



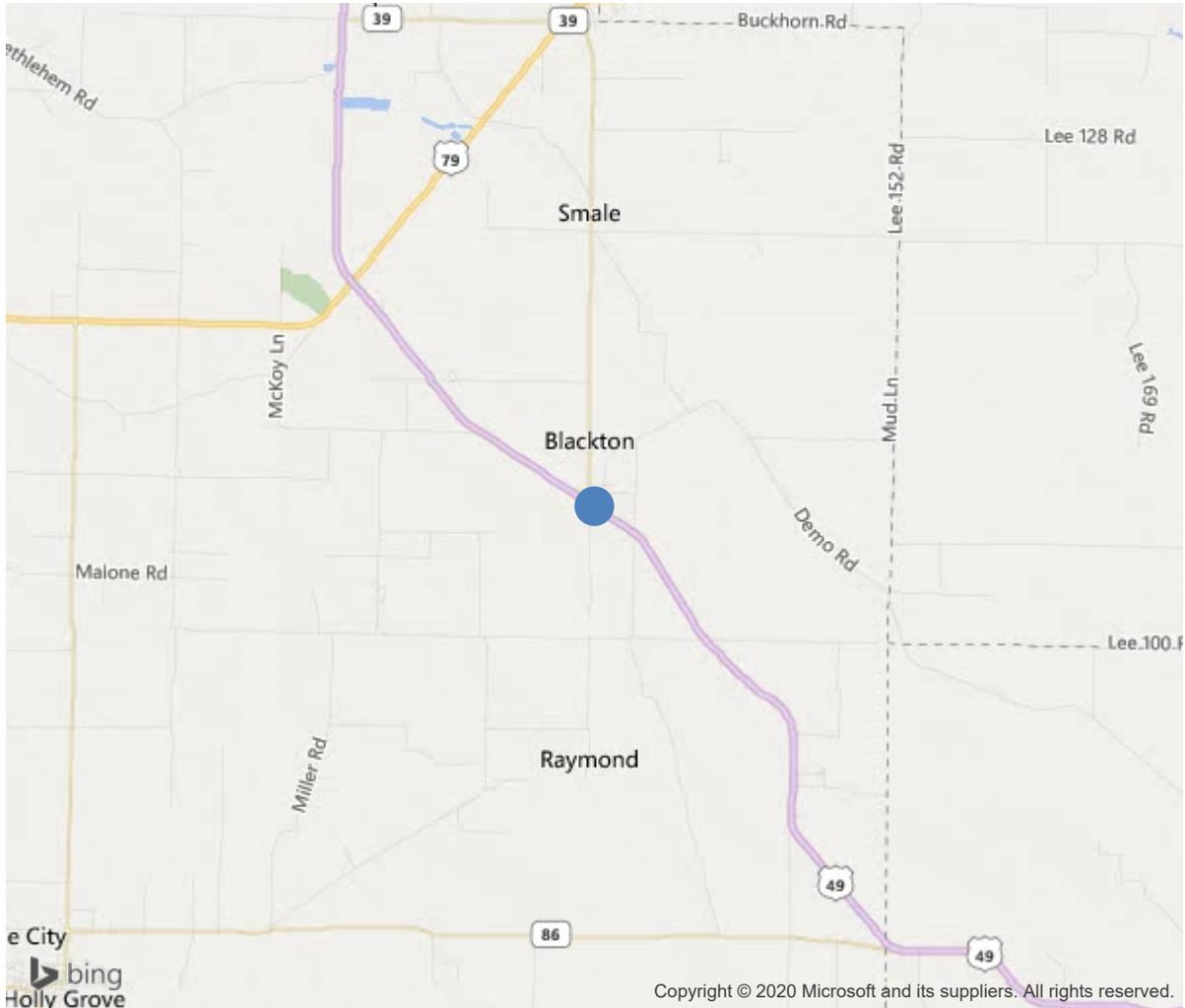
**Bridge #02431 (Routine)**

**Us-49/Sec-9/L16.46 over Turtle Creek**

**Location: SO OUTSKIRTS OF BLACKTON**

**Team Lead: Myron Futrell Inspection Date: November 08, 2018**

SO OUTSKIRTS OF BLACKTON



34.66520, -91.10331



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02431
(5) Inventory Route	49
(2) Highway Agency District	01
(3) County Code	95-Monroe County, Arkansas
(4) Place Code	0
(6) Features Intersected	Turtle Creek
(7) Facility Carried	Us-49/Sec-9/L16.46
(9) Location	SO OUTSKIRTS OF BLACKTON
(11) Mile Point	16.46 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000049090
(16) Latitude	34.66520
(17) Longitude	-91.10331
(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	5
(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	1962
(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	1924
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	125 ft
(50) Curb or Sidewalk Width	
Left	1.4 ft
Right	1.4 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	31.5 ft
(32) Approach Roadway Width (W/Shoulders)	30.8 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	30.8 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	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	8
(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	52
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	5
Rating	31
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	0101
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	1-Inspected feature meets currently a
C) Approach Guardrail	0-Inspected feature does not meet cur
D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	5-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	
(114) Future ADT	2594
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	201811
(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

SUFFICIENCY RATING	80.3
STATUS (SD/FO/None)	Not Deficient



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3938	3336	602	0	0
1080	Delamination/Spall/Patched Area	SF	2	0	2	0	0
1120	Efflorescence/Rust Staining	SF	50	0	50	0	0
1130	Cracking (RC and Other)	SF	550	0	550	0	0
(38)							
All spans have open transverse and longitudinal cracks. Deck has a one foot spall in span #5 left lane at bent #5 one foot long six inch wide no exposed rebar. Spans #2,4 soffit have longitudinal cracks with light efflorescence at center line. Span #3 at bent #3 soffit has a one foot small delamination.							
227	Reinforced Concrete Pile	EA	20	20	0	0	0
234	Reinforced Concrete Pier Cap	LF	210	200	8	2	0
1090	Exposed Rebar	LF	10	0	8	2	0
(234)							
All caps have several one inch pieces of exposed rebar on faces. Bent #3 cap back face has an eighteen inch and a six inch piece of exposed rebar with 5% section loss.							
301	Pourable Joint Seal	LF	158	108	50	0	0
2330	Seal Damage	LF	50	0	50	0	0
(301)							
All interior bent joints have areas of missing joint material.							
330	Metal Bridge Railing	LF	250	249	1	0	0
7000	Damage	LF	1	0	1	0	0
515	Steel Protective Coating	SF	750	750	0	0	0
(330)							
Abutment #1 right end post at approach rail connection has collision damage.							



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## **Maintenance Needs**



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### Inspection Comments

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