



Latitude:35.45173, Longitude:-93.43421

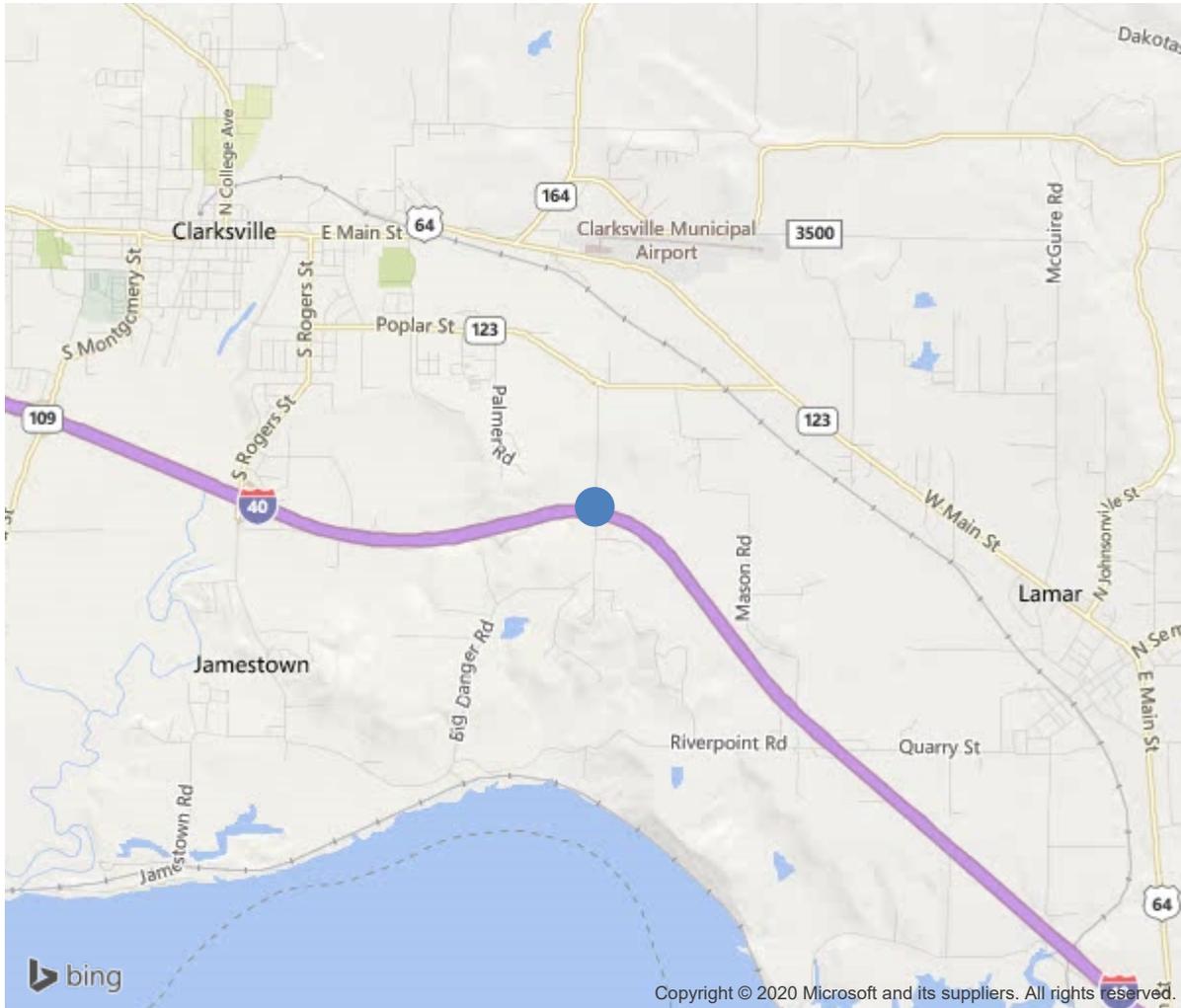
Route:40 Section:00 Log:0.61

Arnold Road ID:36xBIGDANGERRDx1xA, Arnold Log mile:0.618

District 08, Johnson County

Owner: 1-State Highway Agency

2.0 M East Of SH 103



35.45173, -93.43421



Bridge #03861 (Routine)
Big Danger Rd. over I 40-SEC 21
Location: 2.0 M East Of SH 103

