



Latitude:33.94851, Longitude:-93.74490

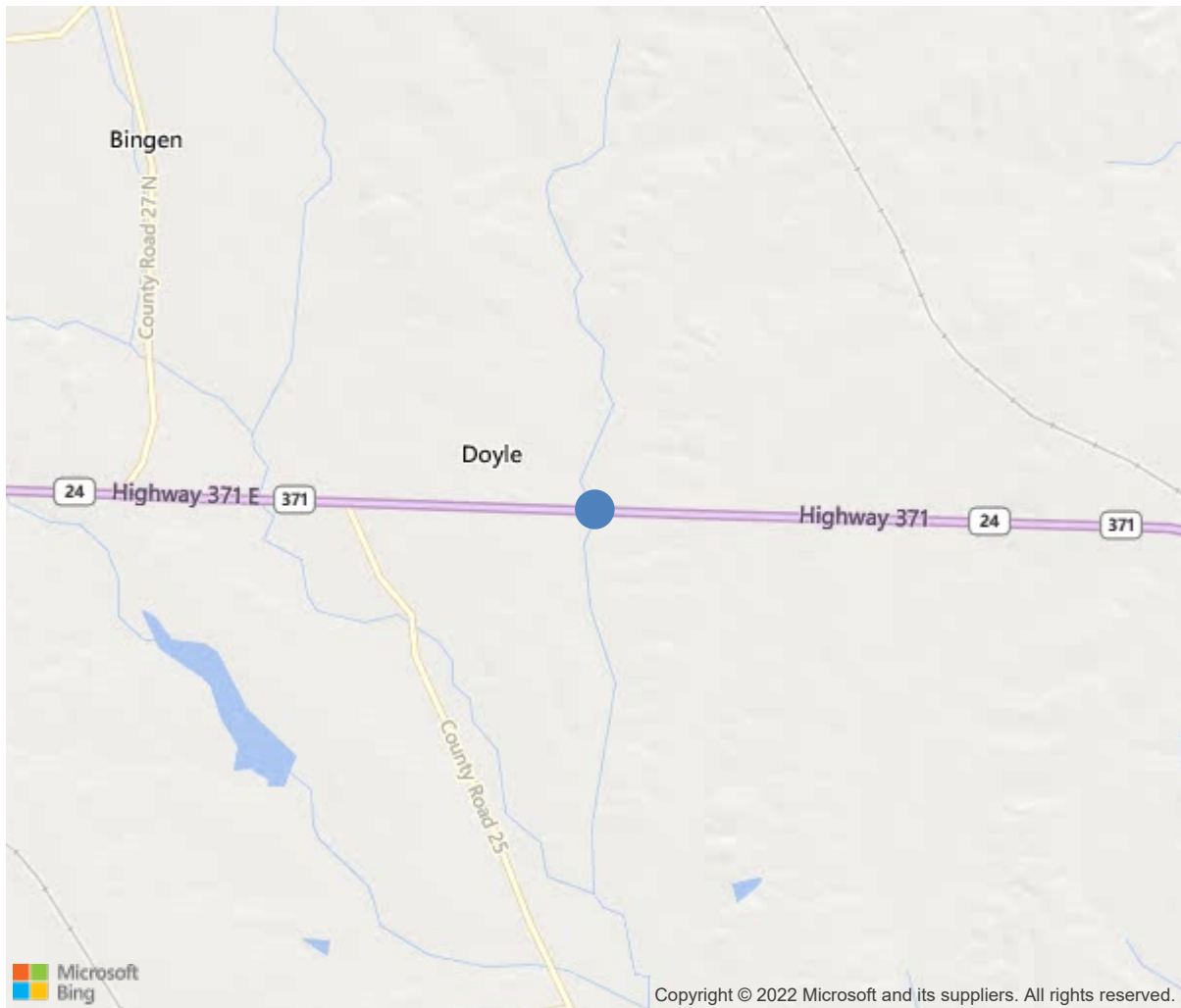
Route:371 Section:03 Log:4.59

Arnold Road ID:29x371x3xA, Arnold Log mile:4.591

District 03, Hempstead County

Owner: 1-State Highway Agency

4.59 MI E HOWARD CO LN



33.94851, -93.74490

Inspection Direction : W to E



**Bridge #03027**(Routine, Underwater type 2)

**US 371 - 03 - 4.59 over BRUSHY CREEK**

**Location: 4.59 MI E HOWARD CO LN**

**Team Lead: Charlie Rogers Inspection Date: January 10, 2022**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03027
(5) Inventory Route	371
(2) Highway Agency District	03
(3) County Code	57-Hempstead County, Arkansas
(4) Place Code	0
(6) Features Intersected	BRUSHY CREEK
(7) Facility Carried	US 371 - 03 - 4.59
(9) Location	4.59 MI E HOWARD CO LN
(11) Mile Point	4.59 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.948509
(17) Longitude	-93.744896
(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	1900
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	34 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)	33.1 ft
(33) Bridge Median	0-No median
(34) Skew	45 Deg
(35) Structure Flared	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	0 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	6
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	6
(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	5
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	6
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	5
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	5-Bridge foundations determined to be
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	0
(114) Future ADT	2496
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			01/2022
(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	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.			

