



Latitude:34.34027, Longitude:-92.91087

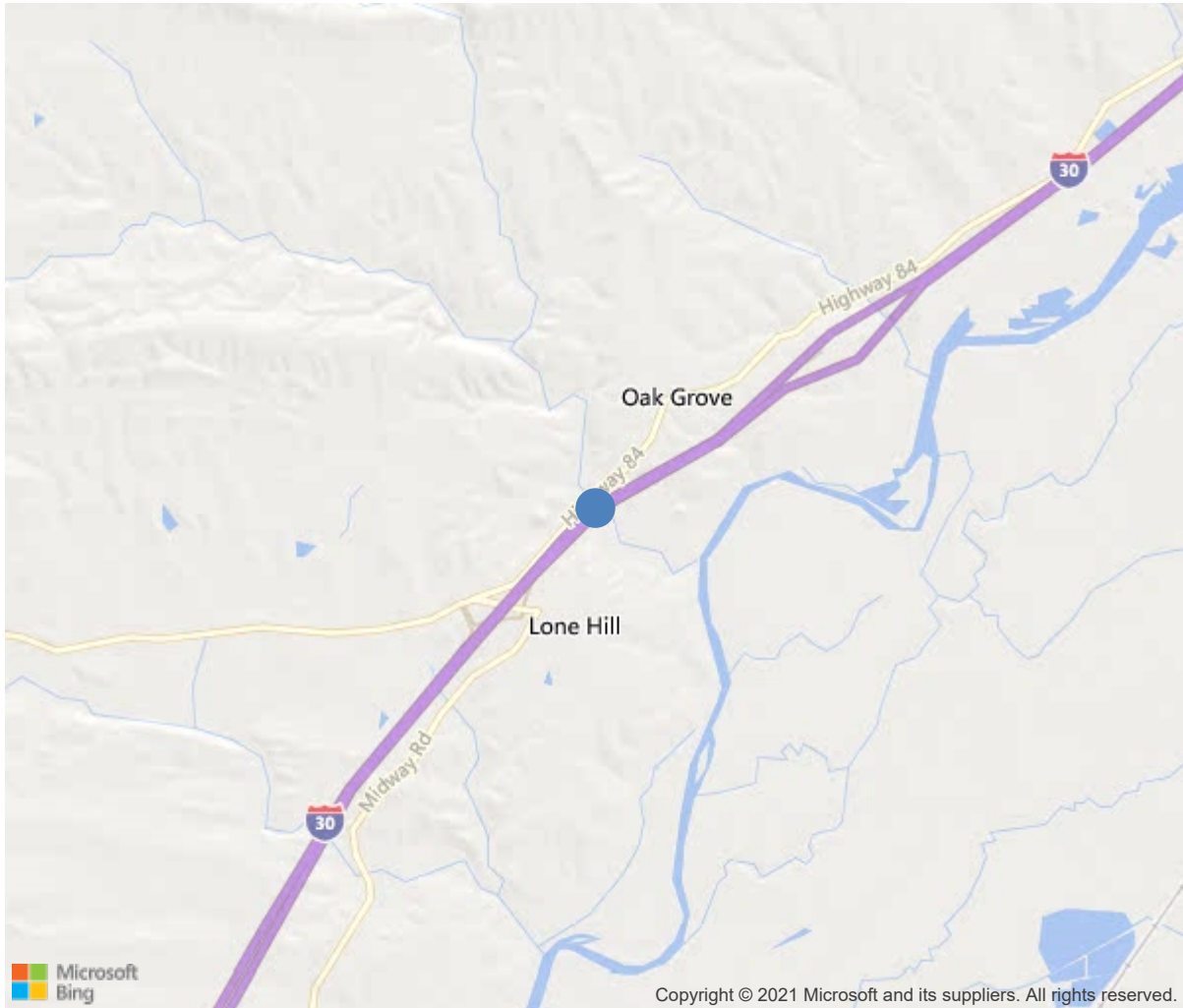
Route:30 Section:21 Log:91.77

Arnold Road ID:30x30x21xA, Arnold Log mile:91.718

District 06, Hot Spring County

Owner: 1-State Highway Agency

6.24 MI SO W OF US 270



34.34027, -92.91087



Bridge #B5025(Routine)

