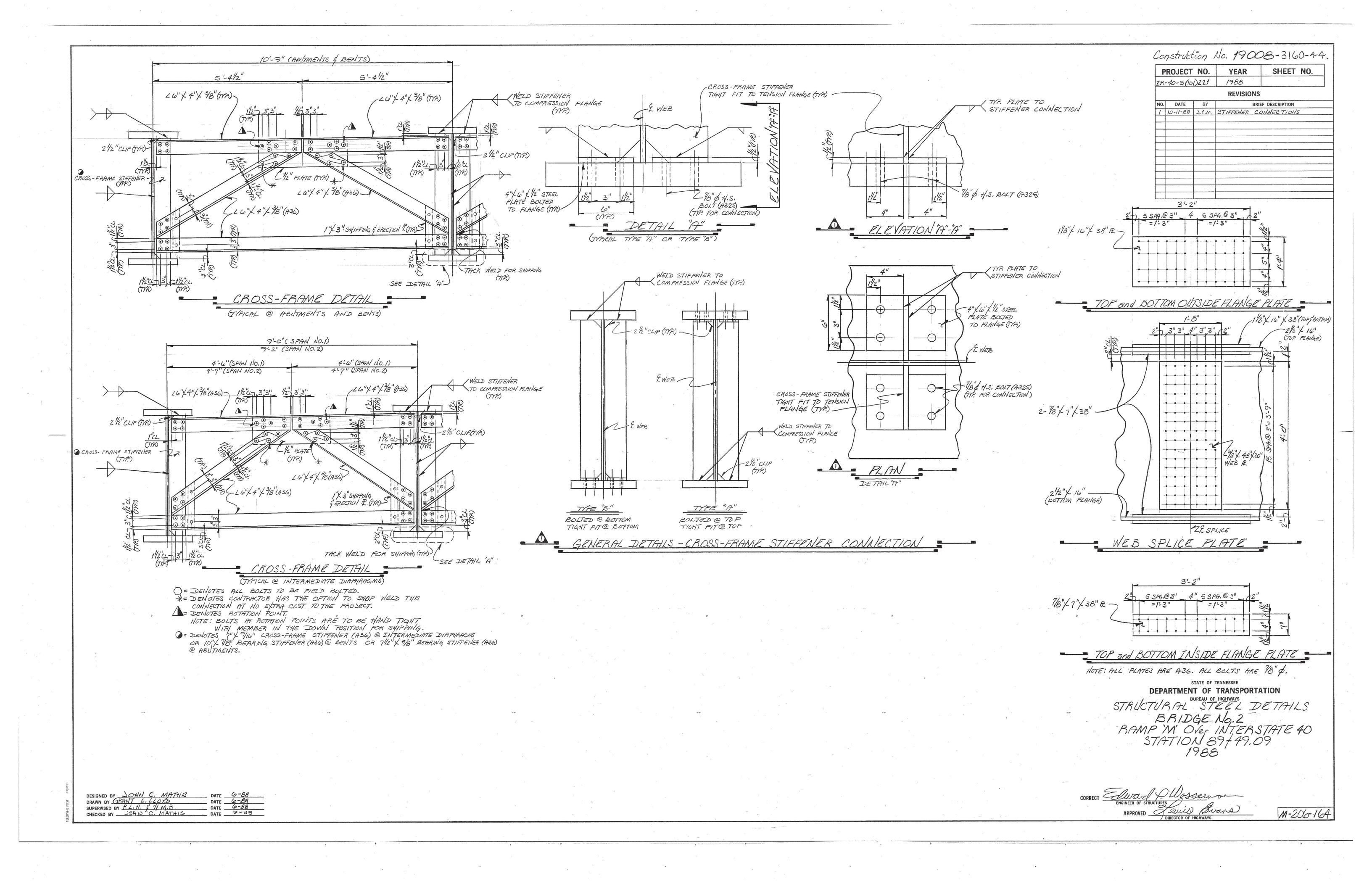
ENGINEER OF STRUCTURES

