



Latitude:33.51049, Longitude:-93.94628

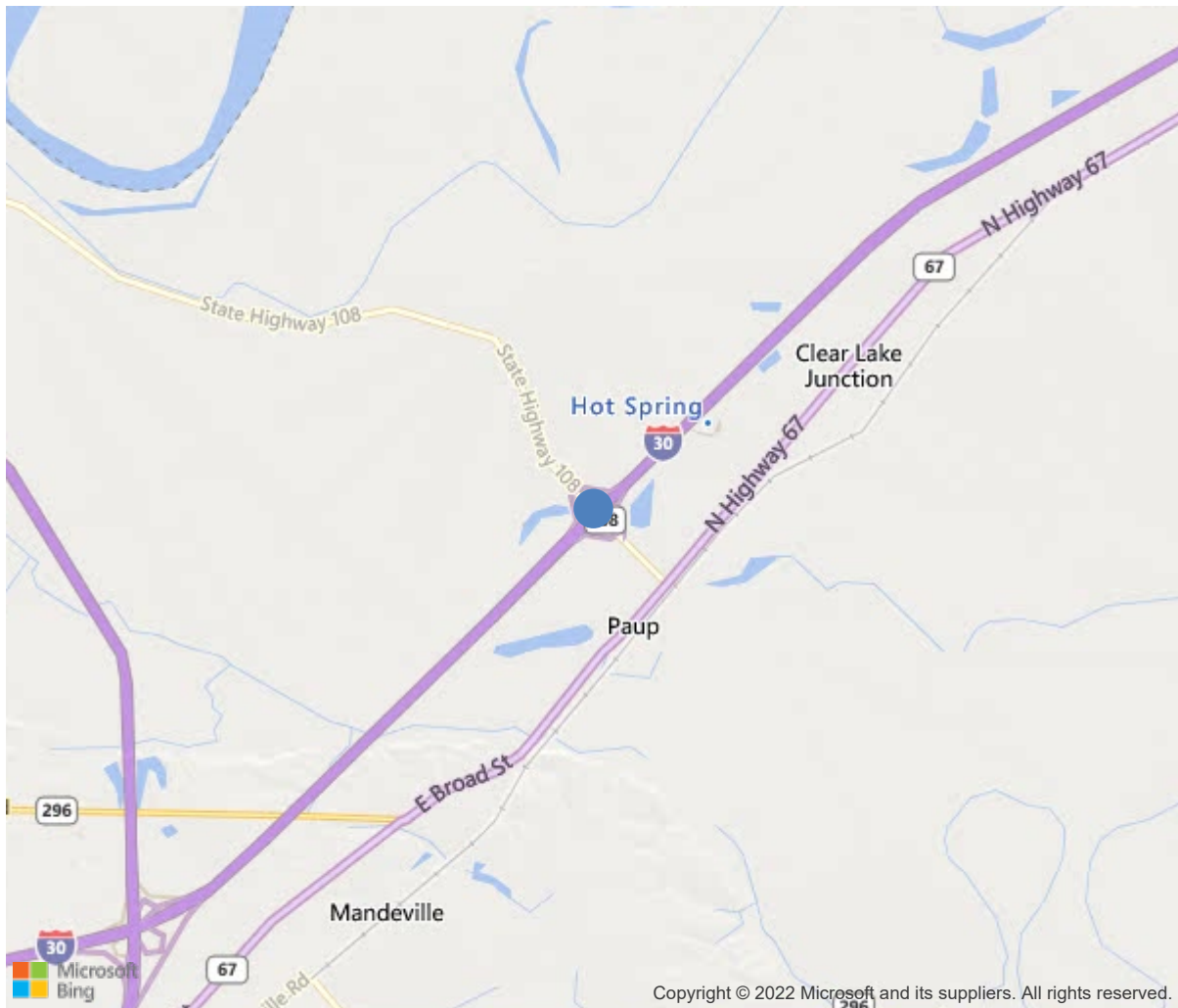
Route:108 Section:04 Log:6.44

Arnold Road ID:46x108x4xA, Arnold Log mile:6.448

District 03, Miller County

Owner: 1-State Highway Agency

0.5 MI W JCT US 67 & 108



33.51049, -93.94628

Inspection Direction : N to S



Bridge #03571(Routine)

