



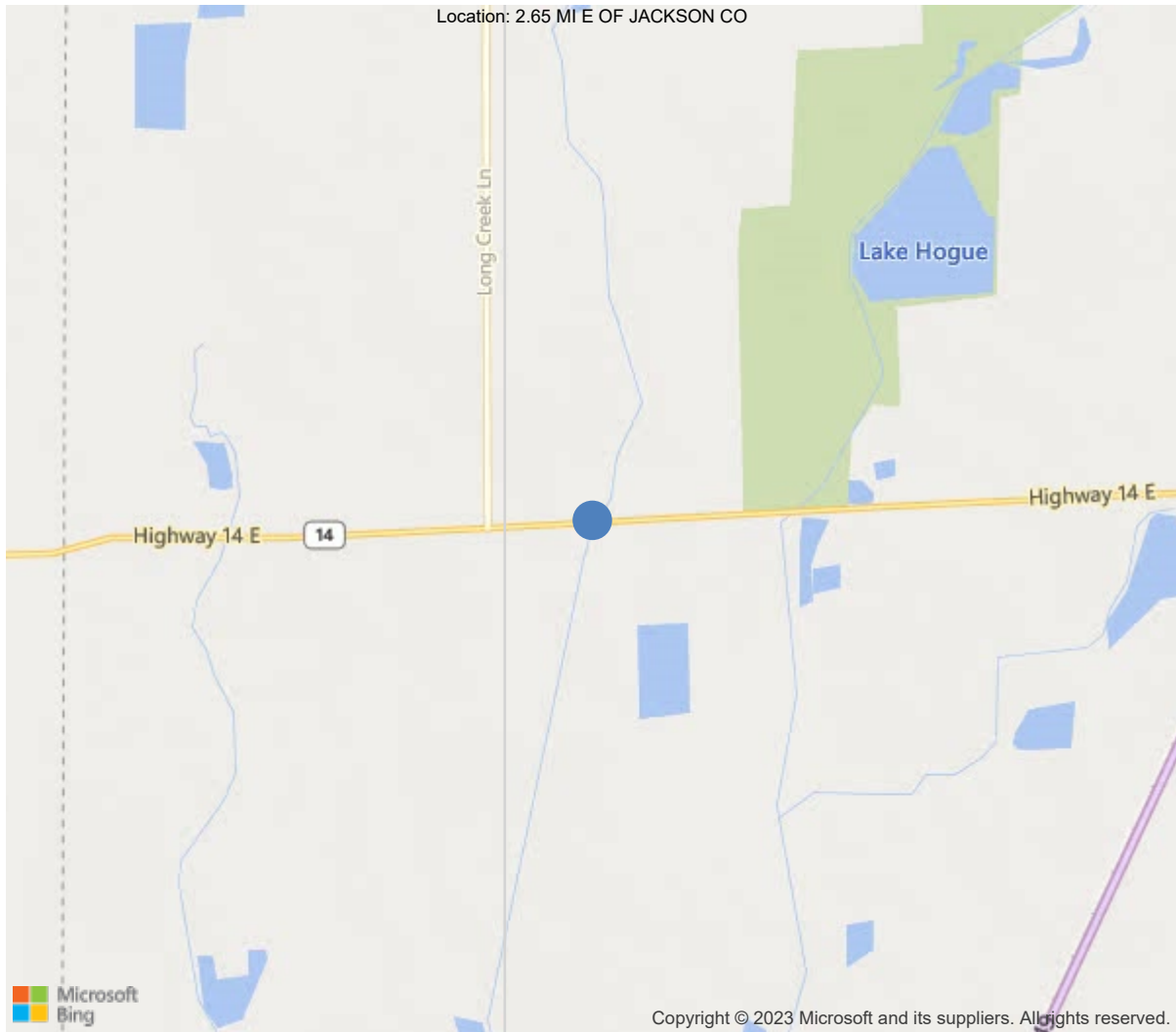
Latitude:35.56289, Longitude:-90.99231

Route:14 Section:13 Log:2.65

Arnold Road ID:56x14x13xA, Arnold Log mile:2.645

District 10, 111 - Poinsett County

Owner: 1 - State Highway Agency



35.56289, -90.99231



Asset #02445(Routine)

