



Latitude:35.11046, Longitude:-90.29335

Route:147 Section:01 Log:12.81

Arnold Road ID:18x147x1xA, Arnold Log mile:12.812

District 01, 35 - Crittenden County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

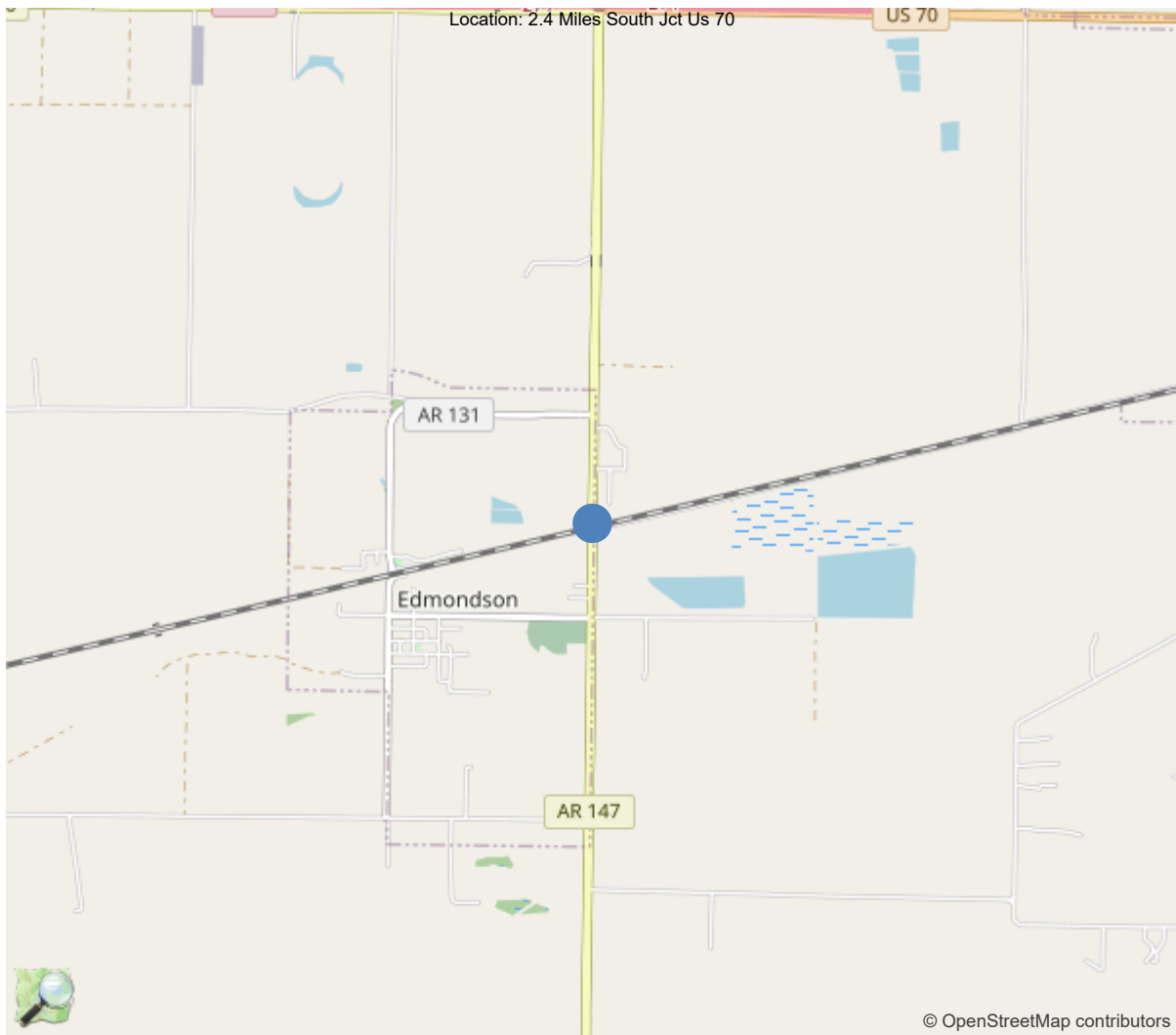
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	39		
Code 9 (31 Tons)	45		
Code 5 (40 Tons)	59		

