



Latitude:35.88682, Longitude:-90.62185

Route:481 Section:00 Log:1.44

Arnold Road ID:16xCRAIGHEAD745RDx1xA, Arnold Log mile:0.47

District 10, 31 - Craighead County

Owner: 2 - County Highway Agency

Inspection Direction: 1 - N to S

Bridge Posting Information

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

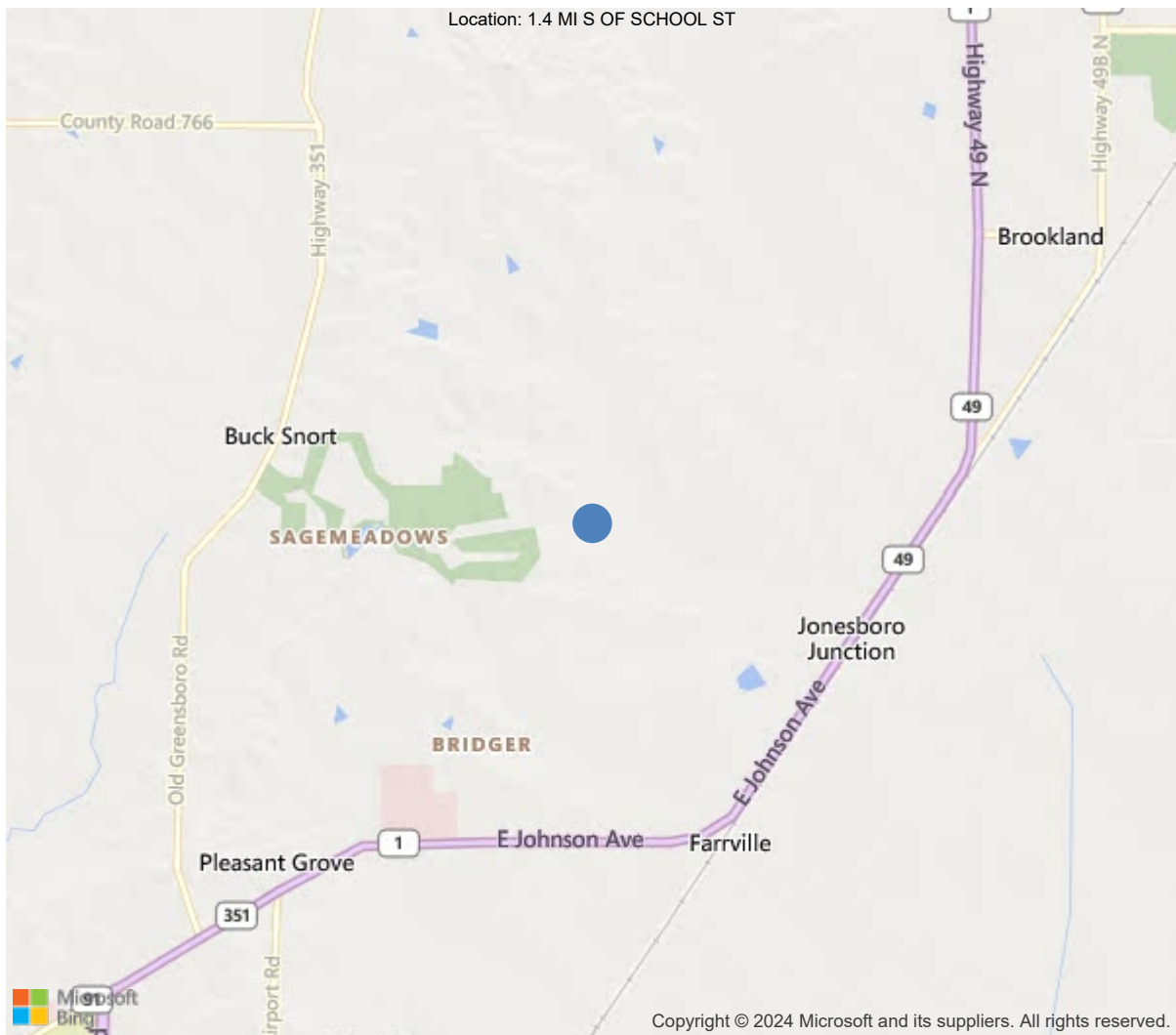
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	33		
Code 9 (31 Tons)	37		
Code 5 (40 Tons)	46		

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



35.88682, -90.62185



Asset #23498(Routine)

CR 481-D (911=745) over Creek

Location: 1.4 MI S OF SCHOOL ST

Team Lead: James Adams, Inspection Date: 08/11/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	23498
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	31 - Craighead County
(4) Place Code	0
(6) Features Intersected	Creek
(7) Facility Carried	CR 481-D (911=745)
(9) Location	1.4 MI S OF SCHOOL ST
(11) Mile Point	1.44 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.8868194934355
(17) Longitude	-90.6218478849199
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1 - Concrete
Type	22 - Channel beam
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	2
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6 - Bituminous
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	2012
(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	579
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	60 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	29.2 ft
(52) Deck Width Out to Out	30.7 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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	29.2 ft
(53) Min Vert Clear Over Bridge Rdwy	99.9 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	5 - None present but re-evalua
(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	19 - Urban Local
(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 structu
(21) Maintain	2 - County Highway Agency
(22) Owner	2 - County Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	5
(59) Superstructure	5
(60) Substructure	6
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	50
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	30
(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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	0 - Inspected feature does not meet
(36B) Transitions	0 - Inspected feature does not meet
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	0 - Inspected feature does not meet
(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	0
(114) Future ADT	196
(115) Year of Future ADT	2007

INSPECTIONS *			
(90) Inspection Date	08/11/2022		
(91) Frequency	24		
(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>			



58 - Deck (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Precast units were noted as having several spalls along shear keys near center line in 2014 and 2016.

