Asset #B6875(Routine)
I30-S-14 EBLM 58.5 over SH182,Caddo Valley RR
Location: 4.87NE.jct.Sh.51
Team Lead: John Parks **Inspection Date:** 11/28/2022

Bridge B6875 Inspection Report



Latitude:33.95066, Longitude:-93.23364

Route:30 Section:14 Log:58.54

Arnold Road ID:10x30x14xA, Arnold Log mile:58.513

District 07, 19 - Clark County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

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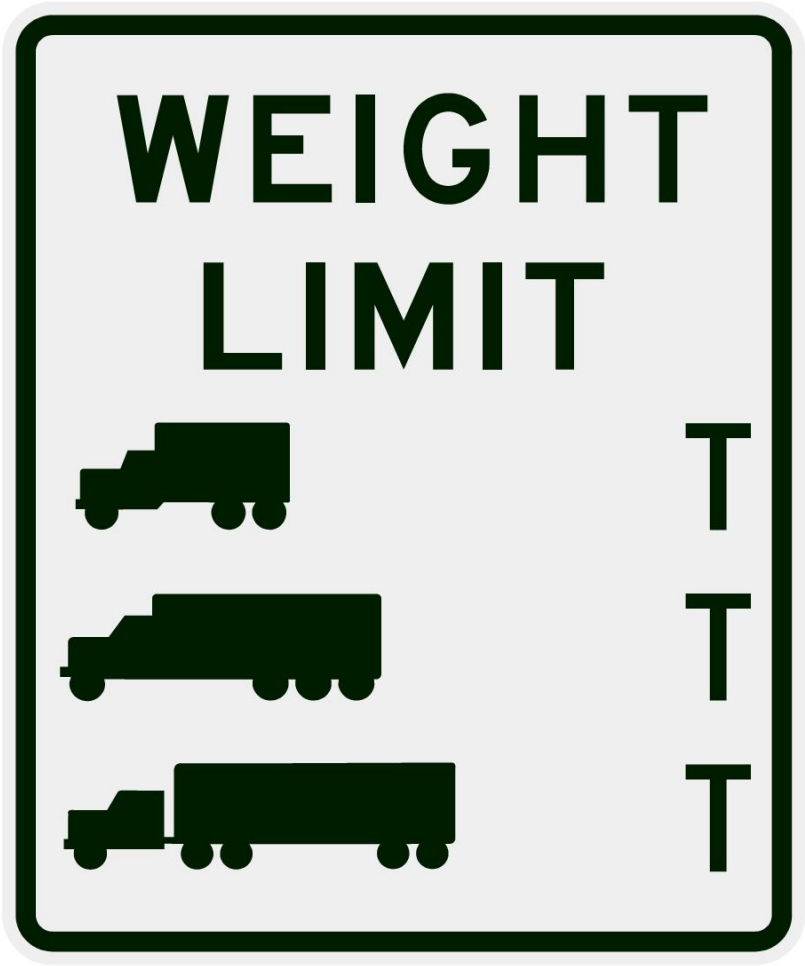
Bridge Posting Information