**Team Lead:** Charlie Rogers, **Inspection Date:** January 10, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3710	3625	85	0	0
1080	Delamination/Spall/Patched Area	SF	12	0	12	0	0
1090	Exposed Rebar	SF	5	0	5	0	0
1120	Efflorescence/Rust Staining	SF	18	0	18	0	0
1130	Cracking (RC and Other)	SF	50	0	50	0	0
510	Wearing Surfaces	SF	3360	0	2360	1000	0
3220	Crack (Wearing Surface)	SF	3360	0	2360	1000	0
(38)							
DELAM AT DECK DRAIN RT SIDE SPAN 2 SPALL AT DECK DRAIN SPAN 3 LT SIDE 18 LF OF EFFLORESCENCE SPAN 4 (38-510-3220)							
Asphalt overlay on deck is cracking							
215	Reinforced Concrete Abutment	LF	108	108	0	0	0
227	Reinforced Concrete Pile	EA	20	6	14	0	0
1190	Abrasion/Wear (PSC/RC)	EA	14	0	14	0	0
234	Reinforced Concrete Pier Cap	LF	160	139	21	0	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	2	0	2	0	0
1120	Efflorescence/Rust Staining	LF	16	0	16	0	0
(234)							
SPALL W/ REBAR EXPOSED ON BOTTOM OF BENT 3 CAP SPALL ON END OF CAP LT SIDE BENT 3							
330	Metal Bridge Railing	LF	280	138	142	0	0
1000	Corrosion	LF	140	0	140	0	0
7000	Damage	LF	2	0	2	0	0
515	Steel Protective Coating	SF	280	235	0	45	0
3440	Effectiveness (Steel Protective Coatings)	SF	45	0	0	45	0
(330)							
2 SF OF DAMAGE TO GUARDRAIL POST LT SIDE, END OF BRIDGE paint loss to bridge railings on left side							



Deck



AI



Asphalt overlay on deck is cracking



Alignment



Elevation



Asphalt overlay is cracking on deck



Asphalt overlay on deck



Paint loss to railings on leftside of bridge



Left side end bridge concrete post. Bridge railings

## Maintenance Needs

**Date Reported:** 01/09/2018  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** Repair  
**Status:** Monitor  
**Inspection Direction** W to E  
**Component:** 234 - Reinforced Concrete Pier Cap

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### Deficiency Description

SPALLS WITH REBAR EXPOSED VARIOUS LOCATIONS ON BENT 3 CAP

### Remarks

SPALLS WITH REBAR EXPOSED VARIOUS LOCATIONS ON BENT 3 CAP

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SPALLS W/ REBAR EXPOSED AT BENT 3  
BOTTOM OF CAP and in span 3 left side cap



BENT 3 SPAN 3 SIDE SPALLS W/ REBAR  
EXPOSED

**Date Reported:** 01/07/2020  
**Priority:** G - General/ Preventive maintenance  
**Type of Work:** Repair  
**Status:** Assigned  
**Inspection Direction** W to E  
**Component:** Channel

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**Deficiency Description**

Channel erosion down stream side

**Remarks**

Channel erosion down stream side

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Channel erosion down stream side



Channel erosion down stream side



**Bridge #03027**(Routine, Underwater type 2)

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**Location: 4.59 MI E HOWARD CO LN**

**Team Lead:** Charlie Rogers **Inspection Date:** January 10, 2022



Channel erosion down stream side



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**Team Lead:** Charlie Rogers **Inspection Date:** January 10, 2022

### **Inspection Comments**

01/09/2018...AL, SS, DECK, DEF. PHOTOS TAKEN. SPALLS WITH REBAR EXPOSED VARIOUS LOCATIONS ON BENT 3 CAP....01/06/2020. AL,SS,OTHER PHOTOS TAKEN.....1-10-22 AL,SS,Deck,also under deck photos taken per this inspection and soundings

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### **Deck Notes**

Asphalt overlay on deck is cracking

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### **Substructure Notes**

Bent 2 & 3 small Spalls with rebar exposed