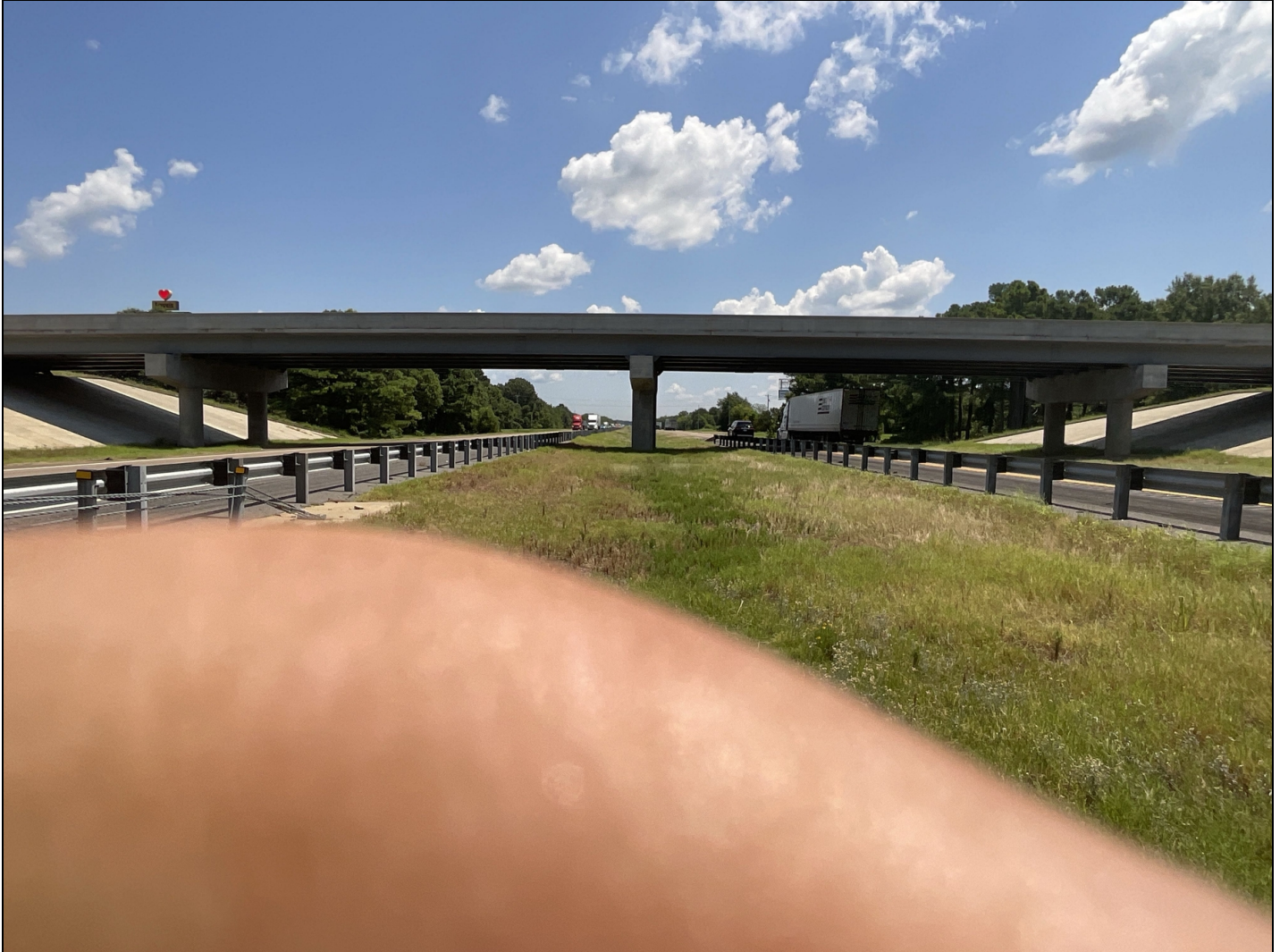


Bridge 07232 Inspection Report



Latitude:34.98345, Longitude:-90.90466

Route:261 Section:02 Log:5.5

Arnold Road ID:68x261x2xA, Arnold Log mile:5.497

District 01, 123 - St. Francis County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