I-30 EB Log 91.77 over Blakley Crk, Acme Pit Rd

Location: 6.24 MI SO W OF US 270

Team Lead: Bryan Saunders Inspection Date: February 25, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	B5025
(5) Inventory Route	30
(2) Highway Agency District	06
(3) County Code	59-Hot Spring County, Arkansas
(4) Place Code	0
(6) Features Intersected	Blakley Crk, Acme Pit Rd
(7) Facility Carried	I-30 EB Log 91.77
(9) Location	6.24 MI SO W OF US 270
(11) Mile Point	91.77 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000030210
(16) Latitude	34.340271
(17) Longitude	-92.910866
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
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	6
(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 placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1967
(106) Year Reconstructed	2002
(42) Type of Service	16
On	1-Highway
Under	6-Highway-waterway
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	31000
(30) Year of ADT	2014
(109) Truck ADT	45 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	47 ft
(49) Structure Length	284 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	40 ft
(52) Deck Width Out to Out	43 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0-No median
(34) Skew	7 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	41 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.83 ft
Ref:	
(55) Min Lat Underclear RT	0 ft
Ref:	
(56) Min Lat Underclear LT	7.4 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	1
(26) Functional Class	1-Rural Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	R-The right structure of paralle
(102) Direction of Traffic	1 - way traffic
(103) Temporary Structure	
(105) Federal Lands Highways	0-N/A
(110) Designated National Network	1-The inventory route is part of the
(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	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	6-MS 18+Mod / HS 20+Mod
(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	6
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	7
(68) Deck Geometry	7
(69) Clearances, Vertical/Horizontal	2
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(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	320 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 190
(96) Total Project Cost	\$ 893
(97) Year of Improvement Cost Estimate	2000
(114) Future ADT	17465
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	02/2020
(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	No



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	12212	9376	2386	450	0
1080	Delamination/Spall/Patched Area	SF	1	0	1	0	0
1120	Efflorescence/Rust Staining	SF	60	0	60	0	0
1130	Cracking (RC and Other)	SF	2775	0	2325	450	0
(12)	Transverse and longitudinal cracks in all spans up to and above 0.050". Pothole in span 2. . Overhangs have cracks with efflorescence.						
107	Steel Open Girder/Beam	LF	1692	1692	0	0	0
515	Steel Protective Coating	SF	12619	0	12619	0	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	SF	12619	0	12619	0	0
202	Steel Column	EA	7	0	7	0	0
1000	Corrosion	EA	7	0	7	0	0
515	Steel Protective Coating	SF	600	404	175	21	0
3440	Effectiveness (Steel Protective Coatings)	SF	196	0	175	21	0
(202)	Freckling rust on all Pile.						
205	Reinforced Concrete Column	EA	16	10	4	2	0
1080	Delamination/Spall/Patched Area	EA	3	0	1	2	0
1190	Abrasion/Wear (PSC/RC)	EA	3	0	3	0	0
(205)	Bt. 3, column 3 has a delam. Bt. 3 & 4, columns 2 & 3 have light abrasion. Bt. 5, column 2 has a large spall, column 3 has small spalls.						
210	Reinforced Concrete Pier Wall	LF	45	45	0	0	0
215	Reinforced Concrete Abutment	LF	88	78	10	0	0
1120	Efflorescence/Rust Staining	LF	10	0	10	0	0
(215)	Cracks with efflorescence in the back walls.						
234	Reinforced Concrete Pier Cap	LF	205	205	0	0	0
302	Compression Joint Seal	LF	121	23	95	0	3
2310	Leakage	LF	3	0	0	0	3

Team Lead: Bryan Saunders, **Inspection Date:** February 25, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
2320 (302)	Seal Adhesion	LF	95	0	95	0	0
All joint seals have sections with loss of adhesion. Bt. 4, 3 of seal damage. Joints are pourable							
310	Elastomeric Bearing	EA	48	48	0	0	0
321	Reinforced Concrete Approach Slab	SF	2304	2300	4	0	0
1130	Cracking (RC and Other)	SF	4	0	4	0	0
331	Reinforced Concrete Bridge Railing	LF	564	502	62	0	0
1130 (331)	Cracking (RC and Other)	LF	62	0	62	0	0
Both rails have vertical cracks.							



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Maintenance Needs

Date Reported: 03/16/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Deck all spans have unsealed cracks.

Remarks



Span 6, deck cracks up to .050".



Span 4, large transverse cracks.

Date Reported: 02/27/2014
Priority: C - Important
Type of Work: Repair
Status: Open
Component: Deck

Deficiency Description

Deck span 2 has 1'x1' spall filled with asphalt.

Remarks



Span 2, spall filled with asphalt.



Spall filled with asphalt in deck at span 2.



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Span 2 right lane pothole.

Date Reported: 02/25/2020
Priority: C - Important
Type of Work: Clean
Status: Open
Component:

Deficiency Description

Vines growing on columns and caps on bent 2 and small trees growing under bridge in span 2.

Remarks



Bent 2, vines growing on columns and cap



Span 2, typical of 1.



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Inspection Comments

job b60115 dwg 39823

Logged eastbound