



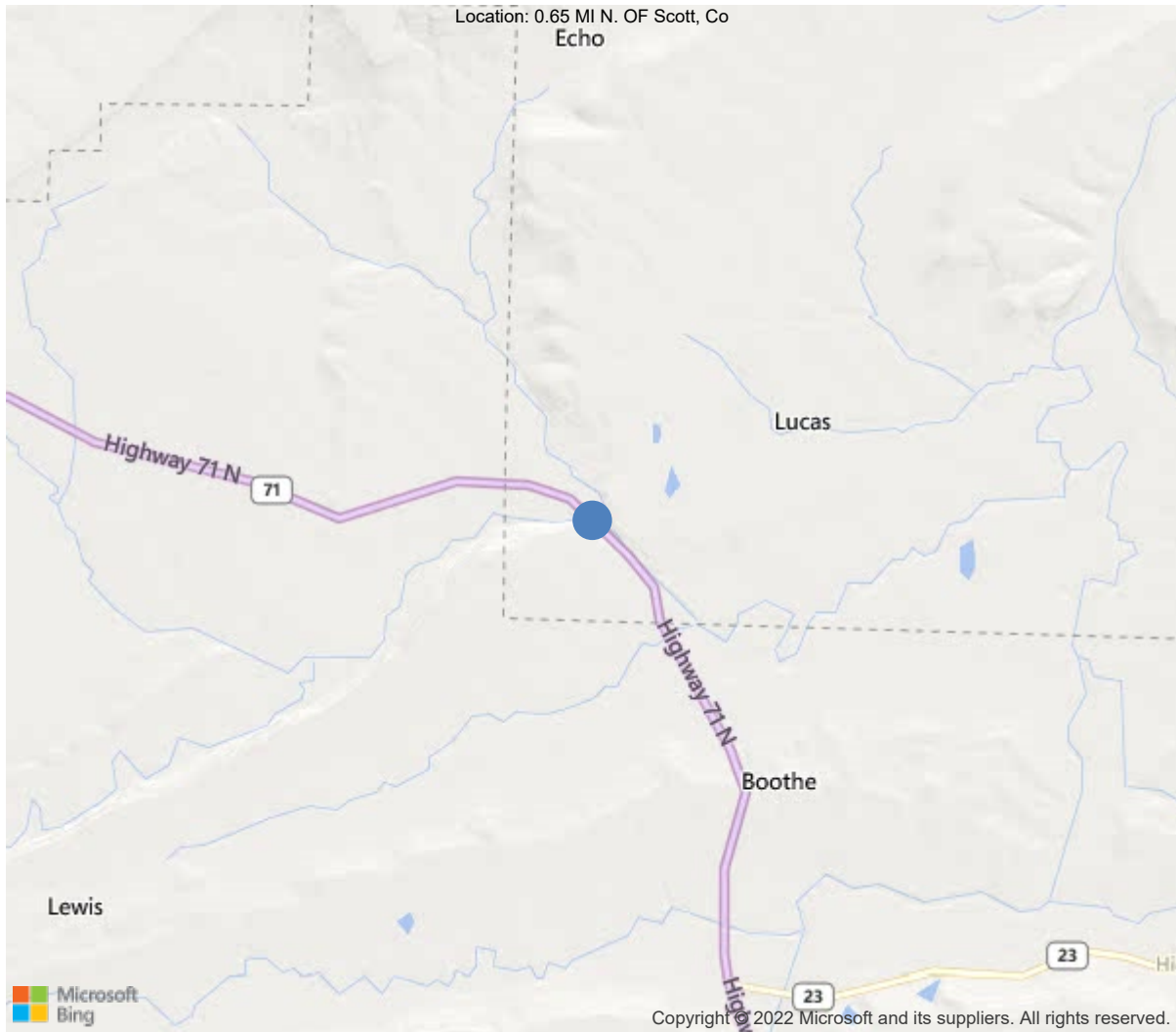
Latitude:35.06256, Longitude:-94.13393

Route:71 Section:11 Log:0.65

Arnold Road ID:42x71x11xA, Arnold Log mile:0.622

District 04, 83 - Logan County

Owner: 1 - State Highway Agency



35.06256, -94.13393





Asset #05864(Routine)