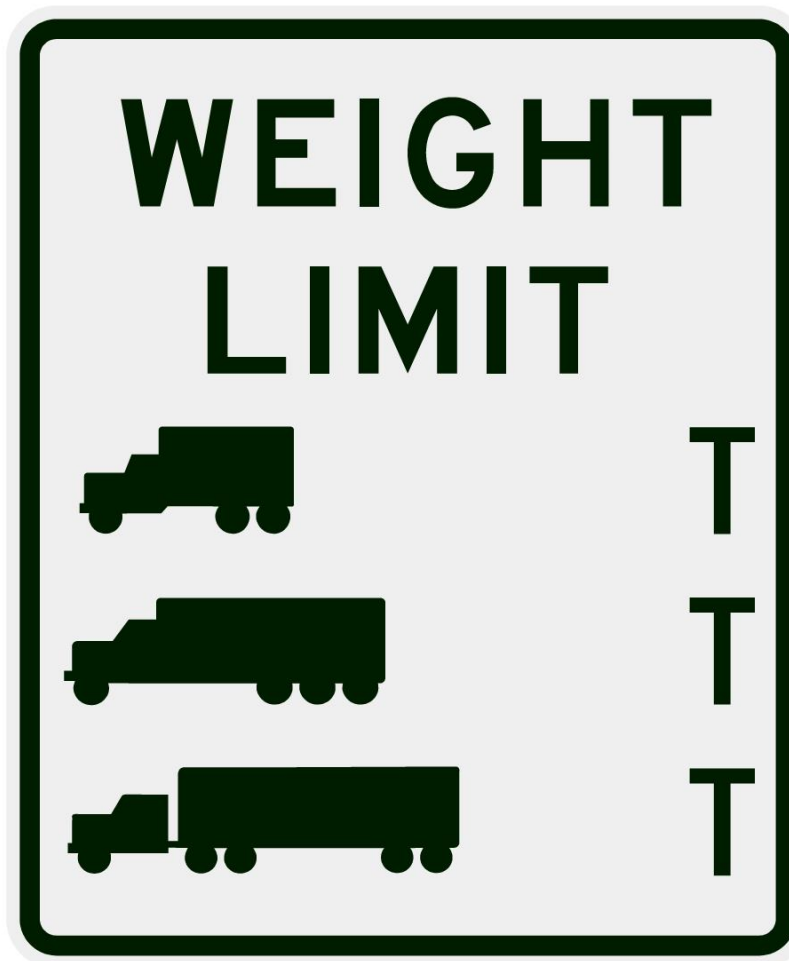
Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

