



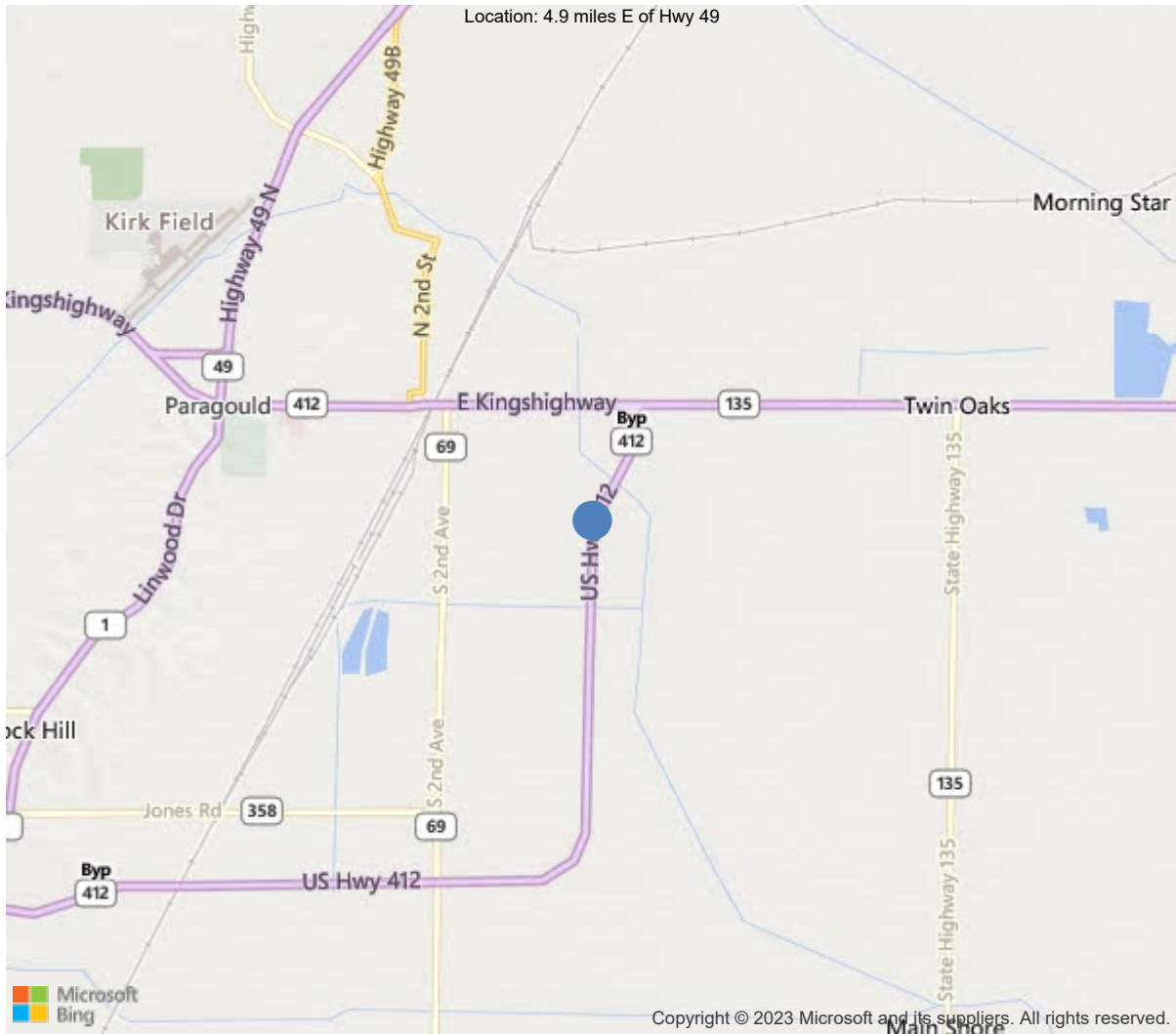
Latitude:36.04434, Longitude:-90.47240

Route:412 Section:09 Log:4.709

Arnold Road ID:28x412x9xA, Arnold Log mile:4.709

District 10, 55 - Greene County

Owner: 1 - State Highway Agency



36.04434, -90.47240





Asset #A7224(Routine)

## US Hwy 412 Spur over Eight Mile Creek

Location: 4.9 miles E of Hwy 49

Team Lead: Tim Myrick, Inspection Date: 10/20/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	A7224
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	55 - Greene County
(4) Place Code	0
(6) Features Intersected	Eight Mile Creek
(7) Facility Carried	US Hwy 412 Spur
(9) Location	4.9 miles E of Hwy 49
(11) Mile Point	4.709 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.04434
(17) Longitude	-90.4724
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4 - Steel continuous
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	24
(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	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2014
(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	3799
(30) Year of ADT	2018
(109) Truck ADT	11 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	63 ft
(49) Structure Length	1270 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	38.1 ft
(52) Deck Width Out to Out	41.2 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 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	39 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	14 - Urban Other Principal Art
(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	4 - Historical significance is
CONDITION	
(58) Deck	8
(59) Superstructure	9
(60) Substructure	8
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	A - HL93
(63) Operating Rating Method	3
(64) Operating Rating	
Type	3 - Load and Resistance Factor(LRFR)
Rating	60
(65) Inventory Rating Method	3 - Load and Resistance Factor
(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	9
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	9
(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	8700
(115) Year of Future ADT	2031

INSPECTIONS *			
(90) Inspection Date	10/20/2022		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
<p>* 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.</p>			



## General Observation

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

Approach slabs have a few moderate width unsealed cracks.  
Bridge rails have several minor cracks with some efflorescence.  
Deck has a few unsealed transverse and longitudinal cracks.  
Joint seals have a few areas beginning to lose adhesion & some minor damage..  
Overhangs have a few transverse cracks with efflorescence.