SH 108- 04 - 6.44 over I 30-SEC 11-L.M. 6.51

Location: 0.5 MI W JCT US 67 & 108

Team Lead: John King Inspection Date: August 10, 2022

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03571
(5) Inventory Route	108
(2) Highway Agency District	03
(3) County Code	91-Miller County, Arkansas
(4) Place Code	0
(6) Features Intersected	I 30-SEC 11-L.M. 6.51
(7) Facility Carried	SH 108- 04 - 6.44
(9) Location	0.5 MI W JCT US 67 & 108
(11) Mile Point	6.44 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.51049
(17) Longitude	-93.94628
(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	4
(46) No. of Approach Spans	0
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1964
(106) Year Reconstructed	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	2300
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	0 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	66 ft
(49) Structure Length	216 ft
(50) Curb or Sidewalk Width	
Left	1.6 ft
Right	1.6 ft
(51) Bridge Roadway Width Curb to Curb	28 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 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	31.2 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16 ft
Ref:	
(55) Min Lat Underclear RT	9.1 ft
Ref:	
(56) Min Lat Underclear LT	27.3 ft
NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(111) Pier Protection	1-Navigation protection not requ
(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	16-Urban 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	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	4
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	3
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	N-Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	Bridge rehabilitation because
(76) Length of Structure Improvement	216 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 0
(96) Total Project Cost	\$ 323
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	1507
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/2022		
(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.			

Team Lead: John King, **Inspection Date:** August 10, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6741	6501	240	0	0
1080	Delamination/Spall/Patched Area	SF	20	0	20	0	0
1090	Exposed Rebar	SF	20	0	20	0	0
1130	Cracking (RC and Other)	SF	200	0	200	0	0
(12)							
1080- patches in deck							
1130- deck cracking...SPALL WITH REBAR EXPOSED BOTTOM OF DECK SPAN 1.							
08/22 new hydro overlay per this inspection							
(12-1080)							
08/22 small delam various locations..							
(12-1090)							
08/22 exposed rebar various locations.							
(12-1130)							
08/22 cracking in side of deck wheelguard various locations							
107	Steel Open Girder/Beam	LF	1070	1060	10	0	0
1000	Corrosion	LF	10	0	10	0	0
515	Steel Protective Coating	SF	9737	9737	0	0	0
(107)							
3420- paint bubbling and peeling on top of bottom flange various locations							
3440- freckled rust all beams in all spans...8/18/2020...Beams have been painted per this inspection...							
(107-1000)							
08/22 rust at end of beams various locations							
(107-515)							
8/18/2020...Beams have been painted per this inspection...							
205	Reinforced Concrete Column	EA	6	6	0	0	0
215	Reinforced Concrete Abutment	LF	77	77	0	0	0
234	Reinforced Concrete Pier Cap	LF	87	71	12	4	0
1090	Exposed Rebar	LF	12	0	12	0	0
1130	Cracking (RC and Other)	LF	4	0	0	4	0
(234)							
1090- Bent 2 and Bent 4 cap have minor areas of rebar exposed							
(234-1090)							

Location: 0.5 MI W JCT US 67 & 108

Team Lead: John King, **Inspection Date:** August 10, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
08/22 exposed rebar bent2 on cap, 08/22 exposed rebar bent 4 (234-1130) 08/22 cracking on bent 2 grows to end of cap							
303	Assembly Joint with Seal	LF	140	140	0	0	0
311	Movable Bearing	EA	20	0	20	0	0
1000	Corrosion	EA	20	0	20	0	0
(311) 8/18/2020...Bearings have been painted per this inspection... (311-1000) 08/22 bearings are beginning to rust							
313	Fixed Bearing	EA	20	0	20	0	0
1000	Corrosion	EA	20	0	20	0	0
(313) 8/18/2020...Bearings have been painted per this inspection... (313-1000) 08/22 rust beginning to show on all bearings							
321	Reinforced Concrete Approach Slab	SF	1904	1904	0	0	0
330	Metal Bridge Railing	LF	428	428	0	0	0
331	Reinforced Concrete Bridge Railing	LF	428	328	100	0	0
1130	Cracking (RC and Other)	LF	100	0	100	0	0
(331-1130) 08/22 cracking in concrete bridge railing various locations							



