



Latitude:35.86977, Longitude:-90.46351

Route:135 Section:03 Log:3.32

Arnold Road ID:16x135x3xA, Arnold Log mile:3.324

District 10, Craighead County

Owner: 1-State Highway Agency

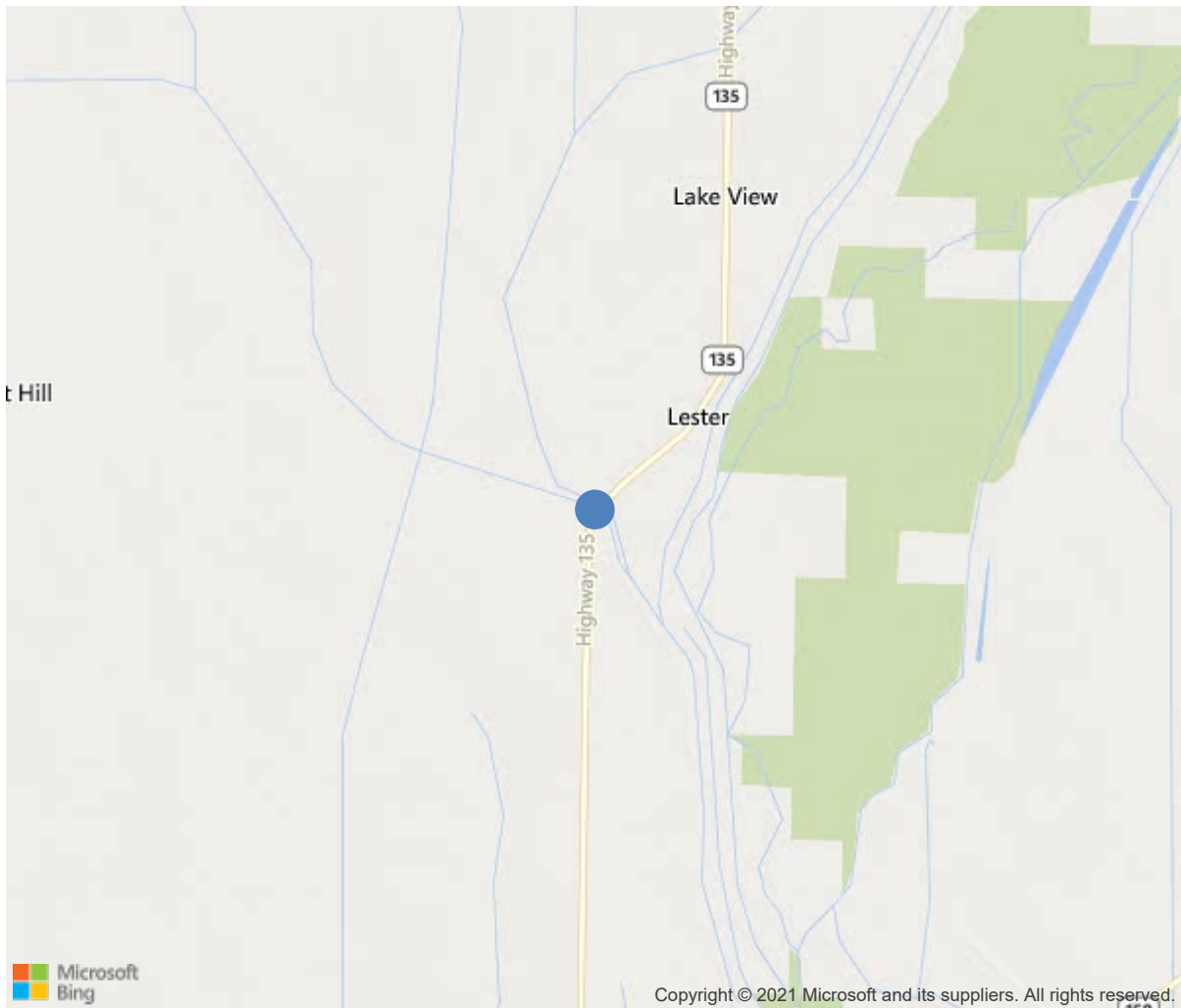


Bridge #05642(Routine, Underwater type 2)
SH 135-03- LM 3.32 over THOMPSON CREEK

Location: 3.32 MI N JCT SH 18

Team Lead: Richard Jones **Inspection Date:** October 13, 2020

3.32 MI N JCT SH 18



35.86977, -90.46351



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Team Lead: Richard Jones Inspection Date: October 13, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05642
(5) Inventory Route	135
(2) Highway Agency District	10
(3) County Code	31-Craighead County, Arkansas
(4) Place Code	0
(6) Features Intersected	THOMPSON CREEK
(7) Facility Carried	SH 135-03- LM 3.32
(9) Location	3.32 MI N JCT SH 18
(11) Mile Point	3.32 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000135030
(16) Latitude	35.8697731872583
(17) Longitude	-90.4635063263893
(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	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1977
(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	1400
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	46 ft
(49) Structure Length	140.3 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	30 ft
(52) Deck Width Out to Out	32.7 ft
(32) Approach Roadway Width (W/Shoulders)	32.2 ft
(33) Bridge Median	0-No median
(34) Skew	24 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	30 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 water
(111) Pier Protection	5-None present but re-evaluation
(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 a S
(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 part of
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	7
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	6
(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	3
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	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	5-Bridge foundations determined to be
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	1610
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			10/2020
(91) Frequency			24 Months
(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.			



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	4508	4446	62	0	0
1090	Exposed Rebar	SF	8	0	8	0	0
1120	Efflorescence/Rust Staining	SF	54	0	54	0	0
510	Wearing Surfaces	SF	4140	3307	276	557	0
3220	Crack (Wearing Surface)	SF	414	0	0	414	0
3210	Delam/Spall/Patched Area/Pothole	SF	419	0	276	143	0
107	Steel Open Girder/Beam	LF	552	504	16	32	0
1000	Corrosion	LF	48	0	16	32	0
515	Steel Protective Coating	SF	4032	28	3788	192	24
3420	Peeling/Bubbling/Cracking	SF	288	0	96	192	0
3440	Effectiveness (Steel Protective Coatings)	SF	3716	0	3692	0	24
215	Reinforced Concrete Abutment	LF	85	73	12	0	0
1130	Cracking (RC and Other)	LF	12	0	12	0	0