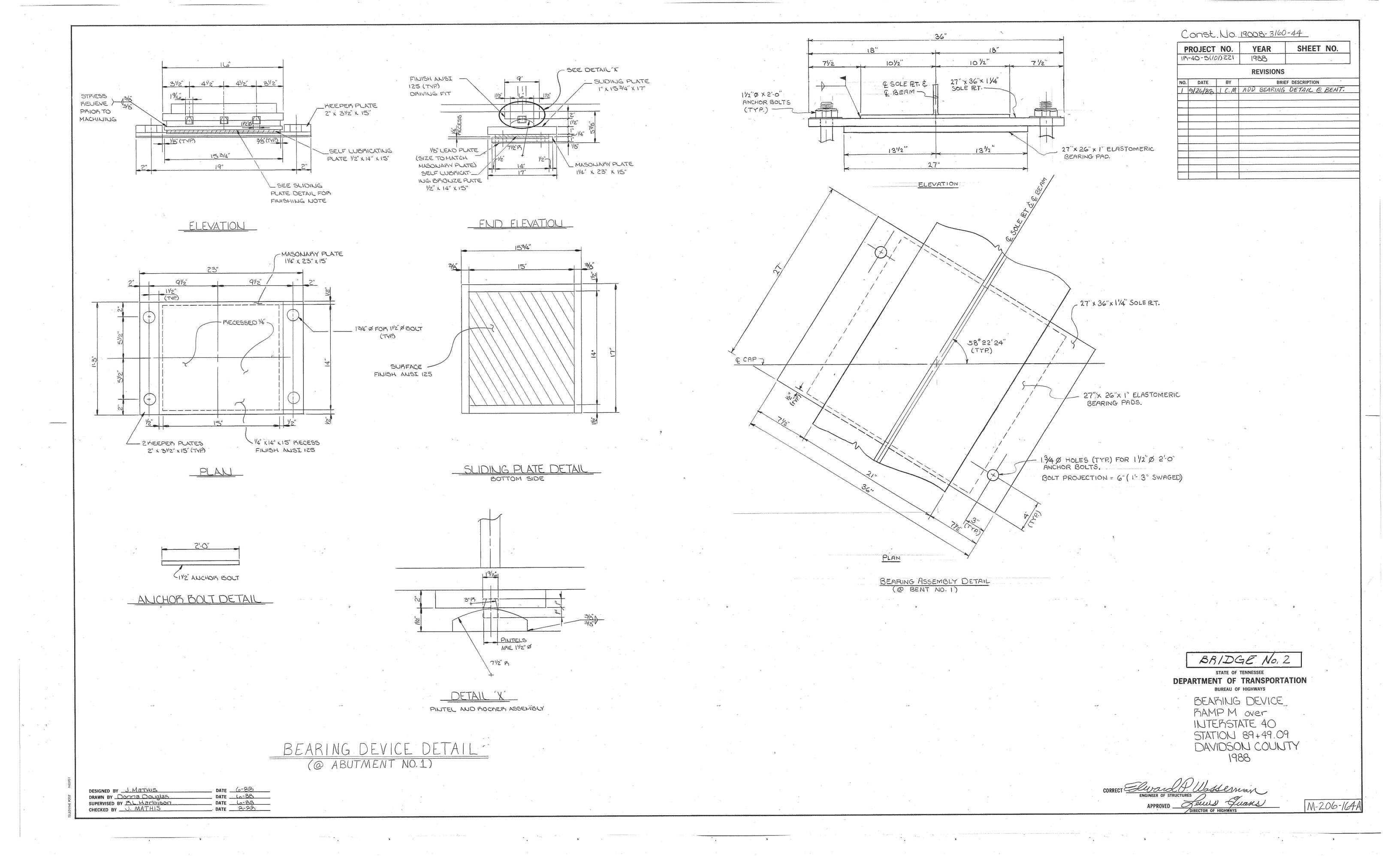
APPROVED Sumis Buans

