



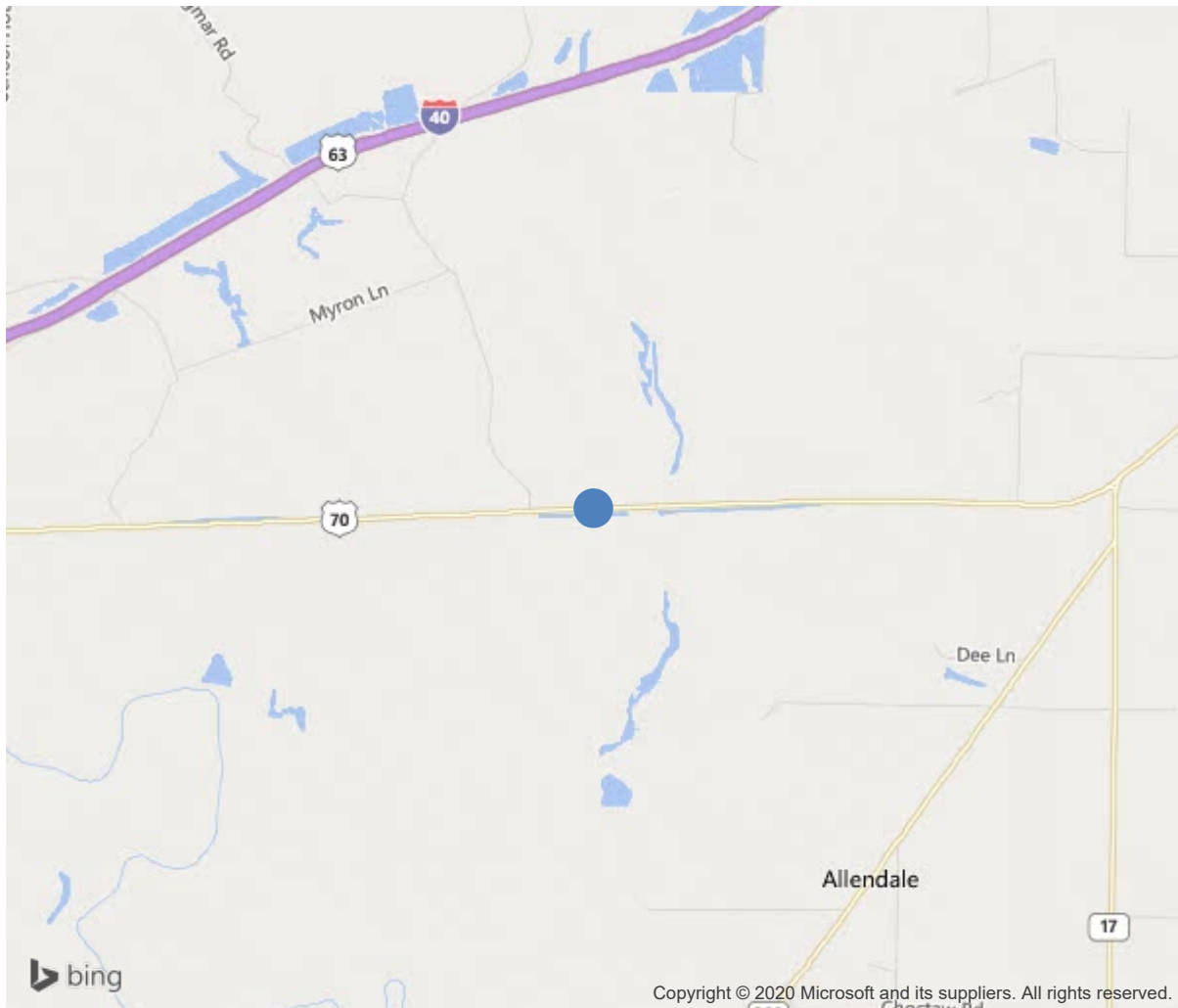
**Bridge #01110(Routine)**

**Us-70/Sec-17/L5.08 over Bayou Devieu River**

**Location: 5.08 Mi E Praire Co Line**

**Team Lead: Joel Davis Inspection Date: May 16, 2019**

5.08 Mi E Praire Co Line



34.83908, -91.28868



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	01110
(5) Inventory Route	70
(2) Highway Agency District	01
(3) County Code	95-Monroe County, Arkansas
(4) Place Code	0
(6) Features Intersected	Bayou Devieu River
(7) Facility Carried	Us-70/Sec-17/L5.08
(9) Location	5.08 Mi E Praire Co Line
(11) Mile Point	5.08 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.83908
(17) Longitude	-91.28868
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1-Concrete
Type	4-Tee beam
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	6
(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	1930
(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	1100
(30) Year of ADT	2014
(109) Truck ADT	19 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	34 ft
(49) Structure Length	205 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	26.9 ft
(52) Deck Width Out to Out	30 ft
(32) Approach Roadway Width (W/Shoulders)	37.1 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	27.9 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	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	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	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	2-Bridge is eligible for the NRHP.
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	5
(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	48
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	6
Rating	29
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	0000
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) 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	1167
(115) Year of Future ADT	2028
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

