

Bridge 06861 Inspection Report



Latitude:33.38669, Longitude:-94.02641

Route:49 Section:21 Log:29.61

Arnold Road ID:46x49x195xA, Arnold Log mile:0.652

District 03, 91 - Miller County

Owner: 1 - State Highway Agency

Inspection Direction: 3 - E to W

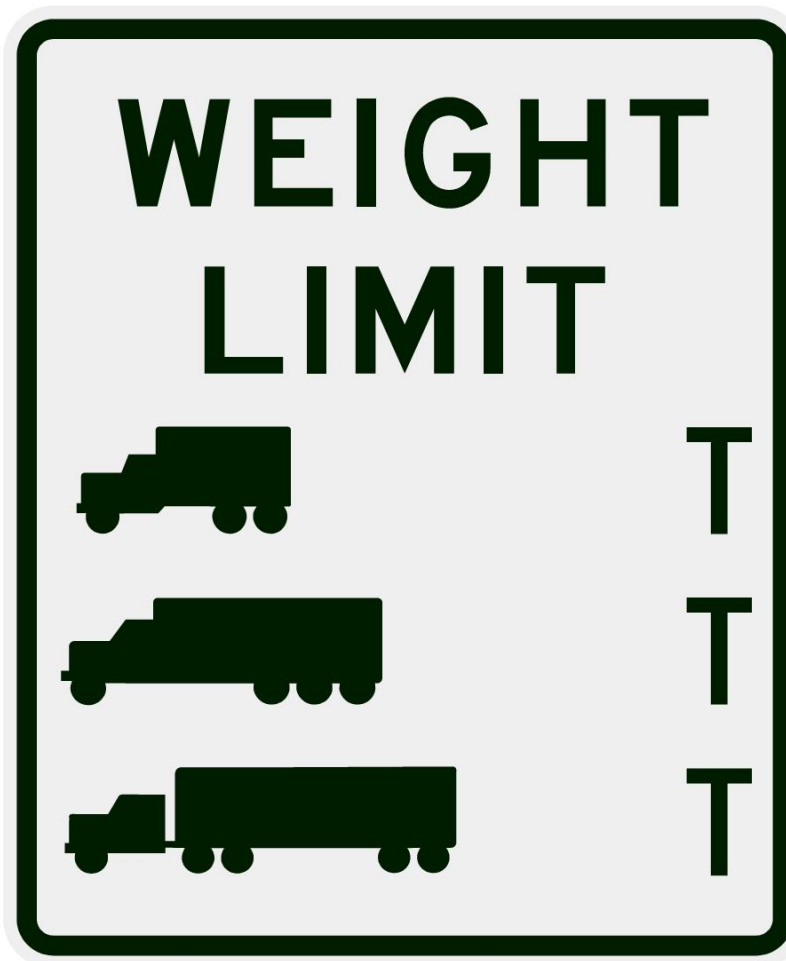
Bridge Posting Information

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

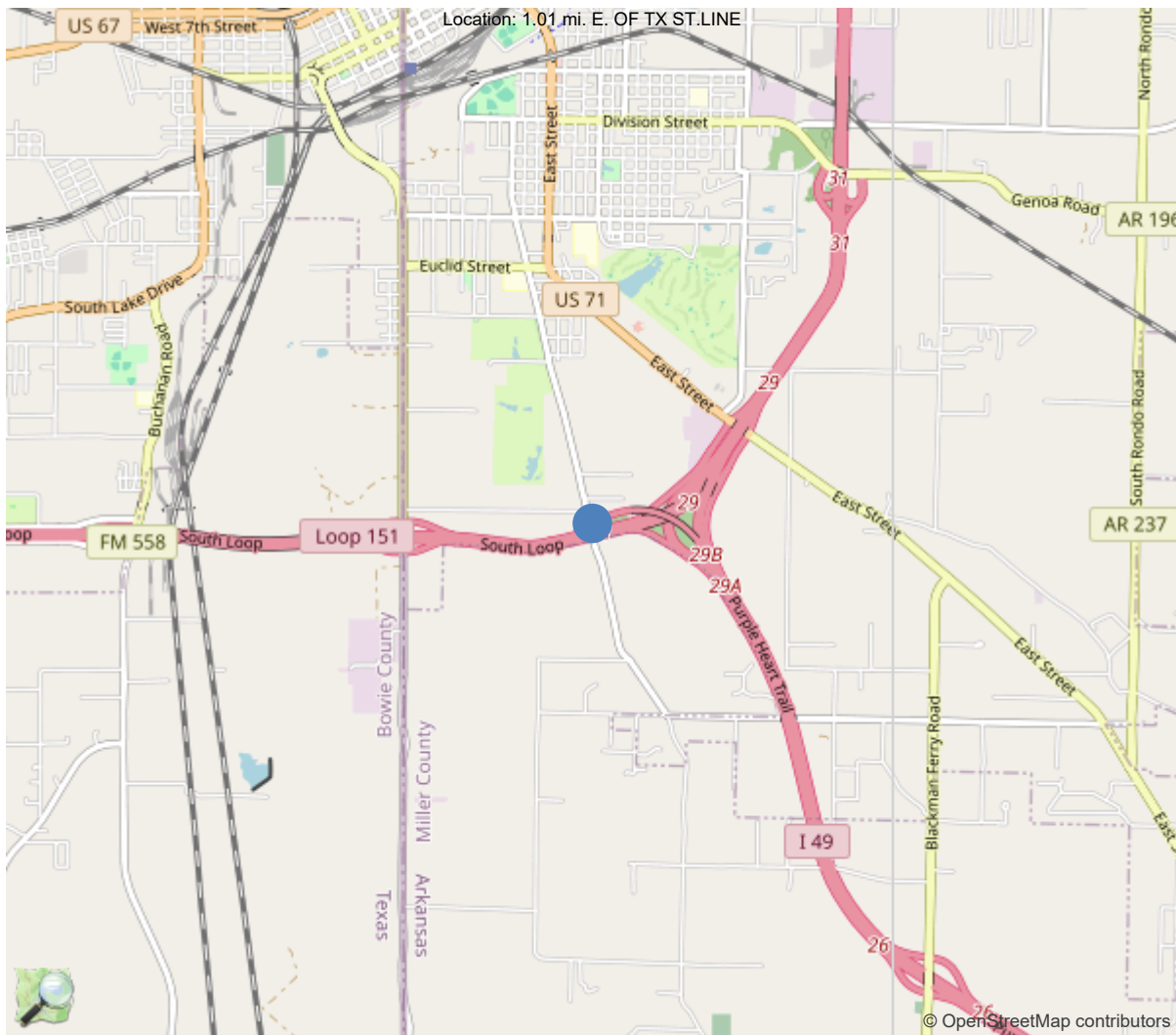
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	50		
Code 5 (40 Tons)	60		

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



33.38669, -94.02641

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06861
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	91 - Miller County
(4) Place Code	68810
(6) Features Intersected	LINE FERRY ROAD
(7) Facility Carried	RAMP NW OF I 49
(9) Location	1.01 mi. E. OF TX ST.LINE
(11) Mile Point	29.61 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000049010
(16) Latitude	33.38669
(17) Longitude	-94.02641
(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	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2003
(106) Year Reconstructed	0
(42) Type of Service	11
On	1 - Highway
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	2897
(30) Year of ADT	2011
(109) Truck ADT	11 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	72 ft
(49) Structure Length	179 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	39.4 ft
(52) Deck Width Out to Out	42.5 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	20 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	39.4 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.69 ft
Ref:	
(55) Min Lat Underclear RT	22.7 ft
Ref:	
(56) Min Lat Underclear LT	22.5 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(111) Pier Protection	5 - None present but re-evalua
