

## Bridge 05224 Inspection Report



Latitude:35.35980, Longitude:-90.64826

Route:42 Section:03 Log:8.419

Arnold Road ID:19x42x3xA, Arnold Log mile:8.419

District 01, 37 - Cross County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

### Bridge Posting Information

41 - Structure Open/Posted/Closed: A - Open, no restriction

70 - Bridge Posting: 5 - Equal to or above legal loads

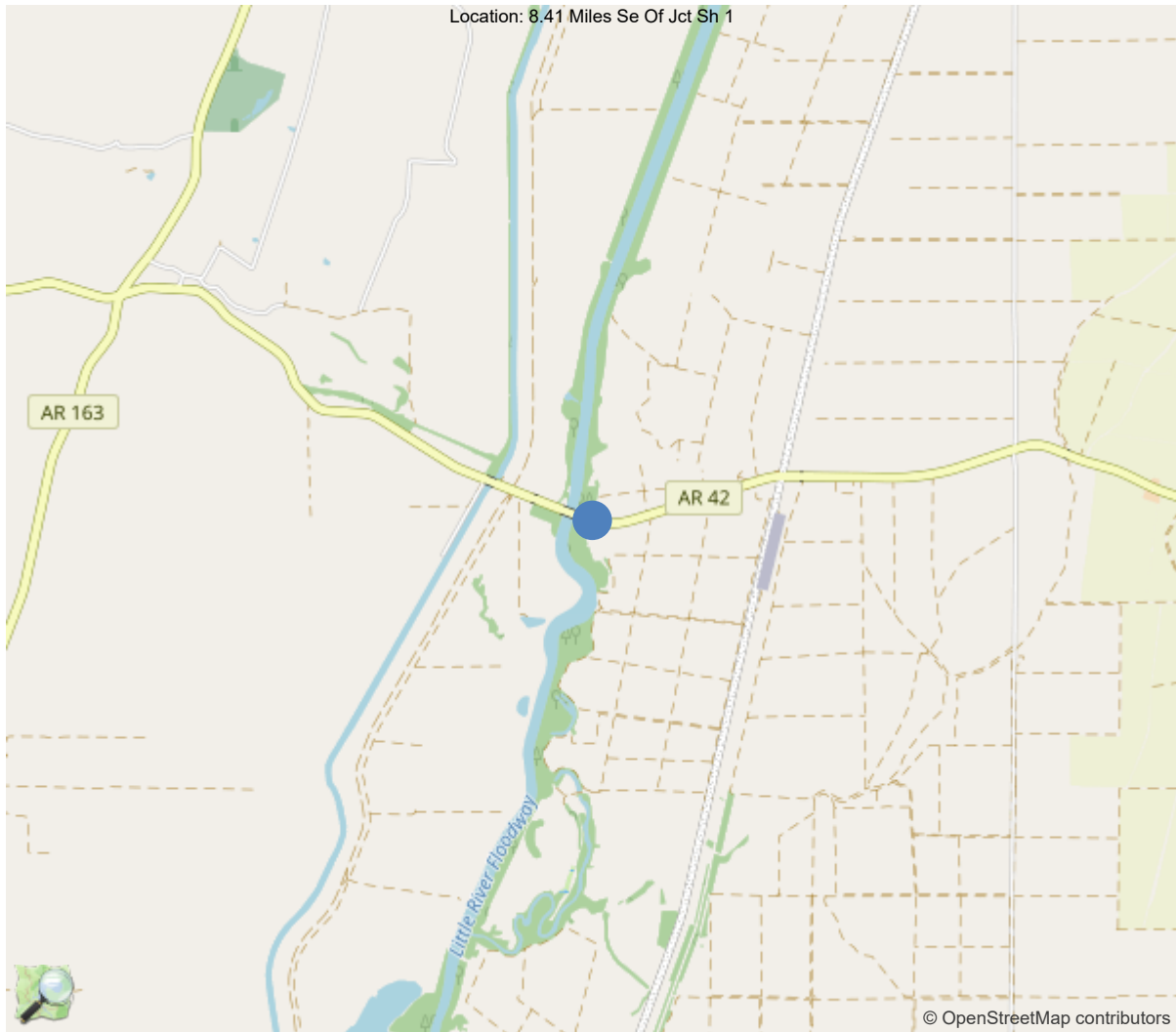
Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	39		
Code 9 (31 Tons)	46		
Code 5 (40 Tons)	60		

If calculated capacity is less than the Legal Load Listed, the Bridge Legally Requires Posting Signs to be installed by the Bridge Owner.



