



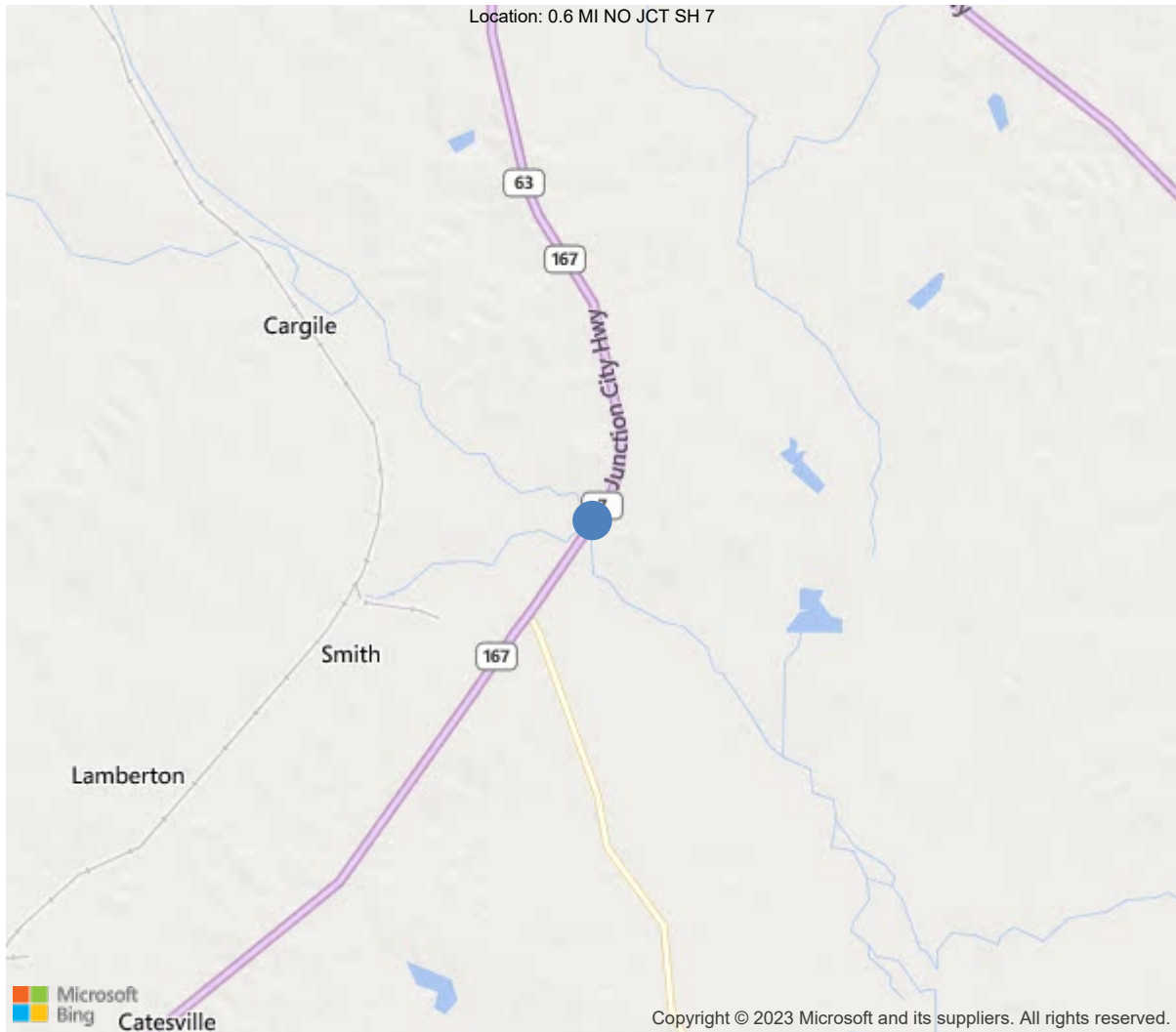
Latitude:33.14291, Longitude:-92.62619

Route:167 Section:01 Log:10.908

Arnold Road ID:70x167x1xA, Arnold Log mile:10.901

District 07, 139 - Union County

Owner: 1 - State Highway Agency



33.14291, -92.62619





Asset #06492(Routine)

