

## Bridge M0129 Inspection Report



Latitude:34.69116, Longitude:-92.39273

Route:70 Section:12 Log:1.016

Arnold Road ID:60x70x12xA, Arnold Log mile:1.011

District 06, 119 - Pulaski County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E



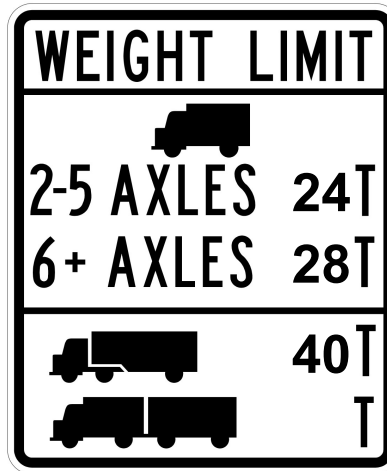
### Bridge Posting Information

41 - Structure Open/Posted/Closed: P - Posted for load (may include other restrictions such as temporary bridges which are load posted)

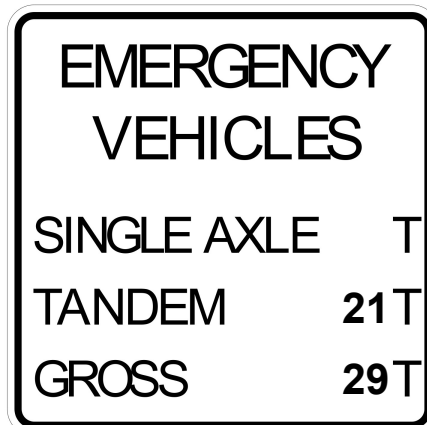
70 - Bridge Posting: 1 - 30.0 - 39.9 % below

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
2-5 Axles Posting	24	24	24
6+ Axles Posting	28	28	28
Truck and Trailer Posting	40	40	40
Truck and Dual Trailer Posting			
EV - Single Posting			
EV - Tandem Posting	21	21	21
EV - Gross Posting	29	29	29

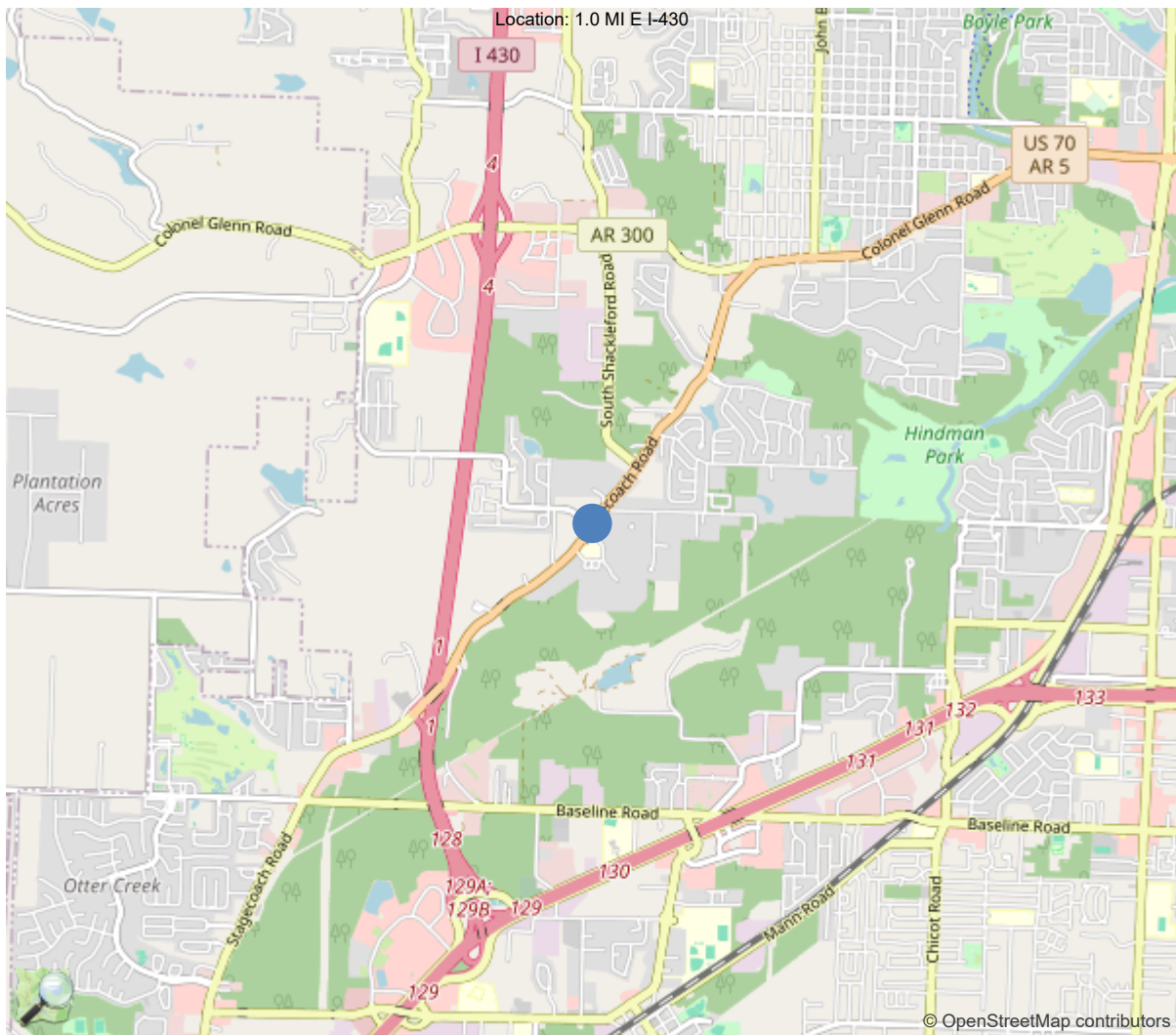
If calculated capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner.