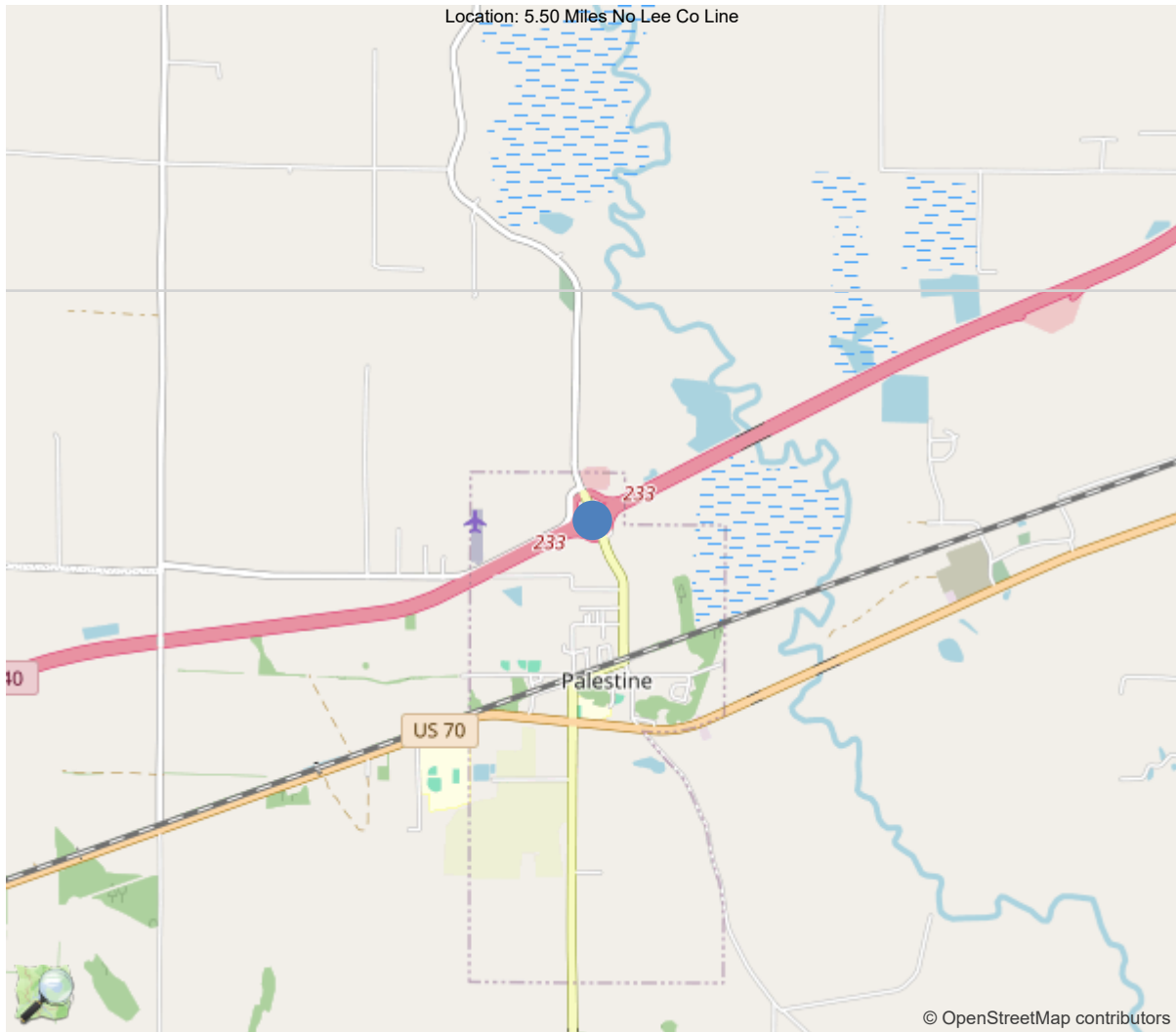
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	45		
Code 5 (40 Tons)	46		

If calculated capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner.



30"x36" AR



34.98345, -90.90466

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	07232
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	123 - St. Francis County
(4) Place Code	53150
(6) Features Intersected	I-40/Sec-51/L233.17
(7) Facility Carried	Sh-261/Sec-2/L-5.5
(9) Location	5.50 Miles No Lee Co Line
(11) Mile Point	5.5 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.98345
(17) Longitude	-90.90466
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4 - Steel continuous
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	4
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	0 - None (no additional concrete thickne
Type of Membrane	0 - None
Type of Deck Protection	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2018
(106) Year Reconstructed	0
(42) Type of Service	11
On	1 - Highway
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	2126
(30) Year of ADT	2018
(109) Truck ADT	5 %
(19) Bypass, Detour Length	14 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	87 ft
(49) Structure Length	296 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	43.1 ft
(32) Approach Roadway Width (W/Shoulders)	42 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.9 ft
(47) Inventory Route Total Horiz Clear	40 ft
(53) Min Vert Clear Over Bridge Rdwy	99.9 ft
(54) Min Vert Underclear	16.16 ft
Ref:	
(55) Min Lat Underclear RT	10 ft
Ref:	
(56) Min Lat Underclear LT	8 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(111) Pier Protection	1 - Navigation protection not
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION	
(112) NBIS Bridge Length	Y
(104) Highway System	0
(26) Functional Class	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(102) Direction of Traffic	2 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	0 - The inventory route is not
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	8
(59) Superstructure	9
(60) Substructure	8
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	A - HL93
(63) Operating Rating Method	3
(64) Operating Rating	
Type	3 - Load and Resistance Factor(LRFR)
Rating	37
(65) Inventory Rating Method	3 - Load and Resistance Factor
(66) Inventory Rating	
Type	
Rating	29
(70) Bridge Posting	5 - Equal to or above legal loads
(41) Structure Open/Posted/Closed	A - Open, no restriction
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	4
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	
(76) Length of Structure Improvement	0 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 0
(97) Year of Improvement Cost Estimate	
(114) Future ADT	3600
(115) Year of Future ADT	2036

