



Latitude:33.21187, Longitude:-91.28249

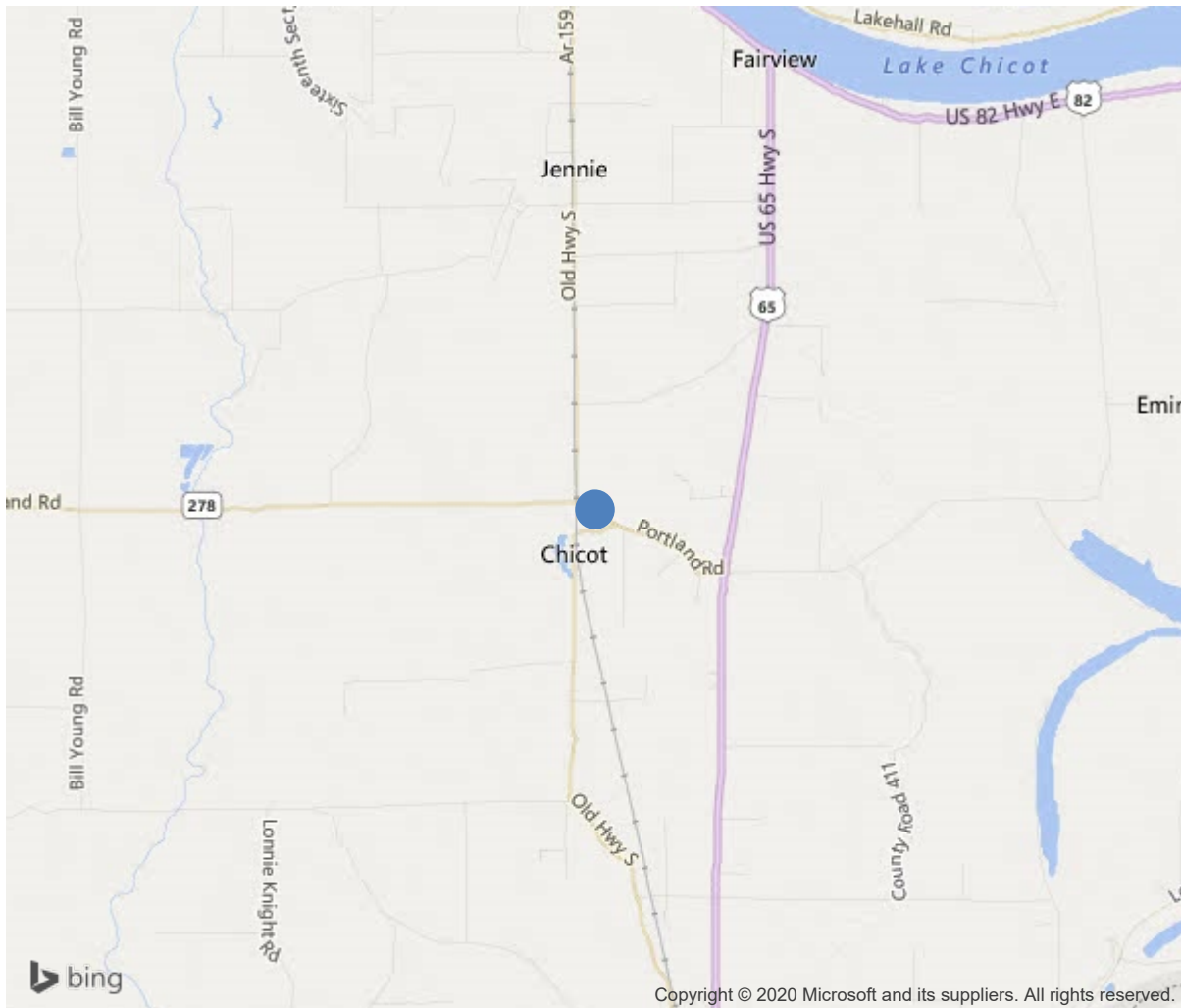
Route:160 Section:12 Log:10.43

Arnold Road ID:9x160x12xA, Arnold Log mile:10.349

District 02, Chicot County

Owner: 1-State Highway Agency

1.7 Mi W US 65-Chicot Jct



33.21187, -91.28249



Bridge #05433(Routine)