# US HWY 71-Logan Co over Little Petit Jean River

Location: 0.65 MI N. OF Scott, Co

Team Lead: Bob McEntyre, Inspection Date: 08/17/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05864
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	83 - Logan County
(4) Place Code	0
(6) Features Intersected	Little Petit Jean River
(7) Facility Carried	US HWY 71-Logan Co
(9) Location	0.65 MI N. OF Scott, Co
(11) Mile Point	0.65 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000071110
(16) Latitude	35.06256
(17) Longitude	-94.13393
(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	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	0 - None
AGE AND SERVICE	
(27) Year Built	1981
(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	4700
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	20 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	50 ft
(49) Structure Length	353 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	44 ft
(52) Deck Width Out to Out	46.8 ft
(32) Approach Roadway Width (W/Shoulders)	32.2 ft
(33) Bridge Median	0 - No median
(34) Skew	45 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	45.3 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	2 - The inventory route is on
(101) Parallel Structure	N - No parallel structure exis
(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	6
(59) Superstructure	5
(60) Substructure	5
(61) Channel & Channel Protection	8
(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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(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	8 - 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	6846
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/17/2022		
(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 #05864(Routine)

District: 04, County: 83

Team Lead: Bob McEntyre, Inspection Date: 08/17/2022

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**60 - Substructure (5)**

07/08/2020 - JCJ & TJL - Type 2 Underwater Inspection conducted this date.

Wading and probing during low and turbid water conditions along with visual observations indicate that all footings have cover with no apparent scour problems during this inspection.

ArDOT Drawing # 23403 General Notes state that footings shall be set a minimum of 1'-6" into Hard Gray Shale.

Soundings were taken along both sides of the structure during this inspection.

See Channel Profile documentation associated with this inspection for additional information.

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**A-15 - Late Reason (N/A)**

08/17/2022 - RSM - Inspection 1 month late due to heavy workload.

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**A-46 - Asset Files**

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**General Observation (False)**

08/17/2022 - RSM & SPC: Routine inspection conducted this date. See element notes for documentation.

07/08/2020 - JCJ & TJL - Routine Inspection and Type 2 Underwater Inspection conducted this date.

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Asset #05864(Routine)

US HWY 71-Logan Co over Little Petit Jean River

Location: 0.65 MI N. OF Scott, Co

Team Lead: Bob McEntyre, Inspection Date: 08/17/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	16394	8164	6924	1306	0
1080	Delamination/Spall/Patched Area	SF	124	0	118	6	0
1090	Exposed Rebar	SF	13	0	1	12	0
1120	Efflorescence/Rust Staining	SF	25	0	25	0	0
1130	Cracking (RC and Other)	SF	6656	0	5368	1288	0
1190	Abrasion/Wear (PSC/RC)	SF	1412	0	1412	0	0
(12) -The shoulders have dirt and debris accumulation that restricts the deck drains in the parapets. -Sealable transverse cracks at variable spacing. -Numerous cracks have been sealed in the past. -The deck has numerous delaminated and spalled areas adjacent to the expansion joint assemblies. -Span # 1 right exterior soffit has shallow spalling with delaminated areas adjacent to the drip groove visible from the undersurface of the deck. -Span # 4 has several moderate sized spalls in the driving lanes with temporary asphalt repairs. -Span # 6 left deck undersurface at bent # 6 has a shallow spall with exposed reinforcing steel. -There are numerous delaminated areas and shallow spalls with exposed reinforcing steel visible from the undersurface of the deck overhangs.  Approach Roadways: -Asphalt driving surface of the North approach roadway is breaking apart with potholes forming. -Joint sealant is deteriorated and missing in locations between abutment # 1 expansion joint assembly and South approach roadway.							
107	Steel Open Girder/Beam	LF	2100	1064	1000	36	0
1000	Corrosion	LF	1036	0	1000	36	0
515	Steel Protective Coating	SF	17008	4433	12000	400	175
3440	Effectiveness (Steel Protective Coatings)	LF	12575	0	12000	400	175
(107) -Superstructure has light freckled rust. -Beam ends have areas of active corrosion with flaking rust. Active corrosion and flaking rust was removed in numerous locations revealing section loss up to approximately 1/8" to base of webs and bottom flanges. The majority of the corrosion is limited to approximately 3' of the bearing area. -No visible cracks apparent during this inspection.							
205	Reinforced Concrete Column	EA	18	11	7	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	6	0	6	0	0
(205) -The columns in bents # 3 & 4 have light abrasion near the water elevation. -Bent # 6, base of column # 3 has vertical cracking along edge and a 16" x 10" delaminated area.							
215	Reinforced Concrete Abutment	LF	144	116	25	3	0
1090	Exposed Rebar	LF	1	0	0	1	0
1120	Efflorescence/Rust Staining	LF	5	0	5	0	0
1130	Cracking (RC and Other)	LF	22	0	20	2	0



