



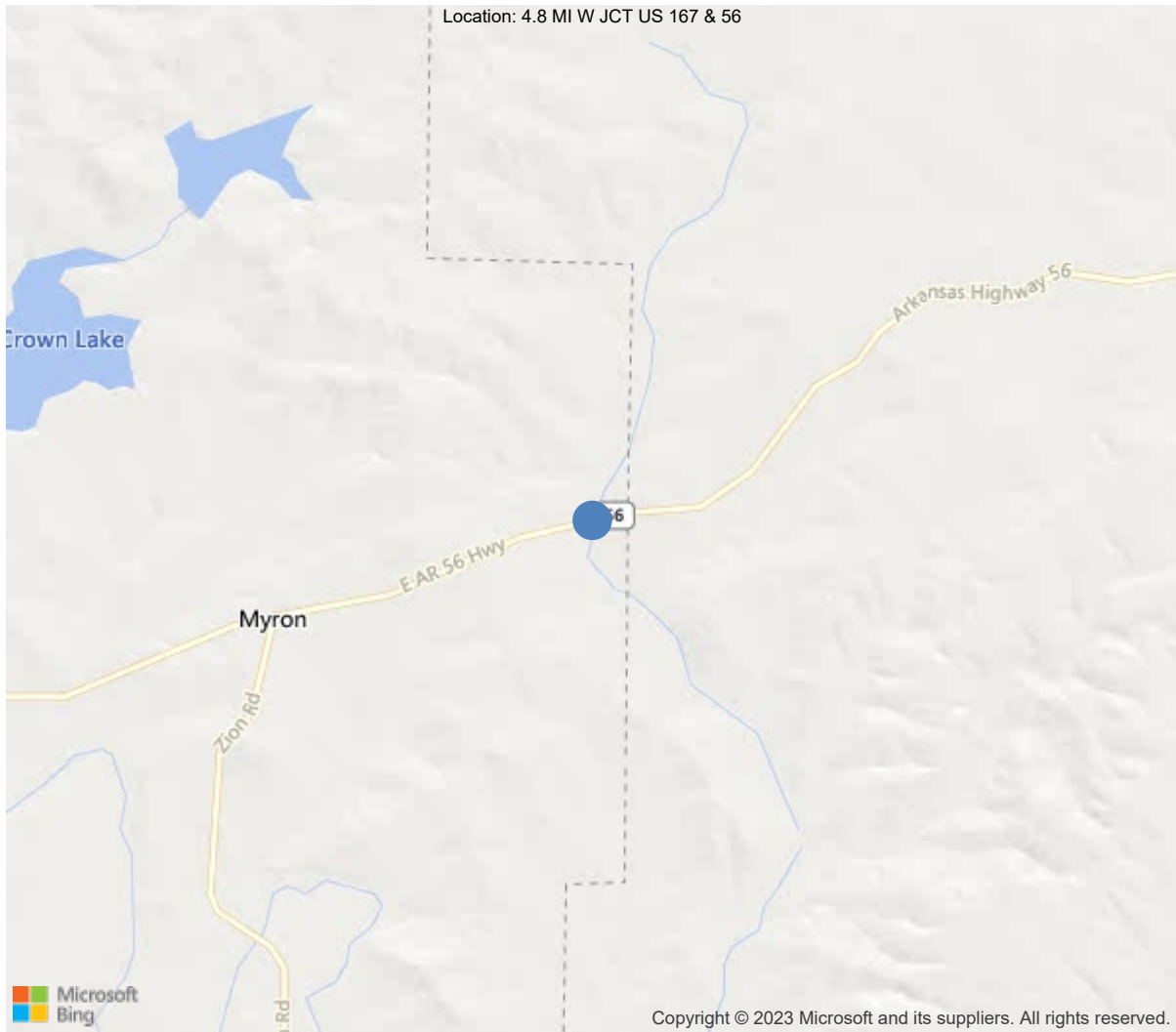
Latitude:36.19046, Longitude:-91.67757

Route:56 Section:02 Log:15.527

Arnold Road ID:33x56x2xA, Arnold Log mile:15.509

District 05, 65 - IZARD County

Owner: 1 - State Highway Agency



36.19046, -91.67757



Asset #M1027(Routine)
SH 56 Izard County over HARS CREEK
Location: 4.8 MI W JCT US 167 & 56

