

## Bridge 06981 Inspection Report



Latitude:34.36954, Longitude:-92.76666

Route:270 Section:08 Log:4

Arnold Road ID:30x270x8xA, Arnold Log mile:4.071

District 06, 59 - Hot Spring County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

### Bridge Posting Information

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

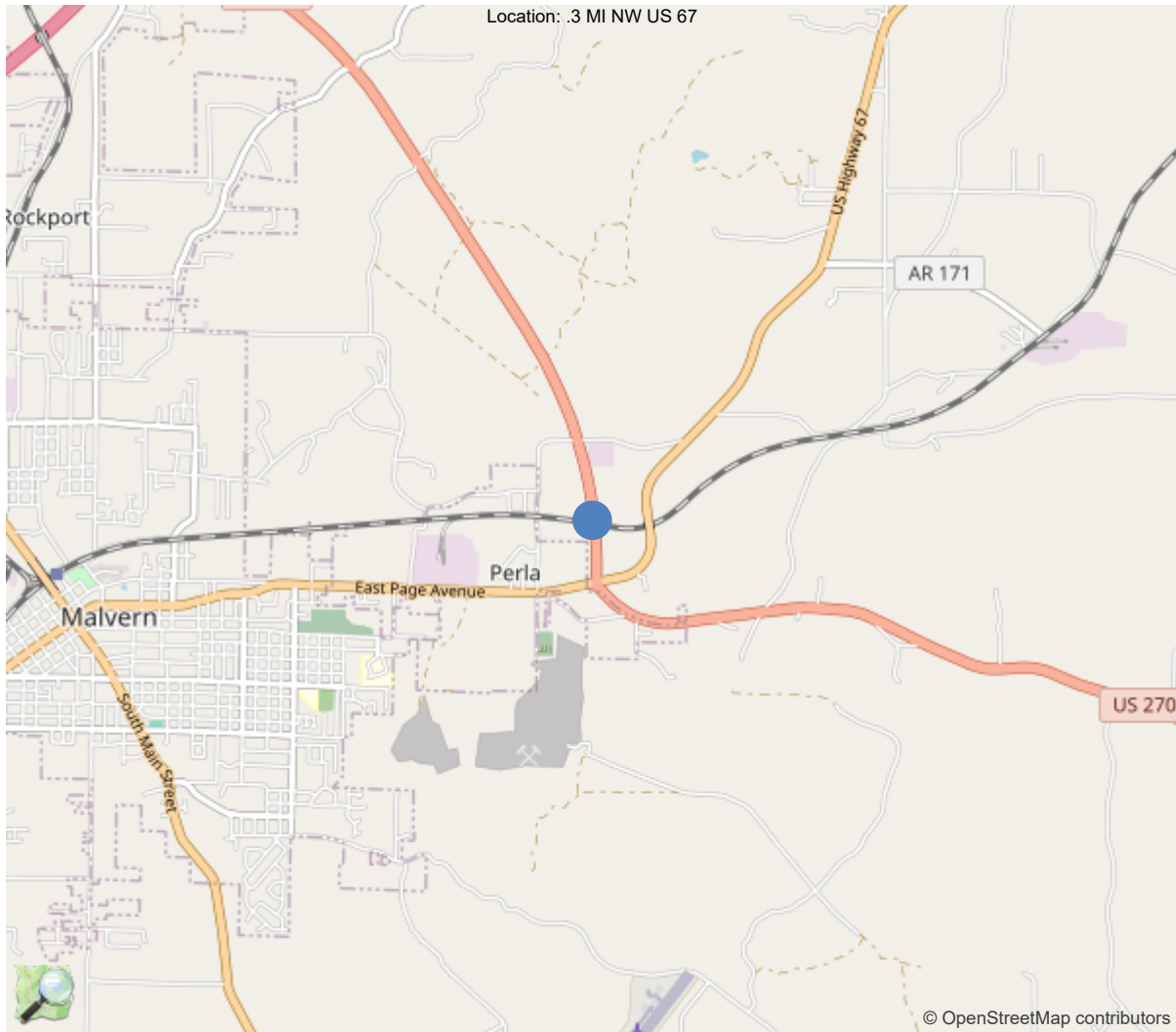
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	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