08/22 alignment photo



08/22 typical all spans photo of deck



08/22 typical superstructure photo all bents



08/22 typical substructure photo all bents



08/22 new guardrail installed per this inspection



08/22 new guardrail installed per this inspection



08/22 new guardrail installed per this inspection



SPAN 1 SPALL WITH REBAR EXPOSED





BOTTOM OF DECK TYPICAL ALL SPANS

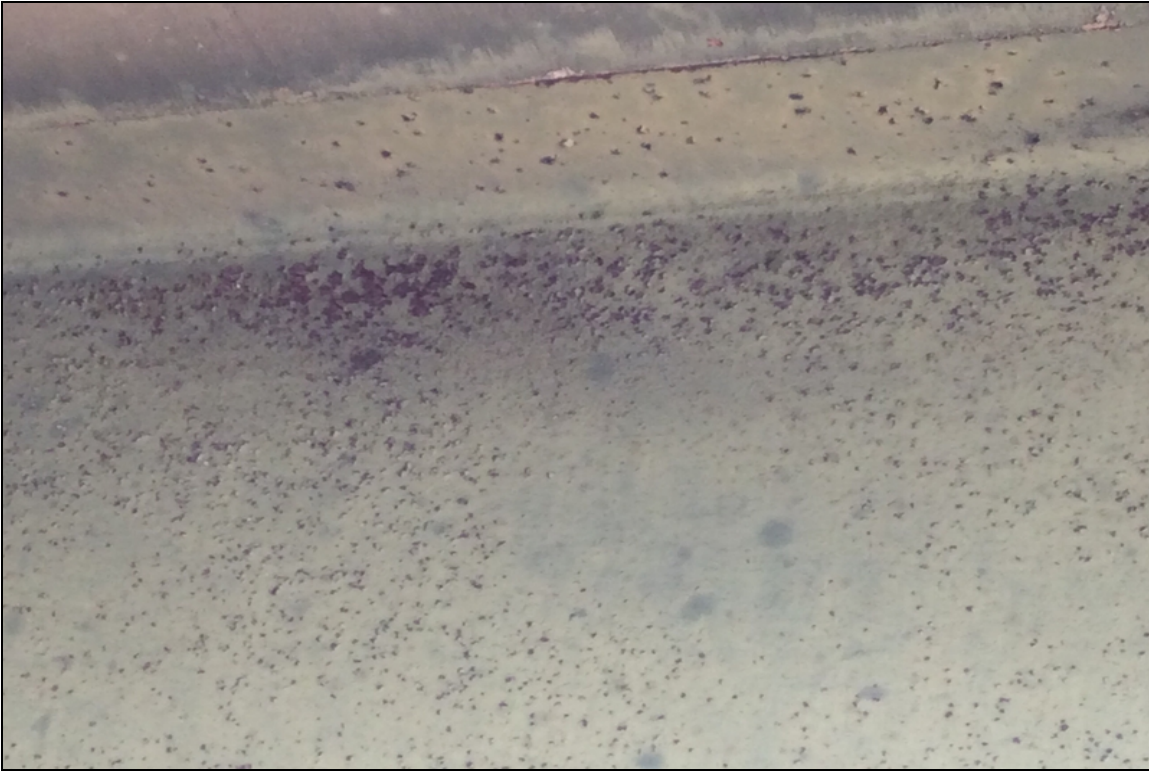




OUTSIDE BEAM RIGHT SIDE END BRIDGE



SPAN 3 RIGHT SIDE



BEAMS RUSTING







08/22 per this inspection hydro was completed on bridge deck



08/22 new hydro overlay per this inspection



08/22 cracking in side of deck wheelguard various locations



Bent 2 top of cap under beam 4



08/22 cracking on bent 2 grows to end of cap



08/22 cracking in concrete bridge railing various locations



08/22 underside of deck typical all spans



08/22 small delam span 4



08/22 exposed rebar span 4



08/22 rust at end of beams various locations



08/22 exposed rebar bent2 on cap



08/22 exposed rebar bent 4



08/22 exposed rebar on bent 4



08/22 rust beginning to show on all bearings



08/22 rust beginning to show on all bearings

Maintenance Needs

Date Reported: 09/20/2012
Priority: D- Routine
Type of Work: Repair
Status: Open
Inspection Direction N to S
Component: 234 - Reinforced Concrete Pier Cap