SH 14-13- LM 2.65 over FLAG SLOUGH

Location: 2.65 MI E OF JACKSON CO

Team Lead: James Adams, Inspection Date: 02/03/2020

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	02445
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	111 - Poinsett County
(4) Place Code	0
(6) Features Intersected	FLAG SLOUGH
(7) Facility Carried	SH 14-13- LM 2.65
(9) Location	2.65 MI E OF JACKSON CO
(11) Mile Point	2.65 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000014130
(16) Latitude	35.56289
(17) Longitude	-90.99231
(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	1956
(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	3500
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	17 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	28 ft
(49) Structure Length	140 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.5 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 ft
(33) Bridge Median	0 - No median
(34) Skew	30 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	25.9 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	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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(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	26
(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	2
(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	31 - Replacement of bridge or
(76) Length of Structure Improvement	169 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 265
(96) Total Project Cost	\$ 907
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	5091
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	02/22/2022		
(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.			



58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Bridge rail posts have several minor cracks and spalls.

Both end post at bent 1 & left end post at bent 6 have collision damage & exposed rebar.

Approach roadway at bent 1 end has minor settlement. Approach roadway at bent 6 end has up to 1 in. of settlement.

Asphalt patches have been added.

Wearing surface has several cracks over bents & map cracking in wheel path with some rutting.

Span 5 right lane asphalt overlay has a 4 ft. wide area of map cracking with some efflorescence visible & a 1 ft. diameter hole in asphalt, see 2020 photo.

Left and right curbs have delaminated & spalled areas with some exposed rebar.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Slabs have a 1.5 in. lateral shift.

Soffit portion of slab has a few efflorescent cracks, some rust stained cracks and delaminated areas along edges of slabs especially near drain openings. Some have exposed rebar.

Span 4 & 5 left drain openings each have a 3 ft. x 3 ft. area of delamination & exposed rebar.

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

Interior bent caps have deterioration & exposed rebar on ends, especially bents 3 and 5. See 2020 photos.

Caps have a few minor cracks and spalls with some exposed rebar.

Concrete piles have minor abrasion near water level.

Trees & brush under bridge & on channel banks.

A-46 - Asset Files

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Asset #02445(Routine)

SH 14-13- LM 2.65 over FLAG SLOUGH

Location: 2.65 MI E OF JACKSON CO

Team Lead: James Adams, Inspection Date: 02/03/2020

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3710	3619	14	77	0
1080	Delamination/Spall/Patched Area	SF	45	0	0	45	0
1090	Exposed Rebar	SF	26	0	0	26	0
1120	Efflorescence/Rust Staining	SF	20	0	14	6	0
510	Wearing Surfaces	SF	3360	2577	673	110	0
3210	Delam/Spall/Patched Area/Pothole	SF	1	0	1	0	0
3220	Crack (Wearing Surface)	SF	782	0	672	110	0
227	Reinforced Concrete Pile	EA	20	0	20	0	0
1190	Abrasion/Wear (PSC/RC)	EA	20	0	20	0	0
234	Reinforced Concrete Pier Cap	LF	218	194	3	21	0
1080	Delamination/Spall/Patched Area	LF	5	0	1	4	0
1090	Exposed Rebar	LF	11	0	0	11	0
1120	Efflorescence/Rust Staining	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	7	0	2	5	0
301	Pourable Joint Seal	LF	111	111	0	0	0
330	Metal Bridge Railing	LF	280	255	0	25	0
7000	Damage	LF	25	0	0	25	0
515	Steel Protective Coating	SF	952	75	877	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	877	0	877	0	0

**Deck**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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1080	Delamination/Spall/Patched Area	SF	45	0	0	45	0
1090	Exposed Rebar	SF	26	0	0	26	0
1120	Efflorescence/Rust Staining	SF	20	0	14	6	0
510	Wearing Surfaces	SF	3360	2577	673	110	0
3210	Delam/Spall/Patched Area/Pothole	SF	1	0	1	0	0
3220	Crack (Wearing Surface)	SF	782	0	672	110	0

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: Bridge rail posts have several minor cracks and spalls.