34.36954, -92.76666

## National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06981
(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	UPRR
(7) Facility Carried	US 270 Log 4.00
(9) Location	.3 MI NW US 67
(11) Mile Point	4 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.36954
(17) Longitude	-92.76666
(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	0 - None (no additional concrete thickne
Type of Membrane	0 - None
Type of Deck Protection	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2005
(106) Year Reconstructed	
(42) Type of Service	12
On	1 - Highway
Under	2 - Railroad
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	4400
(30) Year of ADT	2024
(109) Truck ADT	4 %
(19) Bypass, Detour Length	0 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	80 ft
(49) Structure Length	184.2 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	43.2 ft
(32) Approach Roadway Width (W/Shoulders)	51.8 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	23.5 ft
Ref:	
(55) Min Lat Underclear RT	47.1 ft
Ref:	
(56) Min Lat Underclear LT	26.9 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	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	4 - Historical significance is
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(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	6
(69) Clearances, Vertical/Horizontal	9
(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	5300
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date			09/09/2025
(91) Frequency			48
(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: Keith Harris, Inspection Date: 09/10/2025

### Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	06981
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	2005

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	59 - Hot Spring County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	06 - District 06
B.L.05 Latitude	34.36954
B.L.06 Longitude	-92.76666
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	.3 MI NW US 67
B.L.12 Metropolitan Planning Organization	

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	7 - Historic significance of the br
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	184.1
B.G.02 Total Bridge Length	184.1
B.G.03 Max Span Length	80.1
B.G.04 Min Span Length	51
B.G.05 Bridge Width Out-to-Out	43.3
B.G.06 Bridge Width Curb-to-Curb	40
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	51.8

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	15
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	29
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	7971.529999999999

LOADS AND LOAD RATING	
B.LR.01 Design Load	HS20 - HS-20
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LFR - Load Factor Rating
B.LR.05 Inventory Load Rating Factor	1
B.LR.06 Operating Load Rating Factor	1.67
B.LR.07 Controlling Legal Load Rating Factor	
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	N - No E/E' 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	7 - GOOD - Some minor defects.
B.C.02 Superstructure Condition	7 - GOOD - Some minor defects.
B.C.03 Substructure Condition	6 - SATISFACTORY - Widespread
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	7 - GOOD - Some minor defects.
B.C.06 Bridge Railing Transitions Condition	6 - SATISFACTORY - Widespread
B.C.07 Bridge Bearings Cond.	6 - SATISFACTORY - Widespread
B.C.08 Bridge Joints Condition	6 - SATISFACTORY - Widespread
B.C.09 Channel Condition Rating	N - NOT APPLICABLE - Bridge do
B.C.10 Channel Protection Condition	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	N - Bridge does not cross over
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	6 - SATISFACTORY - Widespread
B.C.14 NSTM Insp. Condition	N - NOT APPLICABLE - Component
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	
B.AP.03 Scour Vulnerability	
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	A - Seismic evaluation completed. B

Team Lead: Keith Harris, Inspection Date: 09/10/2025

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	3	B.SP.08 Deck Interaction	CU - Composite - unshored cons
B.SP.03 # of Beam Lines	6	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	S02 - Steel - welded	B.SP.10 Wearing Surface	0 - None
B.SP.05 Span Continuity	2 - Continuous	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	G02 - Girder/beam - I-shaped s	B.SP.12 Deck Reinforcing Protective System	C01 - Coating - epoxy coated
B.SP.07 Span Protective System	P01 - Patina - uncoated weathe	B.SP.13 Deck Stay-In-Place Forms	M01 - Metal

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	PX - Pile - other
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
<b>P1</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	PX - Pile - other
B.SB.04 Substructure Type	B01 - Bent - column or open	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	4400
B.F.03 Feature Name	US 270 Log 4.00	B.H.10 Annual ADTT	176
B.H.01 Functional Classification	3 - Principal Arterial - Other	B.H.11 Year of Annual ADT	2024
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	1-T - TEMP - NHFN - 1 or 2 or	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		B.H.16 Highway Max Usable Surface Width	40.6
B.H.07 LRS Mile Point	4	B.H.17 Bypass Detour Length	0
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	1	270	2-T - TEMP - Two-way traffic - NS or EW	2 - U.S. route	1 - Mainline



Team Lead: Keith Harris, Inspection Date: 09/10/2025

## RAILROAD FEATURES

## R1

B.F.02 Feature Location	B - Below bridge	B.RR.02 Railroad Min Vertical Clearance	23.4
B.F.03 Feature Name	UP RR	B.RR.03 Railroad Min Horizontal Offset	4.6
B.RR.01 Railroad Service Type	F - Freight		