Deficiency Description

CONC. CAP AT BENT #2 & #4, CAP HAS MINOR SPALLS WITH REBAR EXPOSED.
Bent 2 crack on Right side cap, under bearing, at beam 4 and 5

Remarks

reopen to look at . added crack bent 2 cap



Bottom of bent 4 cap



Minor areas bent 4 cap rebar exposed



Bent 2 cap minor spall with rebar



Bent 4 cap rebar exposed



Bent 2 crack on Right side cap, under bearing, at beam 4 and 5



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Team Lead: John King Inspection Date: August 10, 2022

Date Reported: 09/20/2012

Priority: D- Routine

Type of Work: None

Status: Open

Inspection Direction N to S

Component:

Deficiency Description

LEFT AND RIGHT SIDE OVERHANG AREA
NUMEROUS SPALLS WITH REBAR EXPOSED

Remarks

maint. need was set to assign reopen may set to monitor



Spalls in overhangs left and right sides

Date Reported: 08/20/2018
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Repair Documented
Inspection Direction N to S
Component:

Deficiency Description

POPOUT IN OLD PATCH ON DECK SPAN 3 RIGHT SIDE...08/22 Repaired popout due to hydro overlay

Remarks

08/22 Repaired popout due to hydro overlay



SPAN 3 RIGHT SIDE



08/22 Repaired popout due to hydro overlay



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Team Lead: John King Inspection Date: August 10, 2022



08/22 Repaired popout due to hydro overlay

Date Reported: 08/20/2018
Priority: D- Routine
Type of Work: Repair
Status: Repair Documented
Inspection Direction N to S
Component:

Deficiency Description

SEALABLE DECK CRACKS VARIOUS LOCATIONS ENTIRE BRIDGE...08/22 Repaired cracking due to hydro overlay

Remarks

08/22 Repaired cracking due to hydro overlay





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08/22 Repaired cracking due to hydro overlay



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08/22 Repaired cracking due to hydro overlay

Date Reported: 08/20/2018
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Repair Documented
Inspection Direction N to S
Component:

Deficiency Description

SPALL WITH REBAR EXPOSED BOTTOM OF DECK SPAN 1..08/22 Patch work was completed when new hydro overlay was done..

Remarks

08/22 Patch work was completed when new hydro overlay was done..



SPAN 1 SPALL WITH REBAR EXPOSED



08/22 Patch work was completed when new hydro overlay was done..



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Inspection Comments

8/18/2020...AL, Elevation, Deck, Def photos taken..8/22 AI and Elevation, permit clearance, hydro overlay, new guard rail all updated in inventory tab. 08/22 cracking of wheel guard added to elements, small delam and rebar exposed underside of deck in various locations. Rust beginning to show on all bearings.spalling with rebar exposed on caps documented in elements. Raised deck to a 7 due to patching underside of deck and new hydro overlay per this inspection.

Deck Notes

6 Satisfactory SEALED DECK IN 2008. TWO MINOR POP OUT SPALLS IN SPAN 2 DECK. MINOR SPALLS ON OVER HANG.....8/16/2018 AL,SS,DECK,DEF.PHOTOS TAKEN..SPALL WITH REBAR EXPOSED BOTTOM OF DECK SPAN 1.DECK CRACKS VARIOUS LOCATIONS POT HOLE IN OLD PATCH SPAN 3 RIGHT SIDE
08/22 deck has been hydro overlay per this inspection, bumped to a 7 due to hydro overlay and patching..

Superstructure Notes

7 Good MINOR SPALLS AT BENT #4 CAP...BEAMS RUSTING...8/18/2020...Beams and bearings have been painted per this inspection...

Substructure Notes

7 Good