ARDOT  
W/ MUTCD TRUCKS  
R12-6



MUTCD 11TH EDITION  
R12-7aP



34.69116, -92.39273

## National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M0129
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	119 - Pulaski County
(4) Place Code	41000
(6) Features Intersected	BRANCH
(7) Facility Carried	SH 5 Log 4.51
(9) Location	1.0 MI E I-430
(11) Mile Point	1.016 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000005090
(16) Latitude	34.69116
(17) Longitude	-92.39273
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	1
(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	1920
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	9800
(30) Year of ADT	2024
(109) Truck ADT	%
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	20 ft
(49) Structure Length	22.3 ft
(50) Curb or Sidewalk Width	
Left	1.2 ft
Right	1.2 ft
(51) Bridge Roadway Width Curb to Curb	29.9 ft
(52) Deck Width Out to Out	32.3 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	99.1 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(111) Pier Protection	
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	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	N - No parallel structure exists
(102) Direction of Traffic	2 - 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 structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	5
(59) Superstructure	5
(60) Substructure	7
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	33
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	20
(70) Bridge Posting	1 - 30.0 - 39.9 % below
(41) Structure Open/Posted/Closed	P - Posted for load (may include
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	0 - Inspected feature does not meet
(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	5 - Bridge foundations determined to
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	45 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 306
(96) Total Project Cost	\$ 512
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	11277
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			10/01/2025
(91) Frequency			12
(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: Chris Doggett, Inspection Date: 10/01/2025

### Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	M0129
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1920

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	119 - Pulaski County
B.L.03 Place Code	41000 - Little Rock
B.L.04 Highway Agency District	06 - District 06
B.L.05 Latitude	34.69116
B.L.06 Longitude	-92.39273
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	1.0 MI E I-430
B.L.12 Metropolitan Planning Organization	2

CLASSIFICATION	
B.CL.01 Owner	S01 - State transportation departme
B.CL.02 Maint. Responsibility	S01 - State transportation departme
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	N - Bridge is not eligible for the
B.CL.05 Toll	N - Bridge does not carry a toll ro
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	22
B.G.02 Total Bridge Length	22.3
B.G.03 Max Span Length	20
B.G.04 Min Span Length	20
B.G.05 Bridge Width Out-to-Out	32.2
B.G.06 Bridge Width Curb-to-Curb	29.9
B.G.07 Left Curb or Sidewalk Width	1.3
B.G.08 Right Curb or Sidewalk Width	1.3
B.G.09 Approach Roadway Width	29.9

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	0
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	6
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	718.0600000000001