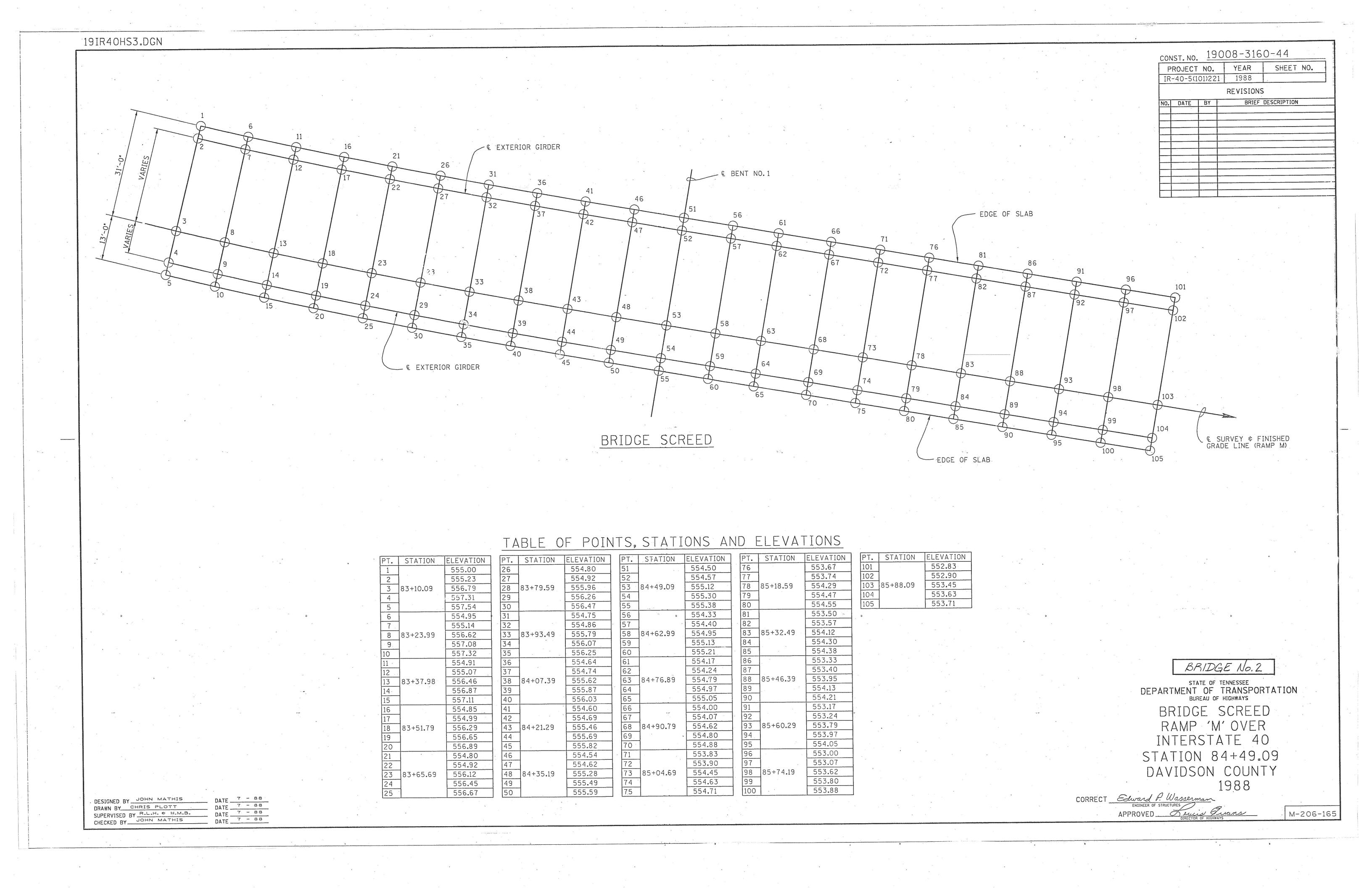
M-206-161