## R2

B.F.02 Feature Location	B - Below bridge	B.RR.02 Railroad Min Vertical Clearance	
B.F.03 Feature Name	UP RR	B.RR.03 Railroad Min Horizontal Offset	
B.RR.01 Railroad Service Type	M - Multiple services - not el		

## POSTING STATUS DATA

B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent and Open	

## 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
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Asset #06981 (Routine)  
US 270 Log 4.00 over UPRR  
Location: .3 MI NW US 67

Team Lead: Keith Harris Inspection Date: 09/10/2025

## Inspection Notes

### General Observation

Job 060900 Dwg 46162.

Logged and inspected eastbound.

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

The deck is in good condition. The overhangs have cracks with efflorescence and the deck has unsealed cracks.

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### 59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

The superstructure is in good condition. All girders have a granular texture.

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

The substructure is in good condition. The abutments and caps have some small cracks and cracks with efflorescence.

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

Inventory looking east

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### A-54 - Sealable Deck Cracks (Y)

Unsealed cracks in the deck.

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### A-55 - Deck Washing Needed (Y)

Debris has accumulated on both shoulders.

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### A-66 - Approach minor pothole/leveling needed (Y)

Eastbound approach has potholes.

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**Team Lead:** Keith Harris **Inspection Date:** 09/10/2025

## National Bridge Element Quantities and Notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7857	6205	1652	0	0
1120	Efflorescence/Rust Staining	SF	81	0	81	0	0
1130	Cracking (RC and Other)	SF	1571	0	1571	0	0
(12) Deck has unsealed horizontal and transverse cracks up to 0.040" with span 3 having the worst case.1571SF CS2 The overhangs have cracks with efflorescence. 81SF CS2							
107	Steel Open Girder/Beam	LF	1092	1092	0	0	0
515	Steel Protective Coating	SF	9282	0	9282	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	9282	0	9282	0	0
(107) No deficiencies observed this inspection. (515-107) All girders have a granular texture.9282SF CS2							
205	Reinforced Concrete Column	EA	4	4	0	0	0
(205) No deficiencies observed this inspection.							
215	Reinforced Concrete Abutment	LF	83	59	24	0	0
1120	Efflorescence/Rust Staining	LF	5	0	5	0	0
1130	Cracking (RC and Other)	LF	19	0	19	0	0
(215) Both abutments have small vertical cracks and cracks with efflorescence in the back walls. 19LF CS2/5LF CS2							
234	Reinforced Concrete Pier Cap	LF	83	51	32	0	0
1120	Efflorescence/Rust Staining	LF	32	0	32	0	0
(234) Both caps have horizontal cracks with efflorescence. 32LF CS2							
302	Compression Joint Seal	LF	86	45	41	0	0
2340	Seal Cracking	LF	41	0	41	0	0
(302) Joints seals at bents 1&4 are cracked and leaking. 41LF CS2							
310	Elastomeric Bearing	EA	24	12	0	12	0
1000	Corrosion	EA	12	0	0	12	0
(310) Masonry plates have heavy corrosion and laminating rust at both abutments. 12EA CS3							
331	Reinforced Concrete Bridge Railing	LF	364	267	97	0	0
1130	Cracking (RC and Other)	LF	97	0	97	0	0
(331) Both concrete bridge rails have small vertical cracks. 97LF CS2							

## Inspection Photos and Notes



Elevation



Inventory looking east



Deck overview



Undersurface span 2.





Unsealed cracks in the deck up to 0.040".



Debris has accumulated on both shoulders.



Eastbound approach has potholes.



Span 3 right overhang crack with efflorescence. 1SF CS2





Longitudinal cracks in the deck 0.040". 10SF CS2



Typical condition for all girders. All girders have a granular texture.



Bent 1 cracks in top of the back wall up to 0.025". 2LF CS2



Bent 3 ahead left side cracks with efflorescence. 12LF CS2





Bent 1 southbound lane joint seal is damaged. 22LF CS2



Bent 4, bearing 6, masonry plate has laminating rust. 1EA  
CS3  
Common all bearings at bents 1&4.



