



Bridge #A6898(Routine)
I-55-12SB-LM39.00 over DITCH NO. 50

Location: 2 MI SO JCT SH 14

Team Lead: James Adams **Inspection Date:** February 12, 2018



Latitude:35.58195, Longitude:-90.13364

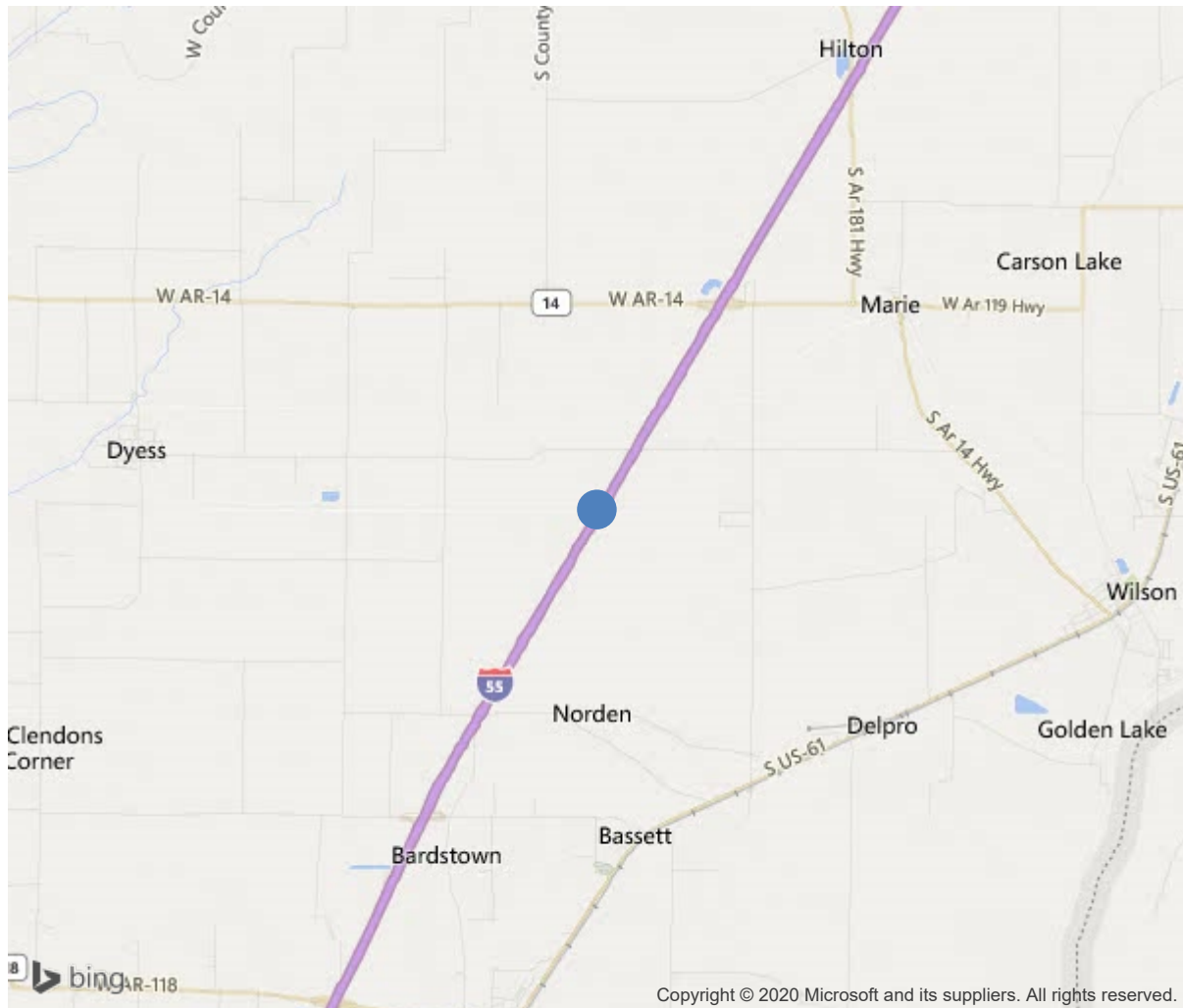
Route:55 Section:12 Log:39

Arnold Road ID:47x55x12xB, Arnold Log mile:33.217

District 10, Mississippi County

Owner: 1-State Highway Agency

2 MI SO JCT SH 14



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A6898
(5) Inventory Route	55
(2) Highway Agency District	10
(3) County Code	93-Mississippi County, Arkansa
(4) Place Code	0
(6) Features Intersected	DITCH NO. 50
(7) Facility Carried	I-55-12SB-LM39.00
(9) Location	2 MI SO JCT SH 14
(11) Mile Point	39 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000055120
(16) Latitude	35.58195
(17) Longitude	-90.13364
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
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	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2003
(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	10020
(30) Year of ADT	2018
(109) Truck ADT	39 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	50 ft
(49) Structure Length	182.5 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	43.2 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	41.3 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 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	1
(26) Functional Class	1-Rural Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	L-The left structure of parallel
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	1-The inventory route is part of the
(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	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	7
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	1111
A) Bridge Railings	1-Inspected feature meets currently a
B) Transitions	1-Inspected feature meets currently a
C) Approach Guardrail	1-Inspected feature meets currently a
D) Approach Guardrail Ends	1-Inspected feature meets currently a
(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	0
(114) Future ADT	12202
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	202002
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	No 0