If calculated Capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner



30"x36" AR



35.11046, -90.29335



Asset #05134(Routine, Underwater type 2)

Sh-147/Sec1/L12.81 over Ditch Number 49

Location: 2.4 Miles South Jct Us 70

Team Lead: Drew Melton Inspection Date: 01/08/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05134
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	35 - Crittenden County
(4) Place Code	0
(6) Features Intersected	Ditch Number 49
(7) Facility Carried	Sh-147/Sec1/L12.81
(9) Location	2.4 Miles South Jct Us 70
(11) Mile Point	12.81 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000147010
(16) Latitude	35.11046
(17) Longitude	-90.29335
(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	3 - Latex Concrete or similar additive
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1969
(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	2785
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	28 ft
(49) Structure Length	84 ft
(50) Curb or Sidewalk Width	
Left	0.4 ft
Right	0.4 ft
(51) Bridge Roadway Width Curb to Curb	43 ft
(52) Deck Width Out to Out	46.2 ft
(32) Approach Roadway Width (W/Shoulders)	44 ft
(33) Bridge Median	0 - No median
(34) Skew	15 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	43 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	0
(26) Functional Class	6 - Rural Minor Arterial
(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	0 - The inventory route is not
(20) Toll	3 - On free road. The structure
(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	7
(61) Channel & Channel Protection	5
(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	
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	6
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	0 - Inspected feature does not meet
(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	3461
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	01/08/2024		
(91) Frequency	24		
(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.			



Asset #05134(Routine, Underwater type 2)

Sh-147/Sec1/L12.81 over Ditch Number 49

Location: 2.4 Miles South Jct Us 70

Team Lead: Drew Melton **Inspection Date:** 01/08/2024

General Observation

Drawing # 13833-34, 15101B,C.

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

Deck is a slab so deck and superstructure are rated the same. Deck is in satisfactory condition with a hydro blasted deck with soffit-under surface having some large delaminated areas and cracks.

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

Superstructure is a slab so deck and superstructure are rated the same. Superstructure is in satisfactory condition with some cracks in sides of slab.

60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Substructure is in good condition with some minor spalls and delaminated areas at top of caps.

61 - Channel/Channel Protection (5 - Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and brush restrict the channel.)

Channel has good alignment with structure. Banks are vegetated with some areas of erosion with Abutment #2 slope eroding and slumping nearing cap. Channel has some debris restrictions reducing water flow rates.

Abutment 2 slope has eroded to a 5' tall vertical face 4'-8' from abutment cap.

A-55 - Deck Washing Needed (Y)

Gutters have dirt and debris in them.

A-63 - Missing/Incorrect Log Mile Signage (Y)

Log mile sign is incorrect should read Sh-147, Section-1, Log mile 12.81.

A-64 - Vegetation Removal Requested (Y)

Vegetation is growing under and beside bridge left and right sides.



Side view-elevation



Typical soffit-under surface



Typical deck



Abutment #2 slope



Channel under bridge



Channel right side



Channel left side



Top view-inventory



Typical debris in gutters



Typical log mile sign



Typical vegetation



Span #2 soffit-under surface delaminated area.



Span #1 soffit-under surface delaminated area and spall.



Misalignment from span #2 to span #3.



Abutment #2 left curb



Bent #3 cap back face.



Abutment #2 left monument post

Maintenance Needs

Date Reported: 01/27/2014

Priority: C - Important

Type of Work: Joint Repair

Status: Repair Documented

Component: Element

Deficiency Description

All deck joints are full of non-compressible material.

Remarks

01/08/2024 Deck has had joints replaced.



Typical joint replaced



Typical joint.

Maintenance Needs

Date Reported: 01/19/2016

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Channel

Deficiency Description

Abutment 2 slope has eroded to a 5' tall vertical face 4'-8' from abutment cap.

Remarks



Abutment #2 slope erosion



Abutment #2 slope erosion.



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Sh-147/Sec1/L12.81 over Ditch Number 49

Location: 2.4 Miles South Jct Us 70

Team Lead: Drew Melton **Inspection Date:** 01/08/2024

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	Yes
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	
A-63 - Missing/Incorrect Log Mile Signage	Yes
A-64 - Vegetation Removal Requested	Yes

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed (Yes)

Gutters have dirt and debris in them.