Asset #05864(Routine)

US HWY 71-Logan Co over Little Petit Jean River

Location: 0.65 MI N. OF Scott, Co

Team Lead: Bob McEntyre, Inspection Date: 08/17/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(215) -Transverse cracking visible in the top of the back walls. -Vertical cracks in the back walls with efflorescence. -Abutment # 1 backwall, left side has a 14" spall with exposed reinforcing steel at the wing wall juncture.							
234	Reinforced Concrete Pier Cap	LF	360	105	58	189	8
1080	Delamination/Spall/Patched Area	LF	12	0	12	0	0
1090	Exposed Rebar	LF	4	0	2	2	0
1130	Cracking (RC and Other)	LF	239	0	44	187	8
(234) -Substructure caps for the intermediate bents have full and partial width horizontal cracks located approximately 4" to 8" below the top of cap. -Cracks range in size from hairline up to 1/2" during this inspection indicating active corrosion in the primary longitudinal reinforcing steel. -Caps have vertical cracks over the center columns and over the exterior faces of the exterior columns. -Bent # 5 cap, left end has soft and deteriorated concrete with the top of the cap spalled off. The spalled area reaches the bearings but no loss of bearing area apparent at this inspection. -Bent # 6 cap backface between columns # 2 and # 3 has map cracking and delaminated areas. The left side of cap has a 9' long delaminated area in the top and face of cap. The delaminated area appears to extend under bearing # 1 of span # 5. -Several of the caps have delaminated areas and spalls with exposed reinforcing steel.							
302	Compression Joint Seal	LF	506	0	107	399	0
2310	Leakage	LF	354	0	0	354	0
2320	Seal Adhesion	LF	32	0	0	32	0
2340	Seal Cracking	LF	100	0	100	0	0
2360	Adjacent Deck or Header	LF	20	0	7	13	0
(302) -Expansion joint seals are deteriorated with cracking, rips and tears visible in the seals. Expansion joint assemblies have corrosion with pack rust separating the seals from the assemblies. -Water stains on the cap indicate that joint seals are leaking. -There are a few transverse cracks adjacent to the deck joint seal anchorage. -Seal anchorage sounds secure when impacted by traffic at this inspection. -There are delaminated and spalled areas adjacent to expansion joints assemblies.							
311	Movable Bearing	EA	42	0	0	42	0
1000	Corrosion	EA	42	0	0	42	0
515	Steel Protective Coating	SF	42	0	0	0	42
3440	Effectiveness (Steel Protective Coatings)	EA	42	0	0	0	42
(311) -Bearings have active corrosion with flaking rust and heavy pack rust between the sole and masonry plates.							
313	Fixed Bearing	EA	42	0	0	42	0
1000	Corrosion	EA	42	0	0	42	0
515	Steel Protective Coating	SF	42	0	0	0	42
3440	Effectiveness (Steel Protective Coatings)	EA	42	0	0	0	42
(313) -Bearings have active corrosion with flaking rust and heavy pack rust between the sole and masonry plates.							
331	Reinforced Concrete Bridge Railing	LF	700	689	11	0	0



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1090	Exposed Rebar	LF	5	0	5	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
(331) -Concrete parapets have a few shallow spalls with exposed reinforcing steel.							

