



Latitude:35.35180, Longitude:-90.27543

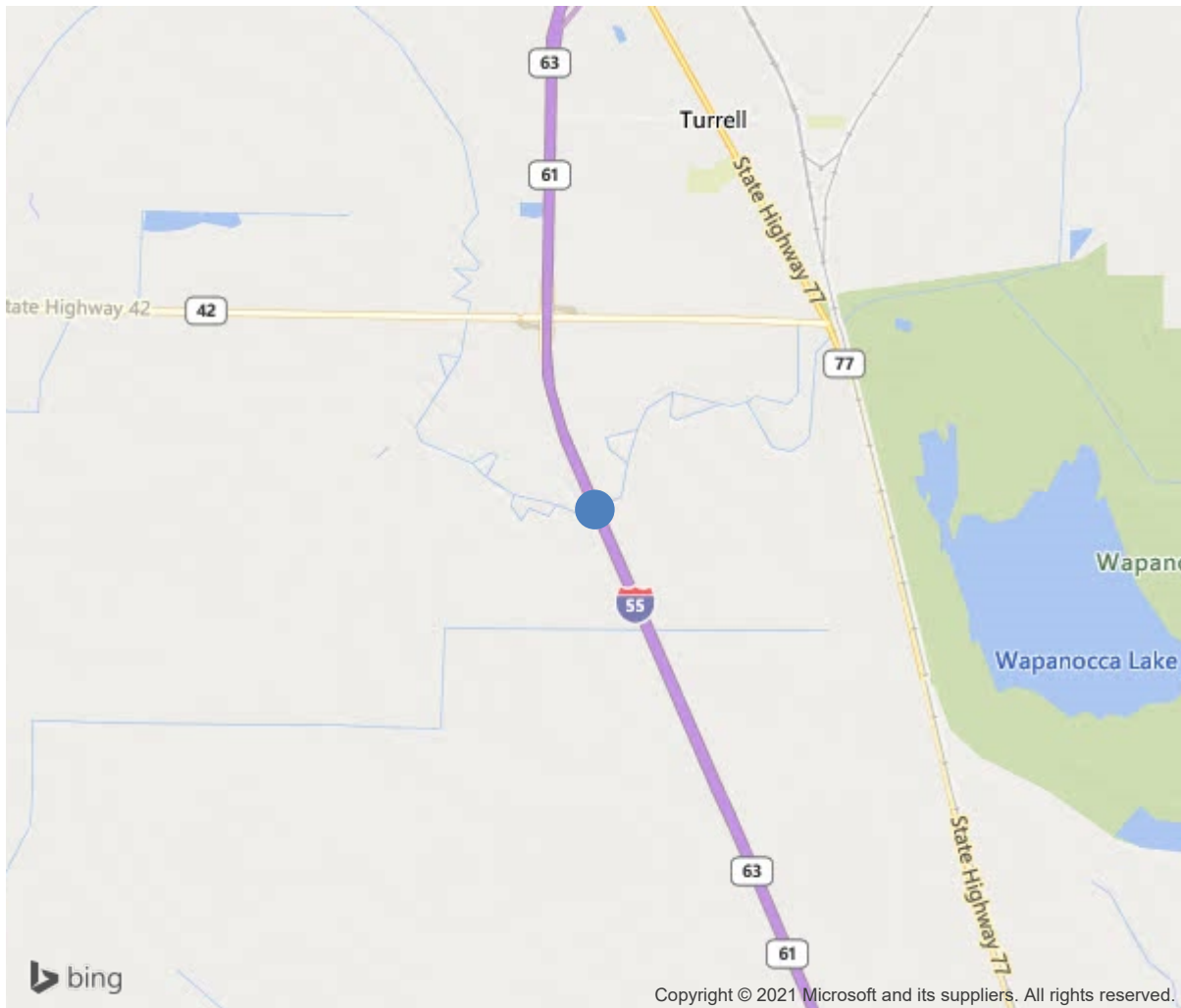
Route:55 Section:11 Log:20.55

Arnold Road ID:18x55x11xB, Arnold Log mile:51.723

District 01, Crittenden County

Owner: 1-State Highway Agency

1.0 Mile South Of Sh 42



35.35180, -90.27543



Bridge #A2809 (Routine)

