



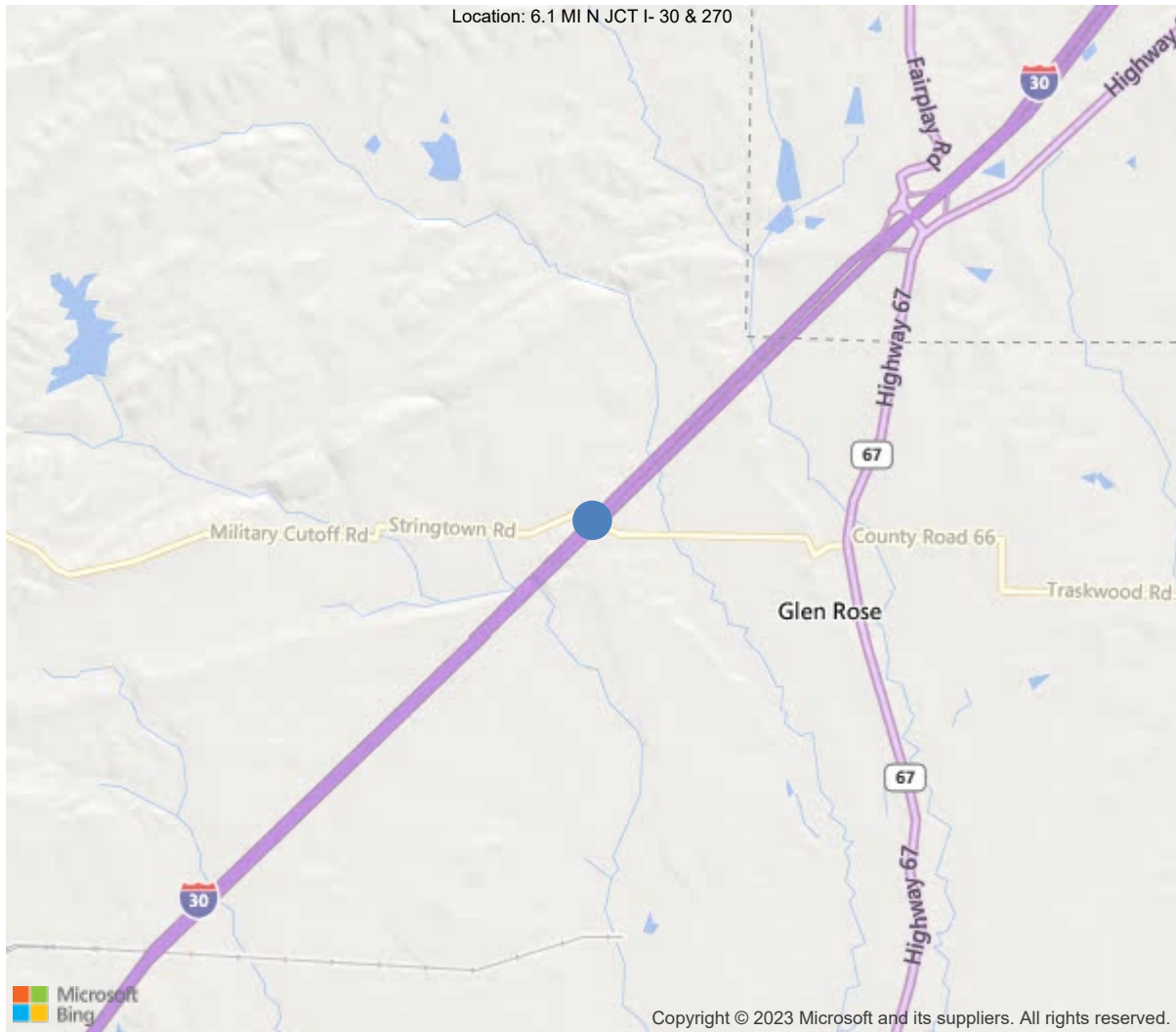
Latitude:34.46057, Longitude:-92.75232

Route:30 Section:21 Log:104.14

Arnold Road ID:30x30x21xB, Arnold Log mile:38.821

District 06, 59 - Hot Spring County

Owner: 1 - State Highway Agency



34.46057, -92.75232





Asset #A3431 (Routine)

