



Latitude:34.86335, Longitude:-92.19888

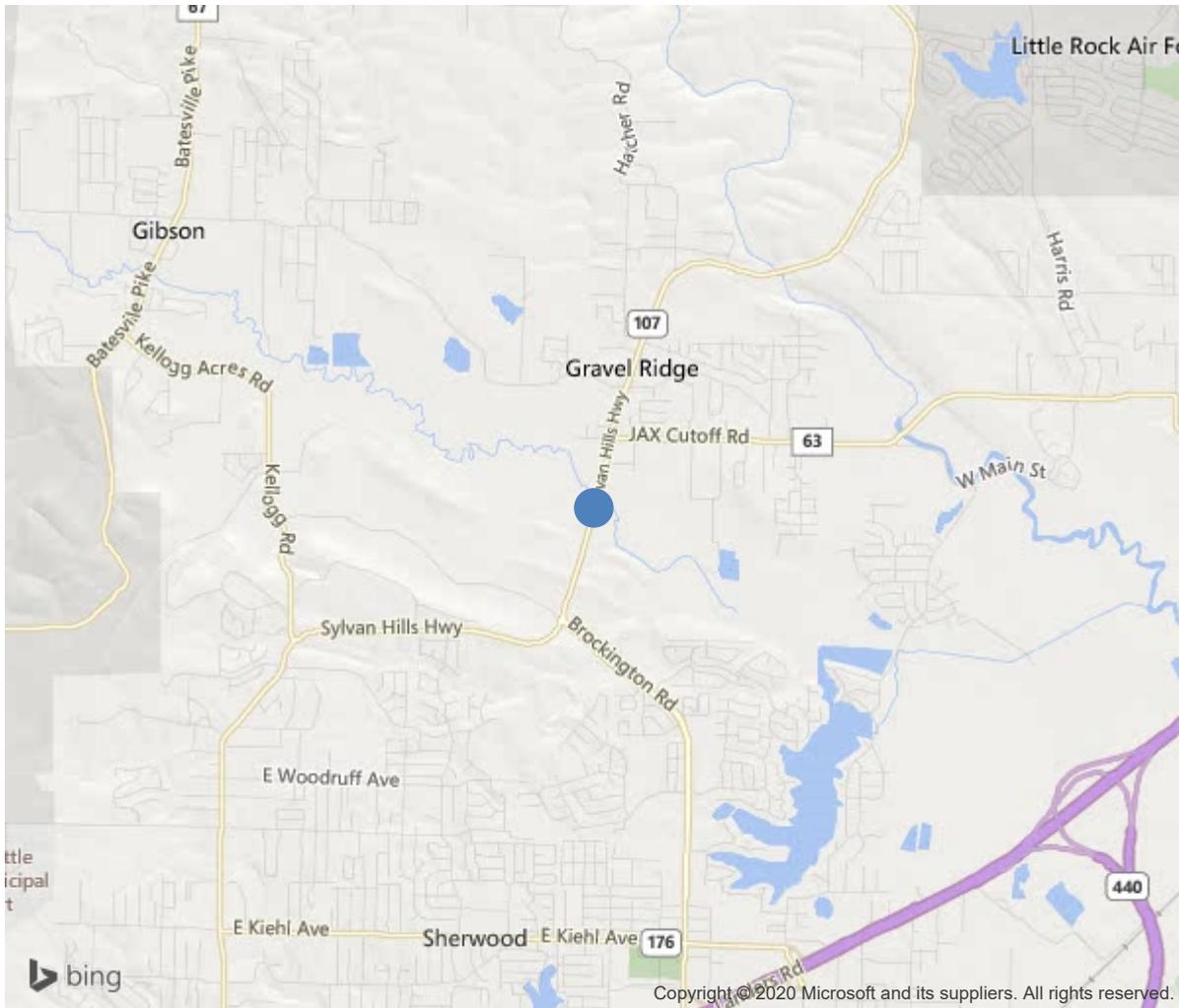
Route:107 Section:01 Log:8.138

Arnold Road ID:60x107x1xA, Arnold Log mile:8.122

District 06, Pulaski County

Owner: 1-State Highway Agency

8.14 MI N OF I-40



34.86335, -92.19888



**Bridge #06440(Routine)**  
**SH 107 Log 8.14 over KELLOG CREEK**  
**Location: 8.14 MI N OF I-40**

**Team Lead: Shane Byrd Inspection Date: July 10, 2019**

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06440
(5) Inventory Route	107
(2) Highway Agency District	06
(3) County Code	119-Pulaski County, Arkansas
(4) Place Code	0
(6) Features Intersected	KELLOG CREEK
(7) Facility Carried	SH 107 Log 8.14
(9) Location	8.14 MI N OF I-40
(11) Mile Point	8.138 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000107010
(16) Latitude	34.86335
(17) Longitude	-92.19888
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4-Steel continuous
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	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	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1997
(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	25000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	44 ft
(49) Structure Length	122 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	67.9 ft
(52) Deck Width Out to Out	70.8 ft
(32) Approach Roadway Width (W/Shoulders)	53.1 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	68.9 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			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			7
(59) Superstructure			8
(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			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			7
(68) Deck Geometry			9
(69) Clearances, Vertical/Horizontal			N
(71) Waterway Adequacy			8
(72) Approach Roadway Alignment			8
(36) Traffic Safety Features			1001
A) Bridge Railings	1-Inspected feature meets currently a		
B) Transitions	0-Inspected feature does not meet cur		
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			19443
(115) Year of Future ADT			2028
INSPECTIONS			
(90) Inspection Date			201907
(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	87.4
STATUS (SD/FO/None)	Not Deficient



Bridge #06440(Routine)

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	8648	7894	754	0	0
1130	Cracking (RC and Other)	SF	754	0	754	0	0
(12)							
All spans have longitudinal cracks spaced at or near most beams. 0.040 avg.							
107	Steel Open Girder/Beam	LF	1080	1080	0	0	0
515	Steel Protective Coating	SF	6545	0	6545	0	0
3430	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	SF	6545	0	6545	0	0
215	Reinforced Concrete Abutment	LF	182	0	182	0	0
1120	Efflorescence/Rust Staining	LF	160	0	160	0	0
1130	Cracking (RC and Other)	LF	22	0	22	0	0
(215)							
Both abutments have horizontal cracks across the entire face of the beam seat. 0.020 avg. the back wall of doth abutments have vertical crack with efflorescence.							
225	Steel Pile	EA	18	18	0	0	0
515	Steel Protective Coating	SF	904	452	452	0	0
3440	Effectiveness (Steel Protective Coatings)	SF	452	0	452	0	0
(225)							
H beam encased with concrete.							
234	Reinforced Concrete Pier Cap	LF	138	138	0	0	0
302	Compression Joint Seal	LF	142	142	0	0	0
311	Movable Bearing	EA	18	18	0	0	0
313	Fixed Bearing	EA	18	18	0	0	0
331	Reinforced Concrete Bridge Railing	LF	244	202	42	0	0
1130	Cracking (RC and Other)	LF	42	0	42	0	0
(331)							
Left and right rail has vertical cracks measuring 0.020							



Northbound approach guard rail end treatment damaged.



Deck overview



Deck span 2 longitudinal cracks. Common all spans.



Bent 2 pile 5 protective coating rust with pitting. Common all pile bents 2 & 3.



Approach looking Northbound



Elevation



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## **Maintenance Needs**



**Bridge #06440**(Routine)  
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**Team Lead:** Shane Byrd **Inspection Date:** July 10, 2019

**Inspection Comments**

AHTD Job 060318, 32590

Logged Northbound

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