Asset #A6875(Routine)
I-30WB S-14LM58.53 over Sh 182 & Caddo Valley RR
Location: 4.87 Mi. NE Jct.Sh 51
Team Lead: Rickie Bratton **Inspection Date:** 07/24/2023

Bridge A6875 Inspection Report



Latitude:33.95072, Longitude:-93.23395

Route:30 Section:14 Log:58.53

Arnold Road ID:10x30x14xB, Arnold Log mile:84.41

District 07, 19 - Clark County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

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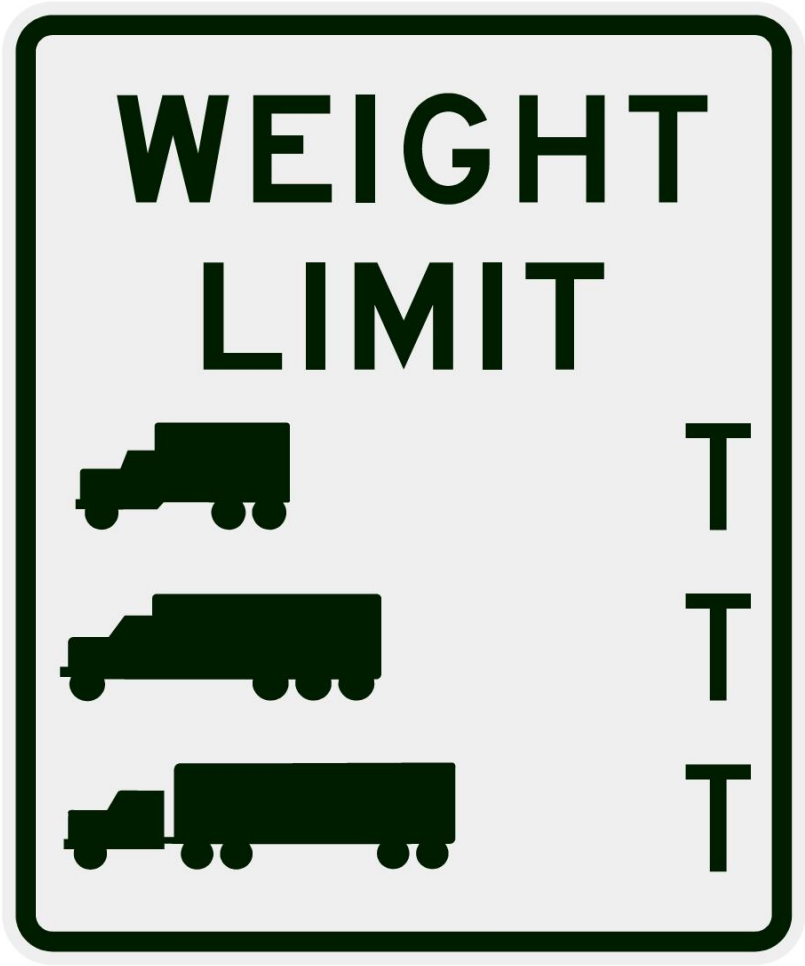
Bridge Posting Information