(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	1
(26) Functional Class	11 - Urban Principal Arterial
(100) Defense Highway	1 - The inventory route is on
(101) Parallel Structure	N - No parallel structure exists
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0 - N/A
(110) Designated National Network	1 - The inventory route is par
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	8
(60) Substructure	7
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	6 - MS 18+Mod / HS 20+Mod
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	60
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	36
(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	9
(69) Clearances, Vertical/Horizontal	9
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(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	0
(114) Future ADT	5023
(115) Year of Future ADT	2023

INSPECTIONS *			
(90) Inspection Date			12/19/2023
(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: Jared Kegley, Inspection Date: 12/19/2023

Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	06861
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	91 - Miller County
B.L.03 Place Code	68810 - Texarkana
B.L.04 Highway Agency District	03 - District 03
B.L.05 Latitude	33.38669
B.L.06 Longitude	-94.02641
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	
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	
B.CL.02 Maint. Responsibility	
B.CL.03 Federal or Tribal Land Access	
B.CL.04 Historic Significance	
B.CL.05 Toll	
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	
B.G.02 Total Bridge Length	
B.G.03 Max Span Length	
B.G.04 Min Span Length	72
B.G.05 Bridge Width Out-to-Out	
B.G.06 Bridge Width Curb-to-Curb	
B.G.07 Left Curb or Sidewalk Width	
B.G.08 Right Curb or Sidewalk Width	
B.G.09 Approach Roadway Width	

