



Latitude:33.95496, Longitude:-91.84326

Route:425 Section:06 Log:0.86

Arnold Road ID:40x425x6xA, Arnold Log mile:0.856

District 02, 79 - Lincoln County

Owner: 1 - State Highway Agency

Bridge Posting Information

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

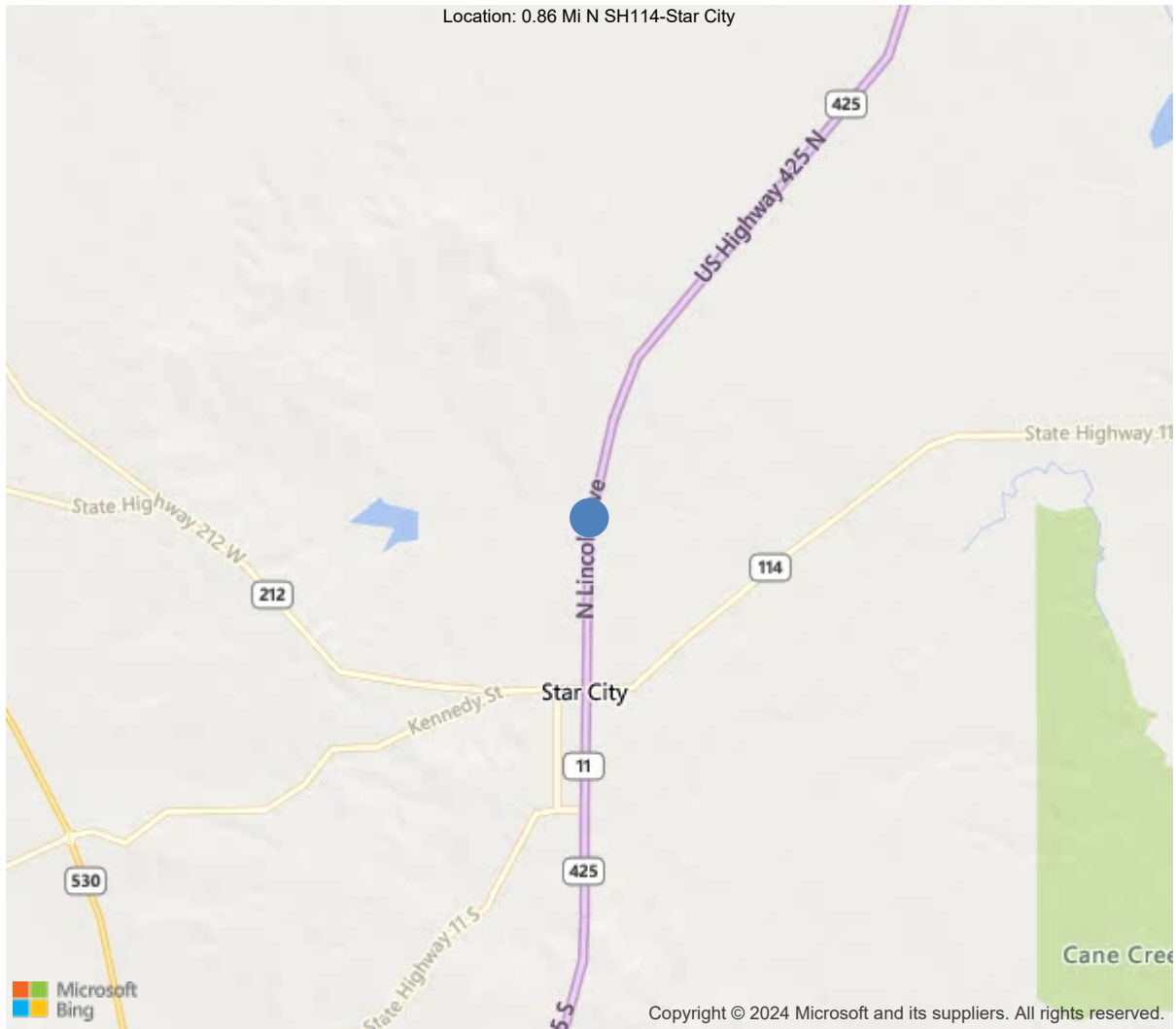
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

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



33.95496, -91.84326



Asset #00832(Routine)

