



Latitude:34.36851, Longitude:-92.81771

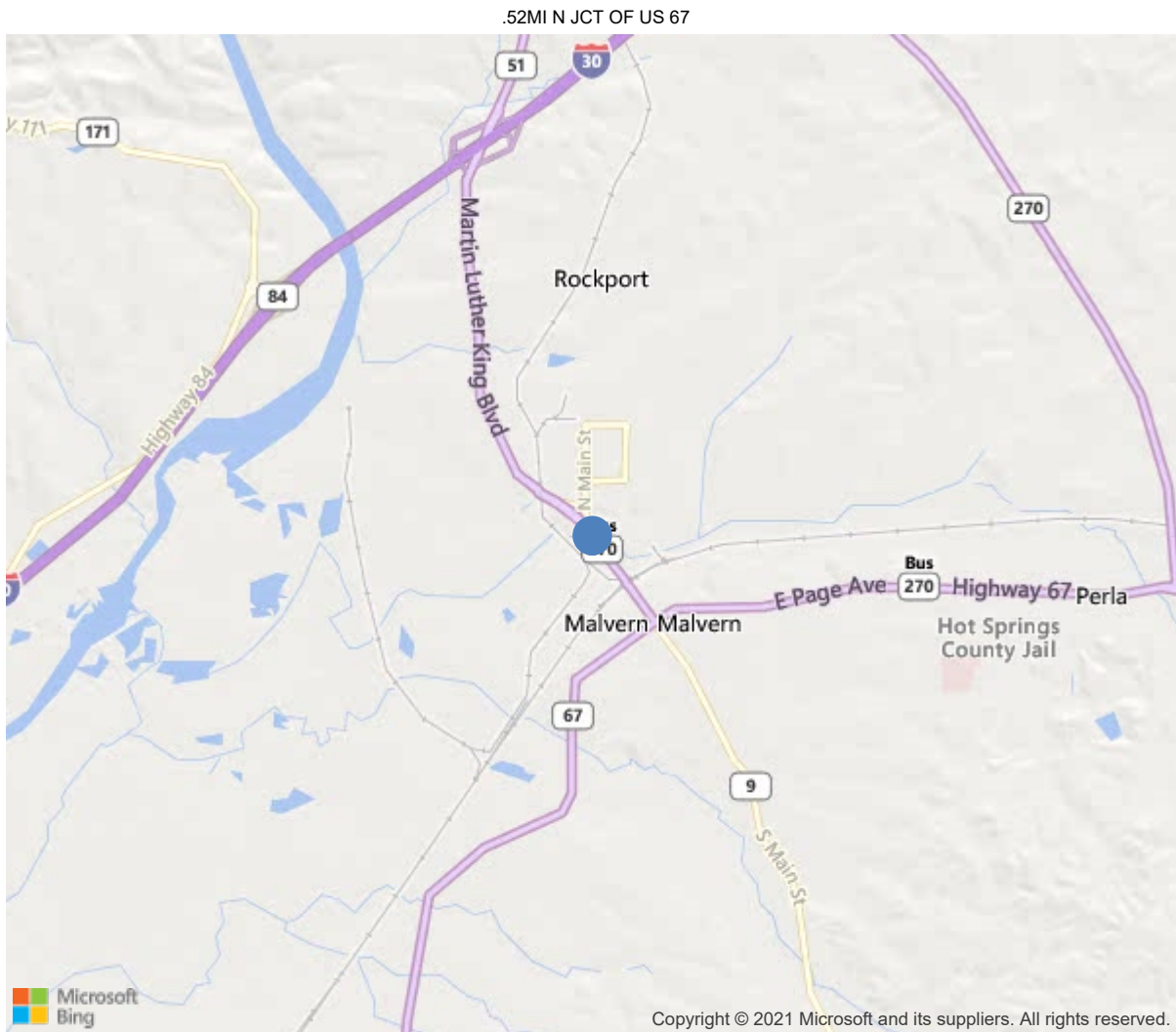
Route:270 Section:07 Log:2.07

Arnold Road ID:30x270x7BxA, Arnold Log mile:2.108

District 06, Hot Spring County

Owner: 1-State Highway Agency

Place Code: 40980 - MALVERN



34.36851, -92.81771



**Bridge #05833(Routine)**  
**US 270B-7 Log 2.07 over TOWN CREEK**

**Location: .52MI N JCT OF US 67**

**Team Lead: Bryan Saunders Inspection Date: January 13, 2020**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	05833
(5) Inventory Route	270
(2) Highway Agency District	06
(3) County Code	59-Hot Spring County, Arkansas
(4) Place Code	40980
(6) Features Intersected	TOWN CREEK
(7) Facility Carried	US 270B-7 Log 2.07
(9) Location	.52MI N JCT OF US 67
(11) Mile Point	2.07 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000270070
(16) Latitude	34.36851
(17) Longitude	-92.81771
(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	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	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	4
Under	0
(29) Average Daily Traffic	19000
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	90 ft
(50) Curb or Sidewalk Width	
Left	4 ft
Right	4 ft
(51) Bridge Roadway Width Curb to Curb	49.9 ft
(52) Deck Width Out to Out	60 ft
(32) Approach Roadway Width (W/Shoulders)	49.9 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	58.1 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	14-Urban Other Principal Arterial
(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	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	6
(68) Deck Geometry	3
(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	
(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	23287
(115) Year of Future ADT	2028
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	No

**Team Lead:** Bryan Saunders, **Inspection Date:** January 13, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	5400	5021	365	14	0
1080	Delamination/Spall/Patched Area	SF	5	0	3	2	0
1090	Exposed Rebar	SF	2	0	2	0	0
1120	Efflorescence/Rust Staining	SF	300	0	300	0	0
1130	Cracking (RC and Other)	SF	72	0	60	12	0
(38)							
