



Latitude:34.47134, Longitude:-92.98662

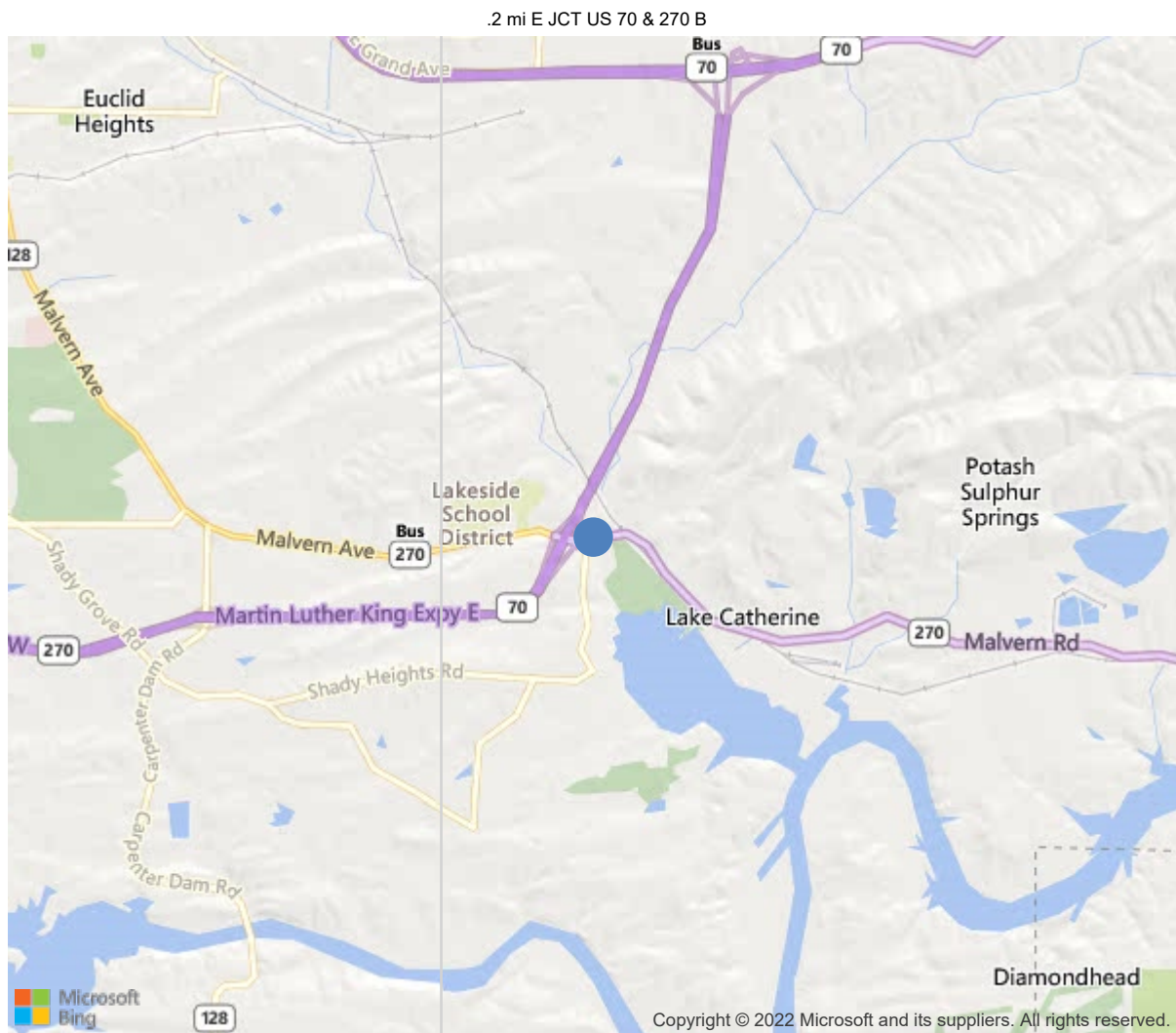
Route:270 Section:06 Log:4.389

Arnold Road ID:26x270x6xA, Arnold Log mile:4.389

District 06, Garland County

Owner: 1-State Highway Agency

Place Code: 33400 - Hot Springs



34.47134, -92.98662

Inspection Direction : W to E



Bridge #05780(Routine)

US 270-6 Log 4.39 over GULPHA CR

Location: .2 mi E JCT US 70 & 270 B

Team Lead: Shane Byrd Inspection Date: July 26, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05780
(5) Inventory Route	270
(2) Highway Agency District	06
(3) County Code	51-Garland County, Arkansas
(4) Place Code	33400
(6) Features Intersected	GULPHA CR
(7) Facility Carried	US 270-6 Log 4.39
(9) Location	.2 mi E JCT US 70 & 270 B
(11) Mile Point	4.389 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000270060
(16) Latitude	34.4713441149513
(17) Longitude	-92.9866164755291
(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	4
(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	1980
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	5
Under	0
(29) Average Daily Traffic	19000
(30) Year of ADT	2018
(109) Truck ADT	5 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	60 ft
(49) Structure Length	240 ft
(50) Curb or Sidewalk Width	
Left	4 ft
Right	4 ft
(51) Bridge Roadway Width Curb to Curb	58.1 ft
(52) Deck Width Out to Out	68 ft
(32) Approach Roadway Width (W/Shoulders)	58.1 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	65.9 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	1
(26) Functional Class	2-Rural Principal Arterial - Oth
(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	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	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	4
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	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(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	275 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 400
(96) Total Project Cost	\$ 1471
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	21000
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date			07/2021
(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.			