### Maintenance Needs

**Date Reported:** 09/09/2025

**Priority:** C - Important

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

**Status:** Open

**Component:** Miscellaneous

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### Deficiency Description

Northeast guardrail damaged from traffic impact.

### Remarks

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Northeast guardrail damaged from traffic impact.



Northeast guardrail damaged from traffic impact.

## Routine Maintenance

### Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	Yes
A-55 - Deck Washing Needed	Yes
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	Yes
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	Yes

### A-54 - Sealable Deck Cracks (Yes)

Unsealed cracks in the deck.



Unsealed cracks in the deck up to 0.040".

**A-55 - Deck Washing Needed (Yes)**

Debris has accumulated on both shoulders.



Debris has accumulated on both shoulders.

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

**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 (Yes)**



**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 (Yes)**  
Eastbound approach has potholes.



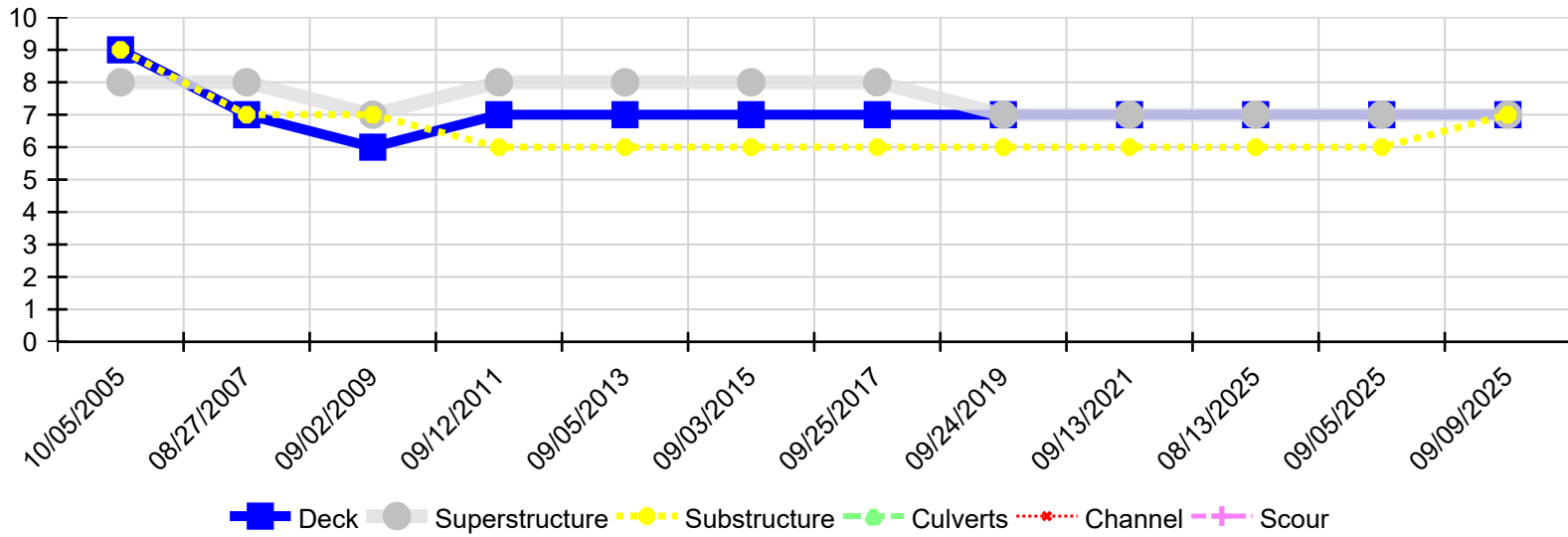
Eastbound approach has potholes.



**Asset #06981**(Routine)  
**US 270 Log 4.00 over UPRR**  
**Location: .3 MI NW US 67**

**Team Lead:** Keith Harris **Inspection Date:** 09/10/2025

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
09/09/2025	7	7	7	N	N	N
09/05/2025	7	7	6	N	N	N
08/13/2025	7	7	6	N	N	N
09/13/2021	7	7	6	N	N	N
09/24/2019	7	7	6	N	N	N
09/25/2017	7	8	6	N	N	N
09/03/2015	7	8	6	N	N	N
09/05/2013	7	8	6	N	N	N
09/12/2011	7	8	6	N	N	N
09/02/2009	6	7	7	N	N	N
08/27/2007	7	8	7	N	N	N
10/05/2005	9	8	9	N	N	N