



Latitude:35.84379, Longitude:-90.75797

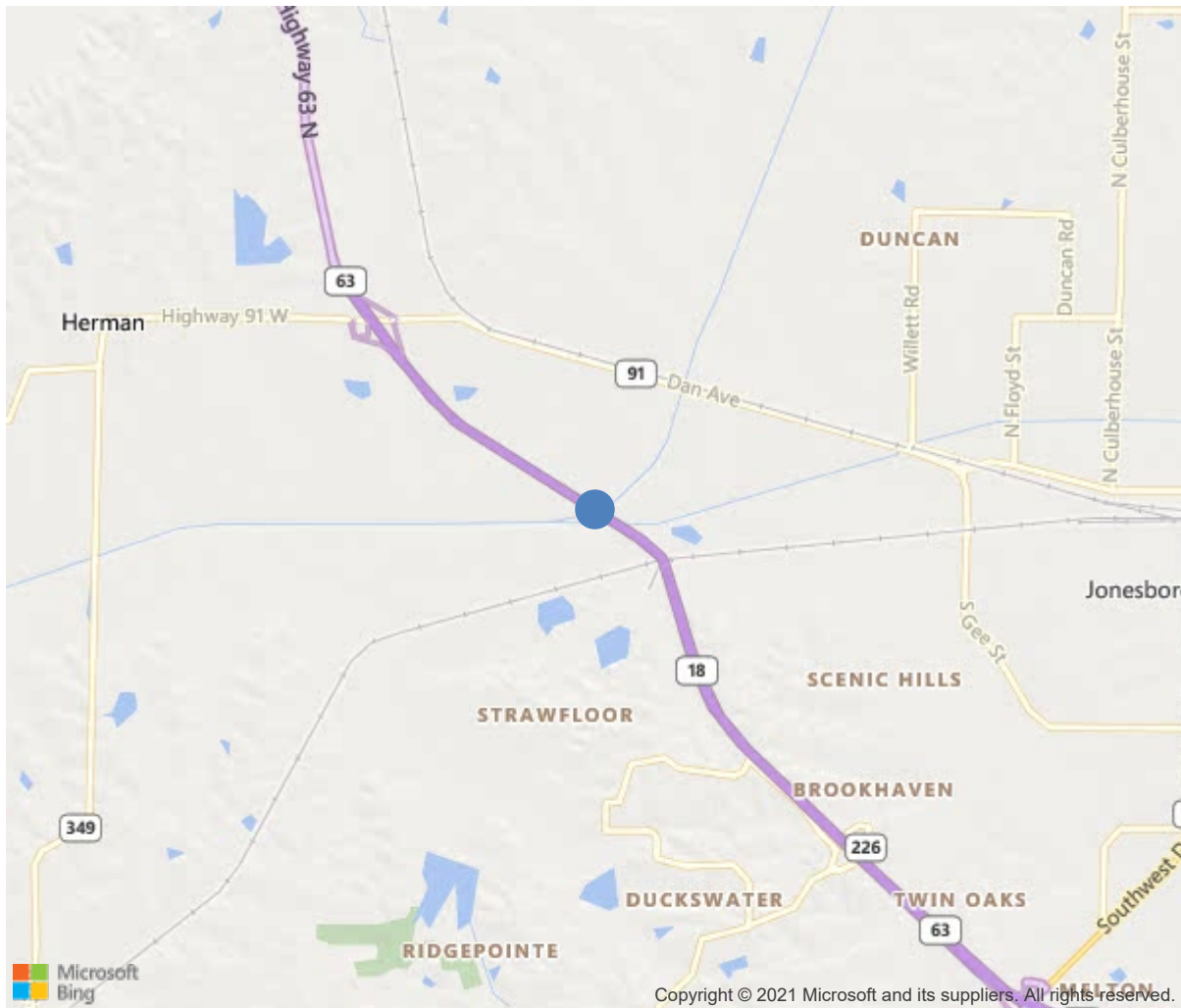
Route:555 Section:03 Log:1.551

Arnold Road ID:16x555x3xB, Arnold Log mile:1.551

District 10, Craighead County

Owner: 1-State Highway Agency

4.55 MI NW SH 18



35.84379, -90.75797



Bridge #A5206(Routine)
I-555 over BIG CREEK DITCH
Location: 4.55 MI NW SH 18

Team Lead: Richard Jones Inspection Date: April 14, 2020

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	A5206
(5) Inventory Route	63
(2) Highway Agency District	10
(3) County Code	31-Craighead County, Arkansas
(4) Place Code	0
(6) Features Intersected	BIG CREEK DITCH
(7) Facility Carried	US 63-06SB-LM10.52
(9) Location	4.55 MI NW SH 18
(11) Mile Point	10.52 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000063060
(16) Latitude	35.84379
(17) Longitude	-90.75797
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3-Steel
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	0-None
AGE AND SERVICE	
(27) Year Built	1978
(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	10500
(30) Year of ADT	2018
(109) Truck ADT	16 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	53 ft
(49) Structure Length	161.5 ft
(50) Curb or Sidewalk Width	
Left	0.4 ft
Right	0.4 ft
(51) Bridge Roadway Width Curb to Curb	39 ft
(52) Deck Width Out to Out	42.3 ft
(32) Approach Roadway Width (W/Shoulders)	44 ft
(33) Bridge Median	0-No median
(34) Skew	35 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	39.7 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	5-None present but re-evaluation
(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	12-Urban Principal Arterial - Oth
(100) Defense Highway	2-The inventory route is on a No
(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	5
(59) Superstructure	7
(60) Substructure	5
(61) Channel & Channel Protection	4
(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	5
(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	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	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	11407
(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	No		
C: Other Special Inspection	Yes		03/2021
* 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 #A5206(Routine)
I-555 over BIG CREEK DITCH
Location: 4.55 MI NW SH 18