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US 270-6 Log 4.39 over GULPHA CR

Location: .2 mi E JCT US 70 & 270 B

Team Lead: Shane Byrd, Inspection Date: July 26, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	14520	8913	5607	0	0
1120	Efflorescence/Rust Staining	SF	99	0	99	0	0
1130	Cracking (RC and Other)	SF	708	0	708	0	0
1190	Abrasion/Wear (PSC/RC)	SF	4800	0	4800	0	0
510	Wearing Surfaces	SF	13842	13842	0	0	0
(12)	A polymer overlay has been placed on the deck sealing cracks and replacing joint seals. Job# 012350						
107	Steel Open Girder/Beam	LF	1680	1679	0	1	0
1000	Corrosion	LF	1	0	0	1	0
515	Steel Protective Coating	SF	15120	0	12096	3024	0
3410	Chalking (Steel Protective Coatings)	SF	15120	0	12096	3024	0
(107)	Girders Have chalking and freckled rust forming on lower flange of all girders. Bent 1 span 1 beam 3 active corrosion to bottom flange. pitting up to 3/16" deep.						
205	Reinforced Concrete Column	EA	9	7	2	0	0
1090	Exposed Rebar	EA	2	0	2	0	0
(205)	columns 1&2 at bent 2 have small spalls with rebar exposed						
215	Reinforced Concrete Abutment	LF	136	128	8	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	7	0	7	0	0
(215)	Fire damage at bent 1 abutment Bent 1 Abutment spall in the beam seat.						
234	Reinforced Concrete Pier Cap	LF	174	161	13	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	12	0	12	0	0
(234)	Bent 2 cap ahead has delam. Bent 2,3,&4 have scattered small cracks at the cap steps.						
301	Pourable Joint Seal	LF	291	270	0	21	0
2320	Seal Adhesion	LF	21	0	0	21	0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(301) Compression joint seals have been replaced with pourable joint seals under job # 012350 All pourable joint seals have small areas of adhesion failure.							
311	Movable Bearing	EA	28	0	28	0	0
1000	Corrosion	EA	28	0	28	0	0
(311) All bearings have light corrosion							
313	Fixed Bearing	EA	28	0	18	10	0
1000	Corrosion	EA	28	0	18	10	0
(313) Bent 1 bearings 1,2,3,&7 have laminating rust. Bearings 1,2,3,6& 7 at bent 5 abutment have heavy laminating rust All other bearings have light surface rust							
330	Metal Bridge Railing	LF	480	480	0	0	0
331	Reinforced Concrete Bridge Railing	LF	480	480	0	0	0



Elevation.



Span 2 left side soffit overhang has cracks with efflorescence.



Span 1 bent 1 beam 3 beam end has up to 1/16" pitting.



Bent 2 column 1 has small spall with exposed rebar.



Bent 1 abutment spall on the beam seat.



Bent 2 cap ahead has delam.



Bent 5 bearing 2 has heavy laminating rust.



Deck overview. A polymer overlay has been placed on the deck sealing cracks.



Approach Eastbound.



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Team Lead: Shane Byrd **Inspection Date:** July 26, 2021

Maintenance Needs

Date Reported: 06/23/2011
Priority: G - General/ Preventive maintenance
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Girders Have chalking and freckled rust forming on lower flange of all girders.

Remarks



Bridge #05780(Routine)
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Team Lead: Shane Byrd **Inspection Date:** July 26, 2021

Date Reported: 07/22/2019
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Potholes at east and west end of the bridge

Remarks



the west end of the bridge at bent 1 abutment has
two large potholes



Pothole at west end of bridge.



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Location: .2 mi E JCT US 70 & 270 B

Team Lead: Shane Byrd **Inspection Date:** July 26, 2021



East end of bridge has potholes.

Date Reported: 06/23/2011
Priority: C - Important
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Deck has large unsealed cracks and joint seals leaking and missing.

Remarks

A polymer overlay has been placed on the deck sealing cracks and replaced joint seals under Job 012350.



the deck has areas of light abrasion



Deck has large unsealed cracks



the deck has moderate deck cracks in all spans



All joint seals are torn and leaking bent 4 joint has fallen and is laying on the cap.



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Joint seal is at bent 4



Deck overview. A polymer overlay has been placed on the deck sealing cracks.

Date Reported: 06/23/2011
Priority: G - General/ Preventive maintenance
Type of Work: None
Status: Monitor
Component:

Deficiency Description

Bearings have Rust staining on all moveable bearings. Corrosion forming on all fixed bearings.

Remarks



all bearings have some form of surface or laminating rust with bent 5 abutment being the worst



Bent 5 bearing 2 has heavy laminating rust.



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Team Lead: Shane Byrd **Inspection Date:** July 26, 2021

Date Reported: 07/27/2021
Priority: C - Important
Type of Work: Clean
Status: Open
Component: Miscellaneous

Deficiency Description

Trees growing along side of bridge at spans 1&4 both sides.

Remarks



Span 4 right side has trees growing along side of bridge. Common left side.



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Team Lead: Shane Byrd **Inspection Date:** July 26, 2021

Inspection Comments

Approach going east. layout 22214.

A polymer overlay has been placed on the deck. MSB 7/27/2021

Sounding taken 07/27/2021. MSB

Deck quantity verified 7/22/19

Deck Notes

A polymer overlay has been placed on the deck sealing cracks. Job 012350

Soffit overhangs have scattered cracks with efflorescence.