



Latitude:36.25912, Longitude:-90.14061

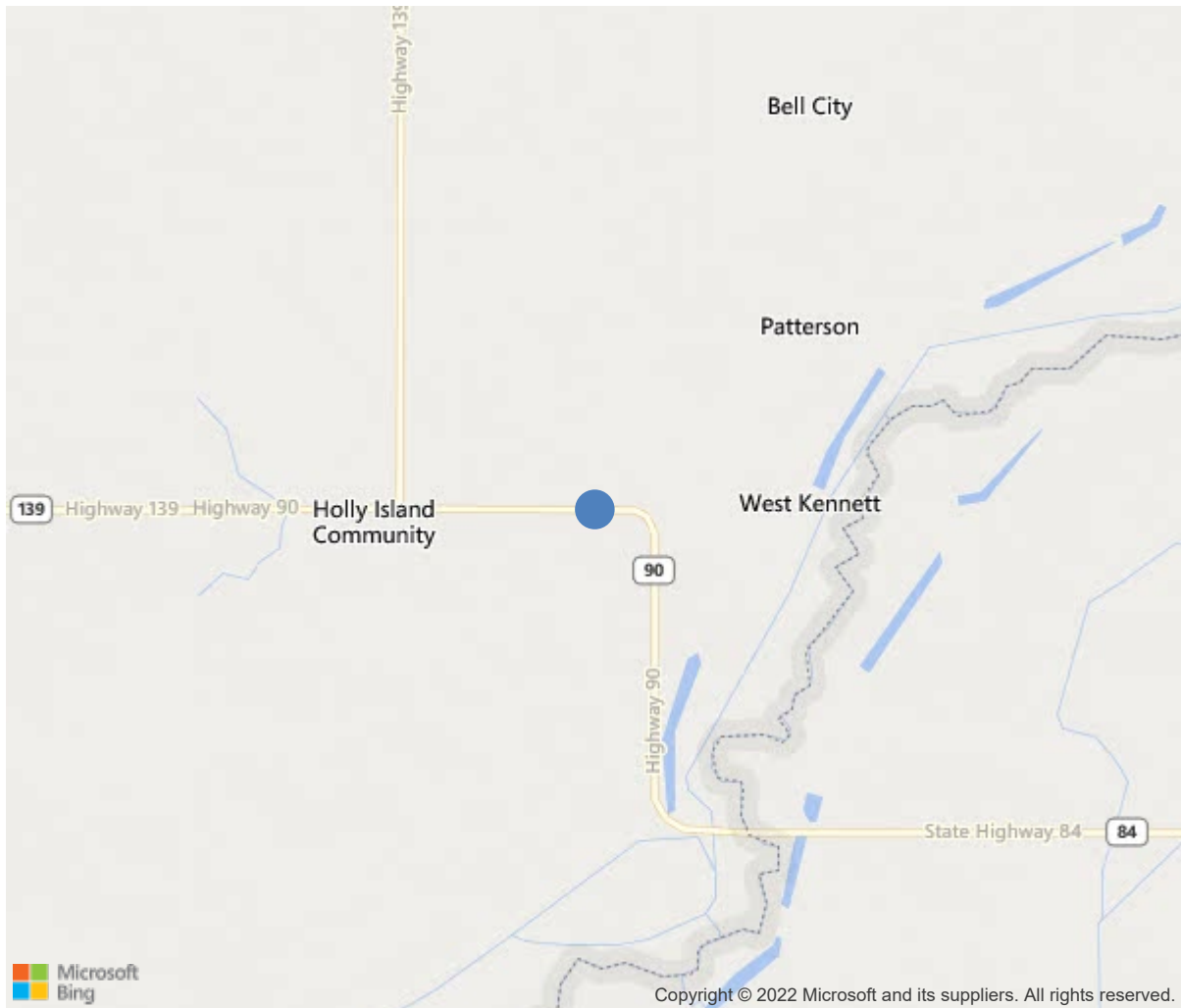
Route:90 Section:01 Log:2.22

Arnold Road ID:11x90x1xA, Arnold Log mile:2.184

District 10, Clay County

Owner: 1-State Highway Agency

2.22 MI NW ST. FRANCES RI



36.25912, -90.14061



**Bridge #03664(Routine)**  
**SH 90- 01- LM 2.22 over MAYO DITCH**  
**Location: 2.22 MI NW ST. FRANCES RI**

**Team Lead: Tim Myrick Inspection Date: November 11, 2020**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03664
(5) Inventory Route	90
(2) Highway Agency District	10
(3) County Code	21-Clay County, Arkansas
(4) Place Code	0
(6) Features Intersected	MAYO DITCH
(7) Facility Carried	SH 90- 01- LM 2.22
(9) Location	2.22 MI NW ST. FRANCES RI
(11) Mile Point	2.22 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000090010
(16) Latitude	36.2591216935445
(17) Longitude	-90.1406124490738
(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	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	1963
(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	2700
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	9 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	125 ft
(50) Curb or Sidewalk Width	
Left	2.7 ft
Right	2.7 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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	29.5 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	6-Rural Minor Arterial
(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	6
(59) Superstructure	6
(60) Substructure	5
(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	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	5
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) 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	3377
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			11/2020
(91) Frequency			24 Months
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* 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.			



Bridge #03664(Routine)

SH 90- 01- LM 2.22 over MAYO DITCH

Location: 2.22 MI NW ST. FRANCES RI

