



Latitude:36.21555, Longitude:-90.75084

Route:90 Section:04 Log:5.33

Arnold Road ID:28x90x4xA, Arnold Log mile:5.34

District 10, Greene County

Owner: 1-State Highway Agency



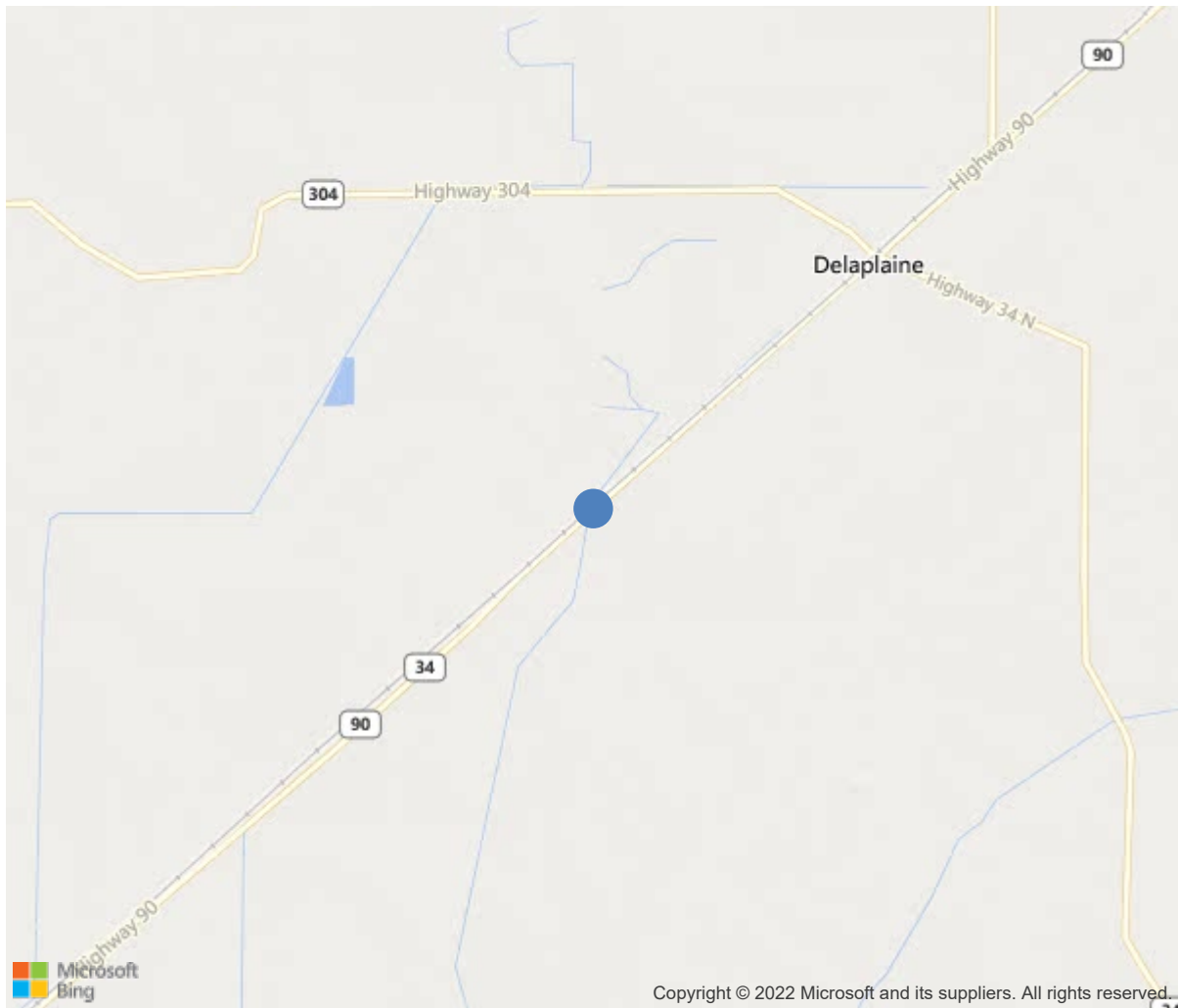
Bridge #00830(Routine, Underwater type 2)