## US HWY 71-Logan Co over Little Petit Jean River

**Location: 0.65 MI N. OF Scott, Co**

**Team Lead:** Bob McEntyre, **Inspection Date:** 08/17/2022

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	16394	8164	6924	1306	0
1080	Delamination/Spall/Patched Area	SF	124	0	118	6	0
1090	Exposed Rebar	SF	13	0	1	12	0
1120	Efflorescence/Rust Staining	SF	25	0	25	0	0
1130	Cracking (RC and Other)	SF	6656	0	5368	1288	0
1190	Abrasion/Wear (PSC/RC)	SF	1412	0	1412	0	0
(12) -The shoulders have dirt and debris accumulation that restricts the deck drains in the parapets.							
-Sealable transverse cracks at variable spacing.							
-Numerous cracks have been sealed in the past.							
-The deck has numerous delaminated and spalled areas adjacent to the expansion joint assemblies.							
-Span # 1 right exterior soffit has shallow spalling with delaminated areas adjacent to the drip groove visible from the undersurface of the deck.							
-Span # 4 has several moderate sized spalls in the driving lanes with temporary asphalt repairs.							
-Span # 6 left deck undersurface at bent # 6 has a shallow spall with exposed reinforcing steel.							
-There are numerous delaminated areas and shallow spalls with exposed reinforcing steel visible from the undersurface of the deck overhangs.							
Approach Roadways:							
-Asphalt driving surface of the North approach roadway is breaking apart with potholes forming.							
-Joint sealant is deteriorated and missing in locations between abutment # 1 expansion joint assembly and South approach roadway.							



## US HWY 71-Logan Co over Little Petit Jean River

**Location: 0.65 MI N. OF Scott, Co**

**Team Lead:** Bob McEntyre, **Inspection Date:** 08/17/2022

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	2100	1064	1000	36	0
1000	Corrosion	LF	1036	0	1000	36	0
515	Steel Protective Coating	SF	17008	4433	12000	400	175
3440	Effectiveness (Steel Protective Coatings)	LF	12575	0	12000	400	175
<p>(107) -Superstructure has light freckled rust.</p> <p>-Beam ends have areas of active corrosion with flaking rust. Active corrosion and flaking rust was removed in numerous locations revealing section loss up to approximately 1/8" to base of webs and bottom flanges. The majority of the corrosion is limited to approximately 3' of the bearing area.</p> <p>-No visible cracks apparent during this inspection.</p>							



## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	18	11	7	0	0
1080	Delamination/Spall/Patched Area	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	6	0	6	0	0
(205) -The columns in bents # 3 & 4 have light abrasion near the water elevation. -Bent # 6, base of column # 3 has vertical cracking along edge and a 16" x 10" delaminated area.							
215	Reinforced Concrete Abutment	LF	144	116	25	3	0
1090	Exposed Rebar	LF	1	0	0	1	0
1120	Efflorescence/Rust Staining	LF	5	0	5	0	0
1130	Cracking (RC and Other)	LF	22	0	20	2	0
(215) -Transverse cracking visible in the top of the back walls. -Vertical cracks in the back walls with efflorescence. -Abutment # 1 backwall, left side has a 14" spall with exposed reinforcing steel at the wing wall juncture.							
234	Reinforced Concrete Pier Cap	LF	360	105	58	189	8
1080	Delamination/Spall/Patched Area	LF	12	0	12	0	0
1090	Exposed Rebar	LF	4	0	2	2	0
1130	Cracking (RC and Other)	LF	239	0	44	187	8
(234) -Substructure caps for the intermediate bents have full and partial width horizontal cracks located approximately 4" to 8" below the top of cap. -Cracks range in size from hairline up to 1/2" during this inspection indicating active corrosion in the primary longitudinal reinforcing steel. -Caps have vertical cracks over the center columns and over the exterior faces of the exterior columns. -Bent # 5 cap, left end has soft and deteriorated concrete with the top of the cap spalled off. The spalled area reaches the bearings but no loss of bearing area apparent at this inspection. -Bent # 6 cap backface between columns # 2 and # 3 has map cracking and delaminated areas. The left side of cap has a 9' long delaminated area in the top and face of cap. The delaminated area appears to extend under bearing # 1 of span # 5. -Several of the caps have delaminated areas and spalls with exposed reinforcing steel.							