I 30-SEC 21 WB over CR 70 Stringtown Rd

Location: 6.1 MI N JCT I- 30 & 270

Team Lead: Chris Doggett, Inspection Date: 07/14/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A3431
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	59 - Hot Spring County
(4) Place Code	0
(6) Features Intersected	CR 70 Stringtown Rd
(7) Facility Carried	I 30-SEC 21 WB
(9) Location	6.1 MI N JCT I- 30 & 270
(11) Mile Point	104.14 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000030210
(16) Latitude	34.46057
(17) Longitude	-92.75232
(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	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	1964
(106) Year Reconstructed	1999
(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	18000
(30) Year of ADT	2018
(109) Truck ADT	45 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	37 ft
(49) Structure Length	113 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	42.8 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	15 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	41 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16 ft
Ref:	
(55) Min Lat Underclear RT	6.2 ft
Ref:	
(56) Min Lat Underclear LT	6 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	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	6
(59) Superstructure	7
(60) Substructure	4
(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	6
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	4
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	0 - Inspected feature does not meet
(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	20053
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	07/14/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			



Asset #A3431(Routine)

District: 06, County: 59 - Hot Spring County

Team Lead: Chris Doggett, Inspection Date: 07/14/2022

### General Observation

Job #060591, Drawing #38982 for layout.

Logged Eastbound. Westbound traffic.

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### 60 - Substructure (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

Bent 3, span 3, girder 1: pedestal is cracked and delamed under the bearing. Approximately half of the bearing area is compromised. 2022

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### A-46 - Asset Files

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	4754	3363	1199	192	0
1120	Efflorescence/Rust Staining	SF	81	0	81	0	0
1130	Cracking (RC and Other)	SF	1310	0	1118	192	0
(12) Deck has large transverse/longitude cracks in all spans. Soffits have cracks with efflorescence.							



**I 30-SEC 21 WB over CR 70 Stringtown Rd**

**Location: 6.1 MI N JCT I- 30 & 270**

**Team Lead:** Chris Doggett, **Inspection Date:** 07/14/2022

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	666	618	48	0	0
1000	Corrosion	LF	48	0	48	0	0
515	Steel Protective Coating	SF	4062	3966	0	96	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	96	0	0	96	0
(107) Girders in span 2 have active corrosion to the bottom portions of webs and bottom flanges at the caps.							



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## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	6	5	0	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
(205) Bent 2 column 2, has a spall with exposed reinforcing steel on the right side.							
215	Reinforced Concrete Abutment	LF	126	119	4	3	0
1130	Cracking (RC and Other)	LF	7	0	4	3	0
(215) both abutments have vertical cracks with efflorescence. Bent1, girder 4: pedestal has transverse crack with efflorescence staining. Similar condition at bent 4, pedestals 4&5.							
234	Reinforced Concrete Pier Cap	LF	86	82	0	2	2
1080	Delamination/Spall/Patched Area	LF	4	0	0	2	2
(234) Back side of bent 2 has exposed reinforcing steel. Bent 3, span 3, girder 1: pedestal is cracked and delamed under the bearing. Approximately half of the bearing area is compromised. 2022							

**60 - Substructure** (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

Comment: Bent 3, span 3, girder 1: pedestal is cracked and delamed under the bearing. Approximately half of the bearing area is compromised. 2022



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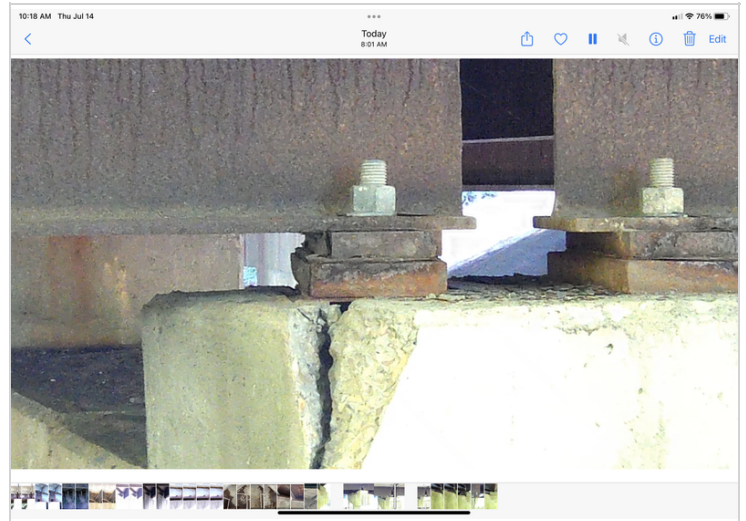
Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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Elevation



Bent 3, span 3, girder 1: pedestal is cracked and delamed under the bearing. Approximately half of the bearing area is compromised. 2022



Soffit view



Bent 3, girder 1: cap is spalled.