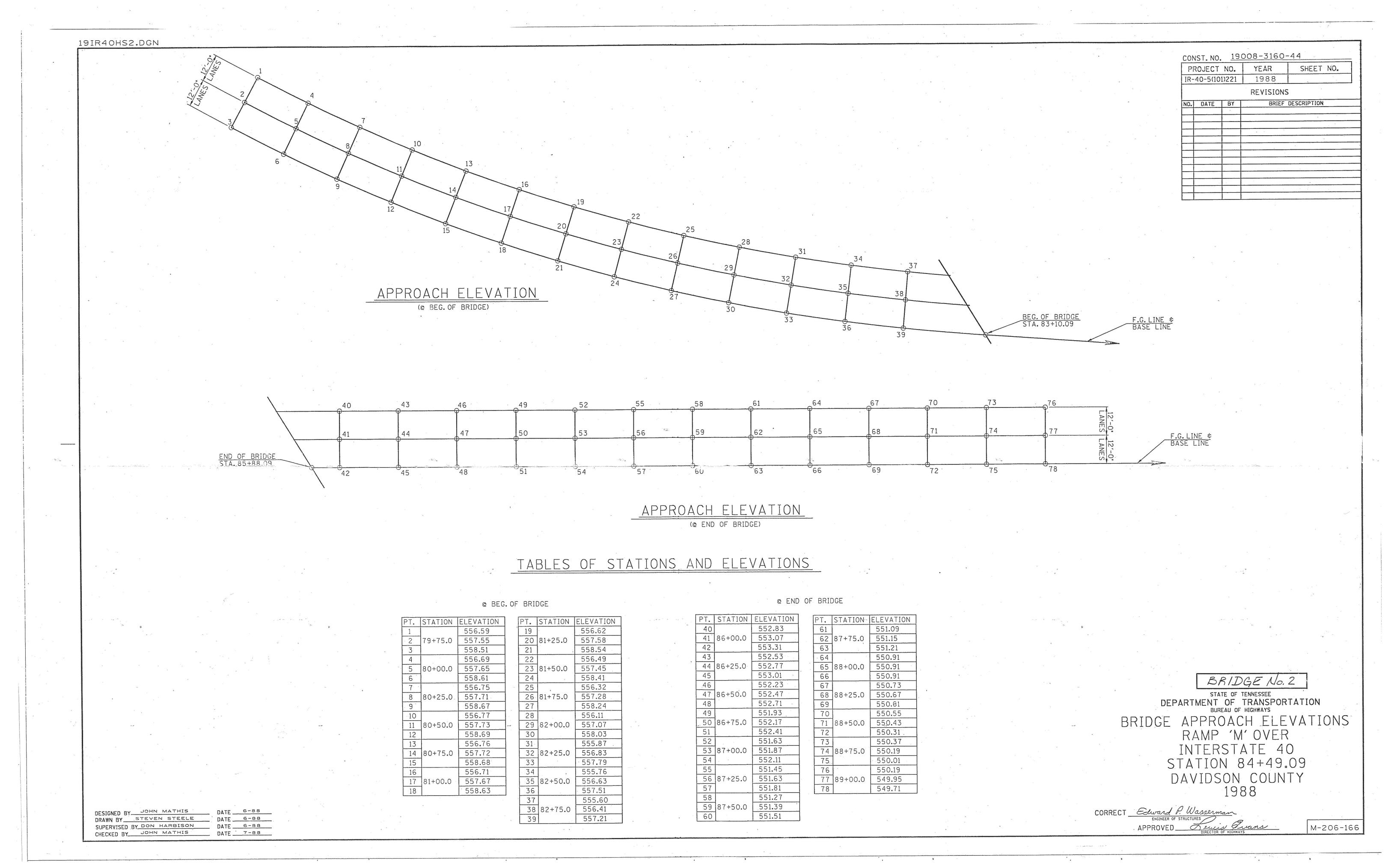


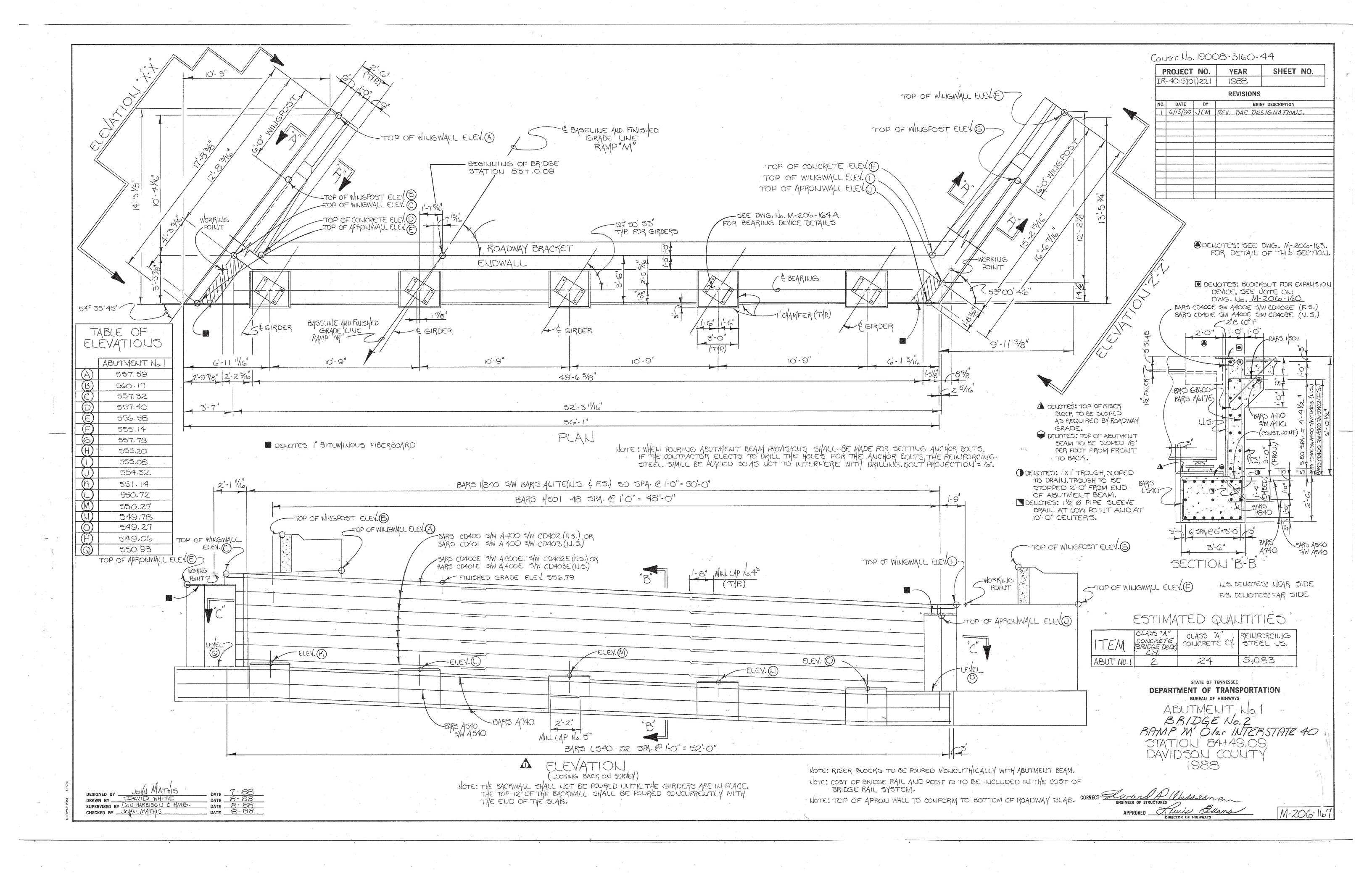