Team Lead: Bruce Bryan Inspection Date: February 09, 2018

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03861
(5) Inventory Route	40
(2) Highway Agency District	08
(3) County Code	71-Johnson County, Arkansas
(4) Place Code	0
(6) Features Intersected	I 40-SEC 21
(7) Facility Carried	Big Danger Rd.
(9) Location	2.0 M East Of SH 103
(11) Mile Point	0.61 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.45173
(17) Longitude	-93.43421
(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	1965
(106) Year Reconstructed	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	750
(30) Year of ADT	2006
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	67 ft
(49) Structure Length	221 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28.6 ft
(32) Approach Roadway Width (W/Shoulders)	26.9 ft
(33) Bridge Median	0-No median
(34) Skew	10 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16 ft
Ref:	
(55) Min Lat Underclear RT	9.5 ft
Ref:	
(56) Min Lat Underclear LT	26.5 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	0
(26) Functional Class	7-Rural Major 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	6
(59) Superstructure	6
(60) Substructure	7
(61) Channel & Channel Protection	N
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	51
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	4
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	6
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	3
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	1111
A) Bridge Railings	1-Inspected feature meets currently a
B) Transitions	1-Inspected feature meets currently a
C) Approach Guardrail	1-Inspected feature meets currently a
D) 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	1003
(115) Year of Future ADT	2026
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	No 0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6263	3263	3000	0	0
1130	Cracking (RC and Other)	SF	3000	0	3000	0	0
(12)	MINOR TO MODERATE CRACKING & MINOR SCALE THROUGHOUT. MINOR SPALLING IN SPAN 1. MINOR CRACKING IN SOFFIT & OVERHANGS.						
107	Steel Open Girder/Beam	LF	1095	1083	12	0	0
1000	Corrosion	LF	4	0	4	0	0
7000	Damage	LF	8	0	8	0	0
515	Steel Protective Coating	SF	7265	3015	750	2500	1000
3410	Chalking (Steel Protective Coatings)	SF	750	0	750	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	2500	0	0	2500	0
3420	Peeling/Bubbling/Cracking	SF	1000	0	0	0	1000
(107)	COND. 1 - 1083 LF - MODERATE PEELING OF PAINT THROUGHOUT. COND. 2 - 12 LF - MINOR RUST IN HAUNCHED AREAS OF SOME BEAMS AT PIERS 2 - 4. TRAFFIC IMPACT - TRAFFIC IMPACT DAMAGE TO BEAM 1 IN SPAN 2. BOTTOM FLANGE OF BEAM IS DEFLECTED APPROX. 2" TOWARD BEAM 2. SMALL TEAR IN WEB NEAR BOTTOM OF BEAM. TEAR IS DIRECTLY BELOW CLIP ANGLE AT DIAPHRAGM CONNECTION BETWEEN BEAMS 1 & 2.						
205	Reinforced Concrete Column	EA	6	5	1	0	0
1090	Exposed Rebar	EA	1	0	1	0	0
(205)	COND. 1 - 5 EA - MINOR SCALE COND. 2 - 1 EA MINOR DELAM, CRACKING & SPALLING W / TIE WIRE EXPOSED IN COLUMN 1 AT PIER 4. TIE WIRE TOO CLOSE TO SURFACE.						
215	Reinforced Concrete Abutment	LF	58	58	0	0	0
234	Reinforced Concrete Pier Cap	LF	73	70	3	0	0
1090	Exposed Rebar	LF	3	0	3	0	0
(234)	COND. 1 - 70 LF - MINOR SCALE. COND. 2 - 3 LF - MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN AHD FACE OF CAP 4.						
305	Assembly Joint without Seal	LF	122	122	0	0	0
311	Movable Bearing	EA	20	20	0	0	0
515	Steel Protective Coating	SF	80	80	0	0	0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
313	Fixed Bearing	EA	20	20	0	0	0
515	Steel Protective Coating	SF	80	80	0	0	0
330	Metal Bridge Railing	LF	442	442	0	0	0
(330)	Aluminum Rail						
331	Reinforced Concrete Bridge Railing	LF	442	442	0	0	0
(331)	MINOR SCALE IN CONCRETE.						



Traffic Impact to Beam 1 in Span 2.



Roadway



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Maintenance Needs



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Team Lead: Bruce Bryan Inspection Date: February 09, 2018

Inspection Comments

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Deck Notes

DECK - MINOR TO MODERATE CRACKING & MINOR SCALE THROUGHOUT. MINOR SPALLING IN SPAN 1. MINOR CRACKING IN SOFFIT & OVERHANGS. ALUMINUM RAIL - GOOD CONCRETE RAIL - MINOR SCALE IN CONCRETE. SLIDE PLATES - GOOD

Superstructure Notes

5 BEAM PAINTED STEEL MULTI BEAM - COND. 1 - 1083 LF - MODERATE PEELING OF PAINT THROUGHOUT BEAMS. COND. 2 - 12 LF - MINOR RUST IN HAUNCHED AREAS OF SOME BEAMS AT PIERS 2 - 4. TRAFFIC IMPACT - TRAFFIC IMPACT DAMAGE TO BEAM 1 IN SPAN 2. BOTTOM FLANGE OF BEAM IS DEFLECTED APPROX. 2" TOWARD BEAM 2. SMALL TEAR IN WEB NEAR BOTTOM OF BEAM. TEAR IS DIRECTLY BELOW CLIP ANGLE AT DIAPHRAGM CONNECTION BETWEEN BEAMS 1 & 2. BEARINGS - GOOD

Substructure Notes

ABUTMENTS - GOOD COLUMNS - COND. 1 - 5 EA - MINOR SCALE COND. 2 - 1 EA MINOR DELAM, CRACKING & SPALLING W / TIE WIRE EXPOSED IN COLUMN 1 AT PIER 4. TIE WIRE TOO CLOSE TO SURFACE. CAPS - COND. 1 - 70 LF - MINOR SCALE. COND. 2 - 3 LF - MINOR DELAM, CRACKING & SPALLING W / REBAR EXPOSED IN AHD FACE OF CAP 4.