



Latitude:36.40601, Longitude:-92.87823

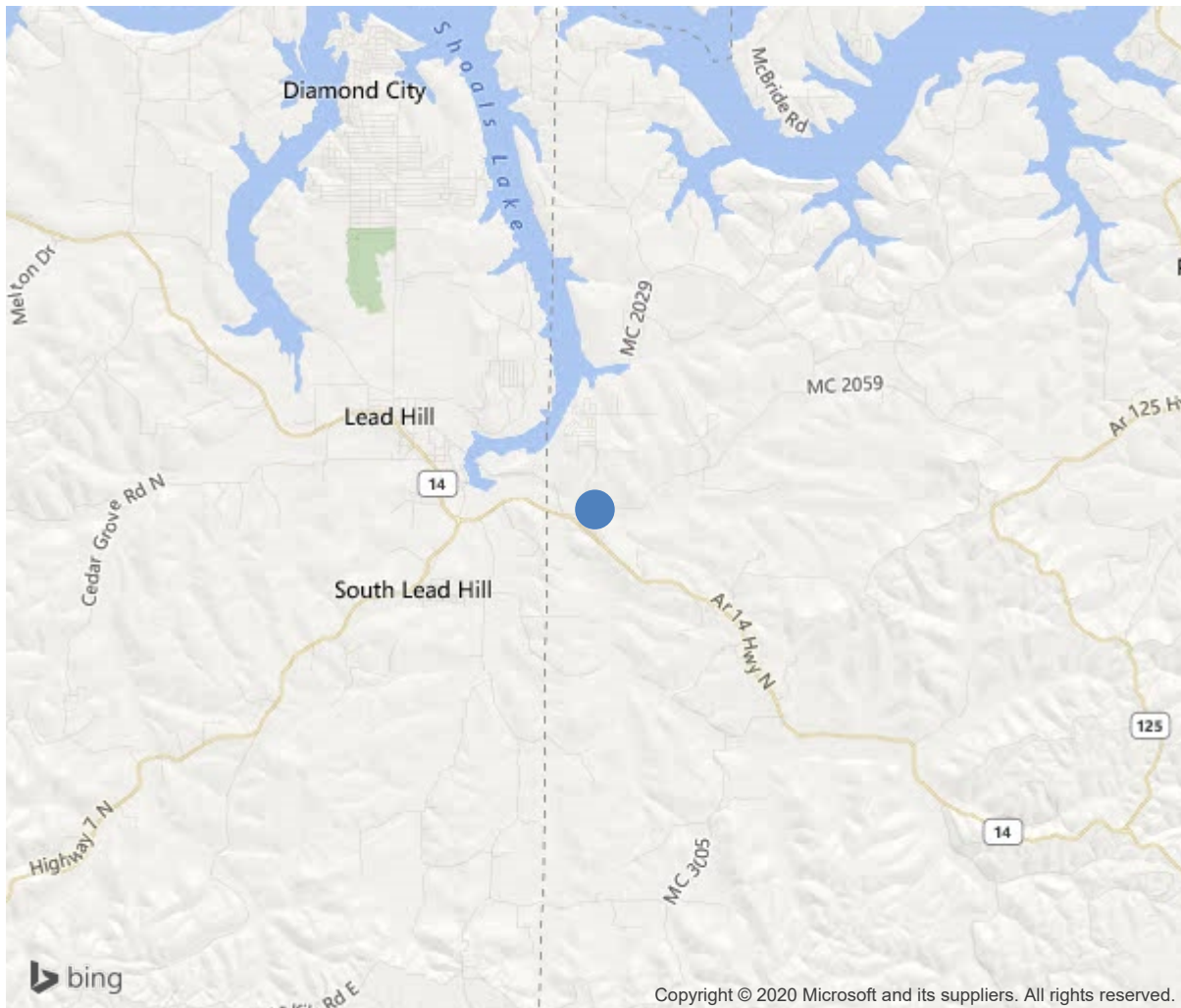
Route:268 Section:00 Log:0.31

Arnold Road ID:45x268x0xA, Arnold Log mile:0.308

District 09, Marion County

Owner: 1-State Highway Agency

0.31 MI E OF SH 14



36.40601, -92.87823



Bridge #M3776(Routine)