I-55SO/Sec11/20.55 over Big Creek

Location: 1.0 Mile South Of Sh 42

Team Lead: Drew Melton Inspection Date: April 13, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A2809
(5) Inventory Route	55
(2) Highway Agency District	01
(3) County Code	35-Crittenden County, Arkansas
(4) Place Code	0
(6) Features Intersected	Big Creek
(7) Facility Carried	I-55SO/Sec11/20.55
(9) Location	1.0 Mile South Of Sh 42
(11) Mile Point	20.55 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000055110
(16) Latitude	35.351803
(17) Longitude	-90.275429
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	21
Material	2-Concrete continuous
Type	1-Slab
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	6
(46) No. of Approach Spans	0
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	5-Epoxy Overlay
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1956
(106) Year Reconstructed	1975
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	36283
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	162 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	39 ft
(52) Deck Width Out to Out	42.2 ft
(32) Approach Roadway Width (W/Shoulders)	38.1 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	39 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	0 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	1-Rural Principal Arterial - Int
(100) Defense Highway	1-The inventory route is on a In
(101) Parallel Structure	R-The right structure of paralle
(102) Direction of Traffic	1 - 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	6-MS 18+Mod / HS 20+Mod
(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	6
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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) 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	17304
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	04/2020
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No
B: Underwater Inspection	Yes
C: Other Special Inspection	No

Team Lead: Drew Melton, **Inspection Date:** April 13, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	6804	6260	0	544	0
1120	Efflorescence/Rust Staining	SF	544	0	0	544	0
510	Wearing Surfaces	SF	6318	6318	0	0	0
(38)							
Gutters have dirt, debris. Widened areas have transverse cracks with moderate efflorescence. Original construction has longitudinal cracks with efflorescence. Spans #2&5 have one transverse crack full width. Deck has had epoxy overlay since 2014 inspection.							
215	Reinforced Concrete Abutment	LF	99	97	2	0	0
1090	Exposed Rebar	LF	2	0	2	0	0
(215)							
Abutment #2 cap has 2' spall at top with exposed rebar at center line.							
227	Reinforced Concrete Pile	EA	35	35	0	0	0
234	Reinforced Concrete Pier Cap	LF	213	212	1	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
(234)							
Bent 2 cap between piles 6,7 on bottom has 1' of exposed rebar due to poor concrete coverage.							
301	Pourable Joint Seal	LF	84	0	0	84	0
2350	Debris Impaction	LF	84	0	0	84	0
(301)							
Joints are covered with epoxy overlay.							
330	Metal Bridge Railing	LF	324	308	6	0	10
1900	Distortion	LF	16	0	6	0	10
(330)							
Span #2 right side top of rail has minor collision damage. Span #3 right rail has collision damage destroying our post and bending rail.							
331	Reinforced Concrete Bridge Railing	LF	324	162	162	0	0
1120	Efflorescence/Rust Staining	LF	162	0	162	0	0
(331)							
Rail has vertical hairline cracks spaced 2' apart some with light efflorescence.							



Bridge #A2809 (Routine)

I-55SO/Sec11/20.55 over Big Creek

Location: 1.0 Mile South Of Sh 42

Team Lead: Drew Melton **Inspection Date:** April 13, 2020

Maintenance Needs

Date Reported: 04/21/2014
Priority: C - Important
Type of Work: Clean
Status: Monitor
Component: Deck

Deficiency Description

Gutters have dirt, debris.

Remarks



Typical deck debris in gutters



Bridge #A2809(Routine)
I-55SO/Sec11/20.55 over Big Creek
Location: 1.0 Mile South Of Sh 42

Team Lead: Drew Melton **Inspection Date:** April 13, 2020

Date Reported: 04/19/2016
Priority: C - Important
Type of Work: Clean
Status: Monitor
Component: Channel

Deficiency Description

Vegetation is growing under and beside bridge and onto bridge.

Remarks



Bent 2 pile 1,2 has vines growing on them onto the soffit.



Bridge #A2809 (Routine)
I-55SO/Sec11/20.55 over Big Creek
Location: 1.0 Mile South Of Sh 42

Team Lead: Drew Melton **Inspection Date:** April 13, 2020

Date Reported: 04/13/2020
Priority: C - Important
Type of Work: Replace
Status: Open
Component: 330 - Metal Bridge Railing

Deficiency Description

Span #3 right rail has collision damage destroying our post and bending rail.

Remarks



Span #3 right rail has collision damage destroying our post and bending rail.

Date Reported: 04/14/2020
Priority: C - Important
Type of Work: Repair
Status: Open
Component: Approach

Deficiency Description

Abutment #2 both approach rails have moderate collision damage.

Remarks



Abutment #2 left approach rail



Abutment #2 right approach rail



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Location: 1.0 Mile South Of Sh 42

Team Lead: Drew Melton **Inspection Date:** April 13, 2020

Inspection Comments

Drawing numbers: 19217-22, widened 2809AR, Job 11864.

Abutment #2 both approach rails have moderate collision damage.

Vegetation is growing under and beside bridge and onto bridge.

Deck Notes

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Substructure Notes

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