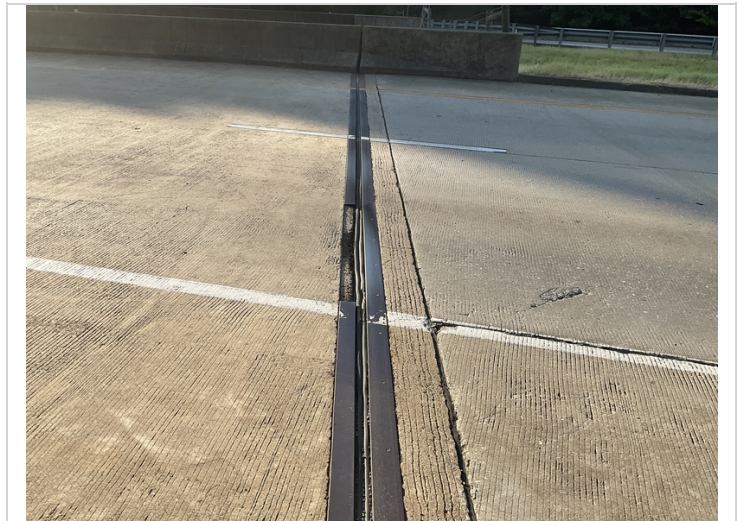
Deck view



Span 1: large unsealed transverse and longitudinal cracks



Inventory looking east



Bent 1: section of joint armor missing and joint is leaking.



Bent1, girder 4: pedestal has transverse crack with efflorescence staining. Similar condition at bent 4, pedestals 4&5.



**Maintenance Needs**

**Date Reported:** 07/06/2016

**Priority:** C - Important

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Element

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**Deficiency Description**

Moderate to large deck cracking in all spans. 0.30 - .040 in. at 3 to 5 ft. spacing.

**Remarks**

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Longitudinal cracks, span 1.



Span 1 large transverse cracks.



Transverse and longitudinal cracks in span 1 of the deck.

**Maintenance Needs**

**Date Reported:** 07/06/2016

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Element

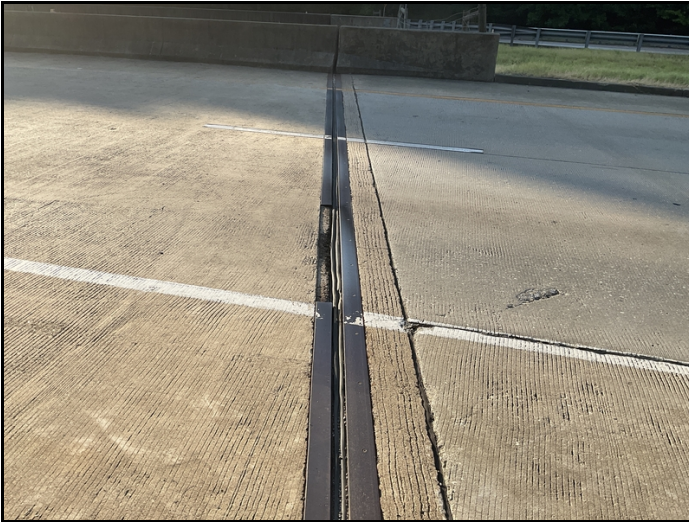
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**Deficiency Description**

The joint armor is loose under traffic at both abutments

**Remarks**

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Bent 1: section of joint armor missing and joint is leaking.  
2022



### Maintenance Needs

Date Reported: 07/12/2018

Priority: B - Pressing

Type of Work: Repair (General)

