



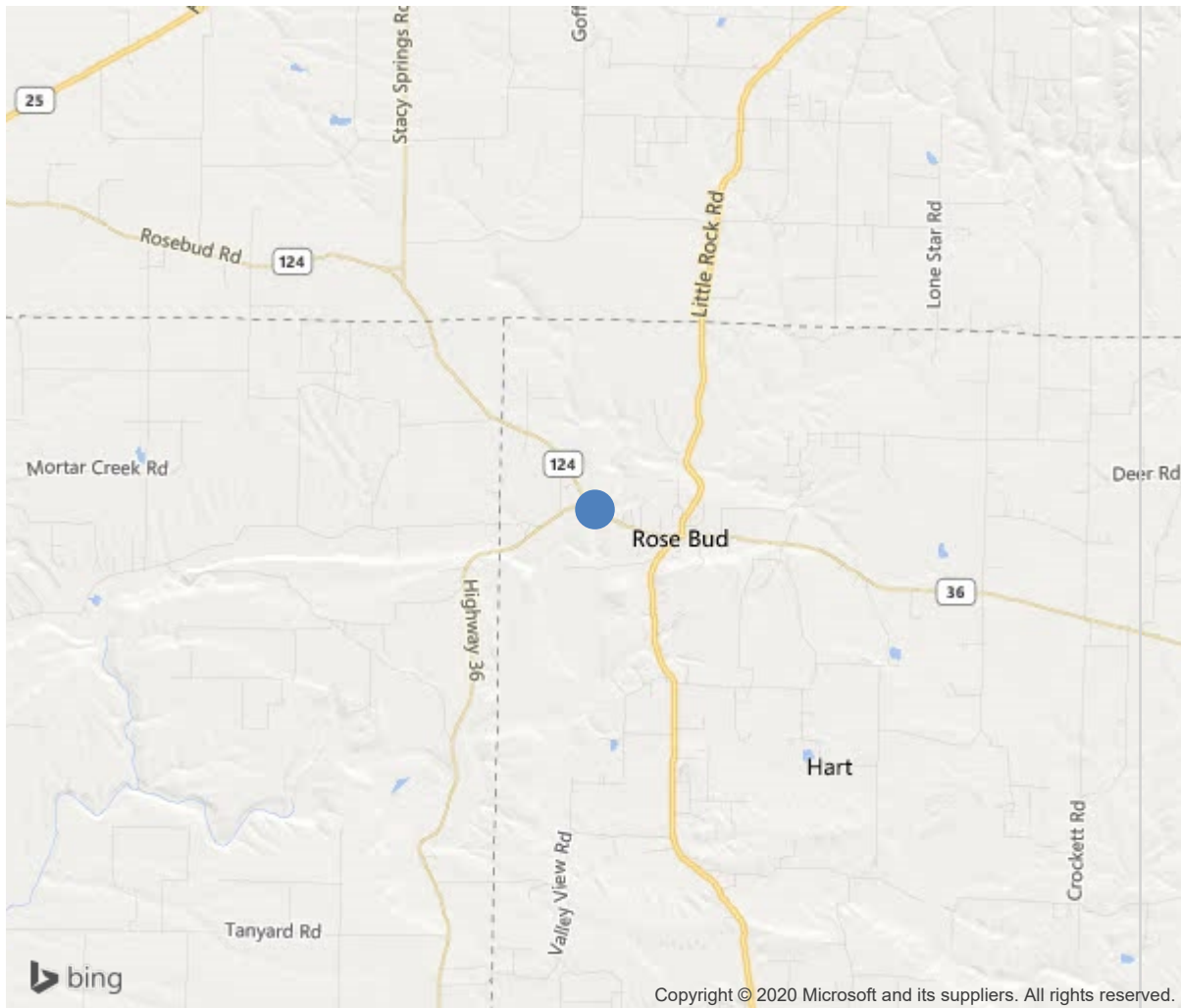
Bridge #03105(Routine)

SH 36 White County over Cadron Creek

Location: 0.1 MI SE JCT OF SH 124

Team Lead: Kerry Little **Inspection Date:** September 17, 2019

0.1 MI SE JCT OF SH 124



35.33499, -92.09544



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Location: 0.1 MI SE JCT OF SH 124