30"x36" AR





35.35980, -90.64826

## National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05224
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	37 - Cross County
(4) Place Code	0
(6) Features Intersected	Relief Ditch
(7) Facility Carried	Sh-42/Sec-3/L8.419
(9) Location	8.41 Miles Se Of Jct Sh 1
(11) Mile Point	8.419 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.3598
(17) Longitude	-90.64826
(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	16
(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 pl
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1970
(106) Year Reconstructed	0
(42) Type of Service	19
On	1 - Highway
Under	9 - Relief for waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	420
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	23 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	400 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	30 ft
(32) Approach Roadway Width (W/Shoulders)	25 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	28 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 w
(111) Pier Protection	1 - Navigation protection not
(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
(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
(20) Toll	3 - On free road. The structure
(21) Maintain	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	7
(59) Superstructure	7
(60) Substructure	7
(61) Channel & Channel Protection	7
(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	
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	
(68) Deck Geometry	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - Bridge foundations determined t
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	479
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			05/20/2024
(91) Frequency			48
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
<p>* 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.</p>			



Team Lead: Drew Melton, Inspection Date: 05/20/2024

### Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	05224
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1970

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	37 - Cross County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	01 - District 01
B.L.05 Latitude	35.3598
B.L.06 Longitude	-90.64826
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	8.41 Miles Se Of Jct Sh 1
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	S01 - State transportation departme
B.CL.02 Maint. Responsibility	S01 - State transportation departme
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	N - Bridge is not eligible for the
B.CL.05 Toll	N - Bridge does not carry a toll ro
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	394
B.G.02 Total Bridge Length	399.9
B.G.03 Max Span Length	24.9
B.G.04 Min Span Length	22
B.G.05 Bridge Width Out-to-Out	29.9
B.G.06 Bridge Width Curb-to-Curb	27.9
B.G.07 Left Curb or Sidewalk Width	0.7
B.G.08 Right Curb or Sidewalk Width	0.7
B.G.09 Approach Roadway Width	24.9

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	0
B.G.12 Curved Bridge	CU - Curved girder(s)
B.G.13 Max Bridge Height	23
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	11940.3

LOADS AND LOAD RATING	
B.LR.01 Design Load	HS20 - HS-20
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LFR - Load Factor Rating
B.LR.05 Inventory Load Rating Factor	1
B.LR.06 Operating Load Rating Factor	1.67
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	7 - GOOD - Some minor defects.
B.C.02 Superstructure Condition	7 - GOOD - Some minor defects.
B.C.03 Substructure Condition	7 - GOOD - Some minor defects.
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	6 - SATISFACTORY - Widespread
B.C.06 Bridge Railing Transitions Condition	8 - VERY GOOD - Some inherent
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	7 - GOOD - Some minor defects.
B.C.09 Channel Condition Rating	7 - GOOD - Some minor defects.
B.C.10 Channel Protection Condition	8 - VERY GOOD - Some inherent
B.C.11 Scour Condition Rating	7 - Some minor scour.
B.C.12 Bridge Condition Classification	G - Good
B.C.13 Lowest Condition Rating	7 - GOOD - Some minor defects.
B.C.14 NSTM Insp. Condition	
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	1 - Remote - once every 100 years o
B.AP.03 Scour Vulnerability	AB-T - TEMP - Stable for scour, pos
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	16	B.SP.08 Deck Interaction	IM - Integral or monolithic
B.SP.03 # of Beam Lines	1	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	C01 - Reinforced concrete - ca	B.SP.10 Wearing Surface	C01 - Concrete - monolithic
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	CX - Coating - other
B.SP.06 Span Type	S02 - Slab - voided	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	0 - None

SUBSTRUCTURE SETS			
<b>A1</b>			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
<b>P1</b>			
B.SB.02 No. of Substructure Units	15	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	B03 - Bent - pile	B.SB.07 Foundation Protective System	0 - None