227	Reinforced Concrete Pile	EA	12	0	12	0	0
1190	Abrasion/Wear (PSC/RC)	EA	12	0	12	0	0
234	Reinforced Concrete Pier Cap	LF	61	51	3	7	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	7	0	0	7	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
302	Compression Joint Seal	LF	143	0	0	143	0
2350	Debris Impaction	LF	143	0	0	143	0
311	Movable Bearing	EA	12	0	0	12	0
1000	Corrosion	EA	12	0	0	12	0
313	Fixed Bearing	EA	12	0	0	12	0
1000	Corrosion	EA	12	0	0	12	0
331	Reinforced Concrete Bridge Railing	LF	276	236	40	0	0
1130	Cracking (RC and Other)	LF	40	0	40	0	0



Wearing surface





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Location: 3.32 MI N JCT SH 18

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Maintenance Needs

Date Reported: 01/24/2011
Priority: D- Routine
Type of Work: None
Status: Monitor
Component: Superstructure

Deficiency Description

Ends of steel girders over bents 1 and 4 have areas of surface rust.
Ends of steel girders over bents 2 & 3 have areas of flaking rust with some section loss along bottom of web and bottom flange.

Remarks



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Date Reported: 01/24/2011
Priority: D- Routine
Type of Work: None
Status: Monitor
Component: Superstructure

Deficiency Description

Bearings have pack rust and some section loss.

Remarks

Date Reported: 01/23/2013
Priority: D- Routine
Type of Work: None
Status: Monitor
Component: Deck

Deficiency Description

Asphalt wearing surface has a few longitudinal cracks. Asphalt is raveling out over bents and along gutters.

Remarks



Deck

Date Reported: 01/23/2013
Priority: D- Routine
Type of Work: None
Status: Monitor
Component: Substructure

Deficiency Description

Bents 2 and 3 caps have a few delaminated areas and spalls with exposed rebar, mostly from lack of coverage.

Remarks



S3 b3 cap delamination and spall



S2 b3 g5 rust for 2'



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Location: 3.32 MI N JCT SH 18

Team Lead: Richard Jones **Inspection Date:** October 13, 2020

Deck Notes

Concrete rails have a few very minor cracks.

Asphalt wearing surface has a few longitudinal cracks. Asphalt is raveling out over bents and along gutters.

Overhangs have a few transverse cracks with light efflorescence, and a few delaminated areas.

Span 1 over bent 2 has spalls with exposed rebar on concrete haunches.

Superstructure Notes

Ends of steel girders over bents 1 and 4 have areas of surface rust.

Ends of steel girders over bents 2 & 3 have areas of flaking rust with some section loss along bottom of web and bottom flange.

Bearings have pack rust and some section loss.

Substructure Notes

Bent 1 & 4 concrete backwalls have a few vertical cracks.

Concrete piling have minor abrasion.

Bents 2 and 3 caps have a few delaminated areas and spalls with exposed rebar, mostly from lack of coverage.

Minor drift against bent 3 pile 1.