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

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

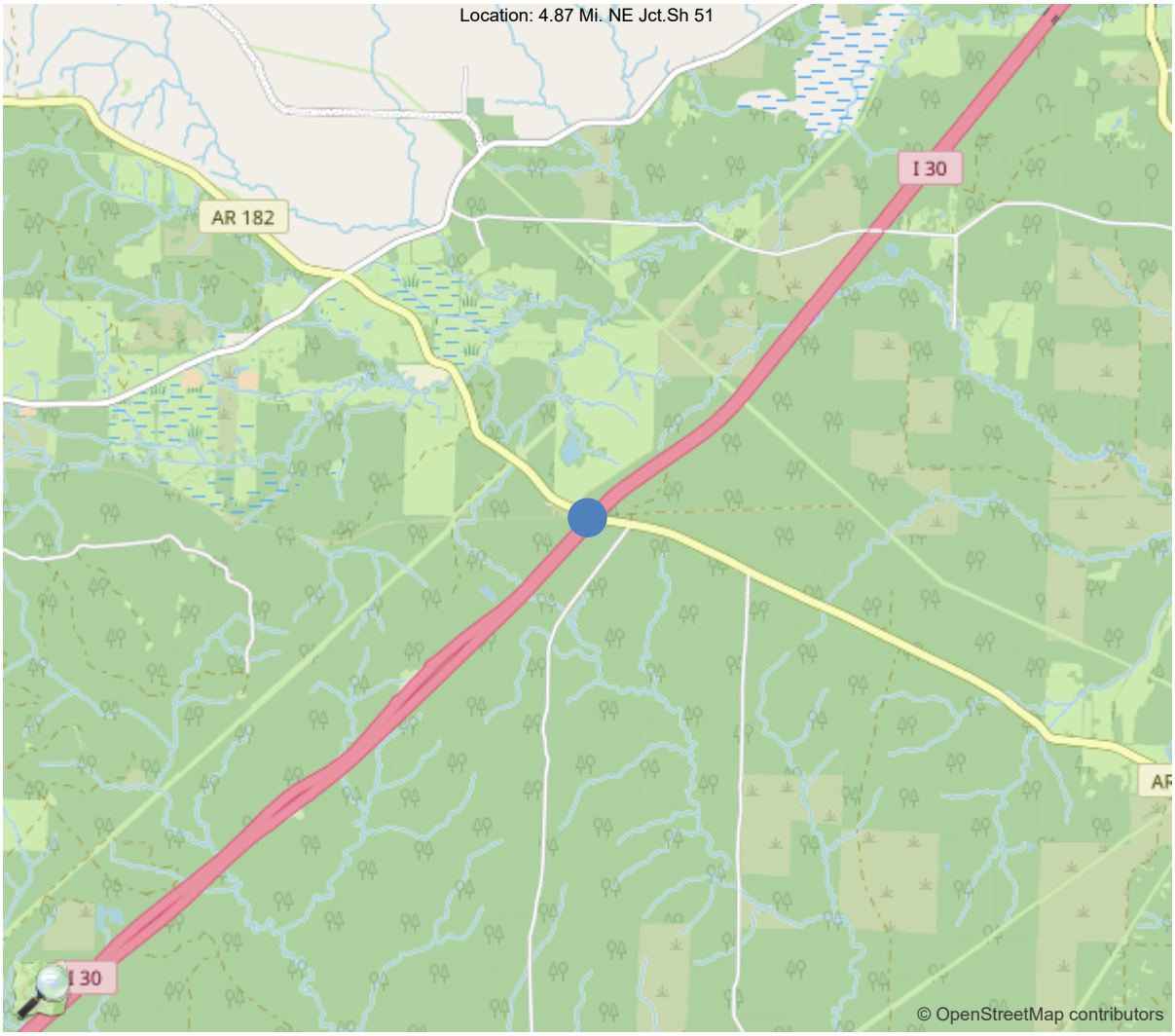
Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

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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33.95072, -93.23395

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Location: 4.87 Mi. NE Jct.Sh 51
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National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A6875
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	19 - Clark County
(4) Place Code	0
(6) Features Intersected	Sh 182 & Caddo Valley RR
(7) Facility Carried	I-30WB S-14LM58.53
(9) Location	4.87 Mi. NE Jct.Sh 51
(11) Mile Point	58.53 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000030150
(16) Latitude	33.95072
(17) Longitude	-93.23395
(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	0 - None
AGE AND SERVICE	
(27) Year Built	2003
(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	15 %
(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	41.3 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	23.08 ft
Ref:	
(55) Min Lat Underclear RT	17.7 ft
Ref:	
(56) Min Lat Underclear LT	7 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	1
(26) Functional Class	1 - Rural Principal Arterial -
(100) Defense Highway	1 - The inventory route is on
(101) Parallel Structure	L - The left structure of para
(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	8
(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	6
(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	ft
(94) Bridge Improvement Cost	$ 0
(95) Roadway Improvement Cost	$
(96) Total Project Cost	$
(97) Year of Improvement Cost Estimate	
(114) Future ADT	18100
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			07/24/2023
(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.

Asset #A6875(Routine)
I-30WB S-14LM58.53 over Sh 182 & Caddo Valley RR
Location: 4.87 Mi. NE Jct.Sh 51
Team Lead: Rickie Bratton **Inspection Date:** 07/24/2023

Inspection Notes

General Observation
I-30 WB deck, steel superstructure old Caddo Valley RR OP. SH 182 (Sticky Road) .
7/25/2023 RHB New polymer overlay. Job number 070561.

