



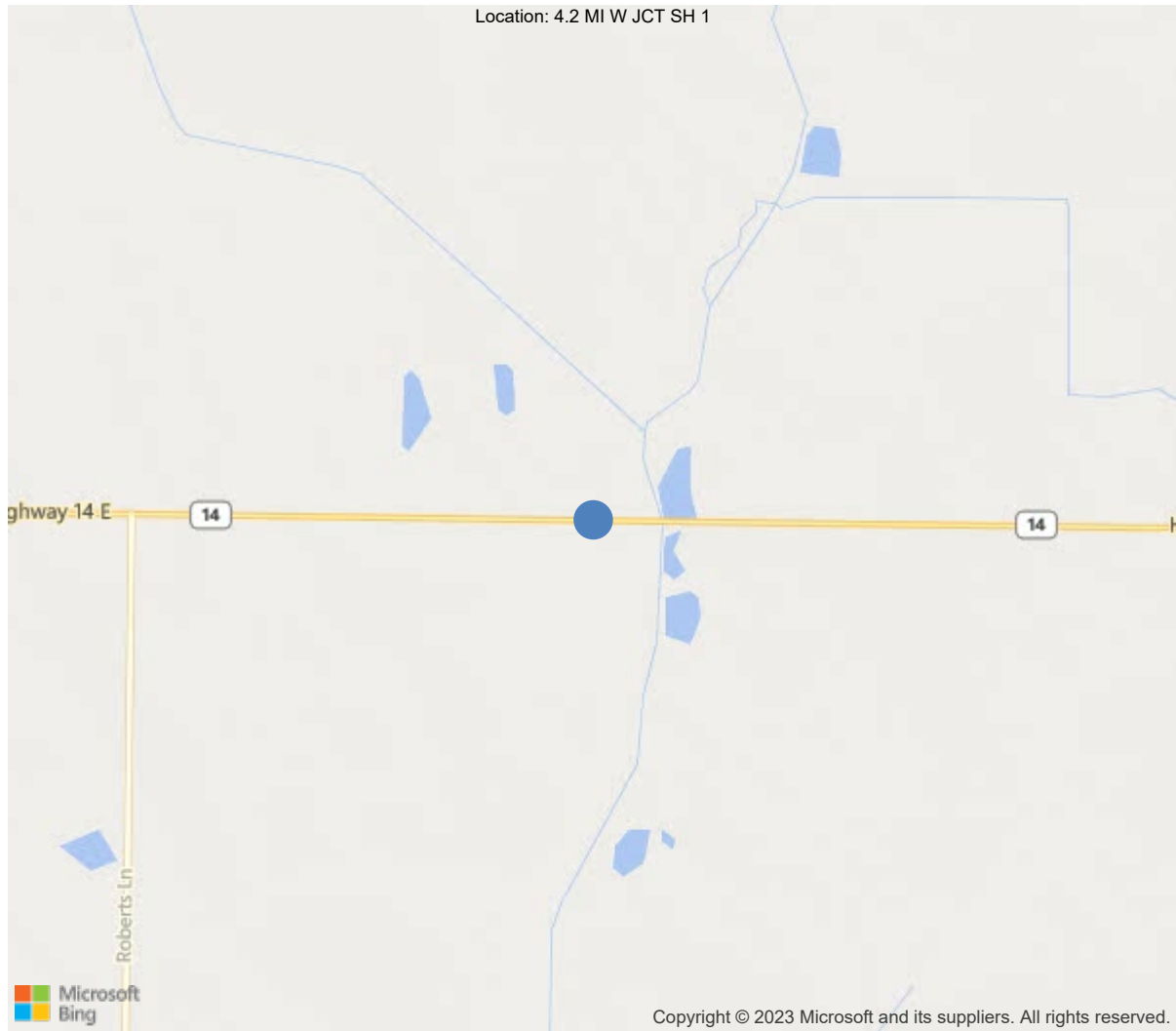
Latitude:35.56464, Longitude:-90.79937

Route:14 Section:13 Log:13.53

Arnold Road ID:56x14x13xA, Arnold Log mile:13.519

District 10, 111 - Poinsett County

Owner: 1 - State Highway Agency



35.56464, -90.79937



Asset #00582(Routine)