Both end post at bent 1 & left end post at bent 6 have collision damage & exposed rebar.

Approach roadway at bent 1 end has minor settlement. Approach roadway at bent 6 end has up to 1 in. of settlement.

Asphalt patches have been added.

Wearing surface has several cracks over bents & map cracking in wheel path with some rutting.

Span 5 right lane asphalt overlay has a 4 ft. wide area of map cracking with some efflorescence visible & a 1 ft. diameter hole in asphalt, see 2020 photo.

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Location: 2.65 MI E OF JACKSON CO

Team Lead: James Adams, Inspection Date: 02/03/2020

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: Slabs have a 1.5 in. lateral shift.

Soffit portion of slab has a few efflorescent cracks, some rust stained cracks and delaminated areas along edges of slabs especially near drain openings. Some have exposed rebar.

Span 4 & 5 left drain openings each have a 3 ft. x 3 ft. area of delamination & exposed rebar.

**Substructure**

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
227	Reinforced Concrete Pile	EA	20	0	20	0	0
1190	Abrasion/Wear (PSC/RC)	EA	20	0	20	0	0
234	Reinforced Concrete Pier Cap	LF	218	194	3	21	0
1080	Delamination/Spall/Patched Area	LF	5	0	1	4	0
1090	Exposed Rebar	LF	11	0	0	11	0
1120	Efflorescence/Rust Staining	LF	1	0	0	1	0
1130	Cracking (RC and Other)	LF	7	0	2	5	0

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

Comment: Interior bent caps have deterioration & exposed rebar on ends, especially bents 3 and 5. See 2020 photos.

Caps have a few minor cracks and spalls with some exposed rebar.

Concrete piles have minor abrasion near water level.

Trees & brush under bridge & on channel banks.



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Location: 2.65 MI E OF JACKSON CO

Team Lead: James Adams, Inspection Date: 02/03/2020

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation

Maintenance Needs

Date Reported: 03/23/2010
Priority: D- Routine
Type of Work: (Inactive) (Inactive) 9 - None
Status: Monitor
Component:

Deficiency Description

Soffit has some rust stained cracks and delaminated areas along edges of slabs especially near drain openings. Some have rebar exposed.

Remarks



Soffit

Date Reported: 03/23/2010
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component:

Deficiency Description

Interior bent caps have deterioration on ends, especially bents 3 and 5.
Caps have a few minor cracks and spalls with some rebar exposed.

Remarks



Bent 5 cap



Bent 3 cap



Asset #02445(Routine)

SH 14-13- LM 2.65 over FLAG SLOUGH

Location: 2.65 MI E OF JACKSON CO

Team Lead: James Adams, Inspection Date: 02/03/2020

Date Reported: 02/06/2018
Priority: D- Routine
Type of Work: Repair (General)
Status: Monitor
Component:

Deficiency Description

Approach roadway at bent 1 end has minor settlement.
Approach roadway at bent 6 end has up to 1" of settlement.