UnionUS167S1LM10.9 over BAYOU LOURE

Location: 0.6 MI NO JCT SH 7

Team Lead: Rickie Bratton, Inspection Date: 11/09/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06492
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	139 - Union County
(4) Place Code	0
(6) Features Intersected	BAYOU LOURE
(7) Facility Carried	UnionUS167S1LM10.9
(9) Location	0.6 MI NO JCT SH 7
(11) Mile Point	10.908 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000167010
(16) Latitude	33.14291
(17) Longitude	-92.62619
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	7
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	9 - Other
AGE AND SERVICE	
(27) Year Built	1997
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	5
Under	0
(29) Average Daily Traffic	8600
(30) Year of ADT	2014
(109) Truck ADT	20 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	210 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	69.9 ft
(52) Deck Width Out to Out	72.8 ft
(32) Approach Roadway Width (W/Shoulders)	69.9 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	70.9 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 w
(111) Pier Protection	1 - Navigation protection not
(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	2 - Rural Principal Arterial -
(100) Defense Highway	0 - The inventory route is not
(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 par
(20) Toll	3 - On free road. The structu
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	8
(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	
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	6
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined t
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	9549
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	11/09/2021		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			



Asset #06492(Routine)

District: 07, County: 139 - Union County

Team Lead: Rickie Bratton, Inspection Date: 11/09/2021

### General Observation

11/20/2019 JPR -- This structure is logged from South to North.

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#### 58 - Deck (8 - VERY GOOD CONDITION - no problems noted.)

Numerous cracks, all spans. Normal wear and abrasions. Joint material has failed all joints. Span 4 @ Bent 4 there is a small 6" spall with and approx. 3' of delamination.

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#### 59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

normal wear

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#### 60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Normal wear.

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#### A-46 - Asset Files

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Asset #06492(Routine)

UnionUS167S1LM10.9 over BAYOU LOU TRE

Location: 0.6 MI NO JCT SH 7

Team Lead: Rickie Bratton, Inspection Date: 11/09/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	15294	14720	529	45	0
1080	Delamination/Spall/Patched Area	SF	3	0	0	3	0
1120	Efflorescence/Rust Staining	SF	571	0	529	42	0
510	Wearing Surfaces	SF	14679	14679	0	0	0
(38) There is a total of 420' of deck cracking in SB lanes, 210' of cracking on inside SB lane next to white lane, & 210' of cracking on outside SB lane in center of travel lane. 11/20/2019 JPR added a total of 680' of cracking - 2 more full length cracks and some transverse and diagonal shear cracks. There is also small 6" spall and about 3' of delamination on span 4 @ Bent 4.							
215	Reinforced Concrete Abutment	LF	179	179	0	0	0
227	Reinforced Concrete Pile	EA	48	48	0	0	0
234	Reinforced Concrete Pier Cap	LF	441	426	15	0	0
1080	Delamination/Spall/Patched Area	LF	8	0	8	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
301	Pourable Joint Seal	LF	437	437	0	0	0
(301) All poured joints are worn and tattered and are leaking and allowing some water and road salts to get through to Slab ends and tops of the caps.							
331	Reinforced Concrete Bridge Railing	LF	420	420	0	0	0



Asset #06492(Routine)

UnionUS167S1LM10.9 over BAYOU LOUTRE

Location: 0.6 MI NO JCT SH 7

Team Lead: Rickie Bratton, Inspection Date: 11/09/2021

**Deck**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	15294	14720	529	45	0
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1120	Efflorescence/Rust Staining	SF	571	0	529	42	0
510	Wearing Surfaces	SF	14679	14679	0	0	0
(38) There is a total of 420' of deck cracking in SB lanes, 210' of cracking on inside SB lane next to white lane, & 210' of cracking on outside SB lane in center of travel lane. 11/20/2019 JPR added a total of 680' of cracking - 2 more full length cracks and some transverse and diagonal shear cracks. There is also small 6" spall and about 3' of delamination on span 4 @ Bent 4.							