SH 14-13- LM 13.53 over LANGUILLE RELIEF

Location: 4.2 MI W JCT SH 1

Team Lead: James Adams, Inspection Date: 01/16/2020

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	00582
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	111 - Poinsett County
(4) Place Code	0
(6) Features Intersected	LANGUILLE RELIEF
(7) Facility Carried	SH 14-13- LM 13.53
(9) Location	4.2 MI W JCT SH 1
(11) Mile Point	13.53 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000014130
(16) Latitude	35.56464
(17) Longitude	-90.79937
(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	3
(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	1961
(106) Year Reconstructed	0
(42) Type of Service	19
On	1 - Highway
Under	9 - Relief for waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	2900
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	11 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	75 ft
(50) Curb or Sidewalk Width	
Left	1.3 ft
Right	1.3 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	31.5 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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	30.8 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	5 - None present but re-evalua
(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
(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	0 - The inventory route is not
(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	7
(59) Superstructure	7
(60) Substructure	6
(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	42
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	25
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(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	2856
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	01/24/2022		
(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>			





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**58 - Deck** (7 - GOOD CONDITION - some minor problems.)

Asphalt wearing surface has transverse cracks & spalls over joints.  
Wearing surface has delamination in gutter line detected by sounding.

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

Soffit has a few cracks with some efflorescence.  
Span 1 slab has 4 ft. of diagonal cracking with efflorescence at right corner near bent 1.  
Soffit has a few small delaminated areas along edges.

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**60 - Substructure** (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Bents 2 and 3 caps have some deterioration on left end, and a few minor spalls with exposed rebar.  
Bent 2 cap span 2 side has 6 ft. of cracking & delamination on face of cap.  
Bent 3 cap span 3 side has 12 ft. of horizontal cracking 8 in. from top of cap. Cap has a 3 ft. area of cracking & delamination.  
Bent 3 pile 1 has 3 ft. cracked at the top of pile.  
Bent 3 pile 2 has a small spall with exposed rebar at top of pile.  
Bent 3 pile 5 has vertical cracks in top 3 ft. of pile.

Vegetation in channel & on banks.

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**A-46 - Asset Files**

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Asset #00582(Routine)

SH 14-13- LM 13.53 over LANGUILLE RELIEF

Location: 4.2 MI W JCT SH 1

Team Lead: James Adams, Inspection Date: 01/16/2020

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	2363	2199	125	37	2
1080	Delamination/Spall/Patched Area	SF	33	0	0	33	0
1090	Exposed Rebar	SF	2	0	0	0	2
1120	Efflorescence/Rust Staining	SF	79	0	75	4	0
1130	Cracking (RC and Other)	SF	50	0	50	0	0
510	Wearing Surfaces	SF	2100	1580	520	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	183	0	183	0	0
3220	Crack (Wearing Surface)	SF	337	0	337	0	0
227	Reinforced Concrete Pile	EA	10	7	1	2	0
1090	Exposed Rebar	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	2	0	1	1	0
234	Reinforced Concrete Pier Cap	LF	146	110	19	17	0
1080	Delamination/Spall/Patched Area	LF	12	0	11	1	0
1090	Exposed Rebar	LF	4	0	0	4	0
1120	Efflorescence/Rust Staining	LF	8	0	0	8	0
1130	Cracking (RC and Other)	LF	12	0	8	4	0
301	Pourable Joint Seal	LF	63	63	0	0	0
330	Metal Bridge Railing	LF	150	150	0	0	0
515	Steel Protective Coating	SF	510	510	0	0	0