---

58 - Deck (8 - VERY GOOD CONDITION - no problems noted.)
7/25/2023 RHB New polymer overlay. Job number 070561. Previous rating 7, after overlay upgraded to 8.

---

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

---

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)

---

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	12001	11929	72	0	0
1120	Efflorescence/Rust Staining	SF	72	0	72	0	0
510	Wearing Surfaces	SF	11120	11120	0	0	0
(12) Deck cracks, sip forms show some effl.							
(1120-12) Quantity for soffit over hang only.							
(510-12) 7/25/2023, New polymer overlay							
107	Steel Open Girder/Beam	LF	1650	1650	0	0	0
515	Steel Protective Coating	SF	17188	17188	0	0	0
205	Reinforced Concrete Column	EA	6	6	0	0	0
215	Reinforced Concrete Abutment	LF	158	158	0	0	0
234	Reinforced Concrete Pier Cap	LF	120	120	0	0	0
301	Pourable Joint Seal	LF	87	87	0	0	0
(301) joints rehab under job number 070561.							
310	Elastomeric Bearing	EA	24	24	0	0	0
321	Reinforced Concrete Approach Slab	SF	2888	2455	433	0	0
1130	Cracking (RC and Other)	SF	433	0	433	0	0
331	Reinforced Concrete Bridge Railing	LF	556	496	60	0	0
1130	Cracking (RC and Other)	LF	60	0	60	0	0

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Inspection Photos and Notes



Elevation



Approach roadway



West approach



East approach

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Bent 2 girder 4, missing anchor nut, right side.



Soffit overview



Deck overview



Approach roadway.

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Joint 4, loss of adhesive.



Bent 3, vines growing on cap.



Deck overview.



Deck cracks, max 0.040

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Elevation.



Joint 1, deterioration, with some small holes and seal adhesive.



Roadway



Deck

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Joint material abutment 2



Joint material abutment 1



Span 2 soffit



Profile

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Spall in approach slab



Spalls in approach slab

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Location: 4.87 Mi. NE Jct.Sh 51
Team Lead: Rickie Bratton **Inspection Date:** 07/24/2023

Maintenance Needs

Date Reported: 07/26/2017

Priority: C - Important

Status: Monitor

Type of Work: (Inactive) 9 - None

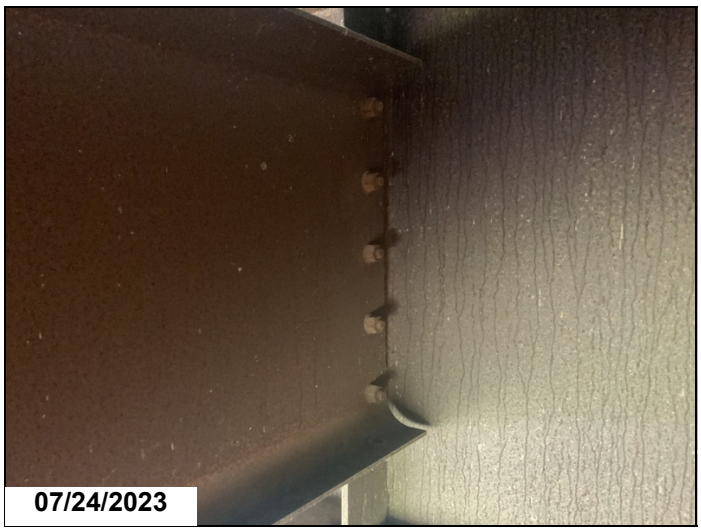
Component:

Deficiency Description

Span 3, diaphragm bolts between girders 2 & 3, nuts are loose & some have fallen off the bolt.

Remarks

State forces have tighten all bolts and nuts.



Span 3, bay 2 diaphragm 6, bolts tighten



Span 3, diaphragm bolts between girders 2 & 3, nuts are loose & some have fallen off the bolt.

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I-30WB S-14LM58.53 over Sh 182 & Caddo Valley RR
Location: 4.87 Mi. NE Jct.Sh 51
Team Lead: Rickie Bratton **Inspection Date:** 07/24/2023

Maintenance Needs

Date Reported: 06/17/2013

Priority: D- Routine

Status: Monitor

Type of Work: (Inactive) 9 - None

Component:

Deficiency Description

Poured Silicone Joint sealant @ abutment 2 has holes in it allowing dirt, debris, and road salts to get to ends of steel girders.