### 60 - Substructure (5)

Comment: 07/08/2020 - JCJ & TJL - Type 2 Underwater Inspection conducted this date.

Wading and probing during low and turbid water conditions along with visual observations indicate that all footings have cover with no apparent scour problems during this inspection.

ArDOT Drawing # 23403 General Notes state that footings shall be set a minimum of 1'-6" into Hard Gray Shale.

Soundings were taken along both sides of the structure during this inspection.

See Channel Profile documentation associated with this inspection for additional information.





Asset #05864(Routine)

US HWY 71-Logan Co over Little Petit Jean River

Location: 0.65 MI N. OF Scott, Co

Team Lead: Bob McEntyre, Inspection Date: 08/17/2022

### Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation from the left side



Inventory 1 looking North



Abutment 2 bearing area



Abutment 2, bearing 6-Corrosion with pack rust between bearing plates





Abutment 2



Bent 7 bearing area



Span 6, beam 4 at bent 7-Corrosion with flaking rust



Aheadface of bent # 7 right





Abutment # 2



Bent # 5 cap, left end has soft and deteriorated concrete with spalling.



Bent # 5 cap, left end has soft and deteriorated concrete with spalling.



Left end of bent # 5





Bent # 6 column # 3



Span 6, beam 3 at bent 6-Corrosion/section loss



Bent # 6 cap backface, left side has 9' long delaminated area in the top and face of cap. The delaminated area appears to extend under bearing # 1 of span # 5



Bent # 6 cap backface, left side has 9' long delaminated area in the top and face of cap. The delaminated area appears to extend under bearing # 1 of span # 5





Bent 6-Heavy corrosion to bearing devices



Bent 7 bearing area



Bent # 5 cap, left end has soft and deteriorated concrete with spalling.



Bent # 5 cap, left end has soft and deteriorated concrete with spalling.





Bent # 6 cap left backface



Beam 6 over bent 5-Corrosion



Span # 5 right



Bent # 6 backface





Span 5, beam 2 at bent 5-Corrosion to web at expansion dam



Span 5, beam 2 at bent 5-Corrosion to beam end and bearing device



Bent 5 bearing area



Bent 5 aheadface between columns 1 and 2-Spalling with exposed reinforcing steel





Bent # 5 left



Aheadface of bent # 4 cap left side



Backface of bent # 5 cap, right side



Span # 4 left side





Bent # 4 column # 3



Aheadface of bent # 3 cap



Drift at bent # 3



Typical undersurface





Span # 2 bent # 3



Bent # 2



Span 2, beam 3 at bent 2-Corrosion



Bent 2 backface, left side-Delaminated area





Abutment 1



Abutment 1, bearing 1-Corrosion



Abutment 1, beam 3-Corrosion



Abutment 1, bearing 3-Corrosion





Abutment 1 bearing area



Span 1 undersurface



Span 1, bay 4-Transverse crack with efflorescence



Abutment # 1 backwall left side has a 14" spall with exposed reinforcing steel at the wing wall juncture.





Span # 4 has several moderate sized spalls with temporary asphalt repairs.



Driving surface of spans 6 and 7



Asphalt driving surface of the North approach roadway is breaking apart with potholes forming.



Asphalt driving surface of the North approach roadway is breaking apart with potholes forming.





Abutment 2



Bent 4 expansion joint-Seal deterioration



Span 3, left lane-Mapcracking



Span 3, left lane-Mapcracking





Span 3, left lane-Mapcracking



Span 3, left lane-Spalling adjacent to expansion joint assembly



Span 2, right lane at bent 3-Delaminated/spalled area adjacent to expansion joint assembly



Bent 3 expansion joint-Seal deterioration





Span 1, left lane-Mapcracking



Span 1, left lane-Mapcracking



Span 2, left shoulder-Delaminated area adjacent to bent expansion joint assembly



Cracking / delaminated area in left shoulder adjacent to bent expansion joint assembly





Span 1, left shoulder-Shallow delaminated areas



Span 1, left shoulder-Shallow delaminated area



Span 1, left lane-Transverse cracking



Span 1, left parapet-Shallow spall with exposed reinforcing steel





The shoulders have dirt and debris accumulation that restricts the deck drains in the parapets.