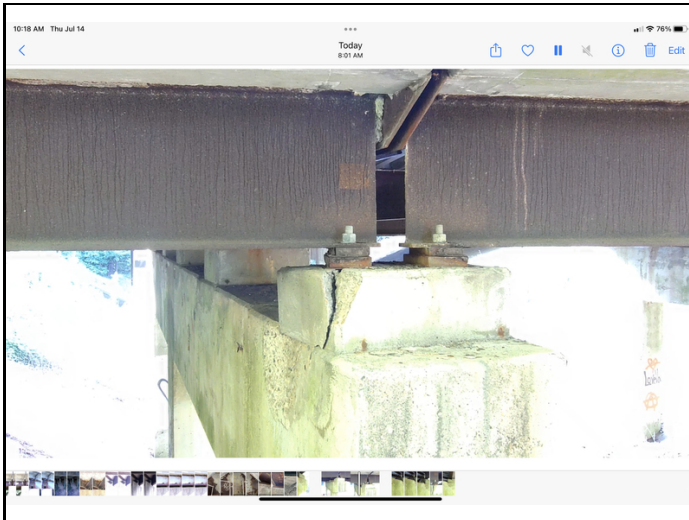
Status: Open

Component: Element

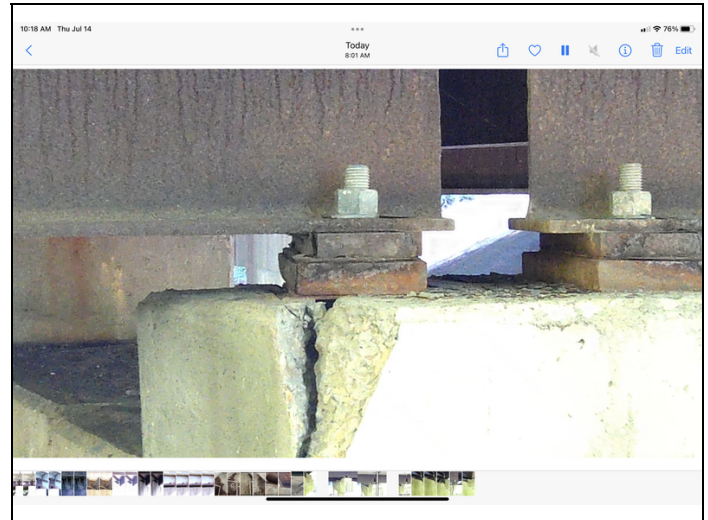
### Deficiency Description

Cap: Bent 3 girder 1 raised bearing seat has a spall under bearing, also a crack that extends through the riser under the bearing. Photo attached.

### Remarks



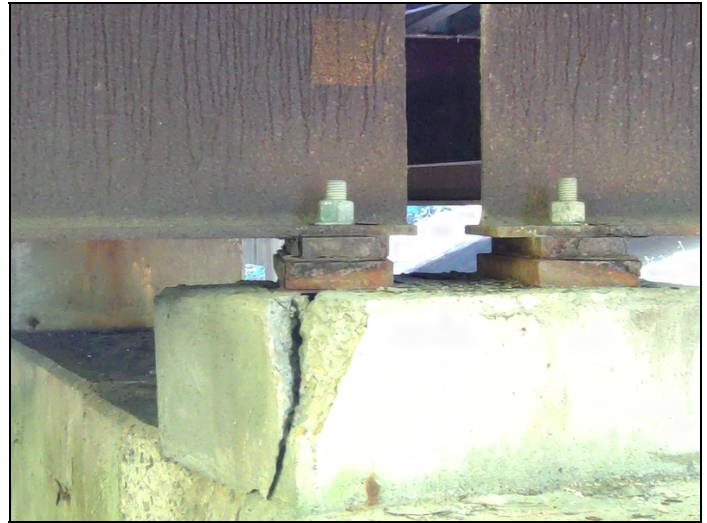
Bent 3, span 3, girder 1: pedestal is cracked and delamed under the bearing. Approximately half of the bearing area is compromised. 2022



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Bent 3 girder 1 raised bearing seat has a spall under bearing, also a crack that extends through the riser under the bearing.



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Bent 3 girder 1 raised bearing seat has a spall under bearing, also a crack that extends through the riser under the bearing.



