



Latitude:35.44274, Longitude:-92.09753

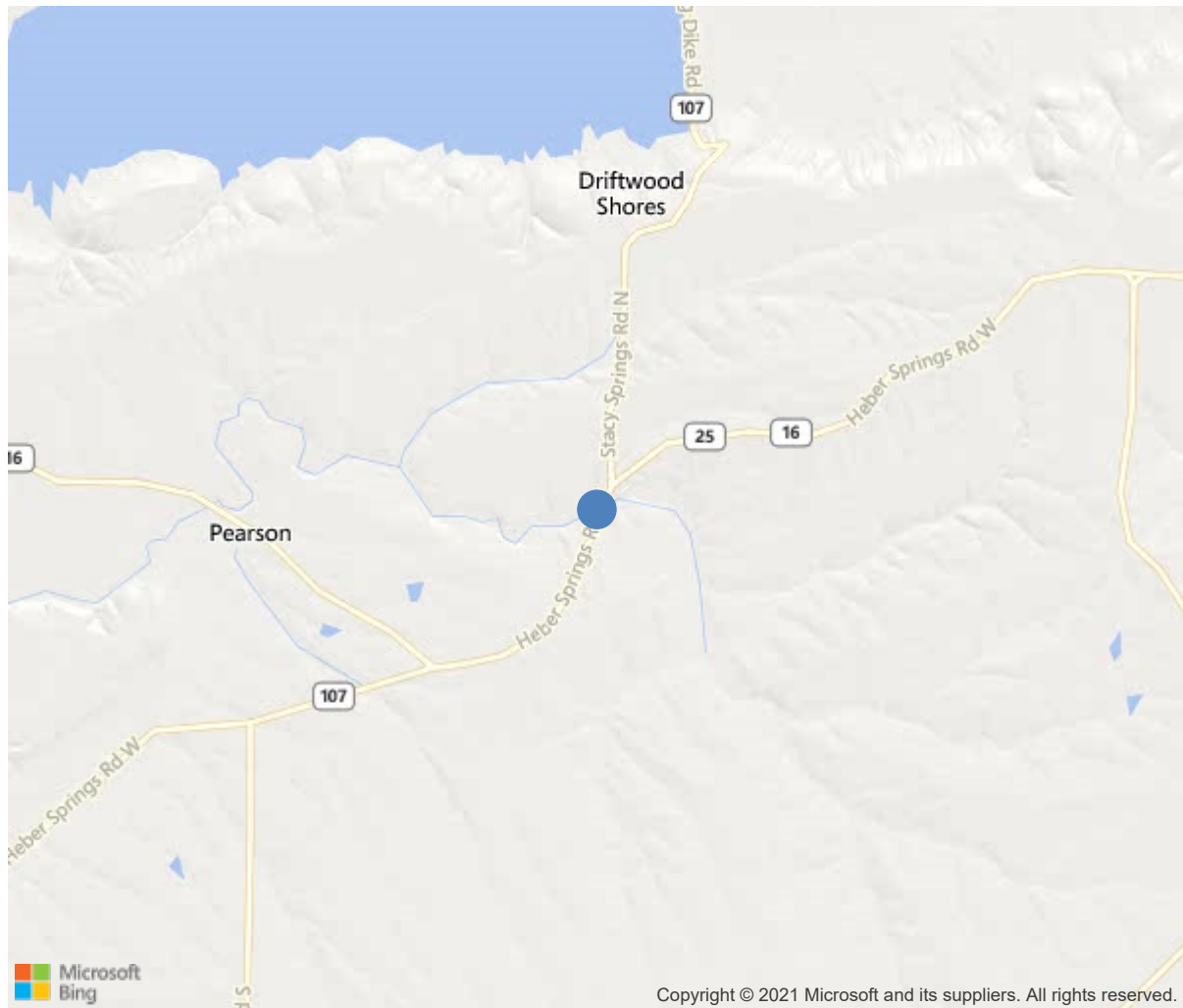
Route:25 Section:02 Log:9.908

Arnold Road ID:12x25x2xA, Arnold Log mile:9.906

District 05, Cleburne County

Owner: 1-State Highway Agency

0.15 W JCT SH25-107



35.44274, -92.09753



Bridge #00865(Routine, Underwater type 2)

SH 25/Cleburne Co. over CADRON CR.

Location: 0.15 W JCT SH25-107

Team Lead: Nathan Edwards Inspection Date: January 30, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	00865
(5) Inventory Route	25
(2) Highway Agency District	05
(3) County Code	23-Cleburne County, Arkansas
(4) Place Code	0
(6) Features Intersected	CADRON CR.
(7) Facility Carried	SH 25/Cleburne Co.
(9) Location	0.15 W JCT SH25-107
(11) Mile Point	9.908 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.44274
(17) Longitude	-92.09753
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1-Concrete
Type	4-Tee beam
(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	1929
(106) Year Reconstructed	1960
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	5300
(30) Year of ADT	2014
(109) Truck ADT	21 %
(19) Bypass, Detour Length	22 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	90 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 ft
(32) Approach Roadway Width (W/Shoulders)	23 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	25.6 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 water
(111) Pier Protection	1-Navigation protection not requ
(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	7-Rural Major Collector
(100) Defense Highway	0-The inventory route is not a S
(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 part of
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
CONDITION	
(58) Deck	7
(59) Superstructure	4
(60) Substructure	7
(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	44
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	27
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	5
(68) Deck Geometry	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	8-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	116 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 434
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	7678
(115) Year of Future ADT	2027

INSPECTIONS *			
(90) Inspection Date			01/2020
(91) Frequency			24 Months
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	Yes		04/2021
* 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.			