US 425-06 LM 0.86 over Cane Creek

Location: 0.86 Mi N SH114-Star City

Team Lead: Sharon Hooks, Inspection Date: 10/20/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	00832
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	79 - Lincoln County
(4) Place Code	0
(6) Features Intersected	Cane Creek
(7) Facility Carried	US 425-06 LM 0.86
(9) Location	0.86 Mi N SH114-Star City
(11) Mile Point	0.86 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000425060
(16) Latitude	33.95496
(17) Longitude	-91.84326
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
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	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	1 - Monolithic Concrete (concurrently pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1948
(106) Year Reconstructed	1998
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	5
Under	0
(29) Average Daily Traffic	5000
(30) Year of ADT	2018
(109) Truck ADT	14 %
(19) Bypass, Detour Length	29 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	92 ft
(50) Curb or Sidewalk Width	
Left	6 ft
Right	6 ft
(51) Bridge Roadway Width Curb to Curb	69.9 ft
(52) Deck Width Out to Out	73.3 ft
(32) Approach Roadway Width (W/Shoulders)	69.9 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	70.9 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	1
(26) Functional Class	2 - Rural Principal 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	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	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	8
(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	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1 - Inspected feature meets current
(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	119 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 400
(96) Total Project Cost	\$ 916
(97) Year of Improvement Cost Estimate	1998
(114) Future ADT	6459
(115) Year of Future ADT	2028

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	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 #00832(Routine)

District: 02, County: 79 - Lincoln County

Team Lead: Sharon Hooks, Inspection Date: 10/20/2022

General Observation

Beginning of structure toward SH 114, South End.

02-13-2007, Dropping UW inspection due to sub-str. elements are not continuously submerged. Durations of high water events occur.

No signs of channel scour up or down stream. Rock riprap on slopes at Abt's. NBI Items #60 and #61 will represent all elements that occasionally stand in water. RLW.



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US 425-06 LM 0.86 over Cane Creek

Location: 0.86 Mi N SH114-Star City

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6743	5439	200	1104	0
1120	Efflorescence/Rust Staining	SF	16	0	16	0	0
1130	Cracking (RC and Other)	SF	1288	0	184	1104	0
(12) Deck: 73.3' wide x 92' long. Some map cracking in curbs around deck joints. Spans 1-3: 2 longitudinal cracks with scattered hairline map cracking. Soffit- Left side : Light Cracking with efflorescence on overhang.							
107	Steel Open Girder/Beam	LF	720	720	0	0	0
515	Steel Protective Coating	SF	4363	3543	820	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	820	0	820	0	0
(107) Girders 8 per span / Spans 1-3 (90' total span). Coating: W24x68 = 6.06 square feet per linear feet of girders. Outsides of outer 2 girders are brown with a granular texture with all girders showing early signs of aging.							
215	Reinforced Concrete Abutment	LF	160	64	72	24	0
1130	Cracking (RC and Other)	LF	96	0	72	24	0
(215) Abutments: 80' each / Bents 1 & 4. Both abutments have hairline vertical cracks. Top of back walls map cracking is moderate. Bent 1 abutment has horizontal cracks in face of cap. Abutment - Bent 4 left: Map cracking							
227	Reinforced Concrete Pile	EA	18	18	0	0	0
(227) Piling: 9 per bent / Bents 2 & 3.							
234	Reinforced Concrete Pier Cap	LF	150	150	0	0	0
(234) 75' each Bents 2 & 3.							
302	Compression Joint Seal	LF	280	221	59	0	0
2320	Seal Adhesion	LF	5	0	5	0	0
2340	Seal Cracking	LF	54	0	54	0	0
(302) Joints: 70' each / Bents 1-4. Adhesive starting to loosen at various locations on preformed joint seals. Minor cracking in joint material Bent 1.							
311	Movable Bearing	EA	24	24	0	0	0
515	Steel Protective Coating	SF	24	24	0	0	0
(311) Moveable Bearings: 8 each spans 1 -3							
313	Fixed Bearing	EA	24	24	0	0	0
515	Steel Protective Coating	SF	24	24	0	0	0

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Deck

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Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	160	64	72	24	0
1130	Cracking (RC and Other)	LF	96	0	72	24	0
(215) Abutments: 80' each / Bents 1 & 4. Both abutments have hairline vertical cracks. Top of back walls map cracking is moderate. Bent 1 abutment has horizontal cracks in face of cap. Abutment - Bent 4 left: Map cracking							
227	Reinforced Concrete Pile	EA	18	18	0	0	0
(227) Piling: 9 per bent / Bents 2 & 3.							
234	Reinforced Concrete Pier Cap	LF	150	150	0	0	0
(234) 75' each Bents 2 & 3.							