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M1027
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	65 - Izard County
(4) Place Code	0
(6) Features Intersected	HARS CREEK
(7) Facility Carried	SH 56 Izard County
(9) Location	4.8 MI W JCT US 167 & 56
(11) Mile Point	15.527 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000056020
(16) Latitude	36.1904574326457
(17) Longitude	-91.6775685811837
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1 - Concrete
Type	22 - Channel beam
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	5
(46) No. of Approach Spans	0
(107) Deck Structure Type	2 - Concrete Precast Panels
(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	1957
(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	1228
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	12 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	95 ft
(50) Curb or Sidewalk Width	
Left	0.8 ft
Right	0.8 ft
(51) Bridge Roadway Width Curb to Curb	23.6 ft
(52) Deck Width Out to Out	25.1 ft
(32) Approach Roadway Width (W/Shoulders)	22 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	25.3 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0 - No navigation control on w
(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	0
(26) Functional Class	6 - Rural Minor Arterial
(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	7
(59) Superstructure	3
(60) Substructure	4
(61) Channel & Channel Protection	7
(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	26
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	16
(70) Bridge Posting	1 - 30.0 - 39.9 % below
(41) Structure Open/Posted/Closed	P - Posted for load (may include
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	122 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 445
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	1557
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	11/15/2022		
(91) Frequency	12		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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 #M1027(Routine)

District: 05, County: 65 - IZARD COUNTY

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

General Observation

Elevation with Log Mile running to the Left.

A-19 - Code 4 (Beginning) (17)

Load Posting @ Abutment 1.

A-20 - Code 4 (end) (17)

Load Posting @ Abutment 2.

A-46 - Asset Files

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

Roadway with Log Mile running West to East.



Asset #M1027 (Routine)

SH 56 Izard County over HARS CREEK

Location: 4.8 MI W JCT US 167 & 56

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2385	2338	44	3	0
1090	Exposed Rebar	SF	3	0	0	3	0
1120	Efflorescence/Rust Staining	SF	44	0	44	0	0
510	Wearing Surfaces	SF	2242	2100	0	142	0
3220	Crack (Wearing Surface)	SF	142	0	0	142	0
(16) Chip seal overlay to deck. Transverse efflor. / map cracks to deck below @ all spans. SEE FORM III							
110	Reinforced Concrete Open Girder/Beam	LF	665	228	40	344	53
1080	Delamination/Spall/Patched Area	LF	44	0	20	24	0
1090	Exposed Rebar	LF	263	0	0	210	53
1120	Efflorescence/Rust Staining	LF	72	0	20	52	0
1130	Cracking (RC and Other)	LF	58	0	0	58	0
(110) Areas of delam., cracking & large spalls with rebar exposed to girders @ all Spans. SEE FORM III							
205	Reinforced Concrete Column	EA	12	3	0	9	0
1080	Delamination/Spall/Patched Area	EA	2	0	0	2	0
1090	Exposed Rebar	EA	3	0	0	3	0
1130	Cracking (RC and Other)	EA	4	0	0	4	0
(205) Scaling, spalling & cracking to some columns. Spall with rebar exposed to Column 1 @ Bent 3. SEE FORM III							
215	Reinforced Concrete Abutment	LF	73	6	8	59	0
1080	Delamination/Spall/Patched Area	LF	11	0	0	11	0
1090	Exposed Rebar	LF	5	0	0	5	0
1130	Cracking (RC and Other)	LF	15	0	8	7	0
6000	Scour	LF	36	0	0	36	0
(215) SEE FORM III							
220	Reinforced Concrete Pile Cap/Footing	LF	40	40	0	0	0
(220) Top of all footings are exposed but all are keyed into solid rock.							
234	Reinforced Concrete Pier Cap	LF	104	0	14	83	7
1080	Delamination/Spall/Patched Area	LF	22	0	14	8	0
1090	Exposed Rebar	LF	19	0	0	12	7

SH 56 IZARD COUNTY OVER HARS CREEK

Location: 4.8 MI W JCT US 167 & 56

Team Lead: Nathan Edwards, **Inspection Date:** 11/15/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1130	Cracking (RC and Other)	LF	63	0	0	63	0
(234) Spalls (some with rebar exposed), cracking to all caps. Abutment 1 - 4' patched area & 2' horiz. cracks to cap. Abutment 2 - 9' of spall with 2' rebar exposed, 9' horizontal cracks to cap. SEE FORM III							
304	Open Expansion Joint	LF	100	0	0	100	0
2350	Debris Impaction	LF	100	0	0	100	0
(304) Joint is not visible due to Chip Seal overlay.							
330	Metal Bridge Railing	LF	190	0	189	1	0
1000	Corrosion	LF	189	0	189	0	0
7000	Damage	LF	1	0	0	1	0
515	Steel Protective Coating	SF	570	0	0	570	0
3440	Effectiveness (Steel Protective Coatings)	LF	570	0	0	570	0
(330) Abutment 1 - Top of end post on Right side is spalled off with 10" rebar exposed. Spalls with rebar exposed with Left @ Right curbs.							