Team Lead: Kerry Little Inspection Date: September 17, 2019

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03105
(5) Inventory Route	36
(2) Highway Agency District	05
(3) County Code	145-White County, Arkansas
(4) Place Code	0
(6) Features Intersected	Cadron Creek
(7) Facility Carried	SH 36 White County
(9) Location	0.1 MI SE JCT OF SH 124
(11) Mile Point	1.12 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.33499
(17) Longitude	-92.09544
(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	9
(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	1958
(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	3300
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	22 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	28 ft
(49) Structure Length	252 ft
(50) Curb or Sidewalk Width	
Left	1.3 ft
Right	1.3 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.5 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 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	25.9 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	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	6
(61) Channel & Channel Protection	7
(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	46
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	9
Rating	28
(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	2
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36) Traffic Safety Features	0011
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	1-Inspected feature meets currently a
D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	8-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	287 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 125
(96) Total Project Cost	\$ 631
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	5827
(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	No 0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	6678	691	2277	3710	0
1080	Delamination/Spall/Patched Area	SF	407	0	407	0	0
1090	Exposed Rebar	SF	10	0	0	10	0
1130	Cracking (RC and Other)	SF	200	0	0	200	0
1190	Abrasion/Wear (PSC/RC)	SF	5370	0	1870	3500	0
510	Wearing Surfaces	SF	6048	5852	196	0	0
3220	Crack (Wearing Surface)	SF	192	0	192	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	4	0	4	0	0
(38)							
Cracking to wearing surface @ joints. Few random Spalls to deck wearing surface. Minor cracking to soffit. See Attached Form III for detailed descriptions and locations of deficiencies.							
205	Reinforced Concrete Column	EA	16	6	7	3	0
1080	Delamination/Spall/Patched Area	EA	1	0	0	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	8	0	7	1	0
(205)							
Bents 1, 2, 5, 7 & 8 have minor cracks on Column 1 &/or 2. Bents 1, 2, 3, 7 & 8 - Transverse cracks &/or spalls to concrete diaphragms between columns. See Attached Form III for detailed descriptions and locations of deficiencies.							
210	Reinforced Concrete Pier Wall	LF	168	138	3	27	0
1080	Delamination/Spall/Patched Area	LF	6	0	3	3	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	22	0	0	22	0
(210)							
See Form III							
215	Reinforced Concrete Abutment	LF	74	55	19	0	0
6000	Scour	LF	19	0	19	0	0
(215)							
Minor erosion to slope at Abutments 1 & 2.							
220	Reinforced Concrete Pile Cap/Footing	LF	30	0	18	12	0
6000	Scour	LF	30	0	18	12	0

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(220)							
Bent 4, 5 & 6 Footing exposed to Left & Right columns. Footings tied into solid rock.							
234	Reinforced Concrete Pier Cap	LF	220	100	18	102	0
1080	Delamination/Spall/Patched Area	LF	103	0	18	85	0
1090	Exposed Rebar	LF	9	0	0	9	0
1130	Cracking (RC and Other)	LF	8	0	0	8	0
(234)							
Minor spall to back side of Cap @ Bent 1 over Column 2. Bent 2 - Areas of delamination to ahead side of Cap. Bent 3 - Spall with 8" rebar exposed to bottom of Cap. Bent 6 - Large spall to back Left & Right side of Cap with 1' rebar exposed. Bent 7 - Large spall to Left end of Cap on back side. Bent 8 - Large spall to Left end of Cap on back side. Heavy deterioration to Cap @ Span 6 & 7 Minor spalls &/or cracking to Cap @ all Bents. See Attached Form III for detailed descriptions and locations of deficiencies.							
330	Metal Bridge Railing	LF	504	0	502	2	0
1000	Corrosion	LF	501	0	501	0	0
1010	Cracking	LF	1	0	1	0	0
7000	Damage	LF	2	0	0	2	0
515	Steel Protective Coating	SF	1512	0	756	0	756
3440	Effectiveness (Steel Protective Coatings)	SF	1512	0	756	0	756
(330)							
Paint flaking & rusting. Right Approach Guard Rail bent. 1st & 2nd Post back on Right of Abutment 2 is spalled with rebar exposed and Post 5 is cracked.							



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Maintenance Needs



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Inspection Comments

Log Mile looking Southeast
Const. job 5445