Bent 3 span 3 pillar block bearing pad has large delamination under bearing





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**Team Lead:** Chris Doggett, **Inspection Date:** 07/14/2022

#### Maintenance Needs

**Date Reported:** 07/12/2018

**Priority:** D- Routine

**Type of Work:** (Inactive) (Inactive) 1 - Clean

**Status:** Assigned

**Component:** Miscellaneous

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#### Deficiency Description

Graffiti on all columns that has offensive wording.

#### Remarks

Assigned Hot Springs 06301 10/31/18

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**I 30-SEC 21 WB over CR 70 Stringtown Rd**

**Location: 6.1 MI N JCT I- 30 & 270**

**Team Lead: Chris Doggett, Inspection Date: 07/14/2022**

## **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	



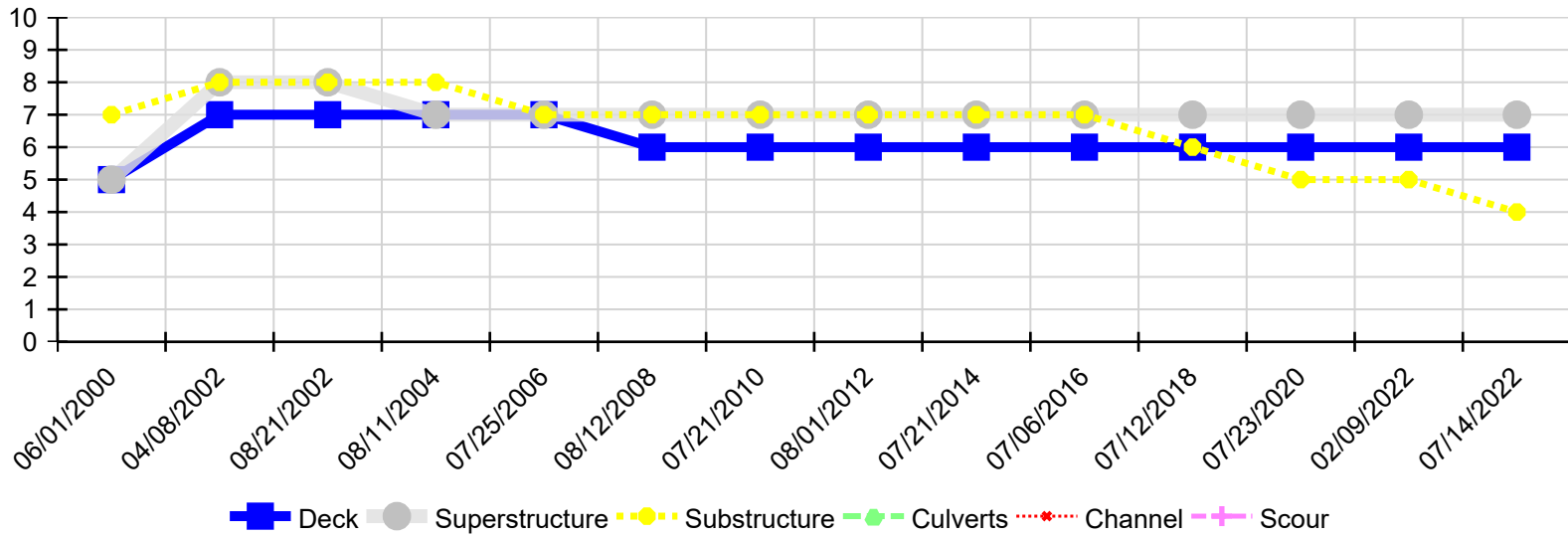
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Team Lead: Chris Doggett, Inspection Date: 07/14/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/14/2022	6	7	4	N	N	N
02/09/2022	6	7	5	N	N	N
07/23/2020	6	7	5	N	N	N
07/12/2018	6	7	6	N	N	N
07/06/2016	6	7	7	N	N	N
07/21/2014	6	7	7	N	N	N
08/01/2012	6	7	7	N	N	N
07/21/2010	6	7	7	N	N	N
08/12/2008	6	7	7	N	N	N
07/25/2006	7	7	7	N	N	N
08/11/2004	7	7	8	N	N	N
08/21/2002	7	8	8	N	N	N
04/08/2002	7	8	8	N	N	N
06/01/2000	5	5	7	N	N	N