INSPECTIONS *			
(90) Inspection Date			07/10/2024
(91) Frequency			24
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			

Team Lead: Myron Futrell, Inspection Date: 07/10/2024

Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	07232
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	03774
B.W.01 Year Built	2018

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	123 - St. Francis County
B.L.03 Place Code	53150 - Palestine
B.L.04 Highway Agency District	01 - District 01
B.L.05 Latitude	34.98345
B.L.06 Longitude	-90.90466
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	5.50 Miles No Lee Co Line
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	S01 - State transportation departme
B.CL.02 Maint. Responsibility	S01 - State transportation departme
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	N - Bridge is not eligible for the
B.CL.05 Toll	N - Bridge does not carry a toll ro
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	292
B.G.02 Total Bridge Length	295.9
B.G.03 Max Span Length	86.9
B.G.04 Min Span Length	62
B.G.05 Bridge Width Out-to-Out	43
B.G.06 Bridge Width Curb-to-Curb	40
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	40

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	0
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	22
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	12718.9

LOADS AND LOAD RATING	
B.LR.01 Design Load	HL93 - HL-93
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LRFR - Load and Resistance Factor R
B.LR.05 Inventory Load Rating Factor	0.81
B.LR.06 Operating Load Rating Factor	1.03
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	N - No E/E' details
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	8 - VERY GOOD - Some inherent
B.C.02 Superstructure Condition	9 - EXCELLENT - Isolated inher
B.C.03 Substructure Condition	8 - VERY GOOD - Some inherent
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	7 - GOOD - Some minor defects.
B.C.06 Bridge Railing Transitions Condition	7 - GOOD - Some minor defects.
B.C.07 Bridge Bearings Cond.	7 - GOOD - Some minor defects.
B.C.08 Bridge Joints Condition	5 - FAIR - Some moderate defec
B.C.09 Channel Condition Rating	N - NOT APPLICABLE - Bridge do
B.C.10 Channel Protection Condition	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	N - Bridge does not cross over
B.C.12 Bridge Condition Classification	G - Good
B.C.13 Lowest Condition Rating	8 - VERY GOOD - Some inherent
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	0 - Never
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

Team Lead: Myron Futrell, Inspection Date: 07/10/2024

SPAN SETS			
M1			
B.SP.02 # of Spans	4	B.SP.08 Deck Interaction	CU - Composite - unshored cons
B.SP.03 # of Beam Lines	5	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	S01 - Steel - rolled	B.SP.10 Wearing Surface	0 - None
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	CX - Coating - other
B.SP.06 Span Type	G02 - Girder/beam - I-shaped s	B.SP.12 Deck Reinforcing Protective System	C01 - Coating - epoxy coated
B.SP.07 Span Protective System	C01 - Coating - paint	B.SP.13 Deck Stay-In-Place Forms	M01 - Metal

SUBSTRUCTURE SETS			
A1			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	P02 - Pile - steel pipe
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
P1			
B.SB.02 No. of Substructure Units	3	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	P02 - Pile - steel pipe
B.SB.04 Substructure Type	P03 - Pier - multiple column	B.SB.07 Foundation Protective System	0 - None