HIGHWAY FEATURES			
<b>H1</b>			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	420
B.F.03 Feature Name	Sh-42/Sec-3/L-8.4	B.H.10 Annual ADTT	4
B.H.01 Functional Classification	5 - Major Collector	B.H.11 Year of Annual ADT	2018
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	99.9
B.H.03 NHS Designation	N - Non-NHS	B.H.13 Highway Min Vertical Clearance	99.9
B.H.04 National Highway Freight Network	N - Not on the NHFN	B.H.14 Highway Min Horizontal Clearance, Left	
B.H.05 STRAHNET Designation	N - Not a STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	
B.H.06 LRS Route ID		B.H.16 Highway Max Usable Surface Width	27.8
B.H.07 LRS Mile Point	8.4	B.H.17 Bypass Detour Length	23
B.H.08 Lanes On Highway	2	B.H.18 Crossing Bridge Number	

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type
H1	1	42	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline



Team Lead: Drew Melton, Inspection Date: 05/20/2024

WATERWAY FEATURES

W1			
B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	Relief Ditch	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	

POSTING STATUS DATA

B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent and Open	

LOAD EVALUATION AND POSTING

B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value
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Asset #05224(Routine, Underwater type 2)

Sh-42/Sec-3/L8.419 over Relief Ditch

Location: 8.41 Miles Se Of Jct Sh 1

Team Lead: Drew Melton Inspection Date: 05/20/2024

## Inspection Notes

### General Observation

05/20/2024 Routine and Underwater type 2 inspection preformed. Routine was preformed by walking the deck and walking under the structure with rubber boots. Underwater type 2 was preformed by taking channel sounding readings on both sides of the bridge and visually looking under structure with only small puddles of water. No lane closure was used for these inspections.

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### 58 - Deck (7 - GOOD CONDITION - some minor problems.)

Deck is in good condition with surface having a few spalled areas and cracks. Deck undersurface has some hairline cracks some with rust stains.

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### 59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Superstructure is in good condition with vertical cracks on side of slab.

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### 60 - Substructure (7 - GOOD CONDITION - some minor problems.)

Substructure is in good condition with cracks with light efflorescence in abutment back walls. Pile caps have a few minor spalls and some exposed reinforcing steel due to poor concrete coverage.

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### 61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

Channel is in good condition with good alignment. Channel has some minor scour at interior bents that hold water at dry conditions.

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### A-54 - Sealable Deck Cracks (Y)

All Spans, Deck Surface: Transverse and longitudinal cracks. 1800SF CS2 (Cracking)

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### A-55 - Deck Washing Needed (Y)

All Spans, Gutters, Full Length: Dirt and debris.

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### A-59 - Joint Repair Needed (Yes)

All Bents, Joints, Full Length: Areas of debris impacting them.

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### A-61 - Polymer Overlay Advised (Y)

All Spans, Deck Surface: Transverse and longitudinal cracks. 1800SF CS2 (Cracking)

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### A-64 - Vegetation Removal Requested (Y)

Vegetation is growing under, beside and on to bridge.

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### B.C.05 Bridge Railing Condition Rating (6 - SATISFACTORY - Widespread minor or isolated moderate defects.)

Bridge rails are in satisfactory condition with some rail post spacer blocks missing and several areas of light collision damage.

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**Asset #05224**(Routine, Underwater type 2)

**Sh-42/Sec-3/L8.419 over Relief Ditch**

**Location: 8.41 Miles Se Of Jct Sh 1**

**Team Lead:** Drew Melton **Inspection Date:** 05/20/2024

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**B.C.06 Bridge Railing Transitions Condition Rating (8 - VERY GOOD - Some inherent defects.)**

Bridge railing transitions are in very good condition with no note worthy defects.

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**B.C.08 Bridge Joints Condition Rating (7 - GOOD - Some minor defects.)**

Bridge joints are in good condition with some minor debris impaction.

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**B.C.10 Channel Protection Condition Rating (8 - VERY GOOD - Some inherent defects.)**

Channel protection is in very good condition with rip rap on abutment slopes. The rip rap is functioning as intended.

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**A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (7 - Some minor scour.)**

Minor scour exists under the structure at and around interior bents. Scour is minor with a small amount of standing water when everything else is dry.

