



Latitude:34.83072, Longitude:-92.18164

Route:176 Section:02 Log:2.89

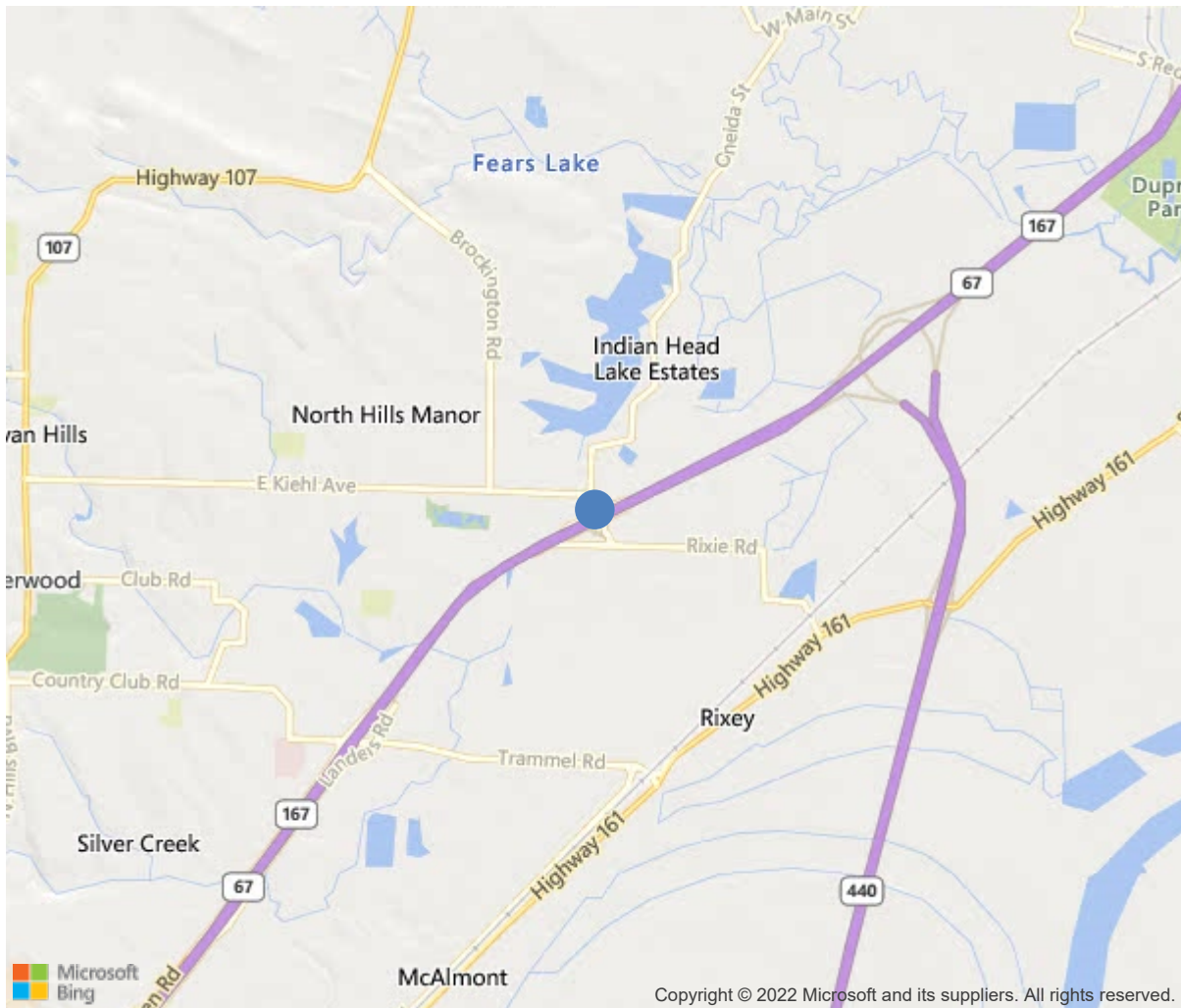
Arnold Road ID:60x176x2xA, Arnold Log mile:2.901

District 06, Pulaski County

Owner: 1-State Highway Agency

Place Code: 63800 - Sherwood

5 Mi N of I-40



34.83072, -92.18164



Bridge #07053(Routine)