Typical debris in gutters

A-56 - Joint Cleaning/Flushing Needed

A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Girder Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage (Yes)

Log mile sign is incorrect should read Sh-147, Section-1, Log mile 12.81.



Typical log mile sign

A-64 - Vegetation Removal Requested (Yes)

Vegetation is growing under and beside bridge left and right sides.



Typical vegetation



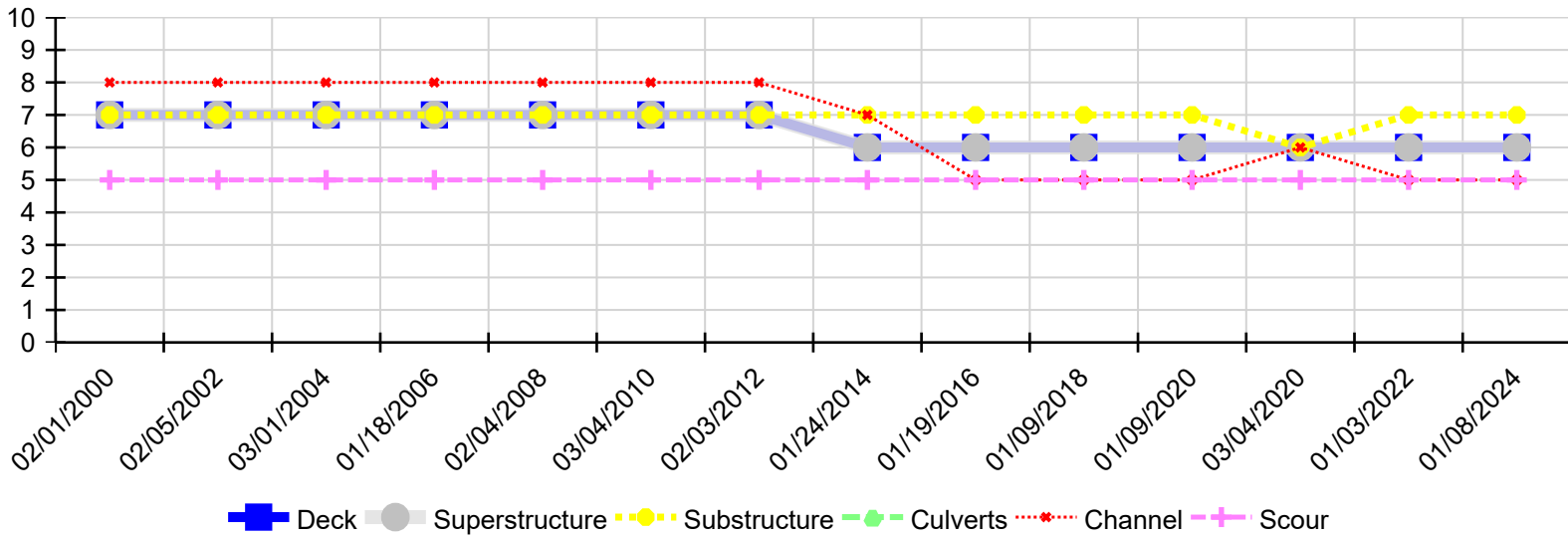
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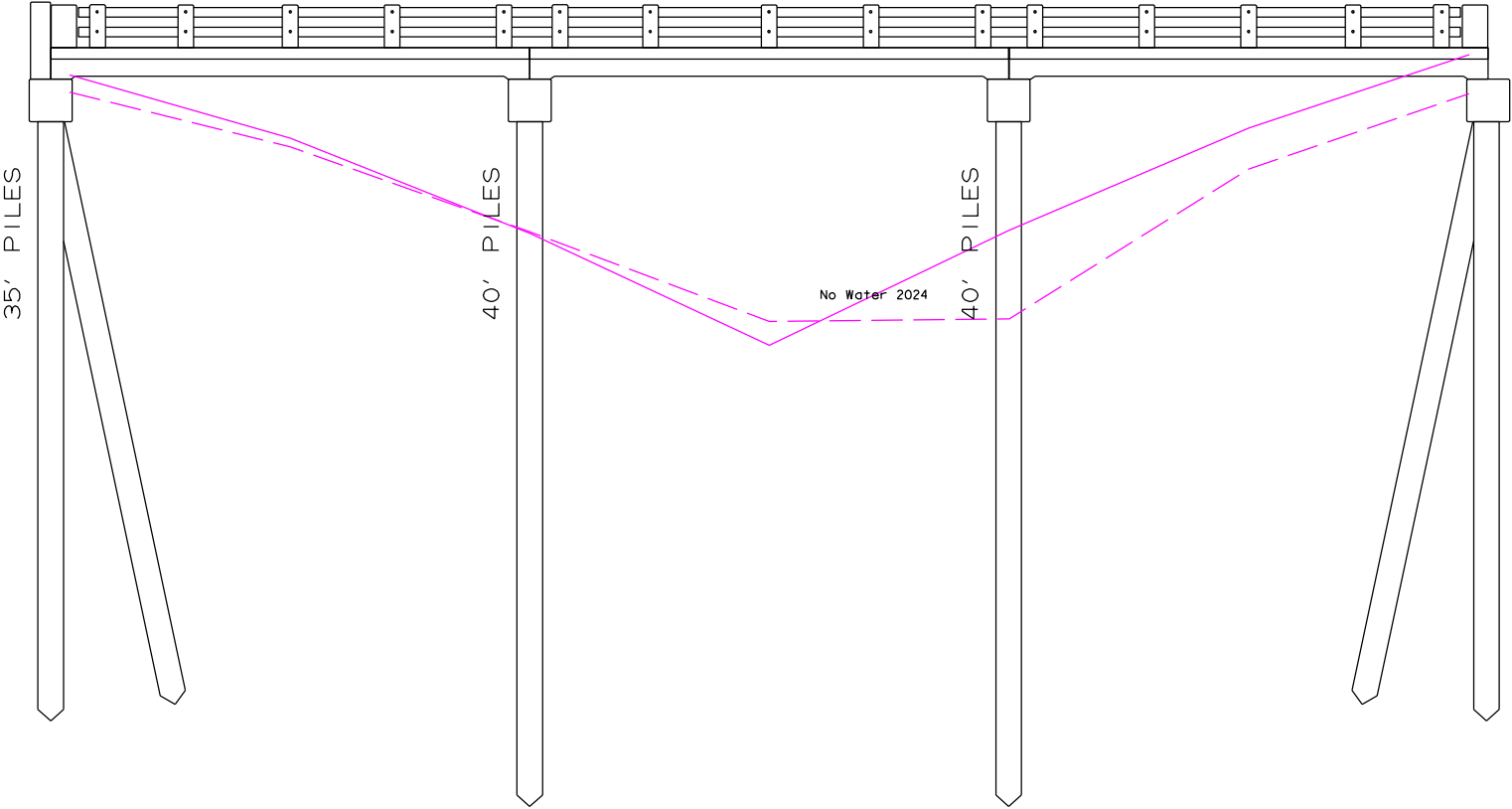
Team Lead: Drew Melton Inspection Date: 01/08/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
01/08/2024	6	6	7	N	5	5
01/03/2022	6	6	7	N	5	5
03/04/2020	6	6	6	N	6	5
01/09/2020	6	6	7	N	5	5
01/09/2018	6	6	7	N	5	5
01/19/2016	6	6	7	N	5	5
01/24/2014	6	6	7	N	7	5
02/03/2012	7	7	7	N	8	5
03/04/2010	7	7	7	N	8	5
02/04/2008	7	7	7	N	8	5
01/18/2006	7	7	7	N	8	5
03/01/2004	7	7	7	N	8	5
02/05/2002	7	7	7	N	8	5
02/01/2000	7	7	7	N	8	5

READINGS TAKEN FROM SIDE OF BRIDGE, TOP OF BRIDGE RAIL



BENT #1 1/2 BENT #2 1/2 BENT #3 1/2 BENT #4

01/08/2024 Left 5.1' 8.3' 13.1' 18.5' 18.2' 9.6' 5.2'

01/08/2024 Right 4.1' 7.8' 13.2' 19.9' 13.0' 7.2' 2.9'