LOADS AND LOAD RATING	
B.LR.01 Design Load	U - Unknown
B.LR.02 Design Method	LFD - Load Factor Design
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LFR - Load Factor Rating
B.LR.05 Inventory Load Rating Factor	0.55
B.LR.06 Operating Load Rating Factor	0.92
B.LR.07 Controlling Legal Load Rating Factor	0.64
B.LR.08 Routine Permit Loads	Bridge does not carry routine permi

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	5 - FAIR - Some moderate defec
B.C.02 Superstructure Condition	5 - FAIR - Some moderate defec
B.C.03 Substructure Condition	7 - GOOD - Some minor defects.
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	N - NOT APPLICABLE - Component
B.C.06 Bridge Railing Transitions Condition	N - NOT APPLICABLE - Component
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	N - NOT APPLICABLE - Bridge do
B.C.09 Channel Condition Rating	6 - SATISFACTORY - Widespread
B.C.10 Channel Protection Condition	7 - GOOD - Some minor defects.
B.C.11 Scour Condition Rating	7 - Some minor scour.
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	5 - FAIR - Some moderate defec
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	1 - Remote - once every 100 years o
B.AP.03 Scour Vulnerability	0 - Scour appraisal has not been co
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

Team Lead: Chris Doggett, Inspection Date: 10/01/2025

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	1	B.SP.08 Deck Interaction	IM - Integral or monolithic
B.SP.03 # of Beam Lines	1	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	C01 - Reinforced concrete - ca	B.SP.10 Wearing Surface	B01 - Bituminous (asphalt)
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	S01 - Slab - solid	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			
<b>A1</b>			
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	F01 - Footing - not on rock
B.SB.04 Substructure Type	A01 - Abutment - cantilever/wa	B.SB.07 Foundation Protective System	0 - None

HIGHWAY FEATURES			
<b>H1</b>			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	10572
B.F.03 Feature Name	SH 5 Log 4.51	B.H.10 Annual ADTT	105
B.H.01 Functional Classification	3 - Principal Arterial - Other	B.H.11 Year of Annual ADT	2018
B.H.02 Urban Code	T-U	B.H.12 Highway Max Usable Vertical Clearance	99.9
B.H.03 NHS Designation	Y - NHS	B.H.13 Highway Min Vertical Clearance	99.9
B.H.04 National Highway Freight Network	N - Not on the NHFN	B.H.14 Highway Min Horizontal Clearance, Left	
B.H.05 STRAHNET Designation	N - Not a STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	
B.H.06 LRS Route ID	5090	B.H.16 Highway Max Usable Surface Width	99.9
B.H.07 LRS Mile Point	1.016	B.H.17 Bypass Detour Length	3
B.H.08 Lanes On Highway	2	B.H.18 Crossing Bridge Number	

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
H1	R01	70	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline

WATERWAY FEATURES			
<b>W1</b>			
B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	Creek	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	





Team Lead: Chris Doggett, Inspection Date: 10/01/2025

POSTING STATUS DATA	
B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PP-T - TEMP - Permanent or tem	

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
AR Type 3	1.01	T - Truck Load	24
AR SU4	0.8	T - Truck Load	24
AR SU5	0.74	T - Truck Load	24
AR CMM2	0.7	T - Truck Load	24
AR CMM3	0.64	T - Truck Load	24
AR SU6	0.76	T - Truck Load	28
AR SU7	0.79	T - Truck Load	28
AR 3S2	0.96	T - Truck Load	40
AASHTO Type 3-3	1.28	T - Truck Load	
FHWA Type EV2 emergency vehicl	1.03	G - Gross Load	29
FHWA Type EV2 emergency vehicl	1.03	A - Single Axle Load	
FHWA Type EV3 emergency vehicl	0.68	D - Tandem Axle Load	21
FHWA Type EV3 emergency vehicl	0.68	G - Gross Load	29



## Inspection Notes

### General Observation

Team Lead – Chris Doggett  
Bridge Inspector – Shawn Vergason  
Bridge was inspected from the streambed looking east with the log mile.

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### 41 - Structure Open/Posted/Closed (P)

New load posting signs have been added.

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

Overall the deck is in fair condition, it has dirt and gravel fill with asphalt wearing surface. The undersurface has multiple spalls with exposed rebar.

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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.)