Elevation.



Bent 1 abutment has cracking.



Under view.



Approach.



Bent 3 joint seal has some loss of adhesion.



Bent 4 concrete header has cracking right lane northbound.



Deck over view.



Overview of soffit and girders.



Bridge rail right side has map cracking. Common left.

Maintenance Needs

Date Reported: 10/21/2022

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component:

Deficiency Description

Approach Bent 1 asphalt has spalled away leaving pot hole on South end of bridge.
(Common on bent 4 right lane southbound lane.)

Remarks



Asphalt approach on South end of bridge at Bent 1 has some potholes in both lanes.



Bent 1 asphalt approach has spalling and a few potholes.
(common on bent 4 right lane headed south .)



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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	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



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A-57 - Beam End and Bearing Painting 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

A-64 - Vegetation Removal Requested



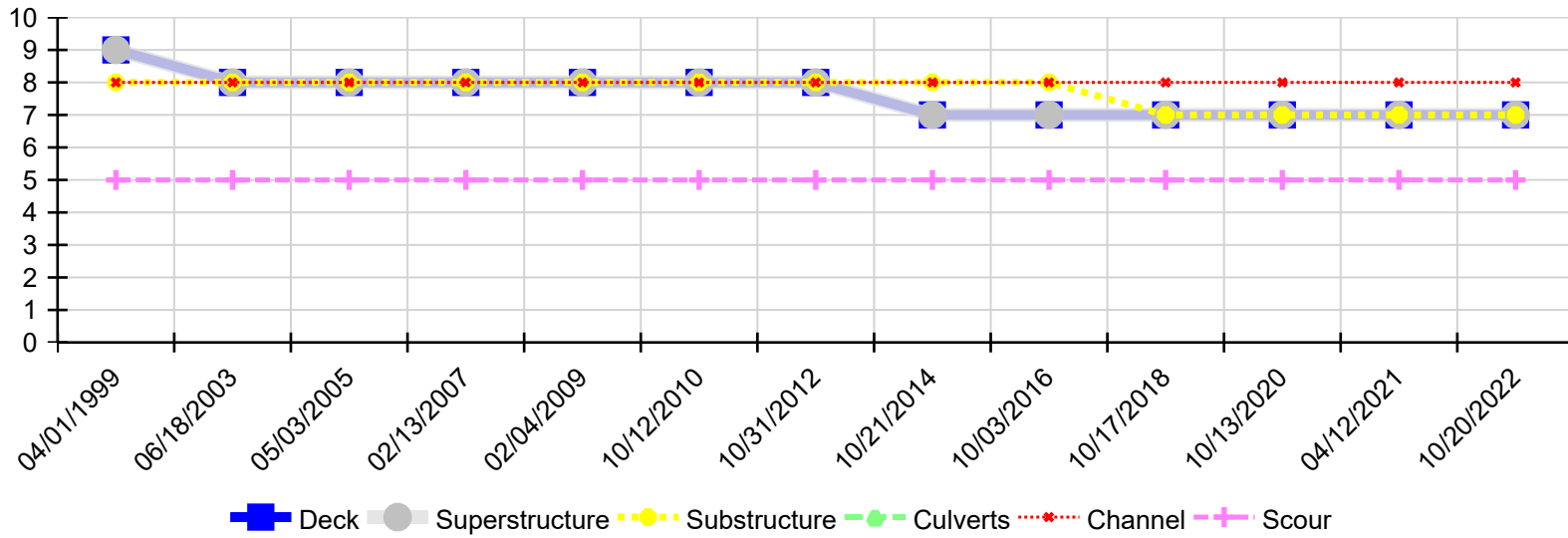
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/20/2022	7	7	7	N	8	5
04/12/2021	7	7	7	N	8	5
10/13/2020	7	7	7	N	8	5
10/17/2018	7	7	7	N	8	5
10/03/2016	7	7	8	N	8	5
10/21/2014	7	7	8	N	8	5
10/31/2012	8	8	8	N	8	5
10/12/2010	8	8	8	N	8	5
02/04/2009	8	8	8	N	8	5
02/13/2007	8	8	8	N	8	5
05/03/2005	8	8	8	N	8	5
06/18/2003	8	8	8	N	8	5
04/01/1999	9	9	8	N	8	5