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## National Bridge Element Quantities and Notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	12000	5791	5808	401	0
1080	Delamination/Spall/Patched Area	SF	9	0	8	1	0
1120	Efflorescence/Rust Staining	SF	400	0	0	400	0
1130	Cracking (RC and Other)	SF	1800	0	1800	0	0
1190	Abrasion/Wear (PSC/RC)	SF	4000	0	4000	0	0
510	Wearing Surfaces	SF	2400	2368	32	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	32	0	32	0	0
(38) All Spans, Slab, Both Sides: Vertical hairline cracks. Span 16, Slab, At Bent 16, Left Side: Corner spalled no exposed reinforcing steel.1SF CS3 (Delamination/Spall/Patched Area)  Spans 1, 2, 14, 15 & 16, Full Length: Deck surface has been chip sealed. Span 1, Wearing Surface: Two small shallow spalls. 2SF CS2 (Delam/Spall/Patched Area/Pothole) Span 1, Wearing Surface, Bent 2 Joint: Shallow spalls in left lane. 28SF CS2 (Delam/Spall/Patched Area/Pothole) Span 15, Wearing Surface: Two small shallow spalls. 2SF CS2(Delam/Spall/Patched Area/Pothole)  All Spans, Deck Surface, Full Length: Light abrasion. 4000SF CS2 (Abrasion/Wear) All Spans, Deck Surface: Transverse and longitudinal cracks. 1800SF CS2 (Cracking)  All Spans, Deck Undersurface, Full Length: Hairline cracks with rust staining. 400SF CS3 (Efflorescence/Rust Staining) Span 16, Deck Undersurface, Right, Near Abutment 2: 4' (Length) X 2' (Width) delaminated area. 8SF CS2 (Delamination/Spall/Patched Area)							
215	Reinforced Concrete Abutment	LF	72	67	5	0	0
1120	Efflorescence/Rust Staining	LF	5	0	5	0	0
(215) Abutment 1, Pile Cap: Several vertical hairline cracks with light efflorescence. 5LF CS2 (Efflorescence/Rust Staining)							
227	Reinforced Concrete Pile	EA	60	60	0	0	0
(227) Reinforced concrete piles have no note worthy defects.							
234	Reinforced Concrete Pier Cap	LF	459	417	0	42	0
1080	Delamination/Spall/Patched Area	LF	11	0	0	11	0
1090	Exposed Rebar	LF	31	0	0	31	0
(234) Bent 4, Pile Cap, Ahead, Top, Between Piles 3 & 4: 1' (Width) x 1 1/2' (Length) spall no exposed reinforcing steel. 2LF CS3 (Delamination/Spall/Patched Area) Bent 4, Pile Cap, Back, Near Center: 2; (length) cage steel exposed. Cage steel has minor section loss. 2LF CS3 (Exposed Rebar) Bent 4, Pile Cap, Bottom, Left End: Three small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss. 2LF CS3 (Exposed Rebar) Bent 6, Pile Cap, Bottom, Left End: Two small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss.1LF CS3 (Exposed Rebar) Bent 7, Pile Cap, Bottom, Full Length: Twelve small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss. 9LF CS3 (Exposed Rebar) Bent 9, Pile Cap, Ahead, Top, At Keyways: 1' (Width) x 1 1/2' (Length) spalls no exposed reinforcing steel. 4LF CS3 (Delamination/Spall/Patched Area)							





## Inspection Photos and Notes



Side view-elevation



Typical deck surface no wearing surface



Typical deck with wearing surface



Typical deck undersurface





Channel left side



Channel right side



Channel under bridge



Typical scour around interior bents.





Bent 13 area of minor scour



Top view-inventory



All Spans, Deck Surface: Transverse and longitudinal cracks. 1800SF CS2 (Cracking)



All Spans, Gutters, Full Length: Dirt and debris.





Typical joint



All Spans, Deck Surface: Transverse and longitudinal cracks. 1800SF CS2 (Cracking)



Vegetation is growing under, beside and on to bridge.



Vegetation growing onto roadway





All Spans, Slab, Both Sides: Vertical hairline cracks.



All Spans, Deck Surface: Transverse and longitudinal cracks. 1800SF CS2 (Cracking)



All Spans, Deck Surface, Full Length: Light abrasion. 4000SF CS2 (Abrasion/Wear)



Span 1, Wearing Surface, Bent 2 Joint: Shallow spalls in left lane. 28SF CS2 (Delam/Spall/Patched Area/Pothole)





Span 1, Wearing Surface: Two small shallow spalls. 2SF CS2 (Delam/Spall/Patched Area/Pothole)



Span 15, Wearing Surface: Two small shallow spalls. 2SF CS2(Delam/Spall/Patched Area/Pothole)