Team Lead: Tim Myrick, Inspection Date: November 11, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	4188	2599	0	1573	16
1080	Delamination/Spall/Patched Area	SF	27	0	0	11	16
1090	Exposed Rebar	SF	12	0	0	12	0
1120	Efflorescence/Rust Staining	SF	625	0	0	625	0
1130	Cracking (RC and Other)	SF	925	0	0	925	0
510	Wearing Surfaces	SF	3500	2372	0	1112	16
3220	Crack (Wearing Surface)	SF	862	0	0	862	0
3210	Delam/Spall/Patched Area/Pothole	SF	266	0	0	250	16
215	Reinforced Concrete Abutment	LF	75	73	0	2	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1090	Exposed Rebar	LF	1	0	0	1	0
227	Reinforced Concrete Pile	EA	20	20	0	0	0
234	Reinforced Concrete Pier Cap	LF	122	51	15	56	0
1080	Delamination/Spall/Patched Area	LF	18	0	0	18	0
1090	Exposed Rebar	LF	15	0	0	15	0
1120	Efflorescence/Rust Staining	LF	9	0	0	9	0
1130	Cracking (RC and Other)	LF	29	0	15	14	0
330	Metal Bridge Railing	LF	250	0	250	0	0
1000	Corrosion	LF	222	0	222	0	0
7000	Damage	LF	28	0	28	0	0









s3 left soffit



s3 left

## Maintenance Needs

**Date Reported:** 12/04/2012  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** 38 - RC Slab

---

## Deficiency Description

4ft. left and right side of Bottom of Slab Span 1 has several longitudinal cracks with efflorescence, rust stains, and salt cycles.

## Remarks

---





**Date Reported:** 12/04/2012  
**Priority:** D- Routine  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** 38 - RC Slab

---

### Deficiency Description

Ends of Concrete Slabs over Bents 2, 3, 4, & 5 has some diagonal cracking, efflorescence, deterioration, and some rebar exposed, see 2016 of Bent 2 for typical.

Bottom of Slabs has some cracking with efflorescence, some delaminated areas and some spalled areas with rebar exposed.

### Remarks

---





**Date Reported:** 12/04/2012  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** 38 - RC Slab

---

### Deficiency Description

Left side of Bottom of Concrete Slab Span 3 has a 3ft. x 4ft. honeycomb area with rebar exposed, some section loss to rebar, sonovoid is open.

Spall on bottom of deck is below patch on deck.