Remarks



Date Reported: 02/04/2020
Priority: C - Important
Type of Work: Repair (General)
Status: Open
Component:

Deficiency Description

Span 5 right lane asphalt overlay has a 4 ft. wide area of map cracking with some efflorescence visible & a 1 ft. diameter hole in asphalt

Remarks





Asset #02445(Routine)

SH 14-13- LM 2.65 over FLAG SLOUGH

Location: 2.65 MI E OF JACKSON CO

Team Lead: James Adams, **Inspection Date:** 02/03/2020

Date Reported: 02/04/2020
Priority: C - Important
Type of Work: Repair (General)
Status: Open
Component:

Deficiency Description

Both end post at bent 1 & left end post at bent 6 have collision damage & exposed rebar.

Remarks



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	



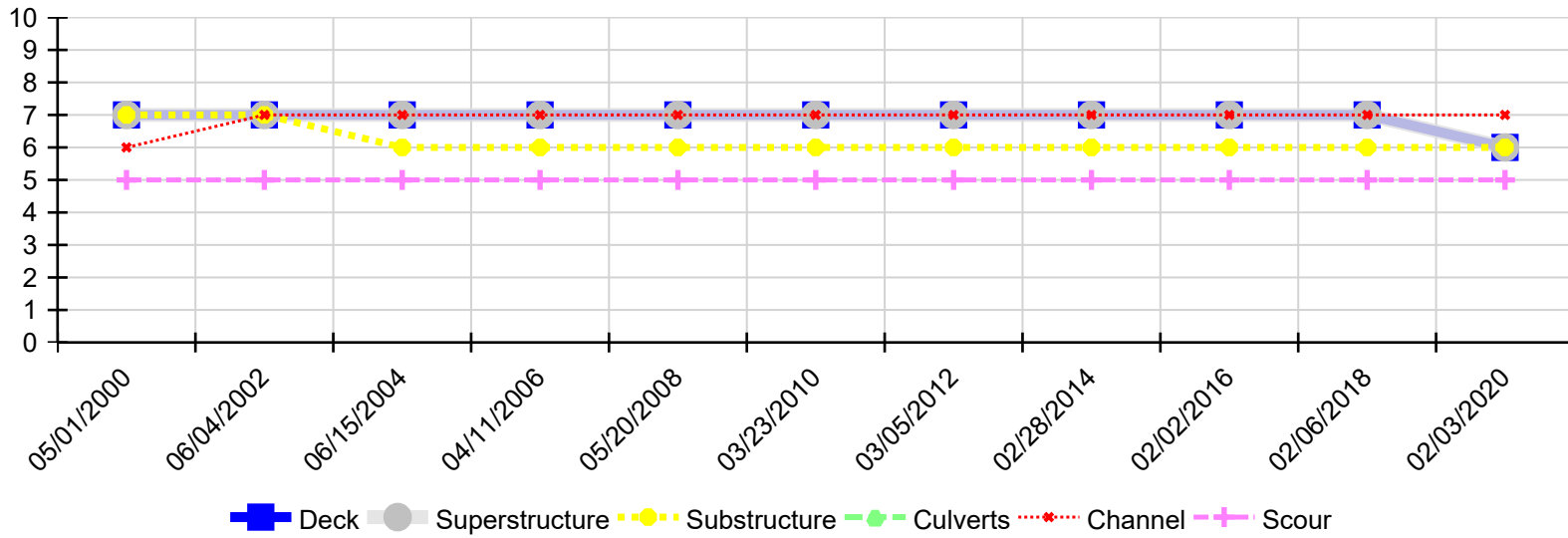
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Location: 2.65 MI E OF JACKSON CO

Team Lead: James Adams, Inspection Date: 02/03/2020

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/03/2020	6	6	6	N	7	5
02/06/2018	7	7	6	N	7	5
02/02/2016	7	7	6	N	7	5
02/28/2014	7	7	6	N	7	5
03/05/2012	7	7	6	N	7	5
03/23/2010	7	7	6	N	7	5
05/20/2008	7	7	6	N	7	5
04/11/2006	7	7	6	N	7	5
06/15/2004	7	7	6	N	7	5
06/04/2002	7	7	7	N	7	5
05/01/2000	7	7	7	N	6	5