Team Lead: Myron Futrell, Inspection Date: 07/10/2024

HIGHWAY FEATURES					
H1					
B.F.02 Feature Location	C - Carried on bridge		B.H.09 Annual ADT	2126	
B.F.03 Feature Name	Sh-261/Sec-2/L-5.5		B.H.10 Annual ADTT	106	
B.H.01 Functional Classification	5 - Major Collector		B.H.11 Year of Annual ADT	2018	
B.H.02 Urban Code	99999		B.H.12 Highway Max Usable Vertical Clearance	99.9	
B.H.03 NHS Designation	N - Non-NHS		B.H.13 Highway Min Vertical Clearance	99.9	
B.H.04 National Highway Freight Network	N - Not on the NHFN		B.H.14 Highway Min Horizontal Clearance, Left		
B.H.05 STRAHNET Designation	N - Not a STRAHNET route		B.H.15 Highway Min Horizontal Clearance, Right		
B.H.06 LRS Route ID			B.H.16 Highway Max Usable Surface Width	39.6	
B.H.07 LRS Mile Point	5.5		B.H.17 Bypass Detour Length	14	
B.H.08 Lanes On Highway	2		B.H.18 Crossing Bridge Number		
H2					
B.F.02 Feature Location	B - Below bridge		B.H.09 Annual ADT	3000	
B.F.03 Feature Name	I-40/Sec-51/L233.17		B.H.10 Annual ADTT	150	
B.H.01 Functional Classification	1 - Interstate		B.H.11 Year of Annual ADT	2016	
B.H.02 Urban Code	99999		B.H.12 Highway Max Usable Vertical Clearance	16.5	
B.H.03 NHS Designation	Y - NHS		B.H.13 Highway Min Vertical Clearance	16.1	
B.H.04 National Highway Freight Network	N - Not on the NHFN		B.H.14 Highway Min Horizontal Clearance, Left	7.8	
B.H.05 STRAHNET Designation	1 - STRAHNET route		B.H.15 Highway Min Horizontal Clearance, Right	9.8	
B.H.06 LRS Route ID	40510		B.H.16 Highway Max Usable Surface Width	41.9	
B.H.07 LRS Mile Point	233.17		B.H.17 Bypass Detour Length	2	
B.H.08 Lanes On Highway			B.H.18 Crossing Bridge Number		
H3					
B.F.02 Feature Location	B - Below bridge		B.H.09 Annual ADT	3000	
B.F.03 Feature Name	I-40/Sec-51/L233.17		B.H.10 Annual ADTT	150	
B.H.01 Functional Classification	1 - Interstate		B.H.11 Year of Annual ADT	2016	
B.H.02 Urban Code	99999		B.H.12 Highway Max Usable Vertical Clearance	16.4	
B.H.03 NHS Designation	Y - NHS		B.H.13 Highway Min Vertical Clearance		
B.H.04 National Highway Freight Network	N - Not on the NHFN		B.H.14 Highway Min Horizontal Clearance, Left		
B.H.05 STRAHNET Designation	1 - STRAHNET route		B.H.15 Highway Min Horizontal Clearance, Right		
B.H.06 LRS Route ID	40510		B.H.16 Highway Max Usable Surface Width	62.9	
B.H.07 LRS Mile Point	233.17		B.H.17 Bypass Detour Length	2	
B.H.08 Lanes On Highway			B.H.18 Crossing Bridge Number		

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type
H1	R01	261	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline
H2	R01	40W	1-T - TEMP - One-way traffic - NB or EB or SB or WB	1 - Interstate route	1 - Mainline
H3	R01	40E	1-T - TEMP - One-way traffic - NB or EB or SB or WB	1 - Interstate route	1 - Mainline



Team Lead: Myron Futrell, Inspection Date: 07/10/2024

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent - Open	

LOAD EVALUATION AND POSTING			
B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value



Asset #07232(Routine)

Sh-261/Sec-2/L-5.5 over I-40/Sec-51/L233.17

Location: 5.50 Miles No Lee Co Line

Team Lead: Myron Futrell Inspection Date: 07/10/2024

Inspection Notes

General Observation

Team Lead: Myron Futrell
Bridge Inspector: Charley Smith
Accessed by foot and ladder if needed.
No lane closure needed for this inspection.

58 - Deck (8 - VERY GOOD CONDITION - no problems noted.)

Deck is in overall very good condition. Deck has a few minor cracks and the approach slabs have some sealed cracks. The deck joint seal on abutment 1 has up to 30' damaged and missing.

59 - Superstructure (9 - EXCELLENT CONDITION)

Superstructure is in overall excellent condition. Undersurface has a few cracks with efflorescence on the overhangs. The girders have been painted and in excellent condition.

60 - Substructure (8 - VERY GOOD CONDITION - no problems noted.)

Substructure is in overall very good condition. Abutment 2 back wall has a crack with light efflorescence.

7/23/2020-Lowered substructure from 9 to 8 due to crack in abutment #2 back wall with light efflorescence.

A-54 - Sealable Deck Cracks (Y)

Approach slabs have some sealable deck cracks.

A-55 - Deck Washing Needed (Y)

Dirt and debris in gutters.