One small spall near centerline at bent 3. All spans have unsealed deck cracks. (0.050 inch avg.) Spans 1,2 and 3 have cracks with efflorescence on the soffit. Span 2 has 2 exposed rebar.							
(38-1080)							
large spall in the deck at the joint at bent 3							
(38-1120)							
Longitudinal cracks down the center of the bridge all spans							
205	Reinforced Concrete Column	EA	6	6	0	0	0
215	Reinforced Concrete Abutment	LF	128	128	0	0	0
234	Reinforced Concrete Pier Cap	LF	100	88	5	7	0
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0
1090	Exposed Rebar	LF	4	0	0	4	0
1130	Cracking (RC and Other)	LF	5	0	5	0	0
(234)							
Bent 2, ahead side has a spall near centerline. Bent 3, back side near column 3, spall with exposed rebar and on the right end.							
301	Pourable Joint Seal	LF	100	0	90	10	0
2330	Seal Damage	LF	100	0	90	10	0
(301)							
All of the top sections of the seals have failed and have debris buildup							
321	Reinforced Concrete Approach Slab	SF	3770	3537	233	0	0
1080	Delamination/Spall/Patched Area	SF	3	0	3	0	0
1130	Cracking (RC and Other)	SF	230	0	230	0	0
(321)							
Both approach slabs have large diagonal cracks							



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
330	Metal Bridge Railing	LF	180	180	0	0	0
515	Steel Protective Coating	SF	180	0	180	0	0
3410	Chalking (Steel Protective Coatings)	SF	180	0	180	0	0
331	Reinforced Concrete Bridge Railing	LF	180	180	0	0	0





Soffit view



Spall with rebar in span 2





Approach looking south



Diagonal cracks in both of the approach slabs



Deck view



## Maintenance Needs

**Date Reported:** 01/26/2016  
**Priority:** C - Important  
**Type of Work:** Repair  
**Status:** Monitor  
**Component:**

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## Deficiency Description

All spans have unsealed cracks, 0.050 inch avg. Spalls in top of the slab at Bt. 3 in roadway & sidewalk.

## Remarks

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Left sidewalk, spall at bent 3



Span 3, above bent 3, spall near center line of slab.



Span 1, diagonal crack up to 1/8" wide.



Spall in the deck over bent 3



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**Inspection Comments**

job 6989 dwg 23143

Logged eastbound.