Span 16, Deck Undersurface, Right, Near Abutment 2:  
4' (Length) X 2' (Width) delaminated area. 8SF CS2  
(Delamination/Spall/Patched Area)



All Spans, Deck Undersurface, Full Length: Hairline cracks  
with rust staining. 400SF CS3 (Efflorescence/Rust Staining)





Abutment 1



Abutment 2



Bent 4, Pile Cap, Back, Near Center: 2; (length) cage steel exposed. Cage steel has minor section loss. 2LF CS3 (Exposed Rebar)



Bent 4, Pile Cap, Bottom, Left End: Three small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss. 2LF CS3 (Exposed Rebar)





05/20/2024

Bent 4, Pile Cap, Ahead, Top, Between Piles 3 & 4: 1' (Width) x 1 1/2' (Length) spall no exposed reinforcing steel. 2LF CS3 (Delamination/Spall/Patched Area)



05/20/2024

Bent 6, Pile Cap, Bottom, Left End: Two small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss. 1LF CS3 (Exposed Rebar)



05/20/2024

Bent 7, Pile Cap, Bottom, Full Length: Twelve small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss. 9LF CS3 (Exposed Rebar)



05/20/2024

Bent 9, Pile Cap, Ahead, Top, At Keyways: 1' (Width) x 1 1/2' (Length) spalls no exposed reinforcing steel. 4LF CS3 (Delamination/Spall/Patched Area)  
Bent 9, Pile Cap, Bottom, Left Half: Nine small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss. 5LF CS3 (Exposed Rebar)





Bent 11, Pile Cap, Bottom, Near Center: Two small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss. 2LF CS3 (Exposed Rebar)



Bent 12, Pile Cap, Bottom: Three small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss. 3LF CS3 (Exposed Rebar)



Bent 13, Pile Cap, Ahead, Top, Between Piles 3 & 4: 1' (Width) x 1 1/2' (Length) spall no exposed reinforcing steel. 2LF CS3 (Delamination/Spall/Patched Area)  
Bent 13, Pile Cap, Bottom, Right: Six small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss. 2LF CS3 (Exposed Rebar)



Bent 14, Pile Cap, Bottom: Five small pieces of exposed reinforcing steel. Reinforcing steel has minor section loss. 5LF CS3 (Exposed Rebar)





Bent 16, Pile Cap, Ahead, Left End, Between Piles 1 & 2:  
Three 1' (Length) x 6" (Height) spalls no exposed reinforcing  
steel. 3LF CS3 (Delamination/Spall/Patched Area)



Typical joint



Metal Bridge Railing, Both Sides: Areas of graffiti.



Span 4, 5 & 6, Metal Bridge Railing, Right Side: 30' of minor  
collision damage. 30LF CS2 (Distortion)





Span 6, Metal Bridge Railing, Left Side: Two missing rail post spacers. 2LF CS3 (Connection)



Span 7, Metal Bridge Railing, Left Side: One missing rail post spacer. 1LF CS3 (Connection)



Span 9, Metal Bridge Railing, Left Side: One missing rail post spacer. 1LF CS3 (Connection)



Span 14, Metal Bridge Railing, Right Side: 10' of minor collision damage. 10LF CS2 (Distortion)



### Maintenance Needs

**Date Reported:** 05/21/2020

**Priority:** C - Important

**Type of Work:** Repair (General)

**Status:** Repair Documented

**Component:** Approach

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### Deficiency Description

Abutment #1 approach roadway has settled up to 1".

### Remarks

05/20/2024 Approach 1 roadway has been repaired since last inspection.

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05/20/2024 Approach 1 roadway has been repaired since last inspection.



Abutment #1 approach roadway.

### Maintenance Needs

**Date Reported:** 05/05/2014

**Priority:** D- Routine

**Status:** Monitor

**Type of Work:** Repair (General)

**Component:** Element

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### Deficiency Description

Span 4, 5 & 6, Metal Bridge Railing, Right Side: 30' of minor collision damage. 30LF CS2 (Distortion)

Span 6, Metal Bridge Railing, Left Side: Two missing rail post spacers. 2LF CS3 (Connection)

Span 7, Metal Bridge Railing, Left Side: One missing rail post spacer. 1LF CS3 (Connection)

Span 9, Metal Bridge Railing, Left Side: One missing rail post spacer. 1LF CS3 (Connection)