B.G.10 Bridge Median	
B.G.11 Skew	
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	24
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	

LOADS AND LOAD RATING	
B.LR.01 Design Load	
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	
B.LR.05 Inventory Load Rating Factor	
B.LR.06 Operating Load Rating Factor	
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	
B.IR.02 Fatigue Details	N - No E/E' details
B.IR.03 UW Inspection Required	
B.IR.04 Complex Feature	

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	
B.C.02 Superstructure Condition	
B.C.03 Substructure Condition	
B.C.04 Culvert Condition	
B.C.05 Bridge Railing Condition	7 - GOOD - Some minor defects.
B.C.06 Bridge Railing Transitions Condition	9 - EXCELLENT - Isolated inher
B.C.07 Bridge Bearings Cond.	7 - GOOD - Some minor defects.
B.C.08 Bridge Joints Condition	7 - GOOD - Some minor defects.
B.C.09 Channel Condition Rating	
B.C.10 Channel Protection Condition	
B.C.11 Scour Condition Rating	
B.C.12 Bridge Condition Classification	
B.C.13 Lowest Condition Rating	
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	
B.AP.02 Overtopping Likelihood	
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	
B.AP.05 Seismic Vulnerability	

Team Lead: Jared Kegley, Inspection Date: 12/19/2023

SPAN SETS			
M1			
B.SP.02 # of Spans	3	B.SP.08 Deck Interaction	CU - Composite - unshored cons
B.SP.03 # of Beam Lines	6	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	S02 - Steel - welded	B.SP.10 Wearing Surface	0 - None
B.SP.05 Span Continuity	2 - Continuous	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	G02 - Girder/beam - I-shaped s	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	0 - None

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	P04 - Pile - prestressed concr
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
P1			
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	P04 - Pile - prestressed concr
B.SB.04 Substructure Type	B01 - Bent - column or open	B.SB.07 Foundation Protective System	0 - None

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

OTHER FEATURES			
B1			
B.F.02 Feature Location	B - Below bridge	B.F.01A Feature Type	B - Urban feature
B.F.03 Feature Name	Line Ferry Rd.		

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date

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 #06861 (Routine)

RAMP NW OF I 49 over LINE FERRY ROAD

Location: 1.01 mi. E. OF TX ST.LINE

Team Lead: Jared Kegley Inspection Date: 12/19/2023

Inspection Notes

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Deck is rated a 7 this inspection due to cracking in all spans, 2 sq ft of patched area on top of deck where old raised pavement markers were pulled out, cracking and cracking with efflorescence in overhangs.

59 - Superstructure (8 - VERY GOOD CONDITION - no problems noted.)

Superstructure is rated an 8 this inspection with no noteworthy deficiencies.

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Substructure was dropped to a 7 this inspection due to cracking in bent 1 abutment.

A-54 - Sealable Deck Cracks (Y)

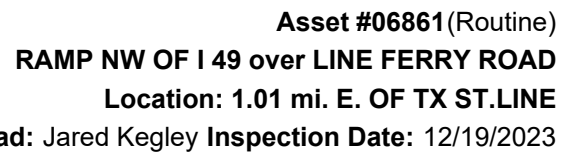
Sealable deck cracking is present throughout all spans.

A-59 - Joint Repair Needed (Y)