Overall the superstructure is in fair condition. The undersurface has multiple spalls with exposed rebar.

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

Overall the substructure is in good condition with both footing being exposed.

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### A-19 - Code 4 (Beginning)

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### A-20 - Code 4 (End)

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### B.G.13 Maximum Bridge Height (6)

Deck has dirt and gravel fill with asphalt wearing surface.

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### B.C.05 Bridge Railing Condition Rating (N)

No bridge railing.

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**Team Lead:** Chris Doggett **Inspection Date:** 10/01/2025

## National Bridge Element Quantities and Notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	722	678	10	34	0
1080	Delamination/Spall/Patched Area	SF	26	0	10	16	0
1090	Exposed Rebar	SF	18	0	0	18	0
510	Wearing Surfaces	SF	700	570	100	30	0
3220	Crack (Wearing Surface)	SF	130	0	100	30	0
(38) Deck has dirt and gravel fill with asphalt wearing surface. The undersurface has multiple large spalls with exposed rebar that has measurable section loss. CS3- 18sf of spalling, CS3-16' delam (510-38) Map cracking all throughout the asphalt wearing surface.							
215	Reinforced Concrete Abutment	LF	93	86	2	5	0
1080	Delamination/Spall/Patched Area	LF	5	0	0	5	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(215) Small vertical cracks in abutment 2. ARDOT forces have placed scour countermeasures at abutment 2. Right wing wall at bent 2 is damaged from traffic impact							
220	Reinforced Concrete Pile Cap/Footing	LF	93	93	0	0	0
(220) Footings exposed at both abutments.							

## Inspection Photos and Notes



Elevation



Inventory looking east



Load posting sign looking west.



Load posting sign looking east.





Under surface view



Deck view



Bent 2: footing is exposed and the countermeasure is working as intended.



Channel looking downstream





Channel looking upstream



The undersurface has multiple large spalls with exposed rebar that has measurable section loss. CS3- 18sf of spalling, CS3-16' delam



### Maintenance Needs

Date Reported: 10/29/2020

Priority: C - Important

Type of Work: Deck Repair

Status: Monitor

Component: Deck

### Deficiency Description

Undersurface has large spalls with rebar exposed at the south west end of the bridge.

### Remarks



10/02/2025

The undersurface has multiple large spalls with exposed rebar that has measurable section loss. CS3- 18sf of spalling, CS3-16' delam 2025



10/24/2022

Spall with exposed rebar towards bent 1 right side soffit.



10/24/2022

Spall with exposed rebar towards bent 2 left side soffit.



10/26/2020

Large spall with rebar exposed in the soffit



### Maintenance Needs

**Date Reported:** 10/22/2018

**Priority:** D- Routine

**Type of Work:** Substructure Repair

**Status:** Monitor

**Component:** Substructure

### Deficiency Description

Right wing wall at bent 2 is damaged from traffic impact

### Remarks



Right wing wall at bent 2 is damaged from traffic impact.  
2025



Right wing wall at bent 2 is damaged from traffic impact.  
2024



Right wing wall at bent 2 is damaged from traffic impact



Right side at bent 2, damage to wing wall.





Southeast wing wall impact damage



Right wing wall at bent 2 damaged from traffic impact



Right wing wall at bent 2 is damaged from traffic impact

## 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	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
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-65 - Clogged deck drains?	No
A-66 - Approach minor pothole/leveling needed	No