**58 - Deck (8 - VERY GOOD CONDITION - no problems noted.)**

Comment: Numerous cracks, all spans. Normal wear and abrasions. Joint material has failed all joints. Span 4 @ Bent 4 there is a small 6" spall with and approx. 3' of delamination.



Asset #06492(Routine)

UnionUS167S1LM10.9 over BAYOU LOUTRE

Location: 0.6 MI NO JCT SH 7

Team Lead: Rickie Bratton, Inspection Date: 11/09/2021

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

**59 - Superstructure** (7 - GOOD CONDITION - some minor problems.)

Comment: normal wear





Asset #06492(Routine)

UnionUS167S1LM10.9 over BAYOU LOUTRE

Location: 0.6 MI NO JCT SH 7

Team Lead: Rickie Bratton, Inspection Date: 11/09/2021

## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	179	179	0	0	0
227	Reinforced Concrete Pile	EA	48	48	0	0	0
234	Reinforced Concrete Pier Cap	LF	441	426	15	0	0
1080	Delamination/Spall/Patched Area	LF	8	0	8	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0

**60 - Substructure** (7 - GOOD CONDITION - some minor problems.)

Comment: Normal wear.



Asset #06492(Routine)

UnionUS167S1LM10.9 over BAYOU LOUTRE

Location: 0.6 MI NO JCT SH 7

Team Lead: Rickie Bratton, Inspection Date: 11/09/2021

## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation



Bent 6 right end of cap spalled



Bent 5 ahead, delams over piles 6 and 8



Bent 5 ahead, crack between piles 4 and 5





Bent 5 cap back, crack right end.



Span 1 soffit



Deck overview



Approach roadway





Span 4 @ bent 4 Rt. Inside Main Lane 4' Rt. Of C/L there is a large crack & small spall @ the joint.



Span 1 looking across @ deck soffit.



Deck



Deck spans 4 ,5 ,6





Span 7 Lt. Main Lanes looking back @ deck.



Roadway



Profile



Vegetation right side





Span 2 looking ahead from bent 2 @ deck soffit cracks with efflorescence.



Span 7 looking ahead & Rt. @ scour hole running from outside Rt. & between piles 6 & 7. This is a drainage ditch than runs from bent 5 to ahead of bent 7.



Span 6 looking back towards bent 6 @ deck soffit.

**Maintenance Needs**

**Date Reported:** 11/20/2019

**Priority:** C - Important

**Type of Work:** (Inactive) (Inactive) 9 - None

**Status:** Monitor

**Component:**

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**Deficiency Description**

Sealable Deck Cracks entire bridge.

**Remarks**

Overlay has sealed all cracks.

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Span 2 looking ahead from bent 2 @ deck soffit cracks with efflorescence.



Span 6 looking back towards bent 6 @ deck soffit.



Span 7 Lt. Main Lanes looking back @ deck.



**Maintenance Needs**

**Date Reported:** 11/01/2011

**Priority:** D- Routine

**Type of Work:** (Inactive) (Inactive) 9 - None

**Status:** Monitor

**Component:**

---

**Deficiency Description**

Joint material, all joints.

Joint material is tattered and losing bond with the concrete.

11/03/2015 JPR All joints are leaking some and allowing water and road salts to get to ends of slabs and caps.

**Remarks**

Overlay has sealed all joints

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Joint material bent 2, is worn & tattered and is losing bond with the concrete. This is typical of all joints.



Bent 2 joint

**Maintenance Needs**

**Date Reported:** 11/20/2019

**Priority:** D- Routine

**Status:** Monitor

**Type of Work:** (Inactive) (Inactive) 9 - None

**Component:**

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**Deficiency Description**

Vegetation right side

**Remarks**

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Vegetation right side

**Maintenance Needs**

**Date Reported:** 11/20/2019

**Priority:** D- Routine

**Status:** Monitor

**Type of Work:** (Inactive) (Inactive) 9 - None

**Component:**

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**Deficiency Description**

Span 7 looking ahead & Rt. @ scour hole running from outside Rt. & between piles 6 & 7. This is a drainage ditch than runs from bent 5 to ahead of bent 7.