SH 90-04-LM 5.33 over POST OAK DITCH

Location: 2.0 Mi. SW Delaplaine

Team Lead: James Adams **Inspection Date:** September 15, 2020

2.0 Mi. SW Delaplaine



36.21555, -90.75084

Inspection Direction : N to S



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Location: 2.0 Mi. SW Delaplaine

Team Lead: James Adams Inspection Date: September 15, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	00830
(5) Inventory Route	90
(2) Highway Agency District	10
(3) County Code	55-Greene County, Arkansas
(4) Place Code	0
(6) Features Intersected	POST OAK DITCH
(7) Facility Carried	SH 90-04-LM 5.33
(9) Location	2.0 Mi. SW Delaplaine
(11) Mile Point	5.33 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.2155468995309
(17) Longitude	-90.7508400388558
(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	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	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1954
(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	500
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	18 ft
(49) Structure Length	72 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.5 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	25.9 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	7-Rural Major Collector
(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	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	35.1
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	21.1
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(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	937
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	09/2020		
(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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Location: 2.0 Mi. SW Delaplaine

Team Lead: James Adams, Inspection Date: September 15, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	1908	1752	84	72	0
1120	Efflorescence/Rust Staining	SF	156	0	84	72	0
510	Wearing Surfaces	SF	1728	864	0	864	0
3220	Crack (Wearing Surface)	SF	851	0	0	851	0
3210	Delam/Spall/Patched Area/Pothole	SF	13	0	0	13	0
215	Reinforced Concrete Abutment	LF	80	80	0	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	97	67	11	19	0
1010	Cracking	LF	17	0	11	6	0
1090	Exposed Rebar	LF	6	0	0	6	0
1120	Efflorescence/Rust Staining	LF	7	0	0	7	0
301	Pourable Joint Seal	LF	83	83	0	0	0
330	Metal Bridge Railing	LF	144	0	135	9	0
1000	Corrosion	LF	135	0	135	0	0
1010	Cracking	LF	9	0	0	9	0
515	Steel Protective Coating	SF	459	46	0	413	0
3440	Effectiveness (Steel Protective Coatings)	SF	413	0	0	413	0

Maintenance Needs

Date Reported: 01/13/2011
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Caps have heavy deterioration on Rt end with efflorescent cracks and some concrete disintegration.

Remarks



Bent 2 Rt



Bent 3 right



Bent 2 right



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Location: 2.0 Mi. SW Delaplaine

Team Lead: James Adams **Inspection Date:** September 15, 2020

Date Reported: 01/13/2011

Priority: G - General/ Preventive maintenance

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Caps at bents 2 - 4 have a few small delaminated areas and/or spalls with rebar exposed.

Remarks



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Location: 2.0 Mi. SW Delaplaine

Team Lead: James Adams **Inspection Date:** September 15, 2020

Date Reported: 01/13/2011

Priority: G - General/ Preventive maintenance

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Soffit has longitudinal cracks near centerline with efflorescence and rust stains.
Outside edge of deck has a few areas of map cracking with efflorescence near joints.

Remarks



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Inspection Comments

-

Deck Notes

No log mile postings on either end of bridge.

Metal railing has surface rust.

Concrete posts have a few delaminated areas and spalls with exposed rebar.

Asphalt wearing surface has numerous cracks and delamination, and small pot holes near centerline

Deck has dirt & debris build up in gutter lines.

Soffit has longitudinal cracks near centerline with efflorescence and rust stains.

Outside edge of deck has a few areas of map cracking with efflorescence over joints.

Superstructure Notes

Soffit has longitudinal cracks near centerline with efflorescence and rust stains.

Substructure Notes

Caps at bents 2,3 & 4 have a few small delaminated areas and spalls with exposed rebar.

Caps have heavy deterioration on right ends with efflorescent cracks and some concrete disintegration.

Piles have some minor abrasion.

Minor drift in channel & under bridge.

Underwater type 2 inspection performed this report.