A-56 - Joint Cleaning/Flushing Needed (Y)

Joints have dirt and debris in them allowing non-compressible materials to enter.

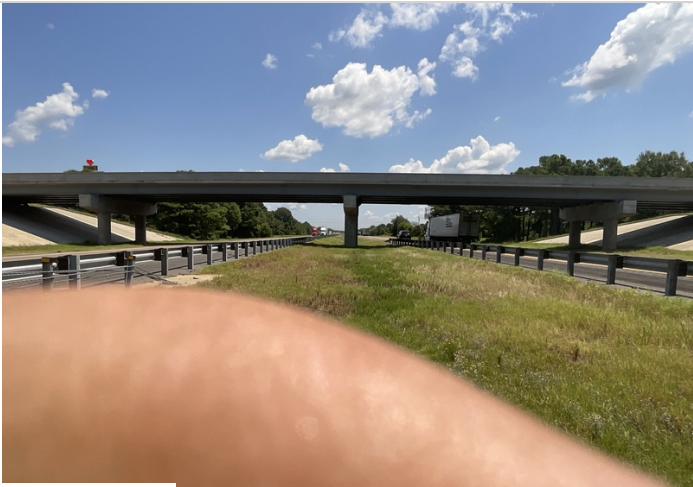
A-58 - Cap Cleaning/Flushing Needed (Y)

Both abutment caps have dirt and debris on them.

A-59 - Joint Repair Needed (Y)

Abutment 1 joint seal is torn and missing for up to 30' and abutment 2 has small hole and dirt and debris in it.

Inspection Photos and Notes



07/11/2024

Side view/elevation.



07/11/2024

Top view/elevation.



07/11/2024

Typical slope pavement abutment 2.



07/11/2024

Typical guardrail east bound side 90' west has collision damage for 20'



Abutment 1 slope.



Name plate.



Typical bridge rail crack.



Abutment 2 right side guardrail has collision damage for 6' 12 posts from abutment 2.



Guard rail has collision damage for 10' 120' east of bridge and 3 guard rail post damaged.



Guard rail posts damaged west bound side.



Bridge rail west bound side



Typical guardrail east bound side 90' west has collision damage for 20' with 4 rail post damaged



Left side bridge rail.



Right side bridge rail.



Abutment 1 left side guard rail transition.



Abutment 1 right side guard rail transition.



Left side abutment 2 approach guard rail transition.



Right side abutment 2 approach guard rail transition.



Abutment 1 left side guard rail approach.



Abutment 1 right side approach guard rail.



Approach guard rail right side abutment 2.



Approach guard rail left side abutment 2.



Approach guard rail end right side abutment 2.



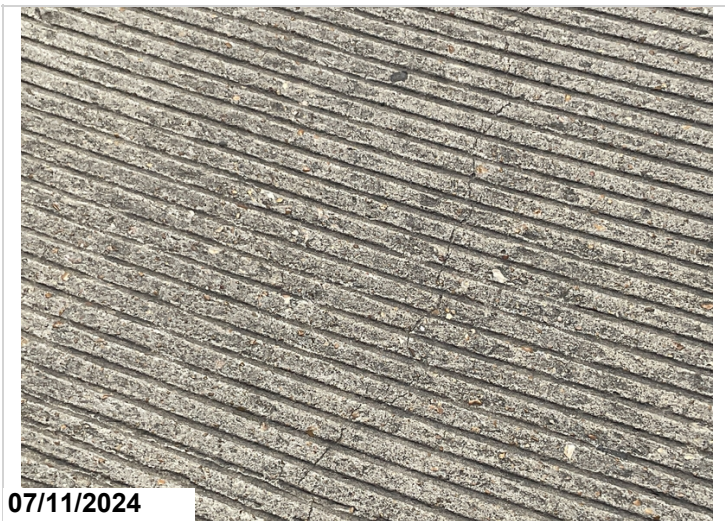
Guard rail end left side abutment 2.



