



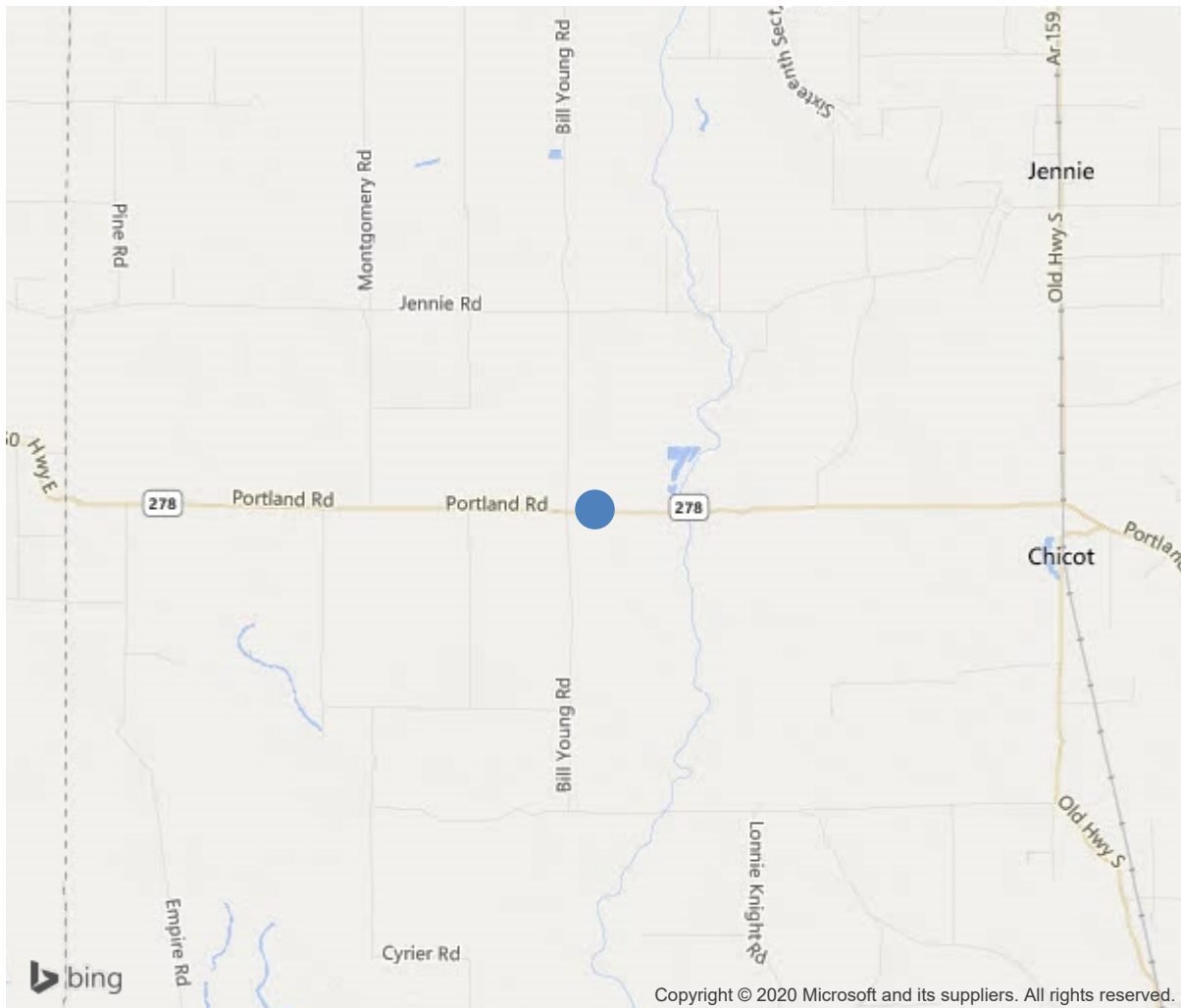
**Bridge #M3153(Routine)**

**SH 160-12 LM 5.41 over Creek**

**Location: 6.5 Mi W US 65-Chicot Jct**

**Team Lead: Sharon Hooks Inspection Date: June 13, 2018**

6.5 Mi W US 65-Chicot Jct



33.21222, -91.36757



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	M3153
(5) Inventory Route	160
(2) Highway Agency District	02
(3) County Code	17-Chicot County, Arkansas
(4) Place Code	0
(6) Features Intersected	Creek
(7) Facility Carried	SH 160-12 LM 5.41
(9) Location	6.5 Mi W US 65-Chicot Jct
(11) Mile Point	5.41 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.2122233442539
(17) Longitude	-91.3675670552254
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1-Concrete
Type	22-Channel beam
(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	2-Concrete Precast Panels
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1968
(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	300
(30) Year of ADT	2014
(109) Truck ADT	10 %
(19) Bypass, Detour Length	20 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	77 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	26.2 ft
(52) Deck Width Out to Out	28.2 ft
(32) Approach Roadway Width (W/Shoulders)	24 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	27.6 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	8
(59) Superstructure	7
(60) Substructure	4
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0-Other or Unknown
(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	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36) Traffic Safety Features	0001
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	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	513
(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 201812

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2156	2156	0	0	0
(16)	Deck 77' by 28' Joints are completely grouted and grout is in excellent condition.						
110	Reinforced Concrete Open Girder/Beam	LF	608	558	21	29	0
1080	Delamination/Spall/Patched Area	LF	10	0	0	10	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	39	0	20	19	0
(110)	8 each at 76 Units are bolted transversely and longitudinally - missing/loose bolts noted below.  State 3 - Span 2 Unit 3: Minor-sized cracking on upper inside of both legs close to soffit with some hairline-sized cracking on bottom of legs (19').  State 2 - Span 2 Units 2, 4, 6, & 7:cracking with delams on bottom of legs in various locations (28' total). Span 3 Unit 3 right: Minor-sized cracking on bottom of leg at 3/4 span (2'). Span 3 unit 8 has small spall with exposed rebar. Span 3 Units 1-5: Several bolts missing/loose in various locations.						