SH 268 Marion over LOCUST CREEK

Location: 0.31 MI E OF SH 14

Team Lead: Tommy Dohn Inspection Date: August 29, 2016

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	M3776
(5) Inventory Route	268
(2) Highway Agency District	09
(3) County Code	89-Marion County, Arkansas
(4) Place Code	0
(6) Features Intersected	LOCUST CREEK
(7) Facility Carried	SH 268 Marion
(9) Location	0.31 MI E OF SH 14
(11) Mile Point	0.31 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.40601
(17) Longitude	-92.87823
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1-Concrete
Type	22-Channel beam
(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	2-Concrete Precast Panels
(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	1965
(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	860
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	69 ft
(50) Curb or Sidewalk Width	
Left	0.7 ft
Right	0.7 ft
(51) Bridge Roadway Width Curb to Curb	20.7 ft
(52) Deck Width Out to Out	21.7 ft
(32) Approach Roadway Width (W/Shoulders)	22 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	22 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0-No navigation control on water
(111) Pier Protection	5-None present but re-evaluation
(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	8-Rural Minor 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	5
(59) Superstructure	6
(60) Substructure	4
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	1-MS 22.5 or greater; HS 25 or greater
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	50
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
Rating	30
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	4
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	6
(36) Traffic Safety Features	0000
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	5-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	94 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 109
(96) Total Project Cost	\$ 274
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	1162
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	Yes 0 201908



Bridge #M3776(Routine)

SH 268 Marion over LOCUST CREEK

Location: 0.31 MI E OF SH 14

Team Lead: Tommy Dohn, Inspection Date: August 29, 2016

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	1421	1361	0	60	0
1080	Delamination/Spall/Patched Area	SF	60	0	0	60	0
(12)	several large patches in deck some are unsound . 4.25% total patched area in deck.						
110	Reinforced Concrete Open Girder/Beam	LF	414	279	0	135	0
1080	Delamination/Spall/Patched Area	LF	135	0	0	135	0
(110)	patches areas on stems of channel beams.						
205	Reinforced Concrete Column	EA	4	0	4	0	0
1130	Cracking (RC and Other)	EA	4	0	4	0	0
(205)	cracking extends around three faces of column near top						
215	Reinforced Concrete Abutment	LF	51	51	0	0	0
234	Reinforced Concrete Pier Cap	LF	51	0	51	0	0
1130	Cracking (RC and Other)	LF	51	0	51	0	0
(234)	pier caps have cracking that extends from bottom of cap up the ahead and back faces in several locations near center of cap.						
333	Other Bridge Railing	LF	138	138	0	0	0



Approach with log mile



Channel view downstream



Channel view upstream



Bridge #M3776(Routine)

SH 268 Marion over LOCUST CREEK

Location: 0.31 MI E OF SH 14

Team Lead: Tommy Dohn **Inspection Date:** August 29, 2016

Maintenance Needs



Bridge #M3776(Routine)

SH 268 Marion over LOCUST CREEK

Location: 0.31 MI E OF SH 14

Team Lead: Tommy Dohn Inspection Date: August 29, 2016

Inspection Comments

TAD/BDS 8/29/16 Routine inspection only. Deck has some large patched areas that are not sound. Water is leaking along the edges and ends of channel beam units. Transverse efflorescence cracking was noted to underside of channel beam (deck) surface. Bents #1 and #2 concrete caps have structural cracks extending from bottom of cap up the ahead and back face of both caps. Measurements taken on the cracks in the caps in three separate locations. (see attached photos in report). Concrete columns #1 & #2 at both bents have structural cracks near top, extending from ahead face to outside face of columns. (see attached photos in report). Cracks have not propagated further since last inspection. Patched areas of channel beam stems have minor hairline flexure cracking in most locations. Bent #1 footings are exposed under both columns, but are poured on solid rock. TAD/BDS 8/12/15 Special inspection on substructure only. Bents #1 and #2 concrete caps have structural cracks extending from bottom of cap up the ahead and back face of both caps. Measurements taken on the cracks in the caps in three separate locations. (see attached photos in report). Concrete columns #1 & #2 at both bents have structural cracks near top, extending from ahead face to outside face of columns. (see attached photos in report). Bent #1 footings are exposed under both columns, but are poured on solid rock. Special Inspection TAD/BDS 8/6/2014 2' x 2' full depth hole in deck at beam # 3 span #1, Asphalt used in place of grout on bridge deck. TAD 8/7/2013 Concrete columns #1 & #2 at both bents have structural cracks near top. Span #1 channel beam #4 longitudinal crack to top portion of left leg. Span #1 right leg of beam #2 has longitudinal crack. Span #1 and #2 channel beams #3 #4 #5 and #6 deterioration, cracking with efflorescence. Bents #1 and #2 concrete caps have structural cracks. Measurements taken on the cracks in the caps.