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### 59 - Superstructure (9 - EXCELLENT CONDITION)

Weathering steel superstructure members have no noteworthy deficiencies.

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### 60 - Substructure (8 - VERY GOOD CONDITION - no problems noted.)

Backwall portion of abutments have a few moderate width cracks.  
Concrete pile encasements have a few minor cracks.  
Bent 12 pile 2, bent 19 pile 1 & bent 20 pile 1 have some minor surface rust.

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**61 - Channel/Channel Protection** (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)  
Moderate sized brush & small trees & some large logs under bridge.  
Minor erosion at bents 22 & 23.

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## A-46 - Asset Files

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Asset #A7224(Routine)

US Hwy 412 Spur over Eight Mile Creek

Location: 4.9 miles E of Hwy 49

Team Lead: Tim Myrick, Inspection Date: 10/20/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	52286	50136	1930	220	0
1120	Efflorescence/Rust Staining	SF	144	0	0	144	0
1130	Cracking (RC and Other)	SF	2006	0	1930	76	0
107	Steel Open Girder/Beam	LF	6350	6350	0	0	0
515	Steel Protective Coating	SF	63036	63036	0	0	0
205	Reinforced Concrete Column	EA	4	4	0	0	0
215	Reinforced Concrete Abutment	LF	126	106	20	0	0
1130	Cracking (RC and Other)	LF	20	0	20	0	0
225	Steel Pile	EA	105	105	0	0	0
515	Steel Protective Coating	SF	2680	2642	0	38	0
3420	Peeling/Bubbling/Cracking	EA	38	0	0	38	0
234	Reinforced Concrete Pier Cap	LF	920	920	0	0	0
301	Pourable Joint Seal	LF	304	245	57	2	0
2320	Seal Adhesion	LF	57	0	57	0	0
2330	Seal Damage	LF	2	0	0	2	0
310	Elastomeric Bearing	EA	155	155	0	0	0
321	Reinforced Concrete Approach Slab	SF	2782	2589	168	25	0
1130	Cracking (RC and Other)	SF	193	0	168	25	0
331	Reinforced Concrete Bridge Railing	LF	2540	1813	701	26	0
1080	Delamination/Spall/Patched Area	LF	1	0	0	1	0
1120	Efflorescence/Rust Staining	LF	25	0	0	25	0
1130	Cracking (RC and Other)	LF	701	0	701	0	0



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US Hwy 412 Spur over Eight Mile Creek

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Team Lead: Tim Myrick, Inspection Date: 10/20/2022

## Deck

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12	Reinforced Concrete Deck	SF	52286	50136	1930	220	0
1120	Efflorescence/Rust Staining	SF	144	0	0	144	0
1130	Cracking (RC and Other)	SF	2006	0	1930	76	0

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

Comment: Approach slabs have a few moderate width unsealed cracks.

Bridge rails have several minor cracks with some efflorescence.

Deck has a few unsealed transverse and longitudinal cracks.

Joint seals have a few areas beginning to lose adhesion & some minor damage..

Overhangs have a few transverse cracks with efflorescence.



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US Hwy 412 Spur over Eight Mile Creek

Location: 4.9 miles E of Hwy 49

Team Lead: Tim Myrick, Inspection Date: 10/20/2022

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	6350	6350	0	0	0
515	Steel Protective Coating	SF	63036	63036	0	0	0

### 59 - Superstructure (9 - EXCELLENT CONDITION)

Comment: Weathering steel superstructure members have no noteworthy deficiencies.

**Substructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	4	4	0	0	0
215	Reinforced Concrete Abutment	LF	126	106	20	0	0
1130	Cracking (RC and Other)	LF	20	0	20	0	0
225	Steel Pile	EA	105	105	0	0	0
515	Steel Protective Coating	SF	2680	2642	0	38	0
3420	Peeling/Bubbling/Cracking	EA	38	0	0	38	0
234	Reinforced Concrete Pier Cap	LF	920	920	0	0	0

**60 - Substructure** (8 - VERY GOOD CONDITION - no problems noted.)

Comment: Backwall portion of abutments have a few moderate width cracks.

Concrete pile encasements have a few minor cracks.

Bent 12 pile 2, bent 19 pile 1 & bent 20 pile 1 have some minor surface rust.

**61 - Channel/Channel Protection** (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

Comment: Moderate sized brush & small trees & some large logs under bridge.

Minor erosion at bents 22 & 23.