SH 160-12 LM 10.43 over Bayou Macon

Location: 1.7 Mi W US 65-Chicot Jct

Team Lead: Sharon Hooks Inspection Date: June 25, 2018

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05433
(5) Inventory Route	160
(2) Highway Agency District	02
(3) County Code	17-Chicot County, Arkansas
(4) Place Code	0
(6) Features Intersected	Bayou Macon
(7) Facility Carried	SH 160-12 LM 10.43
(9) Location	1.7 Mi W US 65-Chicot Jct
(11) Mile Point	10.43 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.2118652673163
(17) Longitude	-91.2824931253327
(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	5
(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	1972
(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	270
(30) Year of ADT	2014
(109) Truck ADT	10 %
(19) Bypass, Detour Length	20 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	50 ft
(49) Structure Length	252 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	25.9 ft
(52) Deck Width Out to Out	28 ft
(32) Approach Roadway Width (W/Shoulders)	25.9 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	26.9 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	7
(61) Channel & Channel Protection	7
(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	60
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	5
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	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	334
(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



**Bridge #05433(Routine)**  
**SH 160-12 LM 10.43 over Bayou Macon**  
**Location: 1.7 Mi W US 65-Chicot Jct**

**Team Lead:** Sharon Hooks, **Inspection Date:** June 25, 2018

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	7056	7056	0	0	0
510	Wearing Surfaces	SF	6046	6046	0	0	0
(12)	252' by 28' 1/2 inch asphaltic seal coat overlay added.						
107	Steel Open Girder/Beam	LF	1000	1000	0	0	0
515	Steel Protective Coating	SF	6300	0	6300	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	6300	0	6300	0	0
(107)	Girders 4 each at 250' Coating: 6.3 square feet per linear feet of girder. Dark brown color with granular texture on all steel members.						
215	Reinforced Concrete Abutment	LF	72	71	1	0	0
6000	Scour	LF	1	0	1	0	0
(215)	36' each Bent 1 & 6 Staining from leaking joints. Bent 1 near pile 1 has small area of erosion to end slope.						
227	Reinforced Concrete Pile	EA	20	20	0	0	0
(227)	5 each bent 2 -5						
234	Reinforced Concrete Pier Cap	LF	104	101	0	3	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	1	0	0	1	0
(234)	26' each Bents 2-5 Bent 2 back small spall with exposed rebar (1'). Bent 4 front face cap at step down between girders 4 & 5 a crack 11 inch long. Bent 5 over pile 1 bottom back side: small spall with a little exposed rebar (1'). All caps stained from joint seals leaking.						
302	Compression Joint Seal	LF	156	0	50	80	26
2310	Leakage	LF	30	0	30	0	0
2320	Seal Adhesion	LF	40	0	20	20	0
2330	Seal Damage	LF	26	0	0	0	26

**Team Lead:** Sharon Hooks, **Inspection Date:** June 25, 2018

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2350	Debris Impaction	LF	60	0	0	60	0
(302)	26' each Bents 1-6 Bent 1: Preformed joint material missing near centerline (10'). Bent 5: Preformed joint material missing near centerline (16'). Remaining joints are beginning to lose adhesion, torn and show signs of leaking. All joint seals have chip seal overlay impaction.						
311	Movable Bearing	EA	20	20	0	0	0
515	Steel Protective Coating	SF	20	20	0	0	0
(311)	4 each Span 1-5 Coating: 1 square feet each. Uniform rust.						
313	Fixed Bearing	EA	20	20	0	0	0
515	Steel Protective Coating	SF	20	20	0	0	0
(313)	4 each spans 1-5 Coating: 1 square feet each. Uniform rust						
330	Metal Bridge Railing	LF	504	504	0	0	0
515	Steel Protective Coating	SF	1159	1159	0	0	0
(330)	252' each side. Coating: 2.3 square feet per linear feet of railing.						





Bent 1 bearing 1 has some rust forming due to leaking joint seals.



Overview of soffit and girders.



Approach



Elevation.





Deck Overview.



Bent 5 joint seal torn and missing.





Span 1 end slope has vines and vegetation growing under bridge.



Bent 2 back has small spall with exposed rebar. Common at bent 5 back.



Span 1 left side has small area of erosion to end slope near pile 1.



Span 5 between girders 1 & 2 soffit has transverse crack with efflorescence.





Northwest approach roadway has some erosion encroaching into shoulder area. Common southwest approach roadway.





**Bridge #05433**(Routine)  
**SH 160-12 LM 10.43 over Bayou Macon**  
**Location: 1.7 Mi W US 65-Chicot Jct**

**Team Lead:** Sharon Hooks **Inspection Date:** June 25, 2018

## **Maintenance Needs**



**Bridge #05433**(Routine)  
**SH 160-12 LM 10.43 over Bayou Macon**  
**Location: 1.7 Mi W US 65-Chicot Jct**

**Team Lead:** Sharon Hooks **Inspection Date:** June 25, 2018

### **Inspection Comments**

Beginning of structure far end from US 65, Chicot Junction, West End.04-14-2008, Dropping UW inspection due to sub-str. elements are not continuously submerged. RLW.Sufficiency Rating Calculation Accepted by tehe576 at 2013-08-13 15:15:58