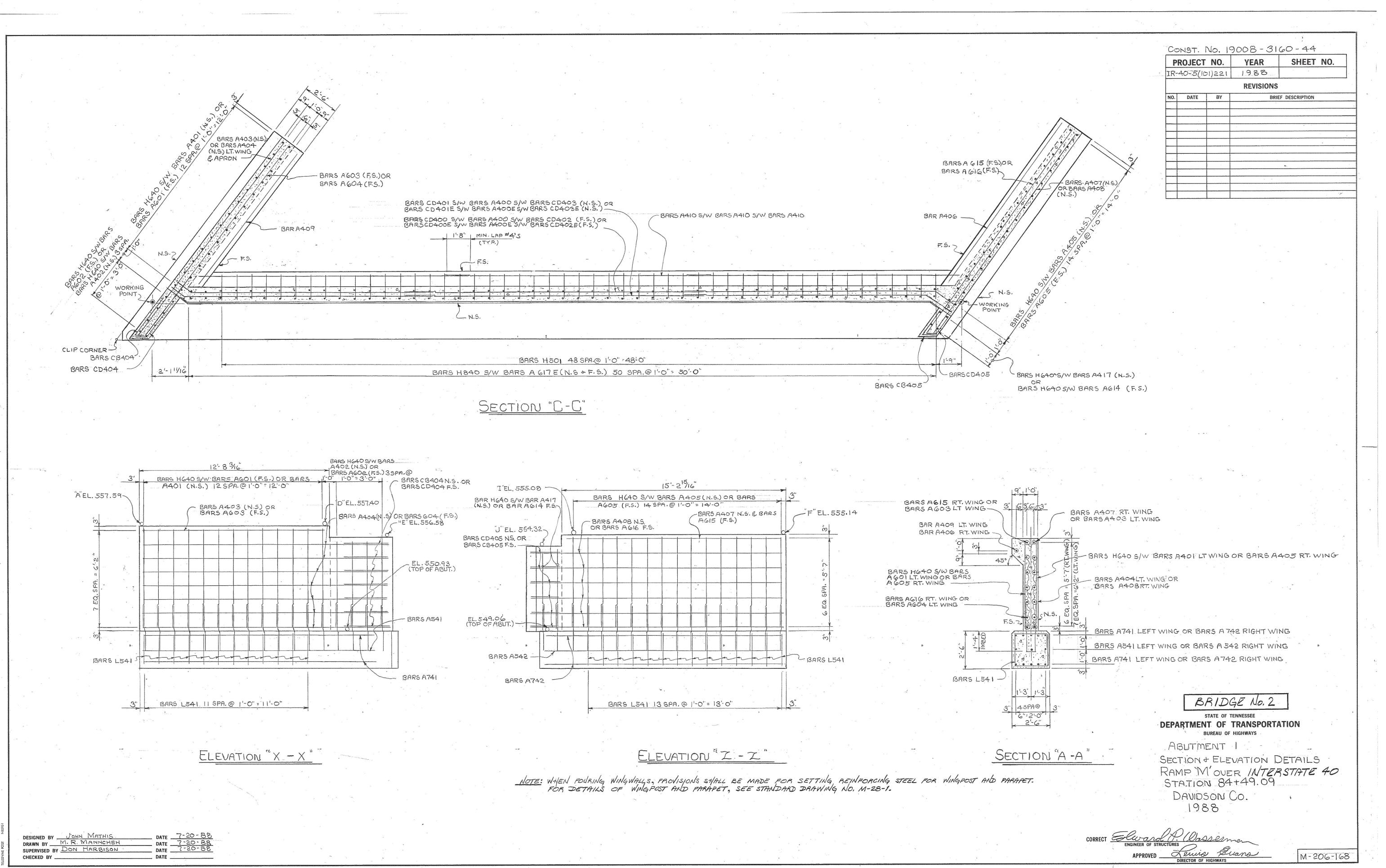












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