



Bridge #03662(Routine)
SH 90- 01- LM 5.14 over DITCH NO. 11

Location: 5.0 MI E OF RECTOR

Team Lead: Tim Myrick Inspection Date: November 11, 2020



Latitude:36.25913, Longitude:-90.19291

Route:90 Section:01 Log:5.14

Arnold Road ID:11x90x1xA, Arnold Log mile:5.106

District 10, Clay County

Owner: 1-State Highway Agency

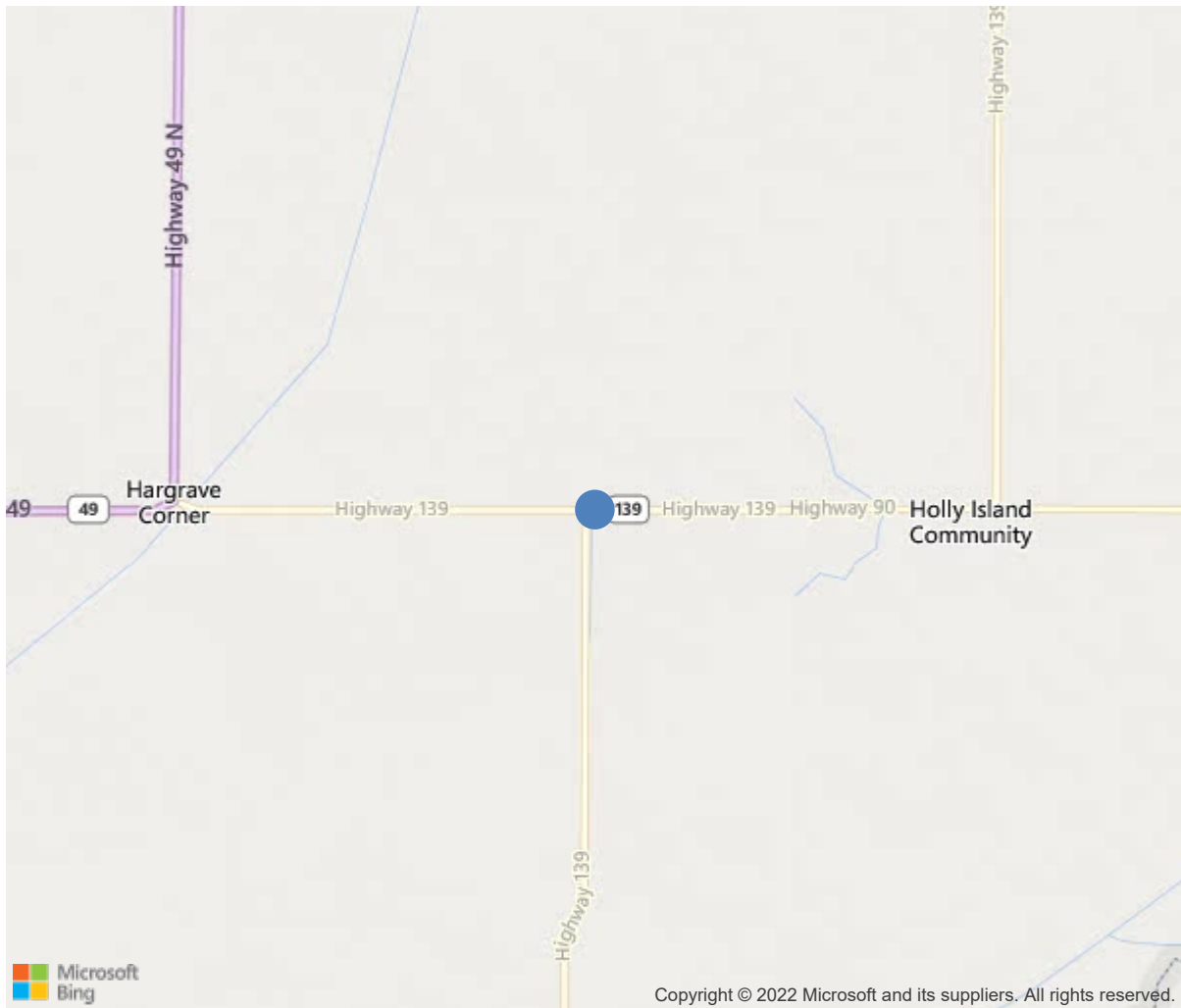


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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03662
(5) Inventory Route	90
(2) Highway Agency District	10
(3) County Code	21-Clay County, Arkansas
(4) Place Code	0
(6) Features Intersected	DITCH NO. 11
(7) Facility Carried	SH 90- 01- LM 5.14
(9) Location	5.0 MI E OF RECTOR
(11) Mile Point	5.14 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000090010
(16) Latitude	36.2591335889461
(17) Longitude	-90.1929088048935
(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	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	1963
(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	1900
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 ft
(50) Curb or Sidewalk Width	
Left	1.3 ft
Right	1.3 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	29.5 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	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	7
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(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	2412
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/2020
(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
38	RC Slab	SF	2250	2027	210	13	0
1080	Delamination/Spall/Patched Area	SF	4	0	0	4	0
1090	Exposed Rebar	SF	3	0	0	3	0
1120	Efflorescence/Rust Staining	SF	6	0	0	6	0
1130	Cracking (RC and Other)	SF	210	0	210	0	0
510	Wearing Surfaces	SF	2100	1450	450	200	0
3220	Crack (Wearing Surface)	SF	500	0	300	200	0
3210	Delam/Spall/Patched Area/Pothole	SF	150	0	150	0	0
215	Reinforced Concrete Abutment	LF	75	69	2	4	0
1190	Abrasion/Wear (PSC/RC)	LF	2	0	2	0	0
6000	Scour	LF	4	0	0	4	0
227	Reinforced Concrete Pile	EA	10	10	0	0	0
234	Reinforced Concrete Pier Cap	LF	61	35	3	23	0
1080	Delamination/Spall/Patched Area	LF	9	0	0	9	0
1090	Exposed Rebar	LF	3	0	0	3	0
1120	Efflorescence/Rust Staining	LF	5	0	0	5	0
1130	Cracking (RC and Other)	LF	9	0	3	6	0
301	Pourable Joint Seal	LF	67	67	0	0	0
330	Metal Bridge Railing	LF	150	146	0	4	0
7000	Damage	LF	4	0	0	4	0
515	Steel Protective Coating	SF	507	101	0	0	406
3440	Effectiveness (Steel Protective Coatings)	SF	406	0	0	0	406







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Team Lead: Tim Myrick **Inspection Date:** November 11, 2020

Maintenance Needs

Date Reported: 11/30/2010
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Top of Concrete Deck with an Asphalt Overlay has minor size and insignificant density sealable cracks.

Remarks