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2385	2338	44	3	0
1090	Exposed Rebar	SF	3	0	0	3	0
1120	Efflorescence/Rust Staining	SF	44	0	44	0	0
510	Wearing Surfaces	SF	2242	2100	0	142	0
3220	Crack (Wearing Surface)	SF	142	0	0	142	0
(16) Chip seal overlay to deck. Transverse efflor. / map cracks to deck below @ all spans. SEE FORM III							

SH 56 IZARD COUNTY OVER HARS CREEK

Location: 4.8 MI W JCT US 167 & 56

Team Lead: Nathan Edwards, **Inspection Date:** 11/15/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	665	228	40	344	53
1080	Delamination/Spall/Patched Area	LF	44	0	20	24	0
1090	Exposed Rebar	LF	263	0	0	210	53
1120	Efflorescence/Rust Staining	LF	72	0	20	52	0
1130	Cracking (RC and Other)	LF	58	0	0	58	0
(110) Areas of delam., cracking & large spalls with rebar exposed to girders @ all Spans. SEE FORM III							

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	12	3	0	9	0
1080	Delamination/Spall/Patched Area	EA	2	0	0	2	0
1090	Exposed Rebar	EA	3	0	0	3	0
1130	Cracking (RC and Other)	EA	4	0	0	4	0
(205) Scaling, spalling & cracking to some columns. Spall with rebar exposed to Column 1 @ Bent 3. SEE FORM III							
215	Reinforced Concrete Abutment	LF	73	6	8	59	0
1080	Delamination/Spall/Patched Area	LF	11	0	0	11	0
1090	Exposed Rebar	LF	5	0	0	5	0
1130	Cracking (RC and Other)	LF	15	0	8	7	0
6000	Scour	LF	36	0	0	36	0
(215) SEE FORM III							
220	Reinforced Concrete Pile Cap/Footing	LF	40	40	0	0	0
(220) Top of all footings are exposed but all are keyed into solid rock.							
234	Reinforced Concrete Pier Cap	LF	104	0	14	83	7
1080	Delamination/Spall/Patched Area	LF	22	0	14	8	0
1090	Exposed Rebar	LF	19	0	0	12	7
1130	Cracking (RC and Other)	LF	63	0	0	63	0
(234) Spalls (some with rebar exposed), cracking to all caps. Abutment 1 - 4' patched area & 2' horiz. cracks to cap. Abutment 2 - 9' of spall with 2' rebar exposed, 9' horizontal cracks to cap. SEE FORM III							



Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation with Log Mile running to the Left.



Roadway with Log Mile running West to East.

Maintenance Needs

Date Reported: 11/29/2012
Priority: A - Safety deficiency; requires prompt action
Type of Work: Repair (General)
Status: Assigned
Component: Element

Deficiency Description

Spalls with rebar exposed or cracking to girders at:
Span 1 - Units 1 - 7.
Span 2 - Units 2 - 7, with areas of concrete not adhered to rebar @ Units 2, 3 & 5.
Span 3 - Units 1 - 7.
Span 4 - Units 1 - 7, with areas of concrete not adhered to rebar @ Units 4 & 5.
Span 5 - 1 - 7, with areas of concrete not adhered to rebar @ Units 2, 3 & 7.

Remarks



Spalls with rebar exposed with s/l & areas that are not adhered to concrete girders @ Unit 2 @ Span 2.



Spalls with rebar exposed with s/l & areas that are not adhered to concrete girders @ Unit 3 @ Span 5.



Spalls with rebar exposed with s/l & areas that are not adhered to concrete girders @ Unit 5 @ Span 4.



Typical of Spalls with rebar exposed to :
Unit 4 at Span 1
Units 3, 4, 5, 6, & 7 at Span 2.
Units 4, 5, 6, & 7 at Span 3.
Units 2 thru 7 at Span 4
Units 2, 3, 4, 5, 6, & 7 at Span 5.
(Span 4)



Typical of Spalls with rebar exposed to :
Unit 4 at Span 1.
Units 3, 4, 5, 6, & 7 at Span 2.
Units 4, 5, 6, & 7 at Span 3.
Units 2 thru 7 at Span 4.
(Span 5)
Units 2, 3, 4, 5, 6, & 7 at Span 5.



Spalls with rebar exposed or cracking to girders at:
Span 1 - Units 1 - 7.
Span 2 - Units 2 - 7.
Span 3 - Units 1, 2, 4 - 7.
Span 4 - Units 1 - 7.

Date Reported: 11/30/2012
Priority: B - Pressing
Type of Work: Repair (General)
Status: Assigned
Component: Element

Deficiency Description

Areas of delaminating, cracking &/or spalls with rebar exposed, some with 100% section loss to caps at Bents 1 - 4.

