



Latitude:34.75252, Longitude:-92.28344

Route:10 Section:08 Log:15.097

Arnold Road ID:60x10x8xA, Arnold Log mile:14.933

District 06, 119 - Pulaski County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

### Bridge Posting Information

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

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

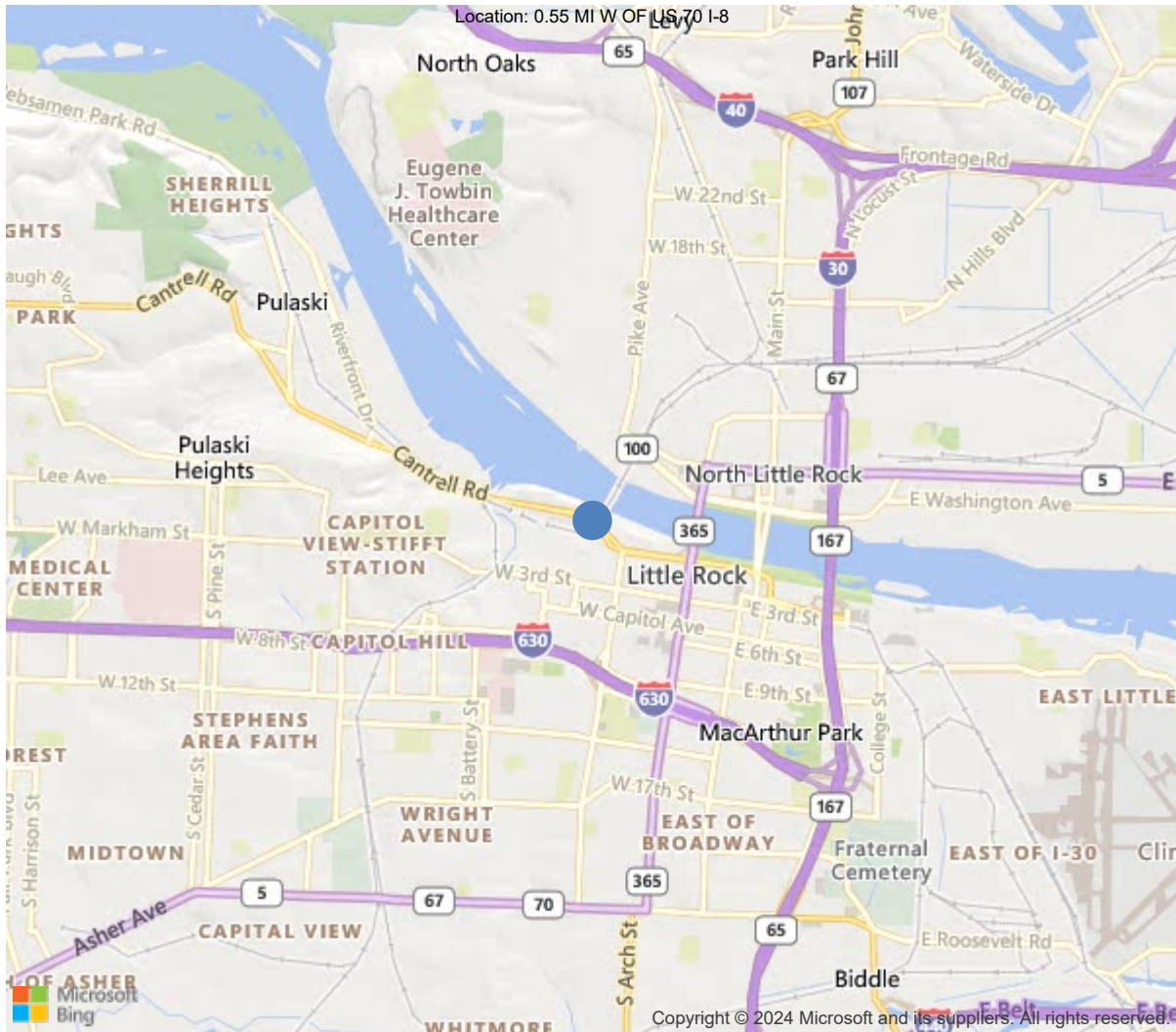
Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	38		
Code 9 (31 Tons)	44		
Code 5 (40 Tons)	57		