**A-54 - Sealable Deck Cracks (No)**

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

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





**Asset #M0129**(Routine)  
**SH 5 Log 4.51 over BRANCH**  
**Location: 1.0 MI E I-430**

**Team Lead:** Chris Doggett **Inspection Date:** 10/01/2025

**A-57 - Girder End and Bearing Painting Needed (No)**

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

**A-59 - Joint Repair Needed (No)**

**A-60 - Full Girder Painting Needed (No)**

**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-65 - Clogged deck drains? (No)**

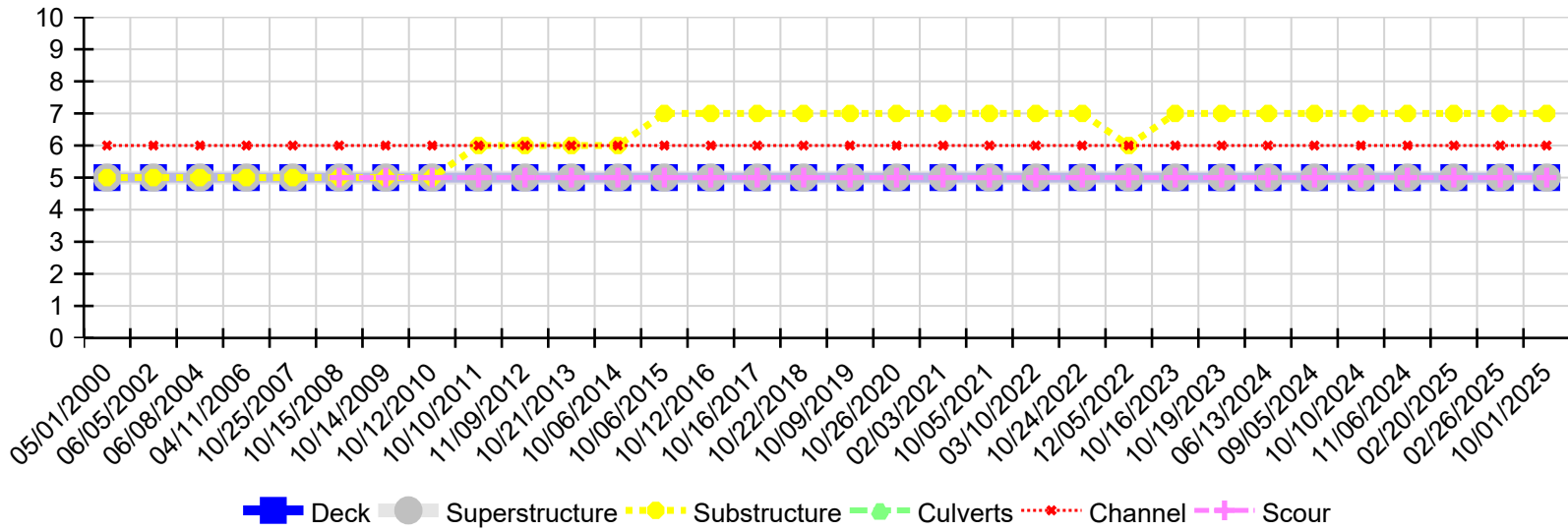


**Asset #M0129**(Routine)  
**SH 5 Log 4.51 over BRANCH**  
**Location: 1.0 MI E I-430**

**Team Lead:** Chris Doggett **Inspection Date:** 10/01/2025

**A-66 - Approach minor pothole/leveling needed (No)**

### Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/01/2025	5	5	7	N	6	5
02/26/2025	5	5	7	N	6	5
02/20/2025	5	5	7	N	6	5
11/06/2024	5	5	7	N	6	5
10/10/2024	5	5	7	N	6	5
09/05/2024	5	5	7	N	6	5
06/13/2024	5	5	7	N	6	5
10/19/2023	5	5	7	N	6	5
10/16/2023	5	5	7	N	6	5
12/05/2022	5	5	6	N	6	5
10/24/2022	5	5	7	N	6	5
03/10/2022	5	5	7	N	6	5
10/05/2021	5	5	7	N	6	5
02/03/2021	5	5	7	N	6	5
10/26/2020	5	5	7	N	6	5
10/09/2019	5	5	7	N	6	5
10/22/2018	5	5	7	N	6	5
10/16/2017	5	5	7	N	6	5
10/12/2016	5	5	7	N	6	5
10/06/2015	5	5	7	N	6	5
10/06/2014	5	5	6	N	6	5
10/21/2013	5	5	6	N	6	5
11/09/2012	5	5	6	N	6	5
10/10/2011	5	5	6	N	6	5
10/12/2010	5	5	5	N	6	5
10/14/2009	5	5	5	N	6	5
10/15/2008	5	5	5	N	6	5





**Asset #M0129**(Routine)  
**SH 5 Log 4.51 over BRANCH**  
**Location: 1.0 MI E I-430**

**Team Lead:** Chris Doggett **Inspection Date:** 10/01/2025

Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/25/2007	5	5	5	N	6	N
04/11/2006	5	5	5	N	6	N
06/08/2004	5	5	5	N	6	N
06/05/2002	5	5	5	N	6	N
05/01/2000	5	5	5	N	6	N