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Location: 4.2 MI W JCT SH 1

Team Lead: James Adams, Inspection Date: 01/16/2020

**Deck**

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38		RC Slab	SF	2363	2199	125	37	2
1080		Delamination/Spall/Patched Area	SF	33	0	0	33	0
1090		Exposed Rebar	SF	2	0	0	0	2
1120		Efflorescence/Rust Staining	SF	79	0	75	4	0
1130		Cracking (RC and Other)	SF	50	0	50	0	0
510		Wearing Surfaces	SF	2100	1580	520	0	0
3210		Delam/Spall/Patched Area/Pothole	SF	183	0	183	0	0
3220		Crack (Wearing Surface)	SF	337	0	337	0	0

**58 - Deck** (7 - GOOD CONDITION - some minor problems.)

Comment:

Asphalt wearing surface has transverse cracks &amp; spalls over joints.

Wearing surface has delamination in gutter line detected by sounding.



Asset #00582(Routine)

SH 14-13- LM 13.53 over LANGUILLE RELIEF

Location: 4.2 MI W JCT SH 1

Team Lead: James Adams, Inspection Date: 01/16/2020

## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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

Comment: Soffit has a few cracks with some efflorescence.

Span 1 slab has 4 ft. of diagonal cracking with efflorescence at right corner near bent 1.

Soffit has a few small delaminated areas along edges.

**Substructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
227	Reinforced Concrete Pile	EA	10	7	1	2	0
1090	Exposed Rebar	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	2	0	1	1	0
234	Reinforced Concrete Pier Cap	LF	146	110	19	17	0
1080	Delamination/Spall/Patched Area	LF	12	0	11	1	0
1090	Exposed Rebar	LF	4	0	0	4	0
1120	Efflorescence/Rust Staining	LF	8	0	0	8	0
1130	Cracking (RC and Other)	LF	12	0	8	4	0

**60 - Substructure** (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: Bents 2 and 3 caps have some deterioration on left end, and a few minor spalls with exposed rebar.

Bent 2 cap span 2 side has 6 ft. of cracking & delamination on face of cap.

Bent 3 cap span 3 side has 12 ft. of horizontal cracking 8 in. from top of cap. Cap has a 3 ft. area of cracking & delamination.

Bent 3 pile 1 has 3 ft. cracked at the top of pile.

Bent 3 pile 2 has a small spall with exposed rebar at top of pile.

Bent 3 pile 5 has vertical cracks in top 3 ft. of pile.

Vegetation in channel & on banks.





Asset #00582(Routine)

SH 14-13- LM 13.53 over LANGUILLE RELIEF

Location: 4.2 MI W JCT SH 1

Team Lead: James Adams, Inspection Date: 01/16/2020

## Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Roadway



Bent 2 left side



Bent 3 left side



Deck



Span 1 soffit



Elevation





**Asset #00582**(Routine)

**SH 14-13- LM 13.53 over LANGUILLE RELIEF**

**Location: 4.2 MI W JCT SH 1**

**Team Lead:** James Adams, **Inspection Date:** 01/16/2020

#### **Maintenance Needs**

**Date Reported:** 04/10/2012  
**Priority:** C - Important  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** Monitor  
**Component:**

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#### **Deficiency Description**

Caps at bents 2 and 3 have some deterioration on Lt end, and a few minor spalls with rebar exposed.

#### **Remarks**

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Bent 2 left side



Bent 3 left side



**Date Reported:** 04/15/2014  
**Priority:** D- Routine  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** Monitor  
**Component:**

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**Deficiency Description**

Soffit has a few small delaminated areas along edges.

**Remarks**

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Asset #00582(Routine)

SH 14-13- LM 13.53 over LANGUILLE RELIEF

Location: 4.2 MI W JCT SH 1

Team Lead: James Adams, Inspection Date: 01/16/2020

**Date Reported:** 01/23/2018  
**Priority:** D- Routine  
**Type of Work:** (Inactive) (Inactive) 9 - None  
**Status:** Monitor  
**Component:**

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#### Deficiency Description

Bent 3 pile 2 has a small spall with rebar exposed at top of pile.