SUFFICIENCY RATING	95.2
STATUS (SD/FO/None)	Not Deficient



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7776	5049	1	2726	0
1090	Exposed Rebar	SF	1	0	1	0	0
1120	Efflorescence/Rust Staining	SF	48	0	0	48	0
1130	Cracking (RC and Other)	SF	2678	0	0	2678	0
107	Steel Open Girder/Beam	LF	1080	1080	0	0	0
515	Steel Protective Coating	SF	9164	9164	0	0	0
215	Reinforced Concrete Abutment	LF	140	139	1	0	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
225	Steel Pile	EA	24	8	16	0	0
1000	Corrosion	EA	16	0	16	0	0
515	Steel Protective Coating	SF	602	602	0	0	0
234	Reinforced Concrete Pier Cap	LF	143	143	0	0	0
302	Compression Joint Seal	LF	98	98	0	0	0
310	Elastomeric Bearing	EA	30	30	0	0	0
321	Reinforced Concrete Approach Slab	SF	1752	1337	3	412	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
1130	Cracking (RC and Other)	SF	412	0	0	412	0
331	Reinforced Concrete Bridge Railing	LF	365	265	0	100	0
1130	Cracking (RC and Other)	LF	100	0	0	100	0



Roadway



Side view



Span 2 soffit



Approach roadway RT lane



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Maintenance Needs



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Deck Notes

No log mile postings Concrete Rails have several moderate width cracks. Approach Slabs have some minor size and density sealable cracks. Approach roadway at ends of approach slab on both ends has a 1 ft. wide spall in asphalt. Approach roadway in right lane at end of bent 1 (South) approach slab has a 3 ft. x 1 ft. pot hole in asphalt with a 6 in. x 3 ft. spall on end of approach slab with no exposed rebar, see 2018 photo. Top of Deck has moderate width cracks and some open cracks thru Deck. Span 3 near centerline has a 1.0 ft. spall with exposed rebar. Overhang portion of soffit has cracking with efflorescence.

Superstructure Notes

Weathering steel girders are brown in color with a few areas of yellow on diaphragms.

Substructure Notes

Bent 1 concrete cap has 1 vertical crack.

Bents 2&3 Steel Shell Piles have light rust forming with pitting.
Concrete encasements are in good condition

Heavy
vegetation under bridge with trees growing against bridge.

Minor
drift at bent 2.