216	Timber Abutment	LF	72	72	0	0	0
(216)	36' each bents 1 & 5 timber back walls. Both back walls have minor decay.						
228	Timber Pile	EA	25	9	6	10	0
1020	Connection	EA	3	0	3	0	0
1140	Decay/Section Loss	EA	9	0	3	6	0
1150	Check/Shake	EA	4	0	0	4	0
(228)	5 each bents 1-5 Scattered minor checking and light surface deterioration. Bent 1 pile 2 decay and hollow area ,with heaviest to back face. Bent 1 pile 3 hollow with heavy decay. Bent 2 pile 2 hollow area near mid section. Bent 2 pile 4 hollow area cap down 3'. Bent 2 pile 5 Very large checks and small hollow area at cap. Bent 3 pile 2 some minor decay. Bent 3 pile 3 some outer ring separation near mid section. Bent 3 pile 4 some outer ring separation near mid section with large checks,. Bent 3 pile 5 minor decay near mid section with large checks. Bent 4 pile 1 outer ring separation and minor decay from ground line up to cap. Bent 4 pile 2 hollow from cap down 2'. Bent 4 pile 4 hollow from cap down to ground line.						

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	Bent 4 pile 5 hollow from cap down to ground line. Bent 5 pile 2 hollow no bearing capacity. Bent 5 pile 4 hollow with heavy decay. Bent 5 pile 5 hollow with heavy decay.    Bent 1 pile 4 repaired previously. Bent 3 pile 1 repaired previously. Bent 5 pile 1 repaired previously.						
234	Reinforced Concrete Pier Cap	LF	140	139	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
(234)	28' each bents 1-5 Bent 3 left: Minor spall on corner (1').						
330	Metal Bridge Railing	LF	154	154	0	0	0
515	Steel Protective Coating	SF	354	354	0	0	0
(330)	77' each side Coating: 2.3 square feet per linear feet of railing.						



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## **Maintenance Needs**



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### **Inspection Comments**

Beginning of structure toward US 165, Portland, Ashley / Chicot County Line, West End.06-19-2006, Dropping UW inspection due to sub-str elements are not continuously submerged. Signs of short durations of high water events. No signs of channel scour up or down stream. NBI Items #60 and #61 will fairly represent all elements. RLW.Changed Item 113 from U to 5. See Bridge Scour Assessment Procedure Worksheet B.S.A.P.W. (DMH 12/28/09)Inspection put on 12 month frequency due to lowering item 60 to 4. SDH 6/13/2018.