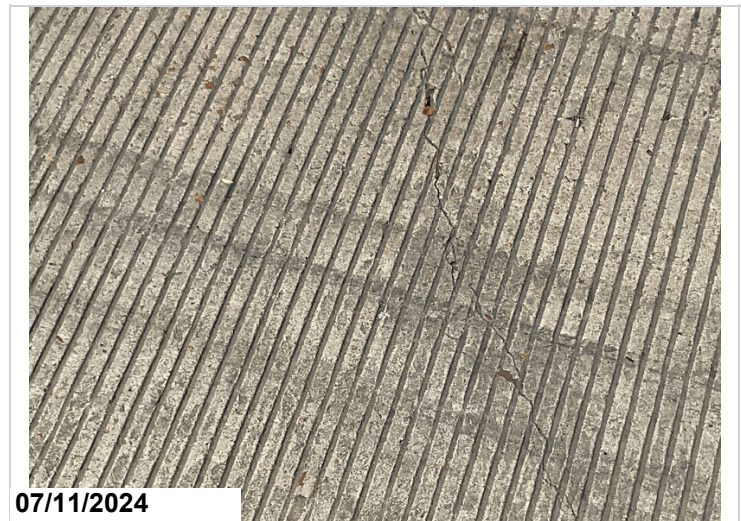
Typical joint seal has fell in for 30'.



Abutment 1 typical joint.



Typical deck crack span 3 midways



Abutment 2 approach slab typical crack.



Abutment 2 typical joint.



Approach slab abutment 2.



Typical elastomeric bearing.



Span 4 typical undersurface.



Span 3 typical undersurface.



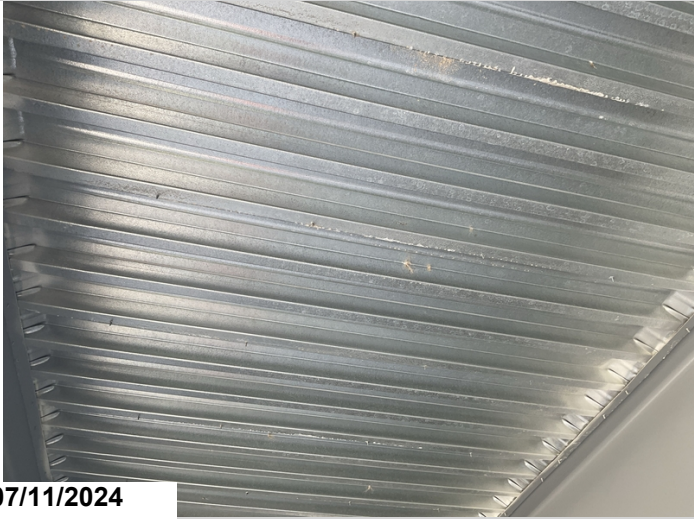
Typical field splice.



Span 2 typical undersurface.



Span 1 typical undersurface.



Typical stay in place form.



Typical transverse crack right side undersurface.



Bent 4 ahead face.



Abutment 2.



Bent 3 ahead face.



Bent 4 back face.



Bent 2 ahead face.



Bent 3 back face.



Typical column.



Abutment 1.



Bent 2 back face.



Dirt and debris in gutters.



Caps at both abutments have dirt and debris on them



Abutment 1 typical joint.



Abutment 2 left side joint seal has small hole.

Maintenance Needs

Date Reported: 07/26/2022

Priority: D- Routine

Status: Monitor

Type of Work: Approach Leveling/Maintenance

Component: Approach

Deficiency Description

Abutment #2 right approach rail has minor collision damage
East bound under bridge rail has moderate collision damage.

Remarks



Abutment #2 right approach rail has minor collision damage



East bound under bridge rail has moderate collision damage.



Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	Yes
A-55 - Deck Washing Needed	Yes
A-56 - Joint Cleaning/Flushing Needed	Yes
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	Yes
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	No
A-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

A-54 - Sealable Deck Cracks (Yes)

Approach slabs have some sealable deck cracks.

A-55 - Deck Washing Needed (Yes)

Dirt and debris in gutters.



Dirt and debris in gutters.

A-56 - Joint Cleaning/Flushing Needed (Yes)

Joints have dirt and debris in them allowing non-compressible materials to enter.

A-57 - Girder End and Bearing Painting Needed (No)

A-58 - Cap Cleaning/Flushing Needed (Yes)

Both abutment caps have dirt and debris on them.



Caps at both abutments have dirt and debris on them

A-59 - Joint Repair Needed (Yes)

Abutment 1 joint seal is torn and missing for up to 30' and abutment 2 has small hole and dirt and debris in it.



