Bridge #B6427(Routine)
US 270,EB Log 1.88 over SHADY GROVE RD
Location: 1.9 MI E SH7(Bypass)
Team Lead: Shane Byrd **Inspection Date:** July 08, 2020

Latitude:34.46401, Longitude:-93.02756

Route:270 Section:06 Log:1.88

Arnold Road ID:26x270x6xA, Arnold Log mile:1.862

District 06, Garland County

Owner: 1-State Highway Agency

Place Code: 33400 - Hot Springs

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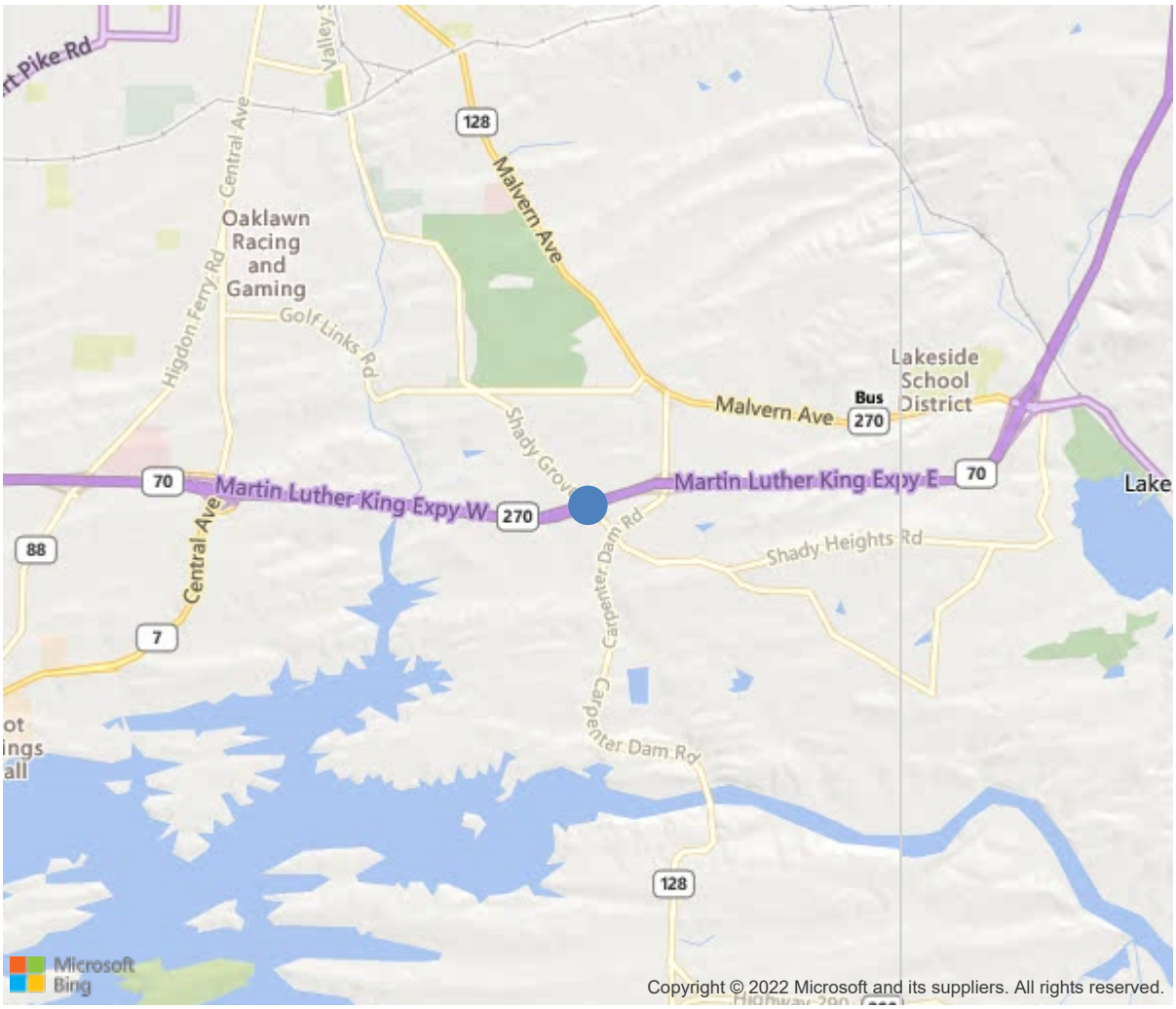