Span 14, Metal Bridge Railing, Right Side: 10' of minor collision damage. 10LF CS2 (Distortion)

### Remarks

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Span 4, 5 & 6, Metal Bridge Railing, Right Side: 30' of minor collision damage. 30LF CS2 (Distortion)



Span 6, Metal Bridge Railing, Left Side: Two missing rail post spacers. 2LF CS3 (Connection)





Span 7, Metal Bridge Railing, Left Side: One missing rail post spacer. 1LF CS3 (Connection)



Span 9, Metal Bridge Railing, Left Side: One missing rail post spacer. 1LF CS3 (Connection)



Span 14, Metal Bridge Railing, Right Side: 10' of minor collision damage. 10LF CS2 (Distortion)



### Maintenance Needs

**Date Reported:** 05/11/2022

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Approach

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### Deficiency Description

Abutment 1, Approach Rail, Left Side: Seventh post is not connected.

Abutment 2, Approach Rail, Right Side: Leaning out.

### Remarks

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Abutment 2, Approach Rail, Right Side: Leaning out.



Abutment 1, Approach Rail, Left Side: Seventh post is not connected.



Asset #05224(Routine, Underwater type 2)

Sh-42/Sec-3/L8.419 over Relief Ditch

Location: 8.41 Miles Se Of Jct Sh 1

Team Lead: Drew Melton Inspection Date: 05/20/2024

Maintenance Needs

Date Reported: 05/20/2024

Priority: D- Routine

Type of Work: Miscellaneous

Status: Open

Component: Miscellaneous

Deficiency Description

Metal Bridge Railing, Both Sides: Areas of graffiti.

Remarks



Metal Bridge Railing, Both Sides: Areas of graffiti.



## Routine Maintenance

### Check Box Maintenance Items

Type of Maintenance	Is Recommended?
A-54 - Sealable Deck Cracks	Yes
A-55 - Deck Washing Needed	Yes
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	Yes
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	Yes
A-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

### A-54 - Sealable Deck Cracks (Yes)

All Spans, Deck Surface: Transverse and longitudinal cracks. 1800SF CS2 (Cracking)



All Spans, Deck Surface: Transverse and longitudinal cracks. 1800SF CS2 (Cracking)

**A-55 - Deck Washing Needed (Yes)**

All Spans, Gutters, Full Length: Dirt and debris.



All Spans, Gutters, Full Length: Dirt and debris.

**A-56 - Joint Cleaning/Flushing Needed (No)**

**A-57 - Girder End and Bearing Painting Needed (No)**

**A-58 - Cap Cleaning/Flushing Needed (No)**



**A-59 - Joint Repair Needed (Yes)**

All Bents, Joints, Full Length: Areas of debris impacting them.



Typical joint

**A-60 - Full Girder Painting Needed (No)**

**A-61 - Polymer Overlay Advised (Yes)**

All Spans, Deck Surface: Transverse and longitudinal cracks. 1800SF CS2 (Cracking)



All Spans, Deck Surface: Transverse and longitudinal cracks. 1800SF CS2 (Cracking)

**A-62 - Hydro and LMC Advised (No)**

**A-63 - Missing/Incorrect Log Mile Signage (No)**

**A-64 - Vegetation Removal Requested (Yes)**

Vegetation is growing under, beside and on to bridge.



Vegetation is growing under, beside and on to bridge.