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





34.75252, -92.28344



Asset #02984(Routine)  
SH 10 EB LANES over UNION PACIFIC RR  
Location: 0.55 MI W OF US 70 I-8  
Team Lead: Shane Byrd Inspection Date: 02/26/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02984
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	119 - Pulaski County
(4) Place Code	41000
(6) Features Intersected	UNION PACIFIC RR
(7) Facility Carried	SH 10 EB LANES
(9) Location	0.55 MI W OF US 70 I-8
(11) Mile Point	15.097 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000010080
(16) Latitude	34.75252
(17) Longitude	-92.28344
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(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	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1956
(106) Year Reconstructed	0
(42) Type of Service	52
On	5 - Highway-pedestrian
Under	2 - Railroad
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	27000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	88 ft
(49) Structure Length	143 ft
(50) Curb or Sidewalk Width	
Left	2.5 ft
Right	5 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	34.8 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	43 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	24.16 ft
Ref:	
(55) Min Lat Underclear RT	56 ft
Ref:	
(56) Min Lat Underclear LT	14 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterway
(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	14 - Urban Other Principal Art
(100) Defense Highway	0 - The inventory route is not
(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	0 - The inventory route is not
(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	6
(59) Superstructure	5
(60) Substructure	6
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 20
(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	3
(69) Clearances, Vertical/Horizontal	9
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	6
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(113) Scour Critical Bridges	N - Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	172 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 214
(96) Total Project Cost	\$ 595
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	19500
(115) Year of Future ADT	2030

INSPECTIONS *			
(90) Inspection Date	02/26/2024		
(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.			





Asset #02984(Routine)

SH 10 EB LANES over UNION PACIFIC RR

Location: 0.55 MI W OF US 70 I-8

Team Lead: Shane Byrd Inspection Date: 02/26/2024

#### General Observation

See AHTD drawing #9042 for layout.  
Logged East bound.  
Man-lift used for inspection.

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#### 58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Asphalt wearing surface has patched potholes and the under surface has map cracking.

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#### 59 - Superstructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Girders have areas of section loss at bents. See element 107 for detail and locations.

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#### 60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Substructure has some cracking and spalls.

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#### A-57 - Girder End and Bearing Painting Needed (Y)

Bearings at all bents have corrosion with laminating rust.

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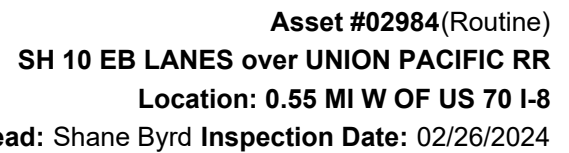
#### A-59 - Joint Repair Needed (Yes)

Joints leak but have a asphalt overlay.