### Remarks

---



Span 3 LT Side soffit

**Team Lead:** Tim Myrick **Inspection Date:** November 11, 2020

**Date Reported:** 12/04/2012  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** 510 - 38 - RC Slab

---

**Deficiency Description**

Top of Concrete Slab with Asphalt Overlay has several seal able cracks and Span 3 has a 4sqft. asphalt patch.

**Remarks**

---



Deck/wearing surface

**Date Reported:** 12/04/2012  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** Substructure

---

**Deficiency Description**

Bottom of Cap Bent 3 has several small shelled out areas with rebar exposed, inadequate coverage due to steel placement.

**Remarks**

---





**Date Reported:** 11/26/2014  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** Substructure

---

**Deficiency Description**

Left end of Caps Bents 2, 4, & 5 has deterioration with rebar exposed.

**Remarks**

---



**Team Lead:** Tim Myrick **Inspection Date:** November 11, 2020

**Date Reported:** 11/26/2014  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:** Substructure

---

#### Deficiency Description

Majority of Caps have cracking, several have small spalls and/or shelled out areas, mostly on ends of caps.  
Majority of face of Caps has some small shelled out areas with rebar exposed due to inadequate steel coverage.

#### Remarks

---



bent 2 cap span 2 side



Bridge #03664(Routine)  
SH 90- 01- LM 2.22 over MAYO DITCH  
Location: 2.22 MI NW ST. FRANCES RI

Team Lead: Tim Myrick Inspection Date: November 11, 2020

Date Reported: 11/14/2016  
Priority: G - General/ Preventive maintenance  
Type of Work: Repair  
Status: Monitor  
Component: Deck

---

#### Deficiency Description

Concrete Curbs have some abrasive wear and some deterioration especially at Bent 2 with rebar exposed.

#### Remarks

---





Bridge #03664(Routine)  
SH 90- 01- LM 2.22 over MAYO DITCH  
Location: 2.22 MI NW ST. FRANCES RI

Team Lead: Tim Myrick Inspection Date: November 11, 2020

Date Reported: 11/14/2016  
Priority: G - General/ Preventive maintenance  
Type of Work: Repair  
Status: Monitor  
Component: 330 - Metal Bridge Railing

---

#### Deficiency Description

Bridge Railing has 25% paint deterioration with some rust.  
28 Bridge Railing Posts have some deterioration with some of them having rebar exposed.

#### Remarks

---



Bridge #03664(Routine)

SH 90- 01- LM 2.22 over MAYO DITCH

Location: 2.22 MI NW ST. FRANCES RI

Team Lead: Tim Myrick Inspection Date: November 11, 2020

## Inspection Comments

-

---

### Deck Notes

Approach roadway west end pavement has minor settlement with asphalt patches.

Bridge Railing has 25% paint deterioration with some rust.

28 Bridge Railing Posts have some deterioration with some of them having rebar exposed.

1 approach rail post on NE corner is cracked.

Concrete Curbs have some abrasive wear and some deterioration especially at Bent 2 with rebar exposed.\

Top of Concrete Slab with Asphalt Overlay has several moderate width cracks.

Span 3 has a 4 sqft. asphalt patch with partial failure.

Asphalt overlay has some delamination in gutter line.

---

### Superstructure Notes

Ends of Concrete Slabs over Bents 2, 3, 4, & 5 have some diagonal cracking, efflorescence, deterioration, and some exposed rebar.

Bottom of Slabs have some cracking with efflorescence, some delaminated areas and some spalled areas with exposed rebar.

4ft. left and right side of Bottom of Slab Span 1 has several longitudinal cracks with efflorescence, rust stains.

Left side of Bottom of Concrete Slab Span 3 has a 3ft. x 4ft. honeycomb area with rebar exposed, some section loss to rebar, sonovoid is open.

Spall on bottom of deck is below patch on deck.

---

### Substructure Notes

Majority of Caps have cracking, with rust stains & delaminated areas, several have small spalls, mostly on ends of caps.

Left end of Caps Bents 2, 4, & 5 have deterioration with rebar exposed rebar.

Bottom of Bent 3 cap has several small spalled areas with exposed rebar, inadequate coverage due to steel placement.