3' of joint material damage at beginning of bridge

6' of joint material damage at end of bridge

Joint material damage is present at both beginning and end of bridge.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7607	7405	202	0	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1120	Efflorescence/Rust Staining	SF	75	0	75	0	0
1130	Cracking (RC and Other)	SF	125	0	125	0	0
(12) Various locations of patched areas from removed plowable pavement markers prior to this inspection. Cracking with efflorescence is present on both right and left overhangs throughout all spans. Deck cracking is present in various locations of the concrete bridge deck throughout all spans.							
107	Steel Open Girder/Beam	LF	1074	1074	0	0	0
515	Steel Protective Coating	SF	7876	7876	0	0	0
(515-107) Weathering steel is in good condition							
205	Reinforced Concrete Column	EA	4	4	0	0	0
215	Reinforced Concrete Abutment	LF	130	128	2	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(215) 2' of CS2 cracking in bent 1 abutment							
234	Reinforced Concrete Pier Cap	LF	170	170	0	0	0
302	Compression Joint Seal	LF	84	75	0	0	9
2330	Seal Damage	LF	9	0	0	0	9
(302) 3' of CS4 tears in bent 1 joint seal							
6' of CS4 tears in bent 4 joint seal							
310	Elastomeric Bearing	EA	24	24	0	0	0
321	Reinforced Concrete Approach Slab	SF	1728	1727	1	0	0
1080	Delamination/Spall/Patched Area	SF	1	0	1	0	0
(321) Patched area from removed plowable pavement markers prior to this inspection at the end of bridge approach slab.							
331	Reinforced Concrete Bridge Railing	LF	358	292	66	0	0
1130	Cracking (RC and Other)	LF	66	0	66	0	0
(331) Cracking is present in various locations along both right and left concrete bridge railing.							

Inspection Photos and Notes



Bent 1 abutment cracking



Bent 2 elastomeric bearings 1 and 2



Bent 1 abutment



Bent 2 cap



Bent 2 columns



Cracking with efflorescence in deck overhangs



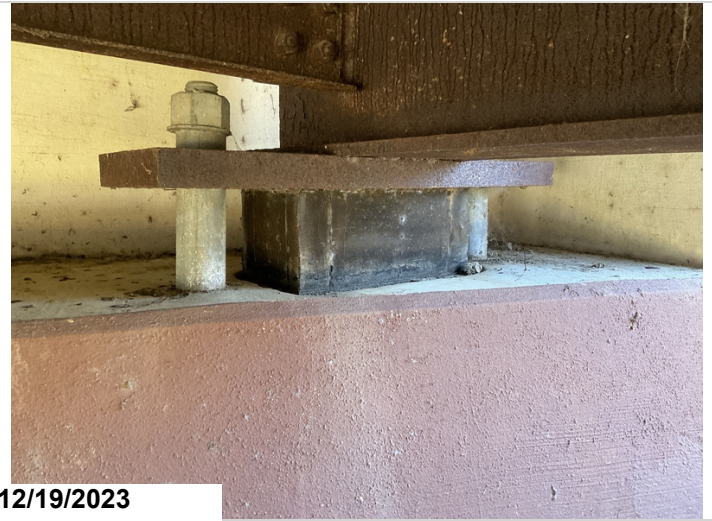
Bent 3



Typical underside of deck



Stay in place forms



Bent 4 bearing 6 elastomeric



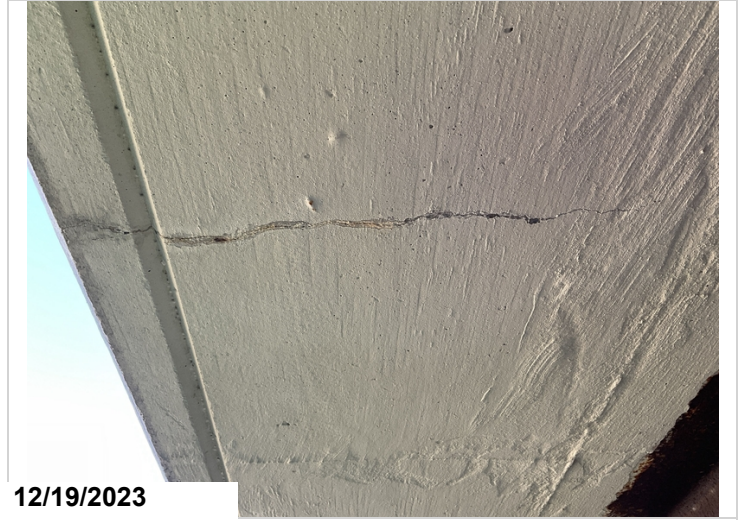
Bent 4 abutment



Weathering steel is in good condition



Continuous span



Cracking in deck overhangs



Continuous weathering steel beams



Continuous weathering steel beams



Cracking in bridge railing



6' of seal damage at end of bridge joint



Approach slab at end of bridge



Deck patching from previous RPM removal



Deck cracking in various locations of deck



Deck cracking in various locations of deck



3' of joint material damage at beginning of bridge



Bent 1 joint



Bridge railing



Transition railing, beginning of bridge



Approach slab beginning of bridge



Elevation



Asset #06861(Routine)
RAMP NW OF I 49 over LINE FERRY ROAD
Location: 1.01 mi. E. OF TX ST.LINE
Team Lead: Jared Kegley Inspection Date: 12/19/2023



Deck



Alignment

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	Yes
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	
A-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

A-54 - Sealable Deck Cracks (Yes)

Sealable deck cracking is present throughout all spans.



