



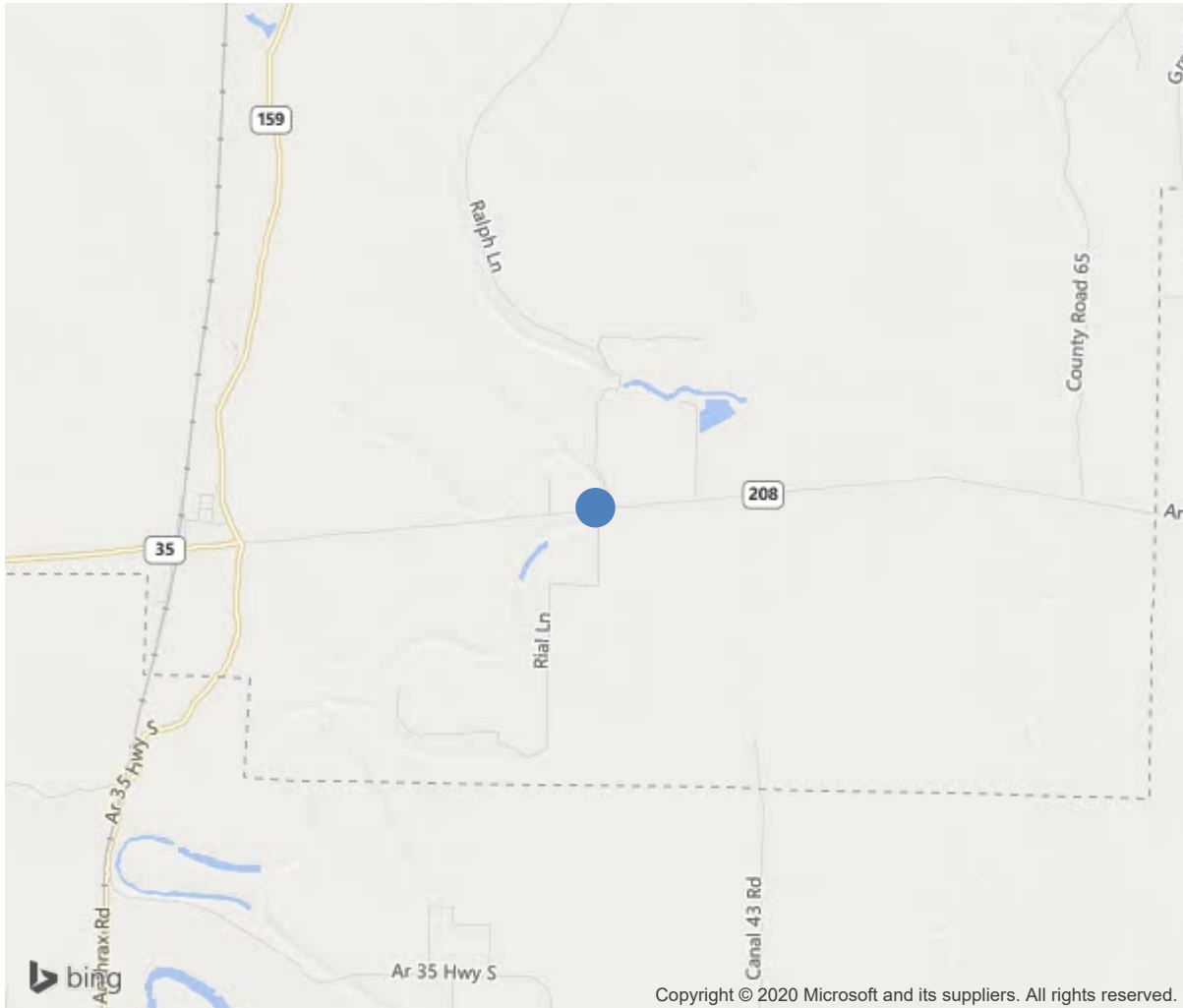
Bridge #05140(Routine)