Driving surface



Abutment 1 expansion joint-Deterioration



Expansion joint assemblies have corrosion with pack rust causing seal adhesion failure. Abutment 1 expansion joint pictured





Joint sealant deteriorated and missing in locations between abutment # 1 expansion joint assembly and South approach roadway.



Abutment 1



**Asset #05864**(Routine)

**US HWY 71-Logan Co over Little Petit Jean River**

**Location: 0.65 MI N. OF Scott, Co**

**Team Lead: Bob McEntyre, Inspection Date: 08/17/2022**

#### **Maintenance Needs**

**Date Reported:** 07/09/2020  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Approach

---

#### **Deficiency Description**

North Approach Roadway:

The asphalt driving surface of the North approach roadway is breaking apart with potholes forming.

#### **Remarks**

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Asphalt driving surface of the North approach roadway is breaking apart with potholes forming.



Asphalt driving surface of the North approach roadway is breaking apart with potholes forming.



The asphalt driving surface of the North approach roadway is breaking apart with potholes forming.



**Date Reported:** 06/18/2014  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Element

---

### Deficiency Description

Deck -  
The driving surface of the deck has numerous areas of unsealed mapcracking in all spans.

### Remarks

08/17/2022 - RSM - Created a new Maintenance Need to address spalled / delaminated areas separate from sealable deck cracking.  
07/08/2020 - JCJ & TJL - Deterioration continues. Added Delaminated areas and spalls to the maintenance description.

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Span # 3, left lane-Mapcracking.



The driving surface of the deck has numerous areas of unsealed mapcracking in all spans.



Span # 1, left lane-Mapcracking.



The driving surface of the deck has numerous areas of unsealed mapcracking in all spans.





Bent # 3 expansion joint.

**Date Reported:** 06/27/2012  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Element

### Deficiency Description

#### Substructure -

Substructure caps have concrete spalls, delaminated areas and horizontal cracks that appear to have been caused by water leakage through the expansion joints. The horizontal cracks are located approximately 4" to 6" below the top of caps. Bent # 5 cap, left end has soft and deteriorated concrete with the top of the cap spalled off outside the bearing area. The spalled area reaches the bearings but no loss of bearing area apparent at this inspection.

Bent # 6 cap backface between columns # 2 and # 3 has map cracking and delaminated areas. The left side of cap has a 9' long delaminated area in the top and face of cap. The delaminated area appears to extend under bearing # 1 of span # 5.

### Remarks

07/08/2020 - JCJ & TJL - Substructure deterioration continues. Bent # 6 horizontal cracking is 1/2" in width. Raised to C Priority.



Bent # 5 cap, left end has soft and deteriorated concrete with the top of the cap spalled off outside the bearing area. The spalled area reaches the bearings but no loss of bearing area apparent at this inspection.



Bent # 5 cap, left end has soft and deteriorated concrete with the top of the cap spalled off outside the bearing area. The spalled area reaches the bearings but no loss of bearing area apparent at this inspection.





Bent # 5 cap, left end has soft and deteriorated concrete with the top of the cap spalled off outside the bearing area. The spalled area reaches the bearings but no loss of bearing area apparent at this inspection.



Bent # 6 cap backface, left side has 9' long delaminated area in the top and face of cap. The delaminated area appears to extend under bearing # 1 of span # 5



Horizontal cracking in the a right side of bent # 3.  
Back face.



Left end of bent # 5 cap.





Left end of bent # 6 cap. Back face. 1/2" wide crack.

**Date Reported:** 06/27/2012  
**Priority:** D- Routine  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Element

---

### Deficiency Description

#### Expansion Joints -

Expansion joint seals are deteriorated with cracking, rips and tears visible in the seals. Expansion joint assemblies have corrosion with pack rust separating the seals from the assemblies.