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	4945	971	3974	0	0
1130	Cracking (RC and Other)	SF	3974	0	3974	0	0
510	Wearing Surfaces	SF	3968	3819	89	60	0
3210	Delam/Spall/Patched Area/Pothole	SF	89	0	89	0	0
3220	Crack (Wearing Surface)	SF	60	0	0	60	0
(12) Spans 1,2,3 under surface have ares of map cracking. 3974' CS2							
(510-12) Span 1 Patched potholes in the asphalt overlay. 32 SQFT. CS2							
Span 2 Patched potholes in the asphalt overlay. 27 SQFT. CS2							
Span 3 Patched potholes in the asphalt overlay. 30 SQFT. CS2							
107	Steel Open Girder/Beam	LF	990	0	933	57	0
1000	Corrosion	LF	990	0	933	57	0
515	Steel Protective Coating	SF	7578	45	0	6316	1217
3440	Effectiveness (Steel Protective Coatings)	LF	7533	0	0	6316	1217
(107) Bent 1 span 1 girder 1 has 3/16" pitting to lower web and lower flange at bearing area. 2' CS3							
Bent 1 span 1 girder 2 has 8" x 1" tall hole at lower web and 3/16" pitting lower flange at bearing area. 4' CS3							
Bent 1 span 1 girder 3 has moderate pitting to lower web and lower flange at bearing area. 2' CS3							
Bent 1 span 1 girder 4 has 3" x 1" tall hole at lower web and 1/8" pitting lower flange at bearing area. 4' CS3							
Bent 1 span 1 girder 5 has 12"x 2" tall hole at lower web and 3/8" pitting lower flange at bearing area. 4' CS3							
Bent 1 span 1 girder 6 has 2" x 1" tall hole at lower web and 3/16" pitting lower flange at bearing area. 3' CS3							
Bent 1 span 1 girder 7 has minor pitting to lower web and lower flange at bearing area. 1' CS3							
Bent 2 span 1 girders 1-7 have moderate pitting on the girder ends at bearing area. 7' CS3							
Bent 2 span 2 girders 1-7 state forces have cleaned and repainted 2' of girder ends in the past. Minor pitting on girder ends. 7' CS3							
Bent 3 span 2 girder 1 has 3/16" pitting to upper and lower web. Moderate pitting to lower flange. 4'CS3							
Bent 3 span 2 girder 2 has 3/16" pitting to upper and lower web. Moderate pitting to lower flange. 4'CS3							
Bent 3 span 2 girders 3,4,5,7 have moderate pitting to girder ends at bearing area. 4' CS3							
Bent 3 span 2 girder 6 has 3/16" pitting in the upper web. Lower flange has moderate pitting at bearing area. 3' CS3							
Bent 4 span 3 girders 1, 2, 3, 4, 5, 7 have moderate pitting at bearing area. 6' CS3.							
Bent 4 girder 6 has 1/8" pitting to upper web and 1/4" pitting to lower web and flange at bearing area. 2' CS3							
Girders at all spans have areas of surface rust with minor pitting. Due to failing paint system.							
(515-107) All girders have areas of surface rust. Due to failing paint system.							
205	Reinforced Concrete Column	EA	4	4	0	0	0
(205) No problems noted.							
215	Reinforced Concrete Abutment	LF	94	73	21	0	0
1130	Cracking (RC and Other)	LF	21	0	21	0	0
(215) Scattered cracks in both abutments. 21' CS2							
234	Reinforced Concrete Pier Cap	LF	64	44	16	4	0
1080	Delamination/Spall/Patched Area	LF	14	0	12	2	0





ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
(234) Both caps have small delams and cracks. CS2 Bent 3 cap ahead spall with exposed rebar under girder 6. 10% bearing loss. 2' CS3							
305	Assembly Joint without Seal	LF	120	120	0	0	0
(305) The joints leak and are covered with asphalt over lay.							
311	Movable Bearing	EA	21	0	9	12	0
1000	Corrosion	EA	21	0	9	12	0
(311) Bent 2 span 1 bearings 1,2 have laminating rust. 2' CS3 Bent 2 span 2 bearings 1-6 have laminating rust. 6' CS3. Bent 3 span 2 bearings 1, 2, 4, and 6 has laminating rust. 4' CS3.							
313	Fixed Bearing	EA	21	0	7	14	0
1000	Corrosion	EA	21	0	7	14	0
(313) The fixed bearings at bents 1,3,4 have corrosion with laminating rust. 12' CS3							
330	Metal Bridge Railing	LF	143	143	0	0	0
(330) No problems noted.							
331	Reinforced Concrete Bridge Railing	LF	143	143	0	0	0
(331) No problems noted.							



Elevation



Bent 4 abutment vertical crack under girder 7.



Span 2 girder 1 has areas of surface rust at mid span.



Bent 3 span 3 bearing 4 has laminating rust.





Bent 4 girder 6 has 1/8" pitting to upper web and 1/4" pitting to lower web and flange at bearing area.



Bent 4 fixed bearing 5 has heavy laminating rust.



Bent 3 cap ahead spall with exposed rebar under girder 6.  
10% bearing loss.



Span 2 under surface has areas of map cracking.





Span 2 under surface view.



Bent 3 span 3 girder 2 moderate pitting to girder end.



The fixed bearings at bents 3 have corrosion with heavy lamination.



Bent 3 span 2 girder 1 has 3/16" pitting to upper and lower web. Moderate pitting to lower flange.





Bent 1 girder 6 has 2" hole in the lower web and 3/16" pitting to lower web over bearing area.



Bent 1 girder 5 has 12" hole in the lower web and 3/8" pitting to lower web over bearing area.



Bent 1 girder 2 has 8" hole in the lower web and 3/16" pitting to lower web over bearing area.



Span 3 Patched potholes in the asphalt overlay. 30 SQFT. CS2





Span 2 Patched potholes in the asphalt overlay. 27 SQFT.  
CS2



Span 1 Patched potholes in the asphalt overlay. 32 SQFT.  
CS2



Deck overview.



Approach eastbound.