SH 176 Kiehl Ave. over US 67 Log 4.95

Location: 5 Mi N of I-40

Team Lead: Chris Doggett Inspection Date: March 08, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	07053
(5) Inventory Route	176
(2) Highway Agency District	06
(3) County Code	119-Pulaski County, Arkansas
(4) Place Code	63800
(6) Features Intersected	US 67 Log 4.95
(7) Facility Carried	SH 176 Kiehl Ave.
(9) Location	5 Mi N of I-40
(11) Mile Point	2.89 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.83072
(17) Longitude	-92.18164
(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	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	1-Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	2007
(106) Year Reconstructed	0
(42) Type of Service	11
On	1-Highway
Under	1-Highway, with or without pedestrian
(28) Lane	
On	2
Under	10
(29) Average Daily Traffic	16000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	0 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	79 ft
(49) Structure Length	318.2 ft
(50) Curb or Sidewalk Width	
Left	6 ft
Right	6 ft
(51) Bridge Roadway Width Curb to Curb	58.1 ft
(52) Deck Width Out to Out	73.1 ft
(32) Approach Roadway Width (W/Shoulders)	58.1 ft
(33) Bridge Median	2-Closed median(no barr
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	69.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.9 ft
(54) Min Vert Underclear	21.58 ft
Ref:	
(55) Min Lat Underclear RT	29.6 ft
Ref:	
(56) Min Lat Underclear LT	10 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	16-Urban Minor 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	4-Historical significance is not dete
CONDITION	
(58) Deck	7
(59) Superstructure	8
(60) Substructure	8
(61) Channel & Channel Protection	N
(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	4
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	8
(68) Deck Geometry	9
(69) Clearances, Vertical/Horizontal	6
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) 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	19443
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			03/2021
(91) Frequency			24 Months
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			



**Bridge #07053(Routine)**  
**SH 176 Kiehl Ave. over US 67 Log 4.95**

**Location: 5 Mi N of I-40**

**Team Lead: Chris Doggett, Inspection Date: March 08, 2021**

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	23279	20945	2334	0	0
1120	Efflorescence/Rust Staining	SF	438	0	438	0	0
1130	Cracking (RC and Other)	SF	1896	0	1896	0	0
(12)	Longitudinal cracks up to 0.020" wide and transverse cracks up to 0.035" wide. Soffit has transverse cracks with efflorescence on the over hangs and between beams 4 & 5. No stay in place forms due to stage construction.						
107	Steel Open Girder/Beam	LF	2844	2844	0	0	0
515	Steel Protective Coating	SF	28724	28722	2	0	0
3420	Peeling/Bubbling/Cracking	SF	2	0	2	0	0
(107)	Paint peeled at span 3, girder 3 bottom flange. (107-515) Paint peeled at span 3, girder 3 bottom flange.						
205	Reinforced Concrete Column	EA	12	12	0	0	0
215	Reinforced Concrete Abutment	LF	286	286	0	0	0
(215)	Both abutments have scattered small vertical cracks. Abutment quantizes include retaining walls.						
234	Reinforced Concrete Pier Cap	LF	210	204	6	0	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
(234)	Scattered small hairline cracks in steps of caps.						
301	Pourable Joint Seal	LF	146	36	0	96	14
2310	Leakage	LF	14	0	0	0	14
2320	Seal Adhesion	LF	96	0	0	96	0
(301)	Joint seal has areas where joint seal is lost bond.						
310	Elastomeric Bearing	EA	45	45	0	0	0
330	Metal Bridge Railing	LF	632	632	0	0	0
515	Steel Protective Coating	SF	632	632	0	0	0
331	Reinforced Concrete Bridge Railing	LF	632	427	205	0	0



Bridge #07053(Routine)  
SH 176 Kiehl Ave. over US 67 Log 4.95  
Location: 5 Mi N of I-40

Team Lead: Chris Doggett, Inspection Date: March 08, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1130 (331)	Cracking (RC and Other)  Scattered cracks in bridge railing.	LF	205	0	205	0	0





Bent 5: Joint seal has lost bond in numerous locations.



Bent 1: joint seal is losing bond allowing water to seep through.





Span 3, girder 3: Area of paint is peeling.



Overhang with numerous transverse cracks with efflorescence build up.



Soffit view



Bent 5 has horizontal cracking





Inventory looking east



Deck view



**Bridge #07053**(Routine)  
**SH 176 Kiehl Ave. over US 67 Log 4.95**

**Location: 5 Mi N of I-40**

**Team Lead:** Chris Doggett **Inspection Date:** March 08, 2021

## **Maintenance Needs**



**Bridge #07053**(Routine)  
**SH 176 Kiehl Ave. over US 67 Log 4.95**

**Location: 5 Mi N of I-40**

**Team Lead:** Chris Doggett **Inspection Date:** March 08, 2021

### **Inspection Comments**

Logged Eastbound