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US Hwy 412 Spur over Eight Mile Creek

Location: 4.9 miles E of Hwy 49

Team Lead: Tim Myrick, Inspection Date: 10/20/2022

## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4





**Asset #A7224**(Routine)

**US Hwy 412 Spur over Eight Mile Creek**

**Location: 4.9 miles E of Hwy 49**

**Team Lead:** Tim Myrick, **Inspection Date:** 10/20/2022

**Maintenance Needs**

**Date Reported:** 10/08/2018

**Priority:** (Inactive) (Inactive) G - General/  
Preventive maintenance

**Status:** Monitor

**Type of Work:** Repair (General)

**Component:** Deck

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**Deficiency Description**

Deck has a few unsealed transverse and longitudinal cracks.

**Remarks**

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Asset #A7224(Routine)

US Hwy 412 Spur over Eight Mile Creek

Location: 4.9 miles E of Hwy 49

Team Lead: Tim Myrick, Inspection Date: 10/20/2022

#### Maintenance Needs

Date Reported: 10/27/2020

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 1 - Clean

Status: Monitor

Component: Channel

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#### Deficiency Description

Moderate sized brush & small trees & some large logs under bridge.  
Minor erosion at bents 22 & 23.

#### Remarks

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**Asset #A7224**(Routine)

**US Hwy 412 Spur over Eight Mile Creek**

**Location: 4.9 miles E of Hwy 49**

**Team Lead: Tim Myrick, Inspection Date: 10/20/2022**





Asset #A7224(Routine)

US Hwy 412 Spur over Eight Mile Creek

Location: 4.9 miles E of Hwy 49

Team Lead: Tim Myrick, Inspection Date: 10/20/2022

## Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
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	

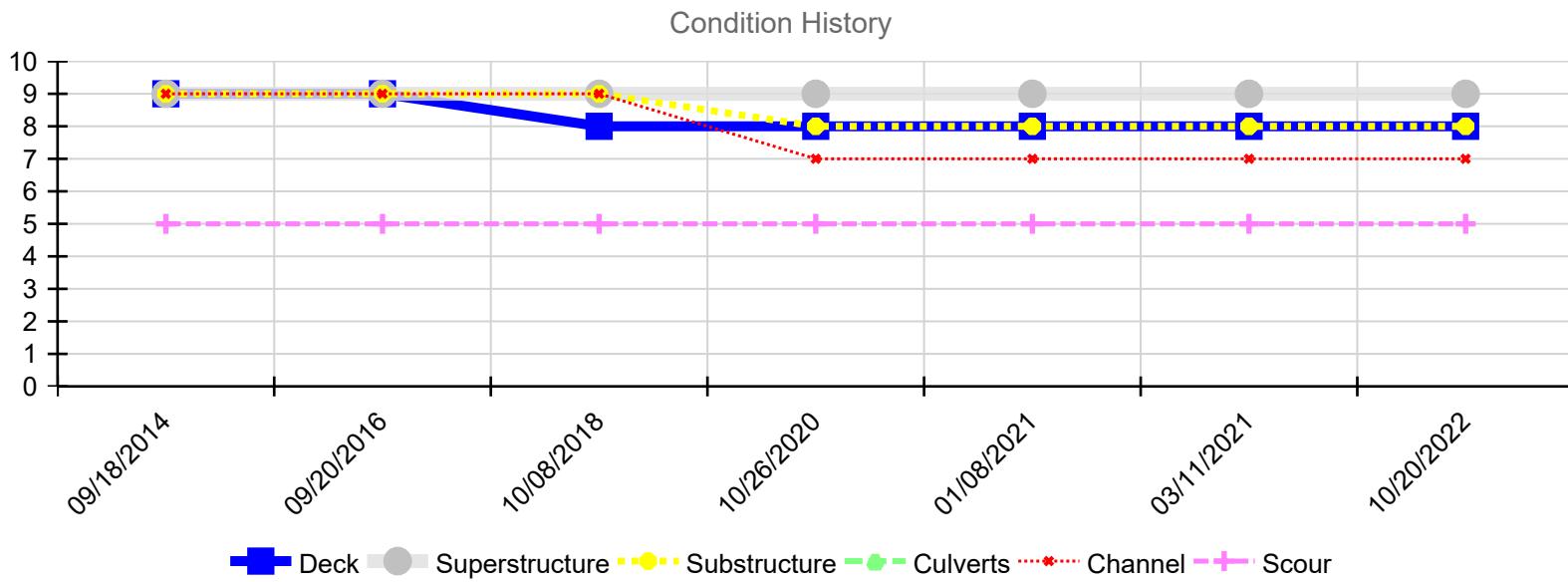


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US Hwy 412 Spur over Eight Mile Creek

Location: 4.9 miles E of Hwy 49

Team Lead: Tim Myrick, Inspection Date: 10/20/2022



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/20/2022	8	9	8	N	7	5
03/11/2021	8	9	8	N	7	5
01/08/2021	8	9	8	N	7	5
10/26/2020	8	9	8	N	7	5
10/08/2018	8	9	9	N	9	5
09/20/2016	9	9	9	N	9	5
09/18/2014	9	9	9	N	9	5