Abutment 1 typical joint.



Abutment 2 left side joint seal has small hole.

A-60 - Full Girder Painting Needed (No)

A-61 - Polymer Overlay Advised (No)

A-62 - Hydro and LMC Advised (No)

A-63 - Missing/Incorrect Log Mile Signage (No)

A-64 - Vegetation Removal Requested (No)



Asset #07232(Routine)

Sh-261/Sec-2/L-5.5 over I-40/Sec-51/L233.17

Location: 5.50 Miles No Lee Co Line

Team Lead: Myron Futrell Inspection Date: 07/10/2024

A-65 - Clogged deck drains?

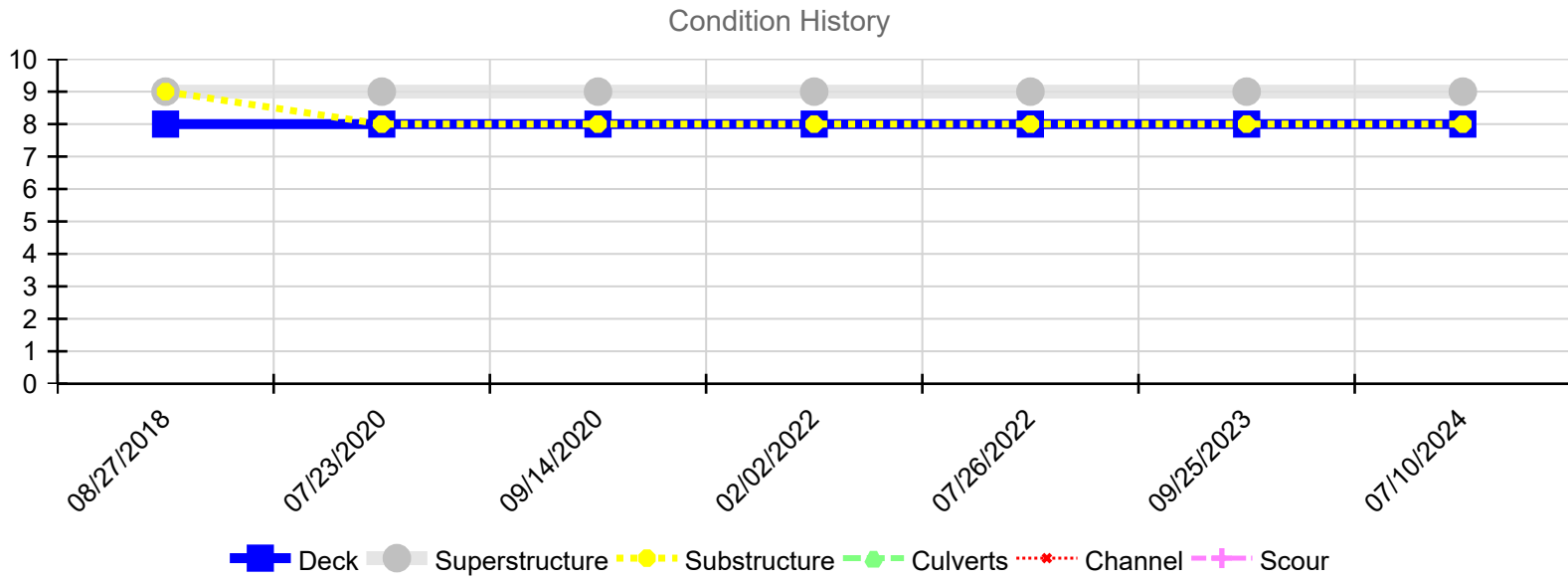
A-66 - Approach minor pothole/leveling needed



Asset #07232(Routine)
Sh-261/Sec-2/L-5.5 over I-40/Sec-51/L233.17

Location: 5.50 Miles No Lee Co Line

Team Lead: Myron Futrell Inspection Date: 07/10/2024



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/10/2024	8	9	8	N	N	N
09/25/2023	8	9	8	N	N	N
07/26/2022	8	9	8	N	N	N
02/02/2022	8	9	8	N	N	N
09/14/2020	8	9	8	N	N	N
07/23/2020	8	9	8	N	N	N
08/27/2018	8	9	9	N	N	N