SH 35-10 LM 3.28 over Bayou Macon

Location: 1.80 Mi E SH159-Halley

Team Lead: Sharon Hooks **Inspection Date:** August 19, 2019

1.80 Mi E SH159-Halley



33.53815, -91.29391



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05140
(5) Inventory Route	35
(2) Highway Agency District	02
(3) County Code	41-Desha County, Arkansas
(4) Place Code	0
(6) Features Intersected	Bayou Macon
(7) Facility Carried	SH 35-10 LM 3.28
(9) Location	1.80 Mi E SH159-Halley
(11) Mile Point	3.282 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.53815
(17) Longitude	-91.29391
(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	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1969
(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	240
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	20 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	60 ft
(49) Structure Length	242 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	31 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	28.9 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	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4-M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	52
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
Rating	31
(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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	1001
A) Bridge Railings	1-Inspected feature meets currently a
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
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	
(114) Future ADT	255
(115) Year of Future ADT	2034
INSPECTIONS	
(90) Inspection Date	
(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

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7502	7502	0	0	0
510	Wearing Surfaces	SF	6534	6384	150	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	150	0	150	0	0
(12)							
Deck: 31' wide x 242' long. Wearing surface: Asphalt overlay covering joints has cracked/deteriorated and has spalled and potholed up (4-6" wide). Some small areas of asphalt wearing surface delaminating around drains.							
107	Steel Open Girder/Beam	LF	1200	892	300	8	0
1000	Corrosion	LF	308	0	300	8	0
515	Steel Protective Coating	SF	8196	820	0	5327	2049
3440	Effectiveness (Steel Protective Coatings)	SF	7376	0	0	5327	2049
(107)							
Girders: 5 per span / 240' total span. Coating: 6.83 square feet per linear feet of girder.							
Paint on girders has weathered, deteriorated, and worn thin over 90% of surface - rust is beginning to show through paint on most of girders with approximately 25% having light surface rust in small areas of light flaking rust .							
215	Reinforced Concrete Abutment	LF	80	79	1	0	0
1130	Cracking (RC and Other)	LF	1	0	1	0	0
(215)							
Abutments: 40' each / Bents 1 & 5. Bent 5: Small vertical crack in backwall.							
227	Reinforced Concrete Pile	EA	15	15	0	0	0
(227)							
Pile: 5 per bent / Bents 2-4.							
234	Reinforced Concrete Pier Cap	LF	84	84	0	0	0
(234)							
Caps: 28' each / Bents 2-4. Some light staining from joint seals leaking.							
302	Compression Joint Seal	LF	140	0	0	140	0
2330	Seal Damage	LF	112	0	0	112	0
2350	Debris Impaction	LF	28	0	0	28	0
(302)							
Joints: 28' each / Bents 1-5. Bent 1: Joint is covered over with asphalt wearing surface and is impacted with asphalt, dirt, and other debris.							

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
All remaining preformed joint material is cracked, tattered, and torn - with some leaking. Road irons have corroded and are covered with flaking rust - minor section loss. Asphalt wearing surface covering joints has cracked/deteriorated and has spalled and potholed up - joints and potholes are filled with dirt, sand, and other debris.							
311	Movable Bearing	EA	20	0	20	0	0
1000	Corrosion	EA	20	0	20	0	0
(311)							
Movable bearings: 5 per bent / Bent 1, 2, 4, & 5. Rust is beginning to show through paint on bearings with some light scattered surface rust.							
313	Fixed Bearing	EA	20	0	20	0	0
1000	Corrosion	EA	20	0	20	0	0
(313)							
Fixed bearings: 5 per bent / Bents 2 & 4; 10 per bent / Bent 3. Rust is beginning to show through paint on bearings with some light scattered surface rust.							
330	Metal Bridge Railing	LF	484	484	0	0	0
515	Steel Protective Coating	SF	1549	1549	0	0	0
(330)							
Railing: 242 each side. Coating: 3.2 square feet per linear feet of railing.							



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Maintenance Needs



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Inspection Comments

Beginning of structure toward SH 65 ,Halley, West End.

03-05-2008, Dropping UW inspection due to sub-str. elements are not continuously submerged. RLW.

Due to updated info this bridge is no longer recommended for load posting. See memo attached to this report. SDH 7/27/15. Changed inspection frequency to 24 month due to no longer recommended for posting.

Load Rating

Layout Dwg# 13854