## Maintenance Needs

Date Reported: 02/25/2016

Priority: B - Pressing

Type of Work: Superstructure Repair

Status: Forward State

Component: Superstructure

## Deficiency Description

Bent 1 span 1 girder 1 has 3/16" pitting to lower web and lower flange at bearing area. 2' CS3  
Bent 1 span 1 girder 2 has 8" x 1" tall hole at lower web and 3/16" pitting lower flange at bearing area. 4' CS3  
Bent 1 span 1 girder 3 has moderate pitting to lower web and lower flange at bearing area. 2' CS3  
Bent 1 span 1 girder 4 has 3" x 1" tall hole at lower web and 1/8" pitting lower flange at bearing area. 4' CS3  
Bent 1 span 1 girder 5 has 12"x 2" tall hole at lower web and 3/8" pitting lower flange at bearing area. 4' CS3  
Bent 1 span 1 girder 6 has 2" x 1" tall hole at lower web and 3/16" pitting lower flange at bearing area. 3' CS3  
Bent 3 span 2 girder 1 has 3/16" pitting to upper and lower web. Moderate pitting to lower flange. 4'CS3  
Bent 3 span 2 girder 2 has 3/16" pitting to upper and lower web. Moderate pitting to lower flange. 4'CS3  
Bent 3 span 2 girder 6 has 3/16" pitting in the upper web. Lower flange has moderate pitting at bearing area. 3' CS3  
Bent 4 girder 6 has 1/8" pitting to upper web and 1/4" pitting to lower web and flange at bearing area. 2' CS3

## Remarks



Beam 5 at bent 1 has 12" long and 1" tall hole in the web



Span 1, Beam 6.



Span 1, Beam 2



Bent 1 span 1 beam 6 right side. Active rust with pitting up to 1/8" deep.



Bent 1 girder 6 has 2" hole in the lower web and 3/16" pitting to lower web over bearing area.



Bent 1 girder 2 has 8" hole in the lower web and 3/16" pitting to lower web over bearing area.



**Maintenance Needs**

**Date Reported:** 02/24/2016

**Priority:** C - Important

**Type of Work:** Substructure Repair

**Status:** Monitor

**Component:** Substructure

**Deficiency Description**

Bent 3 cap ahead spall with exposed rebar under girder 6. 10% bearing loss. 2' CS3. See photo.

**Remarks**



Bent 3 cap ahead under beam 6 spall with exposed rebar. See photo.



Bent 3 cap ahead under beam 6 spall with exposed rebar.



Bent 3 cap ahead spall with exposed rebar under girder 6. 10% bearing loss.



### Maintenance Needs

Date Reported: 02/24/2016

Priority: C - Important

Type of Work: Superstructure Repair

Status: Monitor

Component: Superstructure

### Deficiency Description

Bearings at all bents have corrosion with laminating rust.

### Remarks



bearings at bent 1 have heavy corrosion and laminating rust



Bearings at bent 1 and bent 2 at span 2. active corrosion.



Bent 1 span 1 beam 6 right side. Active rust with pitting up to 1/8" deep.



Bearings at bent 1 and bent 2 at span 2. active corrosion.



### Maintenance Needs

Date Reported: 02/21/2018

Priority: C - Important

Type of Work: Deck Repair

Status: Monitor

Component: Deck

### Deficiency Description

At Bent 4, the bridge end has numerous spalls in both travel lanes.

### Remarks

State forces have patched pot holes in the wearing surface.



Spalls in wearing surface over bent 4 abutment



Bt. 4 potholes at the end of the bridge.



Span 2, potholes in wearing surface.







**Maintenance Needs**

**Date Reported:** 02/20/2018

**Priority:** D- Routine

**Type of Work:** Miscellaneous

**Status:** Monitor

**Component:** Miscellaneous

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**Deficiency Description**

At bent 1, transients are taking up residence and accumulating materials under this structure.

**Remarks**

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At bent 1, transients are taking up residence and accumulating materials under this structure.





Asset #02984(Routine)

SH 10 EB LANES over UNION PACIFIC RR

Location: 0.55 MI W OF US 70 I-8

Team Lead: Shane Byrd Inspection Date: 02/26/2024

## Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	Yes
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	Yes
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-54 - Sealable Deck Cracks (No)**

**A-55 - Deck Washing Needed (No)**

**A-56 - Joint Cleaning/Flushing Needed (No)**





**Asset #02984**(Routine)

**SH 10 EB LANES over UNION PACIFIC RR**

**Location: 0.55 MI W OF US 70 I-8**

**Team Lead: Shane Byrd Inspection Date: 02/26/2024**

**A-57 - Girder End and Bearing Painting Needed (Yes)**

Bearings at all bents have corrosion with laminating rust.