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

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

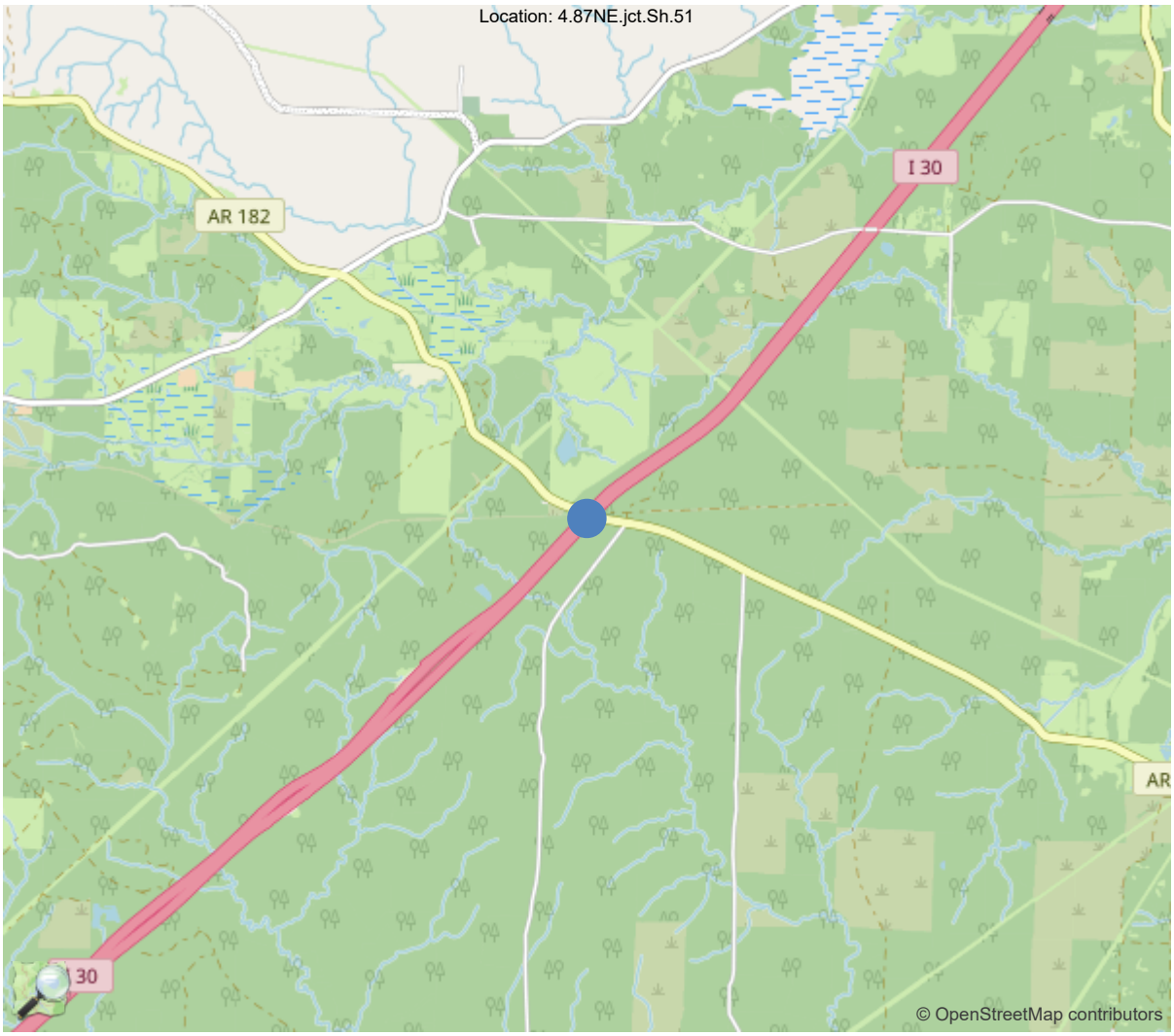
Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

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

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33.95066, -93.23364

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National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	B6875
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	19 - Clark County
(4) Place Code	0
(6) Features Intersected	SH182,Caddo Valley RR
(7) Facility Carried	I30-S-14 EBLM 58.5
(9) Location	4.87NE.jct.Sh.51
(11) Mile Point	58.54 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000030140
(16) Latitude	33.95066
(17) Longitude	-93.23364
(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	2002
(106) Year Reconstructed	0
(42) Type of Service	14
On	1 - Highway
Under	4 - Highway-railroad
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	13000
(30) Year of ADT	2018
(109) Truck ADT	57 %
(19) Bypass, Detour Length	1 mi

GEOMETRIC DATA	
(48) Length of Maximum Span	107 ft
(49) Structure Length	278 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	43.4 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	45 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	40 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	22.9 ft
Ref:	
(55) Min Lat Underclear RT	44.7 ft
Ref:	
(56) Min Lat Underclear LT	11.7 ft

NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(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	1
(26) Functional Class	1 - Rural Principal Arterial -
(100) Defense Highway	1 - The inventory route is on
(101) Parallel Structure	R - The right structure of par
(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	8
(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	7
(69) Clearances, Vertical/Horizontal	4
(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	
(114) Future ADT	18100
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/28/2022
(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.

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Inspection Notes

General Observation
This structure is logged from Southwest to Northeast.

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

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

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

---

62 - Culverts (N - Not applicable. Used if structure is not a culvert.)

---

61 - Channel/Channel Protection (N - Not applicable.)

---

71 - Waterway Adequacy (N - N/A - Bridge is not over a waterway.)

---

72 - Approach Roadway Alignment (8 - Equal to present desirable criteria)

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113 - Scour Critical Bridges (N - Bridge not over waterway.)

A-51 - Inspection Direction (4 - W to E)

A-15 - Late Reason

A-45 - Bats Present (0 - No)

A-108 - Load Rating Requested

A-119 - Scour Assessment Request

A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (N - Bridge does not cross over water.)

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National Bridge Element Quantities and Notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	12065	7721	3224	1120	0
1120	Efflorescence/Rust Staining	SF	152	0	152	0	0
1130	Cracking (RC and Other)	SF	2985	0	1865	1120	0
1190	Abrasion/Wear (PSC/RC)	SF	1207	0	1207	0	0
(12) Transvers and longitudinal cracks, span three has a full width transverse crack (see deck photo). Also deck wear with exposed aggregates.							
107	Steel Open Girder/Beam	LF	2658	2658	0	0	0
515	Steel Protective Coating	SF	26359	26359	0	0	0
205	Reinforced Concrete Column	EA	6	5	1	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
215	Reinforced Concrete Abutment	LF	118	107	11	0	0
1120	Efflorescence/Rust Staining	LF	11	0	11	0	0
(215) Minor washing @ abutment 2 right.							
234	Reinforced Concrete Pier Cap	LF	118	118	0	0	0
301	Pourable Joint Seal	LF	84	0	68	16	0
2310	Leakage	LF	84	0	68	16	0
310	Elastomeric Bearing	EA	36	32	0	4	0
1000	Corrosion	EA	4	0	0	4	0
(310) Bent 1, bearings 1 - 3 the masonry plates have laminating corrosion due to leaking joints. Bent 2, bearing 3, the masonry plates have laminating corrosion due to leaking joints.							
321	Reinforced Concrete Approach Slab	SF	3000	2680	302	18	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1130	Cracking (RC and Other)	SF	318	0	300	18	0
331	Reinforced Concrete Bridge Railing	LF	556	444	112	0	0
1130	Cracking (RC and Other)	LF	112	0	112	0	0