Water stains and significant deterioration of the bent caps indicate that the deck joint seals are leaking.

### Remarks

07/08/2020 - JCJ & TJL - Added significant deterioration of the bent caps to the Maintenance Need.

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Bent # 3 expansion joint-Seal deterioration.



Expansion joint assemblies have corrosion with pack rust separating the seals from the assemblies. Abutment # 1 expansion joint pictured.





Water stains in the intermediate bents from water leakage through the deck joints.



Bent # 7 joint seal condition.



Span # 2 expansion joint seal. Typical.



**Date Reported:** 06/27/2012  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Element

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**Deficiency Description**

Bearings -  
Bearings have active corrosion with flaking rust and heavy pack rust between the sole and masonry plates.

**Remarks**

08/17/2022 - RSM - Changed priority from "D" to "C" due to continued deterioration with pack rust restricting bearing movement.

07/08/2020 - JCJ & TJL - Added pack rust to the Maintenance Need.

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Abutment # 2, bearing # 6-Corrosion with pack rust between bearing plates.



Abutment # 1, bearing # 1-Corrosion.



Abutment # 1, bearing # 3-Corrosion.



Bearings have active corrosion with flaking rust and heavy pack rust between the sole and masonry plates.





Bearings have active corrosion with flaking rust and heavy pack rust between the sole and masonry plates.

**Date Reported:** 06/27/2012  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Monitor  
**Component:** Element

---

### Deficiency Description

#### Superstructure -

Beams have areas of active corrosion with flaking rust at the ends of beams where the expansion joint seals leak water on the superstructure. There is up to approximately 1/8" section loss to the base of webs and bottom flanges. The paint system is developing light freckled rust in numerous areas.

### Remarks

07/08/2020 - JCJ & TJL - Deterioration continues. Added additional documentation concerning the progression of the active corrosion. Changed the Maintenance Need to C priority.

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Span # 6, beam # 3 at bent # 6-Corrosion/section loss.



Span # 5, beam # 2 at bent # 5-Corrosion to web at expansion dam.





Abutment # 1, beam # 3-Corrosion.



Active corrosion at the beam ends from water leakage through the expansion joints.



Freckled rust typical on the paint system.



Beams have areas of active corrosion with flaking rust at the ends of beams where the expansion joint seals leak water on the superstructure. There is up to approximately 1/8" section loss to the base of webs and bottom flanges.





Beams have areas of active corrosion with flaking rust at the ends of beams where the expansion joint seals leak water on the superstructure. There is up to approximately 1/8" section loss to the base of webs and bottom flanges.

**Date Reported:** 08/22/2022  
**Priority:** (Inactive) (Inactive) G - General/ Preventive maintenance  
**Type of Work:** (Inactive) (Inactive) 1 - Clean  
**Status:** Open  
**Component:** Element

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**Deficiency Description**

Deck -  
The shoulders have dirt and debris accumulation that restricts the deck drains in the parapets.

**Remarks**

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The shoulders have dirt and debris accumulation that restricts the deck drains in the parapets.



**Date Reported:** 08/22/2022  
**Priority:** C - Important  
**Type of Work:** Repair (General)  
**Status:** Open  
**Component:** Element

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### Deficiency Description

#### Deck -

The deck has numerous delaminated and spalled areas adjacent to the expansion joint assemblies. The shoulders have delaminated areas visible in several locations.

Span # 4 has several moderate sized spalls in the driving lanes with temporary asphalt repairs.

### Remarks

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Span # 4 has several moderate sized spalls with temporary asphalt repairs.



Span # 3, left lane-Spalling adjacent to expansion joint assembly.



Span # 2, right lane at bent # 3-  
Delaminated/spalled area adjacent to expansion  
joint assembly.



Cracking / delaminated area in left shoulder  
adjacent to bent # 2 expansion joint assembly.





**Asset #05864**(Routine)

**US HWY 71-Logan Co over Little Petit Jean River**

**Location: 0.65 MI N. OF Scott, Co**

**Team Lead: Bob McEntyre, Inspection Date: 08/17/2022**



Span # 1, left shoulder-Shallow delaminated areas.