#### Remarks

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**Asset #00582(Routine)**

**SH 14-13- LM 13.53 over LANGUILLE RELIEF**

**Location: 4.2 MI W JCT SH 1**

**Team Lead: James Adams, Inspection Date: 01/16/2020**

## **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	



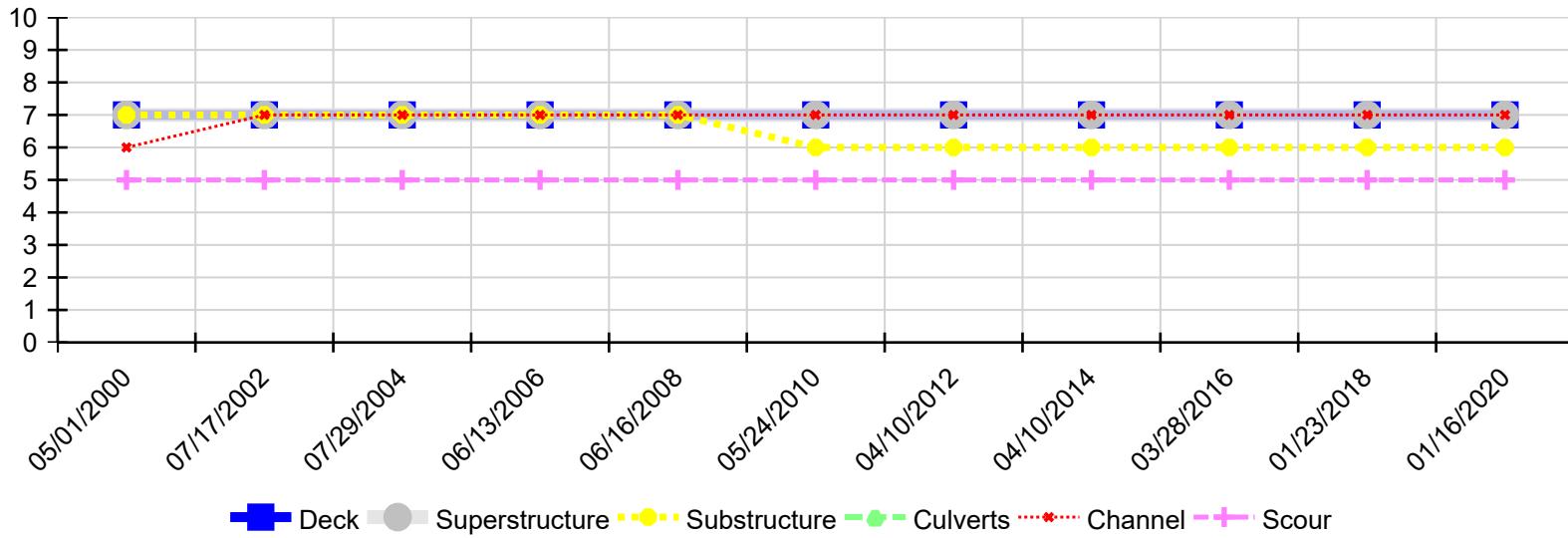
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SH 14-13- LM 13.53 over LANGUILLE RELIEF

Location: 4.2 MI W JCT SH 1

Team Lead: James Adams, Inspection Date: 01/16/2020

### Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
01/16/2020	7	7	6	N	7	5
01/23/2018	7	7	6	N	7	5
03/28/2016	7	7	6	N	7	5
04/10/2014	7	7	6	N	7	5
04/10/2012	7	7	6	N	7	5
05/24/2010	7	7	6	N	7	5
06/16/2008	7	7	7	N	7	5
06/13/2006	7	7	7	N	7	5
07/29/2004	7	7	7	N	7	5
07/17/2002	7	7	7	N	7	5
05/01/2000	7	7	7	N	6	5