34.46401, -93.02756

Inspection Direction : W to E

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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	B6427
(5) Inventory Route	270
(2) Highway Agency District	06
(3) County Code	51-Garland County, Arkansas
(4) Place Code	33400
(6) Features Intersected	SHADY GROVE RD
(7) Facility Carried	US 270,EB Log 1.88
(9) Location	1.9 MI E SH7(Bypass)
(11) Mile Point	1.88 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000270060
(16) Latitude	34.464012
(17) Longitude	-93.027557
(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	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 placed
Type of Membrane	0-None
Type of Deck Protection	1-Epoxy Coated Reinforcing

AGE AND SERVICE	
(27) Year Built	1993
(106) Year Reconstructed	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	39000
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi

GEOMETRIC DATA	
(48) Length of Maximum Span	66 ft
(49) Structure Length	152 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	39.4 ft
(52) Deck Width Out to Out	42.3 ft
(32) Approach Roadway Width (W/Shoulders)	41 ft
(33) Bridge Median	0-No median
(34) Skew	16 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	40.4 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.75 ft
Ref:	
(55) Min Lat Underclear RT	15.5 ft
Ref:	
(56) Min Lat Underclear LT	24.3 ft

NAVIGATION DATA	
(38) Navigation Control	N-Not applicable, no waterway.
(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	12-Urban Principal Arterial - Oth
(100) Defense Highway	0-The inventory route is not a S
(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	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	8
(60) Substructure	8
(61) Channel & Channel Protection	N
(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	3
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	8
(68) Deck Geometry	6
(69) Clearances, Vertical/Horizontal	6
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	N-Bridge not over waterway.

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	
(114) Future ADT	22345
(115) Year of Future ADT	2028

INSPECTIONS *

(90) Inspection Date			07/2020
(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		

* 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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12	Reinforced Concrete Deck	SF	6515	5607	788	120	0
1120	Efflorescence/Rust Staining	SF	44	0	44	0	0
1130	Cracking (RC and Other)	SF	864	0	744	120	0
(12)							
Transverse and longitudinal cracks in all spans. Soffits have cracks with efflorescence.							
107	Steel Open Girder/Beam	LF	912	911	1	0	0
1020	Connection	LF	1	0	1	0	0
515	Steel Protective Coating	SF	6722	6038	684	0	0
3410	Chalking (Steel Protective Coatings)	SF	684	0	684	0	0
(107)							
Span 2 girder 2 loose bolt in splice plate on bottom flange. Exterior girder 6 is chalky.							
205	Reinforced Concrete Column	EA	4	4	0	0	0
(205)							
No apparent noteworthy defects at this inspection.							
215	Reinforced Concrete Abutment	LF	108	97	11	0	0
1120	Efflorescence/Rust Staining	LF	9	0	9	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(215)							
Both abutments have vertical cracks and cracks with efflorescence.							
234	Reinforced Concrete Pier Cap	LF	84	84	0	0	0
(234)							
No notable discrepancies at this locations.							
302	Compression Joint Seal	LF	85	37	48	0	0
2310	Leakage	LF	24	0	24	0	0
2320	Seal Adhesion	LF	24	0	24	0	0
(302)							
Both joints are leaking and have lost adhesion.							
310	Elastomeric Bearing	EA	24	24	0	0	0
(310)							

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
No apparent noteworthy defects at this inspection.							
331	Reinforced Concrete Bridge Railing	LF	304	259	45	0	0
1120	Efflorescence/Rust Staining	LF	15	0	15	0	0
1130	Cracking (RC and Other)	LF	30	0	30	0	0
(331)							
Concrete bridge rail have vertical cracks and cracks with efflorescence.							

Span 2 right side soffit overhang has cracks with efflorescence.

Deck overview.

Approach Eastbound.

Bent 1 abutment has cracks with efflorescence in the back wall.

Deck span 3 has longitudinal crack.

Deck span 2 has transverse cracks.

Bent 4 joint seal has lost bond and is leaking.

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Maintenance Needs

Date Reported:	07/09/2020
Priority:	C - Important
Type of Work:	Repair
Status:	Open
Component:	Approach

Deficiency Description

Asphalt approach at both abutments have settled.

Remarks

Asphalt approach at both abutments have settled.

Asphalt approach West approach has settled.

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Inspection Comments

Job #R60037, Drawing #32529 for layout.

The under route, Shady grove road is logged southbound from Belding ave. per addresses.