Vegetation growing onto roadway

**A-65 - Clogged deck drains?**

**A-66 - Approach minor pothole/leveling needed**





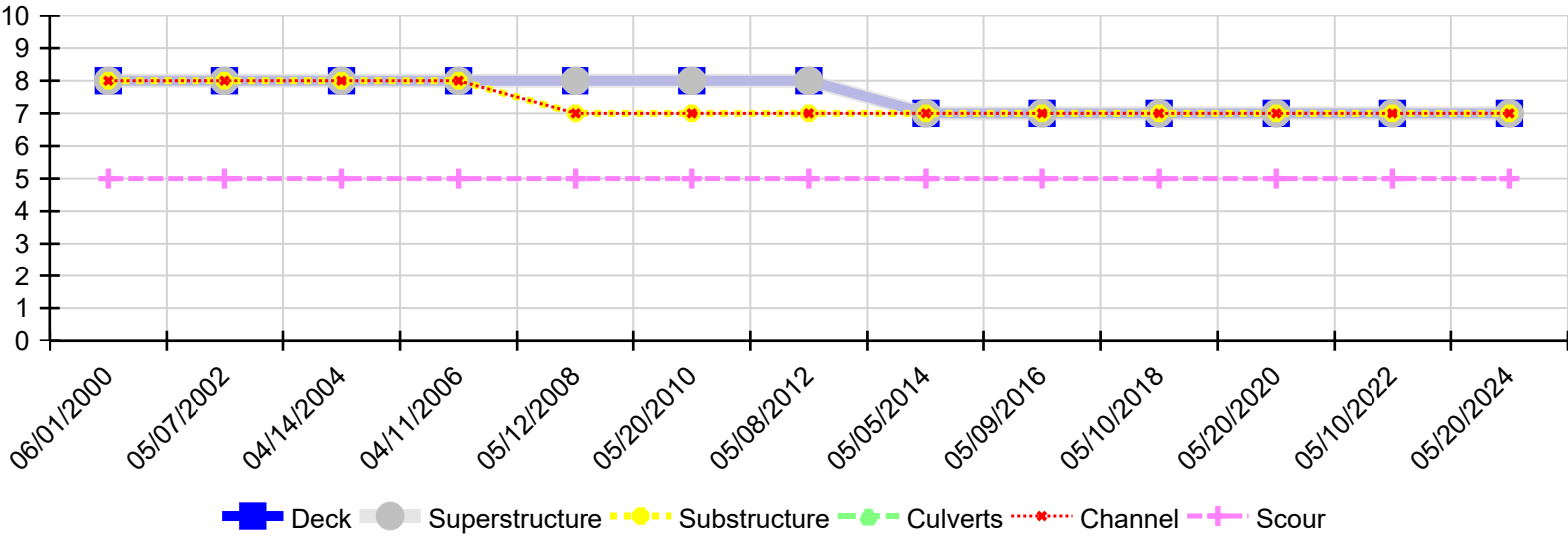
Asset #05224(Routine, Underwater type 2)

Sh-42/Sec-3/L8.419 over Relief Ditch

Location: 8.41 Miles Se Of Jct Sh 1

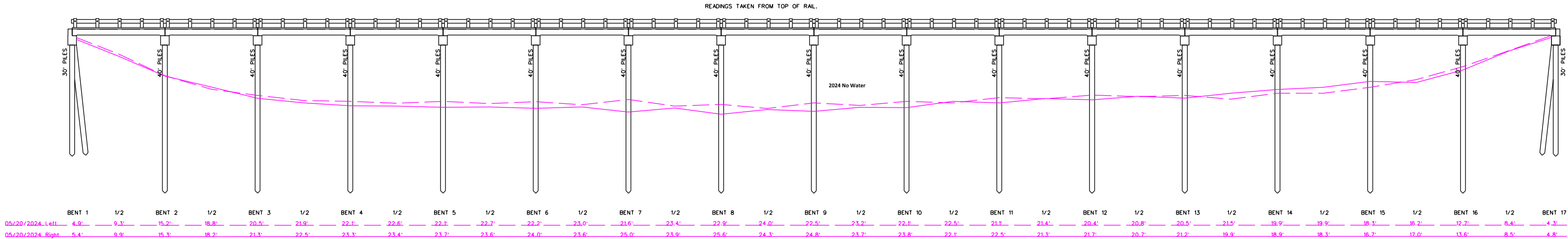
Team Lead: Drew Melton Inspection Date: 05/20/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/20/2024	7	7	7	N	7	5
05/10/2022	7	7	7	N	7	5
05/20/2020	7	7	7	N	7	5
05/10/2018	7	7	7	N	7	5
05/09/2016	7	7	7	N	7	5
05/05/2014	7	7	7	N	7	5
05/08/2012	8	8	7	N	7	5
05/20/2010	8	8	7	N	7	5
05/12/2008	8	8	7	N	7	5
04/11/2006	8	8	8	N	8	5
04/14/2004	8	8	8	N	8	5
05/07/2002	8	8	8	N	8	5
06/01/2000	8	8	8	N	8	5

BRIDGE #05224  
CHANNEL PROFILE



BRIDGE NO.

05224

ARKANSAS STATE HIGHWAY COMMISSION  
Little Rock, ARK.

Scale: 1"=28'

Inspection Dir: W TO E

Channel Flow: Edit

Drawn By: CAM

Project: Edit

Checked By: CAM

Date: 05/20/2024