Bridge #00865(Routine, Underwater type 2)

SH 25/Cleburne Co. over CADRON CR.

Location: 0.15 W JCT SH25-107

Team Lead: Nathan Edwards, Inspection Date: January 30, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2340	2321	3	16	0
1090	Exposed Rebar	SF	16	0	0	16	0
1120	Efflorescence/Rust Staining	SF	3	0	3	0	0
510	Wearing Surfaces	SF	2169	1669	0	500	0
3220	Crack (Wearing Surface)	SF	500	0	0	500	0
(16)	Asphalt cracked over joint @ Bent 2. Spalls with exposed rebar to soffit @ end of Spans 2 & 3. Cracking to asphalt overlay.						
107	Steel Open Girder/Beam	LF	360	10	324	24	2
1000	Corrosion	LF	350	0	324	24	2
515	Steel Protective Coating	SF	1343	0	708	600	35
3440	Effectiveness (Steel Protective Coatings)	SF	1343	0	708	600	35
(107)	Span 2 - Girder 5 at end of Span has severe section loss to the bottom flange and web, with a large hole in the bottom of the web. 3' of bottom flange of girders 1, 2, 5 & 6 @ end of Span are rusting & corroded with Moderate to Severe section loss with knife edge. Span 3 - 3' of bottom flange of girders 1, 2, 5 & 6 @ beginning of Span are rusting & corroded with Moderate to Severe section loss with knife edge.						
110	Reinforced Concrete Open Girder/Beam	LF	180	147	0	33	0
1080	Delamination/Spall/Patched Area	LF	30	0	0	30	0
1090	Exposed Rebar	LF	3	0	0	3	0
(110)	1' spall with 6" of rebar exposed to Girder 2 @ end of Span 2 2' spall with 10" of rebar exposed to Girder 3 @ the beginning of Span 3. Spalling along bottom of Concrete Girders 3 & 4.						
205	Reinforced Concrete Column	EA	4	1	3	0	0
1190	Abrasion/Wear (PSC/RC)	EA	3	0	3	0	0
(205)	Abrasion to Columns 1 & 2 @ Bent 1 & Column 1 @ Bent 2.						
215	Reinforced Concrete Abutment	LF	116	101	15	0	0
1120	Efflorescence/Rust Staining	LF	15	0	15	0	0
(215)	Efflorescent cracking to Right side of Abutment 1 & Left & Right sides of Abutment 2.						
234	Reinforced Concrete Pier Cap	LF	52	52	0	0	0

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
301	Pourable Joint Seal	LF	24	0	0	24	0
2350 (301)	Debris Impaction	LF	24	0	0	24	0
Pourable joint seal is not visible due to asphalt overlay. Debris impaction to Pourable joint.							
311	Movable Bearing	EA	6	6	0	0	0
515	Steel Protective Coating	SF	6	6	0	0	0
313	Fixed Bearing	EA	8	8	0	0	0
515	Steel Protective Coating	SF	8	8	0	0	0
330	Metal Bridge Railing	LF	180	180	0	0	0
515 (330)	Steel Protective Coating	SF	540	540	0	0	0
8' area of approach guardrail on Rt side of Abut. 1 that has damage. Guardrail is still in place & attached.							



Roadway with Log Mile Southwest to Northeast.

## Maintenance Needs

**Date Reported:** 01/09/2012  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Assigned  
**Component:**

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## Deficiency Description

Girders 1, 2, 5 & 6 at End of Span 2 and Beginning of Span 3.  
Moderate to severe section loss to bottom flange and bottom of web.

## Remarks

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Girder 1 at beginning of Span 3.



Girder 6 - 100% section loss to the bottom flange.



Date Reported: 01/09/2012

Priority: D- Routine

Type of Work: Repair

Status: Monitor

Component:

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### Deficiency Description

Concrete Girders 3 & 4

Girder 4 @ end of Span 2 has 1' spall with 6" of rebar exposed.

Girder 3 @ the beginning of Span 3 has 2' spall with 10" of rebar exposed.

### Remarks

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Girder 4 @ end of Span 2 has 1' spall with 6" of rebar exposed.



Girder 1 @ the beginning of Span 3 has 2' spall with 10" of rebar exposed.



**Date Reported:** 01/14/2016  
**Priority:** B - Pressing; 6 month completion goal  
**Type of Work:** Repair  
**Status:** Assigned  
**Component:**

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### Deficiency Description

Girder 5 has a 6" x 2" hole in bottom of web and 100% section loss to the bottom flange.

### Remarks

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Girder 5 - 6" x 2" hole in bottom of web and 100% section loss to the bottom flange at end of Span 2.



Girder 5 - 6" x 2" hole in bottom of web and 100% section loss to the bottom flange at end of Span 2.



Girder 5 - 100% section loss to the bottom flange  
at end of Span 2.



**Bridge #00865**(Routine, Underwater type 2)

**SH 25/Cleburne Co. over CADRON CR.**

**Location: 0.15 W JCT SH25-107**

**Team Lead:** Nathan Edwards **Inspection Date:** January 30, 2020

### **Inspection Comments**

Elevation with Log Mile running to the Right.

Job Number: 573

Special Recurring Inspection added for section loss to Steel Girders @ Bent 2. NSE 01/30/2020