Remarks

Joint repaired under contract



Joint repaired



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Location: 4.87 Mi. NE Jct.Sh 51
Team Lead: Rickie Bratton **Inspection Date:** 07/24/2023

Maintenance Needs

Date Reported: 06/26/2017

Priority: D- Routine

Status: Monitor

Type of Work: (Inactive) 9 - None

Component:

Deficiency Description

Vegetation growing up the slope at abutments 1 & 2.

Remarks

Vegetation has been sprayed by county forces



Dead vegetation



Vegetation growing up the slope at abutments 1 & 2.



Bent 3 Rt. Vegetation growing up column # 2 & 3.

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	
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	
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

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

A-60 - Full Beam Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

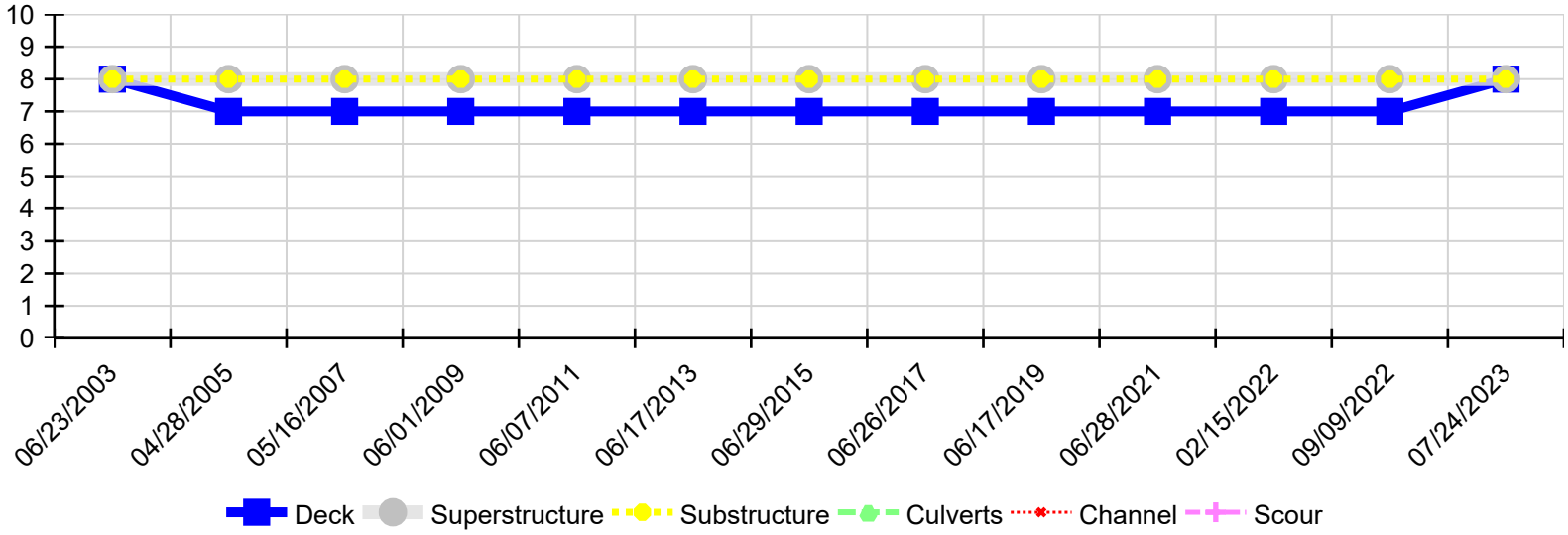
A-64 - Vegetation Removal Requested

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
07/24/2023	8	8	8	N	N	N
09/09/2022	7	8	8	N	N	N
02/15/2022	7	8	8	N	N	N
06/28/2021	7	8	8	N	N	N
06/17/2019	7	8	8	N	N	N
06/26/2017	7	8	8	N	N	N
06/29/2015	7	8	8	N	N	N
06/17/2013	7	8	8	N	N	N
06/07/2011	7	8	8	N	N	N
06/01/2009	7	8	8	N	N	N
05/16/2007	7	8	8	N	N	N
04/28/2005	7	8	8	N	N	N
06/23/2003	8	8	8	N	N	N