Team Lead: Richard Jones, **Inspection Date:** April 14, 2020

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	6519	5393	332	794	0
1080	Delamination/Spall/Patched Area	SF	335	0	156	179	0
1090	Exposed Rebar	SF	69	0	0	69	0
1130	Cracking (RC and Other)	SF	722	0	176	546	0
107	Steel Open Girder/Beam	LF	1113	1029	63	21	0
1000	Corrosion	LF	84	0	63	21	0
515	Steel Protective Coating	SF	8691	7947	174	265	305
3440	Effectiveness (Steel Protective Coatings)	SF	744	0	174	265	305
215	Reinforced Concrete Abutment	LF	122	95	27	0	0
1090	Exposed Rebar	LF	2	0	2	0	0
6000	Scour	LF	25	0	25	0	0
227	Reinforced Concrete Pile	EA	14	14	0	0	0
234	Reinforced Concrete Pier Cap	LF	98	93	5	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	4	0	4	0	0
302	Compression Joint Seal	LF	192	0	0	172	20
2320	Seal Adhesion	LF	20	0	0	0	20
2330	Seal Damage	LF	172	0	0	172	0
311	Movable Bearing	EA	21	7	12	2	0
1000	Corrosion	EA	14	0	12	2	0
313	Fixed Bearing	EA	21	21	0	0	0
321	Reinforced Concrete Approach Slab	SF	1752	1744	8	0	0
1130	Cracking (RC and Other)	SF	8	0	8	0	0
330	Metal Bridge Railing	LF	318	318	0	0	0
331	Reinforced Concrete Bridge Railing	LF	318	198	120	0	0
1130	Cracking (RC and Other)	LF	120	0	120	0	0



Overall



soffit



Bent 4 Embankment

Maintenance Needs

Date Reported: 04/28/2011
Priority: C - Important
Type of Work: Repair
Status: Assigned
Component: Channel

Deficiency Description

Embankment erosion is continuing under span 1 with some slides/loss of fill.

Remarks



Bent 1 Embankment

Date Reported: 04/19/2012
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Deck has several unsealed moderate width transverse cracks. Deck has several delaminated areas and spalls with rebar exposed along transverse cracks, especially at spans 2 and 3.

Gutters have several areas of map cracking, and several spalled and delaminated areas.

Remarks



Span 3



Bridge #A5206(Routine)
I-555 over BIG CREEK DITCH
Location: 4.55 MI NW SH 18

Team Lead: Richard Jones **Inspection Date:** April 14, 2020

Date Reported: 04/09/2013
Priority: D- Routine
Type of Work: Clean
Status: Monitor
Component: Superstructure

Deficiency Description

Steel girders have a few small areas of scattered freckled rust.
Ends of girders have some flaking rust with minor section loss at web below haunch and along bottom flange.

Remarks

Date Reported: 04/20/2018
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Span 1 bent 2 girder 4 has a 1" diameter hole in web below haunch.

Remarks



Date Reported: 04/28/2020
Priority: C - Important
Type of Work: Replace
Status: Open
Component: 302 - Compression Joint Seal

Deficiency Description

Compression seals are cracked, torn, and have a few areas losing adhesion.

Remarks





Bridge #A5206(Routine)
I-555 over BIG CREEK DITCH
Location: 4.55 MI NW SH 18

Team Lead: Richard Jones **Inspection Date:** April 14, 2020

Inspection Comments

Deck Notes

Concrete approach slabs have a few cracks. Most have been sealed in the past. Concrete bridge rail has several vertical cracks.

Compression seals are cracked, torn, and have a few areas losing adhesion.

Deck has minor traffic wear in wheel path.

Deck has several unsealed moderate width transverse cracks. Deck has several delaminated areas and spalls with rebar exposed along transverse cracks, especially at spans 2 and 3.

Gutters have several areas of map cracking, and several spalled and delaminated areas.

Soffit has a few cracks with efflorescence and/or rust stains, especially at span 3

Superstructure Notes

Steel girders have a few small areas of scattered freckled rust.

Ends of girders have some flaking rust with minor section loss at web below haunch and along bottom flange.

Span 1 bent 2 girder 4 has a 1" diameter hole in web below haunch.

Bearings have pack rust with minor section loss.

Substructure Notes

Embankment erosion is continuing under span 1 with some slides/loss of fill.

Embankment under span 3 was lined with rip rap in 2017. Undermined cap and approach slab at bent 4 was repaired with flowable fill and hand placed rip rap.

Abutments and caps have a few minor cracks and spalls with some rebar exposed.