**Team Lead:** Joel Davis, **Inspection Date:** May 16, 2019

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	6150	6009	66	75	0
1090	Exposed Rebar	SF	6	0	6	0	0
1120	Efflorescence/Rust Staining	SF	135	0	60	75	0
510	Wearing Surfaces	SF	5535	5210	300	25	0
3220	Crack (Wearing Surface)	SF	325	0	300	25	0
(16)							
10' of curb is scaling and breaking off. Gutters are full of dirt and debris with vegetation growing in them. Wearing surface has transverse cracks at joints and 1 longitudinal crack down center of bridge. Soffit has a few transverse cracks with light rust staining and efflorescence. Soffit overhang span #2 right side has two 1' spalls rebar exposed no section loss near bent #2. Soffit overhang span #4 left side has 4' of spalls with exposed rebar no section loss.							
110	Reinforced Concrete Open Girder/Beam	LF	1025	1021	2	2	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	2	0	0	2	0
(110)							
Girders all spans have vertical hairline cracks spaced 1' apart. Bent #3 span #3 girder #4 right side is cracked with 1' delamination. Bent #4 span #4 girder #2 has a 1' delamination. Bent #5 span #4 girder #1 left side has a 1' spall with exposed rebar 5% section loss. Bent #5 span #4 girder #2 left side has a 1' spall with exposed rebar 5% section loss.							
215	Reinforced Concrete Abutment	LF	64	32	31	1	0
1120	Efflorescence/Rust Staining	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	1	0	0	1	0
6000	Scour	LF	29	0	29	0	0
(215)							
Abutment #1 back wall right side between girders #4,5 has diagonal crack with light efflorescence. Abutment #1 cap is undermined up to 1' exposing all piles.							
227	Reinforced Concrete Pile	EA	25	15	5	5	0
1080	Delamination/Spall/Patched Area	EA	2	0	2	0	0
1090	Exposed Rebar	EA	6	0	1	5	0
1130	Cracking (RC and Other)	EA	2	0	2	0	0
(227)							
Bent #2 pile #3,5 have hairline crack at top. Bent #3 pile #1 has 1' spall rebar exposed 5% section loss at top. Bent #3 pile #3, and bent #4 piles #2,4 are heavily scaled at ground line with exposed rebar 5% section loss. Bent #3 pile #4 is spalled at top with 1' exposed rebar with 5% section loss.							



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bent #3 pile #5 has 6" of rebar exposed due to poor concrete coverage no section loss. Bent #5 pile #5 is cracked for 2' with delamination at top.							
234	Reinforced Concrete Pier Cap	LF	128	118	0	10	0
1090	Exposed Rebar	LF	3	0	0	3	0
1130	Cracking (RC and Other)	LF	7	0	0	7	0
(234)							
Bent #3 cap ahead face has 6" spall above pile #1, 2 with exposed rebar 5% section loss. Bent #3 cap ahead face between piles #2,3 and 4,5 both have 2' long crack near bottom. Bent #3 cap back face and bottom has 6' area of moderate honey comb. Bent #3 cap back face between piles #4,5 has 3' long crack near bottom. Bent #5 cap ahead face between pies 2 and 3 spalled with exposed rebar with 5% section loss.							
305	Assembly Joint without Seal	LF	120	0	0	120	0
2350	Debris Impaction	LF	120	0	0	120	0
(305)							
Asphalt overlay has impacted Joint to allow little movement.							
311	Movable Bearing	EA	10	10	0	0	0
331	Reinforced Concrete Bridge Railing	LF	410	410	0	0	0



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## **Maintenance Needs**



## Inspection Comments

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### Deck Notes

Deck: 10' of curb is scaling and breaking off. Gutters are full of dirt and debris with vegetation growing in them. Wearing surface has transverse cracks at joints and 1 longitudinal crack down center of bridge. Soffit has a few transverse cracks with light rust staining and efflorescence. Soffit overhang span #2 right side has two 1' spalls rebar exposed no section loss near bent #2. Soffit overhang span #4 left side has 4' of spalls with exposed rebar no section loss. Assembly joints: Asphalt overlay has impacted Joint to allow little movement.

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### Superstructure Notes

Girders: Girders all spans have vertical hairline cracks spaced 1' apart. Bent #3 span #3 girder #4 right side is cracked with 1' delamination. Bent #4 span #4 girder #2 has a 1' delamination. Bent #5 span #4 girder #1 left side has a 1' spall with exposed rebar 5% section loss. Bent #5 span #4 girder #2 left side has a 1' spall with exposed rebar 5% section loss.

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### Substructure Notes

Abutments: Abutment #1 right monument post is cracked at bottom. Abutment 2 left monument post base spalled with exposed rebar.

Abutment #1 back wall right side between girders #4,5 has diagonal crack with light efflorescence.

Abutment #1 cap is undermined up to 1' exposing all piles.

RC caps: Bent #3 cap ahead face has 6" spall above pile #1, 2 with exposed rebar 5% section loss. Bent #3 cap ahead face between piles #2,3 and 4,5 both have 2' long crack near bottom. Bent #3 cap back face and bottom has 6' area of moderate honey comb. Bent #3 cap back face between piles #4,5 has 3' long crack near bottom. Bent #5 cap ahead face between piles 2 and 3 spalled with exposed rebar with 5% section loss. RC piles:

Bent #2 pile #3,5 have hairline crack at top.

Bent #3 pile #1 has 1' spall rebar exposed 5% section loss at top.

Bent #3 pile #3, and bent #4 piles #2,4 are heavily scaled at ground line with exposed rebar 5% section loss.

Bent #3 pile #4 is spalled at top with 1' exposed rebar with 5% section loss.

Bent #3 pile #5 has 6" of rebar exposed due to poor concrete coverage no section loss.

Bent #5 pile #5 is cracked for 2' with delamination at top.