Date Reported: 11/26/2014
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Bottom of Deck Span 3 near Bent 3 has 2 each 8in. x 8in. shelled out area with rebar exposed, see 2014 & 2018 photo. Bottom of slab Span 3 near bent 3 has 2 spalled areas, (1) 10 in. x 12 in. x 1 in. deep, (1) 24 in. x 12 in x 2 in. deep with exposed rebar with section loss, see 2018 photo.

Remarks



Span 3 soffit RT edge near bent 3





Span 3 Soffit near Bt 3



S3 at b3 right



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Date Reported: 11/26/2014
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Span 2 side of Cap Bent 3 has a few small shelled out areas with rebar exposed due to inadequate steel coverage, 3 in. diameter typical

Remarks

Date Reported: 11/26/2014
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Channel

Deficiency Description

Right side of Abutment Bent 4 is starting to undermine from roadway runoff, see 2016 photo.

Remarks





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Date Reported: 11/15/2016
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Bottom of Deck Span 1, near mid span, has cracking & delamination, see 2016 photo.
Ends of Spans 2&3 Slabs over Bent 3 has some diagonal cracking and spalled areas on side of deck.

Remarks





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Team Lead: Tim Myrick **Inspection Date:** November 11, 2020

Date Reported: 11/02/2018
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Bents 2 & 3 caps have open cracks & deterioration on ends.

Remarks



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Inspection Comments

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Deck Notes

Approach roadway both ends have minor settlement with asphalt patches.

Concrete rail post & end post have moderate abrasion.

Top of concrete deck with an asphalt overlay has moderate width & open cracks with some delamination between asphalt & concrete detected by sounding.

Superstructure Notes

Bottom of slab has some hairline longitudinal cracks.

Bottom of slab span 1, near mid span, has vertical cracking on both sides.

Right side of soffit has some delamination & rust stains.

Span 2 bottom of slab has some rust stains.

Bottom of slab Span 3 near bent 3 has 2 spalled areas, (1) 10 in. x 12 in. x 1 in. deep, (1) 24 in. x 12 in x 2 in. deep with exposed rebar with section loss.

Ends of spans 2 & 3 slabs over bent 3 has some diagonal cracking and spalled areas on side of deck.

Substructure Notes

Bent 2 cap has open cracks, spalling & exposed rebar with 1 ft. of abrasion on each end.

Span 2 side of bent 3 cap has a few small spalled areas with exposed rebar.

Bent 3 cap has cracks and a few rust stains. Bent 1 abutment has 2 ft. of minor abrasion.

Right side of bent 4 abutment has minor undermining from roadway runoff.