Cracking &/or spalls with no rebar exposed to Abutment 1 & 2.

Remarks



Spalls with rebar exposed with 100% s/l to bottom of cap @ Bent 2.



Spalls with rebar exposed with 100% s/l to bottom of cap @ Bent 3.



Areas of delaminating, cracking &/or spalls with rebar exposed to caps at Bents 1 - 4.



Areas of delaminating, cracking &/or spalls with rebar exposed to caps at Bents 1 - 4.



Areas of delaminating, cracking &/or spalls with
rebar exposed to caps at Bents 1 - 4.
Bent 1.



Asset #M1027(Routine)

SH 56 IZARD COUNTY OVER HARS CREEK

Location: 4.8 MI W JCT US 167 & 56

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

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	



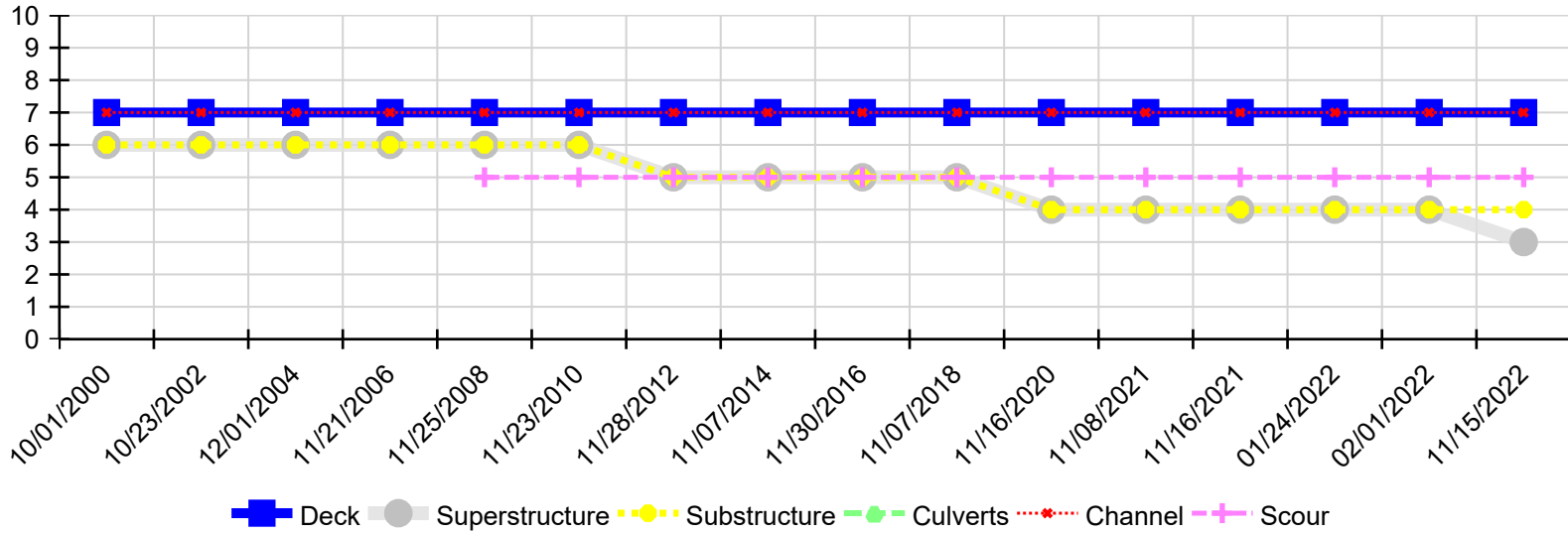
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SH 56 IZARD COUNTY OVER HARS CREEK

Location: 4.8 MI W JCT US 167 & 56

Team Lead: Nathan Edwards, Inspection Date: 11/15/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/15/2022	7	3	4	N	7	5
02/01/2022	7	4	4	N	7	5
01/24/2022	7	4	4	N	7	5
11/16/2021	7	4	4	N	7	5
11/16/2021	7	4	4	N	7	5
11/08/2021	7	4	4	N	7	5
11/16/2020	7	4	4	N	7	5
11/07/2018	7	5	5	N	7	5
11/30/2016	7	5	5	N	7	5
11/07/2014	7	5	5	N	7	5
11/28/2012	7	5	5	N	7	5
11/23/2010	7	6	6	N	7	5
11/25/2008	7	6	6	N	7	5
11/21/2006	7	6	6	N	7	N
12/01/2004	7	6	6	N	7	N
10/23/2002	7	6	6	N	7	N
10/01/2000	7	6	6	N	7	N