**Remarks**

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Span 7 looking ahead & Rt. @ scour hole running from outside Rt. & between piles 6 & 7. This is a drainage ditch than runs from bent 5 to ahead of bent 7.



**Asset #06492(Routine)**

**UnionUS167S1LM10.9 over BAYOU LOUTRE**

**Location: 0.6 MI NO JCT SH 7**

**Team Lead: Rickie Bratton, Inspection Date: 11/09/2021**

## **Routine Maintenance**

Check Box Maintenance Items

<b>Type of Maintenance</b>	<b>Is recommended?</b>
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	



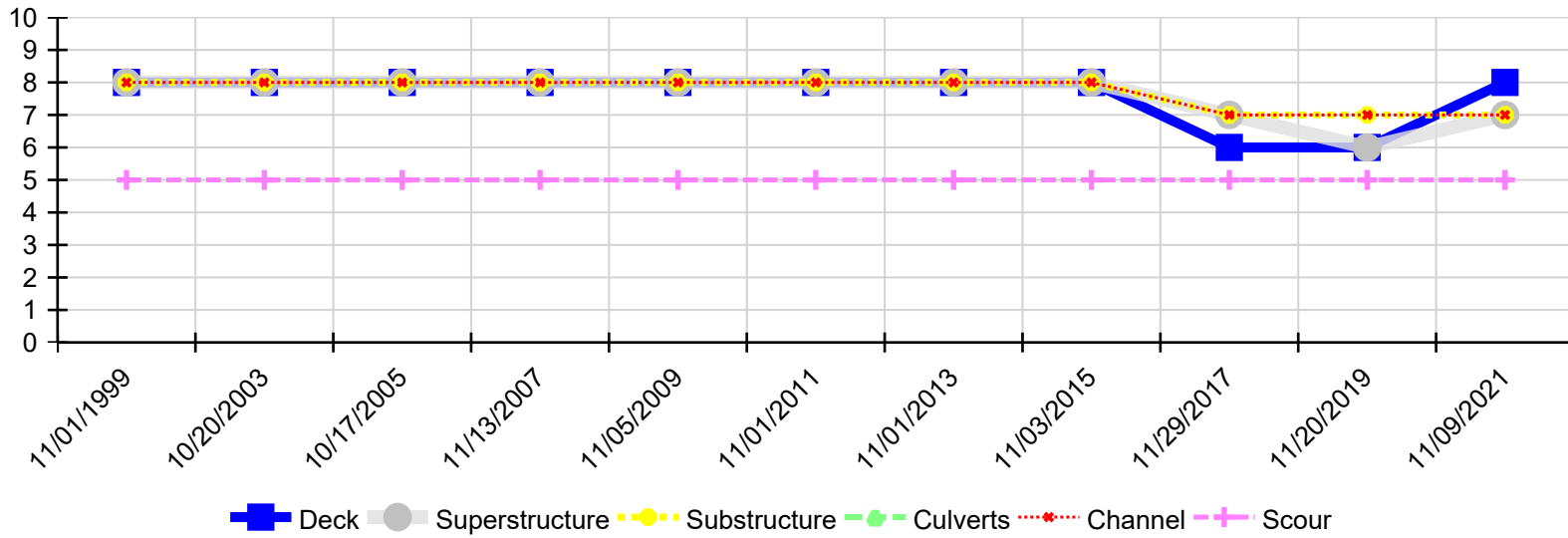
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UnionUS167S1LM10.9 over BAYOU LOUTRE

Location: 0.6 MI NO JCT SH 7

Team Lead: Rickie Bratton, Inspection Date: 11/09/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/09/2021	8	7	7	N	7	5
11/20/2019	6	6	7	N	7	5
11/29/2017	6	7	7	N	7	5
11/03/2015	8	8	8	N	8	5
11/01/2013	8	8	8	N	8	5
11/01/2011	8	8	8	N	8	5
11/05/2009	8	8	8	N	8	5
11/13/2007	8	8	8	N	8	5
10/17/2005	8	8	8	N	8	5
10/20/2003	8	8	8	N	8	5
11/01/1999	8	8	8	N	8	5