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Inspection Photos and Notes



Elevation



Bent 1, bearings 1 - 3 the masonry plates have laminating corrosion due to leaking joints.



Typical view of the superstructure.



Approach

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Underview



Overview



Joint seals have lost adhesion and are leaking



Unsealed deck cracks upto .025".



Typical view of the substructure

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Maintenance Needs

Date Reported: 11/28/2023

Priority: D- Routine

Status: Open

Type of Work: Miscellaneous

Component: Miscellaneous

Deficiency Description

There are trees growing under the bridge and against the Bent 2.

Remarks



There are trees growing under the bridge and against the Bent 2.

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)

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed

A-57 - Beam End and Bearing Painting 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

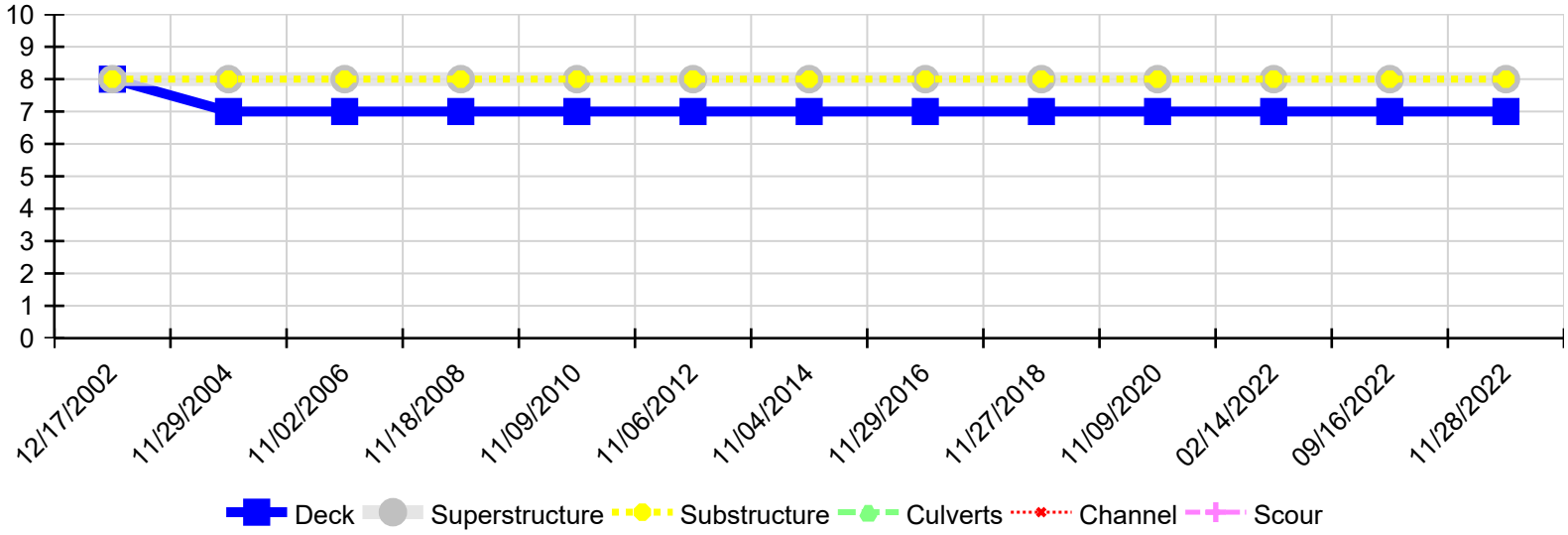
A-64 - Vegetation Removal Requested

A-65 - Clogged deck drains?

A-66 - Approach minor pothole/leveling needed

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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/28/2022	7	8	8	N	N	N
09/16/2022	7	8	8	N	N	N
02/14/2022	7	8	8	N	N	N
11/09/2020	7	8	8	N	N	N
11/27/2018	7	8	8	N	N	N
11/29/2016	7	8	8	N	N	N
11/04/2014	7	8	8	N	N	N
11/06/2012	7	8	8	N	N	N
11/09/2010	7	8	8	N	N	N
11/18/2008	7	8	8	N	N	N
11/02/2006	7	8	8	N	N	N
11/29/2004	7	8	8	N	N	N
12/17/2002	8	8	8	N	N	N