Deck cracking in various locations of deck

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed

A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed (Yes)

3' of joint material damage at beginning of bridge

6' of joint material damage at end of bridge

Joint material damage is present at both beginning and end of bridge.



3' of joint material damage at beginning of bridge

A-60 - Full Girder Painting Needed



Asset #06861(Routine)

RAMP NW OF I 49 over LINE FERRY ROAD

Location: 1.01 mi. E. OF TX ST.LINE

Team Lead: Jared Kegley Inspection Date: 12/19/2023

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested

A-65 - Clogged deck drains?

A-66 - Approach minor pothole/leveling needed

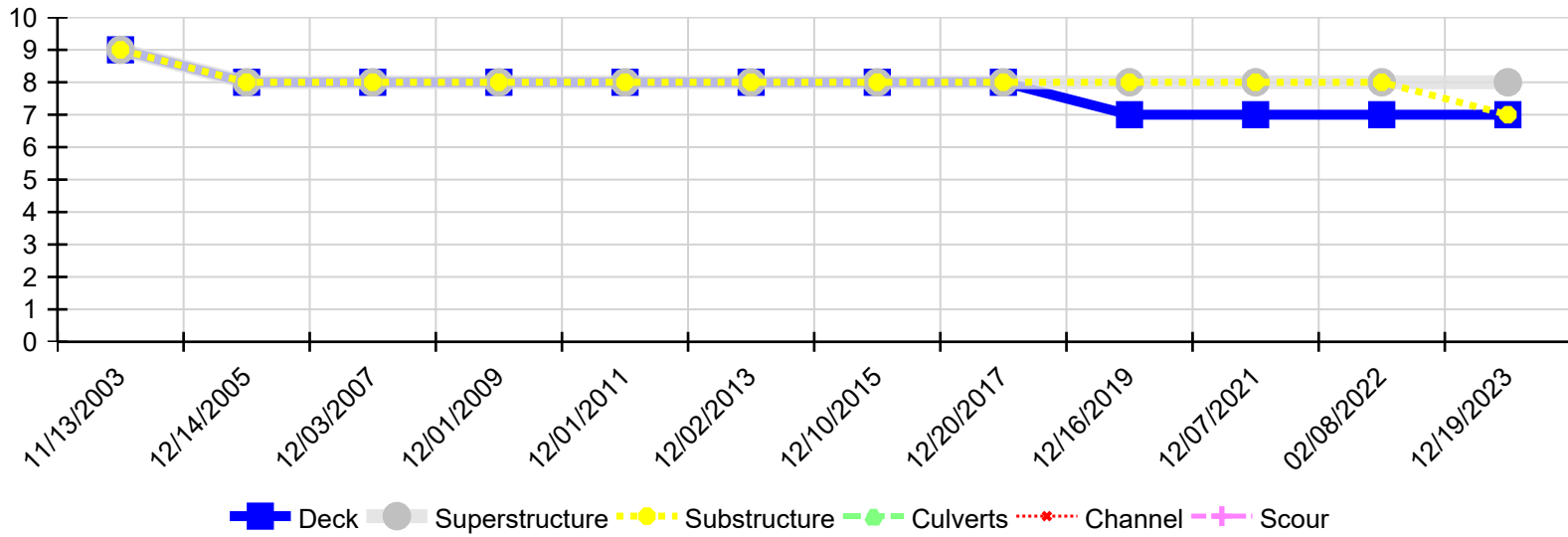


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RAMP NW OF I 49 over LINE FERRY ROAD

Location: 1.01 mi. E. OF TX ST.LINE

Team Lead: Jared Kegley Inspection Date: 12/19/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
12/19/2023	7	8	7	N	N	N
02/08/2022	7	8	8	N	N	N
12/07/2021	7	8	8	N	N	N
12/16/2019	7	8	8	N	N	N
12/20/2017	8	8	8	N	N	N
12/10/2015	8	8	8	N	N	N
12/02/2013	8	8	8	N	N	N
12/01/2011	8	8	8	N	N	N
12/01/2009	8	8	8	N	N	N
12/03/2007	8	8	8	N	N	N
12/14/2005	8	8	8	N	N	N
11/13/2003	9	9	9	N	N	N