**Asset #05864(Routine)**

**US HWY 71-Logan Co over Little Petit Jean River**

**Location: 0.65 MI N. OF Scott, Co**

**Team Lead: Bob McEntyre, Inspection Date: 08/17/2022**

## **Routine Maintenance**

Check Box Maintenance Items

<b>Data Field</b>	<b>Value</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 - Hydo and LMC Advised	





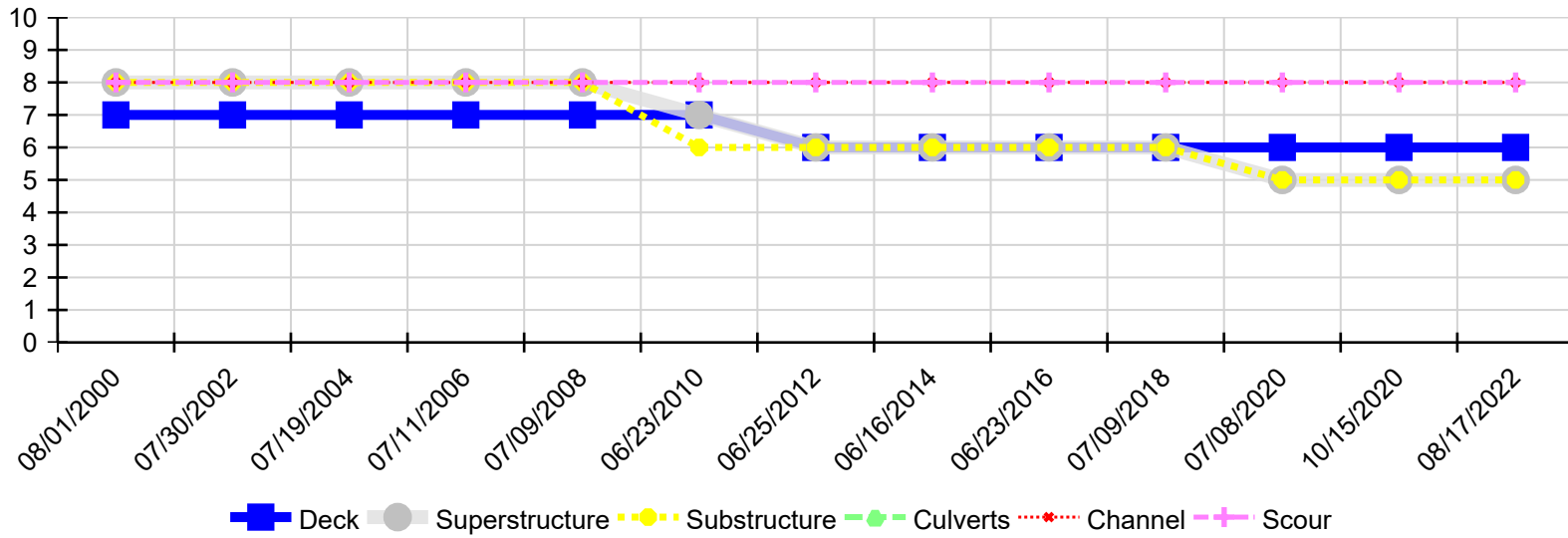
Asset #05864(Routine)

US HWY 71-Logan Co over Little Petit Jean River

Location: 0.65 MI N. OF Scott, Co

Team Lead: Bob McEntyre, Inspection Date: 08/17/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/17/2022	6	5	5	N	8	8
10/15/2020	6	5	5	N	8	8
07/08/2020	6	5	5	N	8	8
07/09/2018	6	6	6	N	8	8
06/23/2016	6	6	6	N	8	8
06/16/2014	6	6	6	N	8	8
06/25/2012	6	6	6	N	8	8
06/23/2010	7	7	6	N	8	8
07/09/2008	7	8	8	N	8	8
07/11/2006	7	8	8	N	8	8
07/19/2004	7	8	8	N	8	8
07/30/2002	7	8	8	N	8	8
08/01/2000	7	8	8	N	8	8