**A-58 - Cap Cleaning/Flushing Needed (No)**

**A-59 - Joint Repair Needed (Yes)**

Joints leak but have a asphalt overlay.

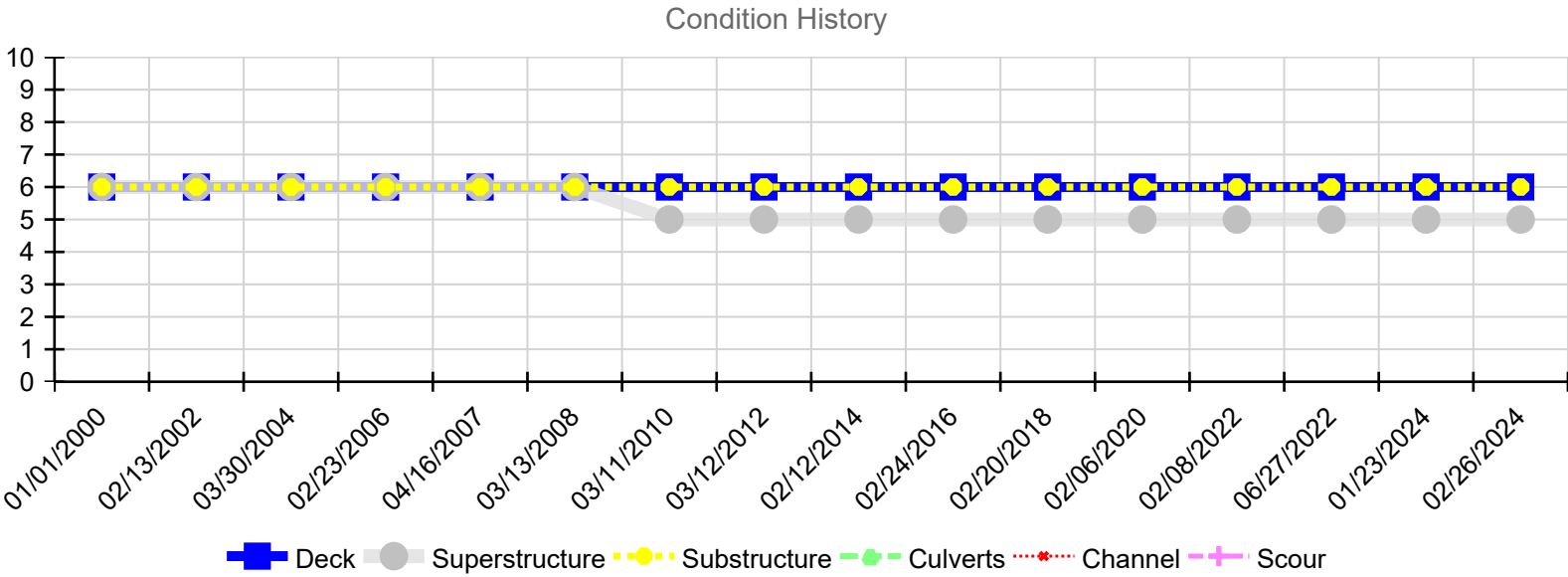
**A-60 - Full Girder Painting Needed (Yes)**

**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)**



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/26/2024	6	5	6	N	N	N
01/23/2024	6	5	6	N	N	N
06/27/2022	6	5	6	N	N	N
02/08/2022	6	5	6	N	N	N
02/06/2020	6	5	6	N	N	N
02/20/2018	6	5	6	N	N	N
02/24/2016	6	5	6	N	N	N
02/12/2014	6	5	6	N	N	N
03/12/2012	6	5	6	N	N	N
03/11/2010	6	5	6	N	N	N
03/13/2008	6	6	6	N	N	N
04/16/2007	6	6	6	N	N	N
02/23/2006	6	6	6	N	N	N
03/30/2004	6	6	6	N	N	N
02/13/2002	6	6	6	N	N	N
01/01/2000	6	6	6	N	N	N