Deck was covered with asphalt in 2018.

Asphalt wearing surface has several longitudinal cracks over joints between units. Span 2 has areas of asphalt repair beginning to ravel out at center line. Asphalt has been placed in this area.

Dirt & debris in gutterline.

59 - Superstructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Girder portion of precast units have several minor transverse cracks, some with light efflorescence.

Several transverse bolts are loose. Some are missing nuts.

End diaphragms over caps have several cracks and spalls.

Span 1 unit 4 has a 4.5in. deep spall with 1ft. of rebar exposed near mid span.

Span 1 unit 5 over bent 2 has an impending spall or crack in end diaphragm.

Span 1 unit 7 has a crack with efflorescence in both girders and soffit.

Span 2 unit 7 has a spall with 1ft. of exposed rebar near mid span that has been covered with grout.

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Bent 1 abutment has a 3.5ft. spall under unit 5.

Bent 2 cap has a few small spalls under units.

Trees and brush in channel.

Trees & brush in channel & under bridge restricting flow.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)

Trees and brush in channel.

Trees & brush in channel & under bridge restricting flow.

A-46 - Asset Files

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Asset #23498(Routine)

CR 481-D (911=745) over Creek

Location: 1.4 MI S OF SCHOOL ST

Team Lead: James Adams, Inspection Date: 08/11/2022

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4

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Comment: Precast units were noted as having several spalls along shear keys near center line in 2014 and 2016.

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Several transverse bolts are loose. Some are missing nuts.

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Span 1 unit 4 has a 4.5in. deep spall with 1ft. of rebar exposed near mid span.

Span 1 unit 5 over bent 2 has an impending spall or crack in end diaphragm.

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Comment: Bent 1 abutment has a 3.5ft. spall under unit 5.

Bent 2 cap has a few small spalls under units.

Trees and brush in channel.

Trees & brush in channel & under bridge restricting flow.

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)

Comment: Trees and brush in channel.

Trees & brush in channel & under bridge restricting flow.



Elevation 8-11-22



Span 1 8-11-22



Span 2 8-11-22



Span 2 Bent 2 unit 4&5 8-11-22



Bent 3 unit 5



South 8-11-22



Asset #23498(Routine)

CR 481-D (911=745) over Creek

Location: 1.4 MI S OF SCHOOL ST

Team Lead: James Adams, Inspection Date: 08/11/2022

Maintenance Needs

Date Reported: 08/09/2016

Priority: C - Important

Type of Work: (Inactive) (Inactive) 9 - None

Status: Open

Component: Channel

Deficiency Description

Trees and brush in channel & under bridge restricting flow.

Remarks



Elevation 8-11-22

Maintenance Needs

Date Reported: 10/23/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Superstructure

Deficiency Description

Span 1 unit 4 has a 4.5" deep spall with 1' of rebar exposed near mid span.

*Span 2 unit 7 has a spall with 1' of exposed rebar near mid span.

Remarks

*Span 2 unit 7 has a spall with 1' of exposed rebar near mid span.

Has been covered with grout, observed at inspection 08/11/2022 JFA/CWS



Span 2 unit 7



Span 1 unit 4

Maintenance Needs

Date Reported: 08/09/2016

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Monitor

Type of Work: (Inactive) (Inactive) 9 - None

Component: Substructure

Deficiency Description

Bent 1 abutment has a 3.5' spall under unit 5.

Remarks





Asset #23498(Routine)

CR 481-D (911=745) over Creek

Location: 1.4 MI S OF SCHOOL ST

Team Lead: James Adams, Inspection Date: 08/11/2022

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	
A-56 - Joint Cleaning/Flushing Needed	
A-57 - Beam End and Bearing Paint Needed	
A-58 - Cap Cleaning/Flushing Needed	
A-59 - Joint Repair Needed	
A-60 - Full Beam Painting Needed	
A-61 - Polymer Overlay Advised	
A-62 - Hydro and LMC Advised	
A-63 Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	

A-54 - Sealable Deck Cracks

A-55 - Deck Washing Needed

A-56 - Joint Cleaning/Flushing Needed



Asset #23498(Routine)

CR 481-D (911=745) over Creek

Location: 1.4 MI S OF SCHOOL ST

Team Lead: James Adams, Inspection Date: 08/11/2022

A-57 - Beam End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Beam Painting Needed

A-61 - Polymer Overlay Advised

A-62 - Hydro and LMC Advised

A-63 - Missing/Incorrect Log Mile Signage

A-64 - Vegetation Removal Requested



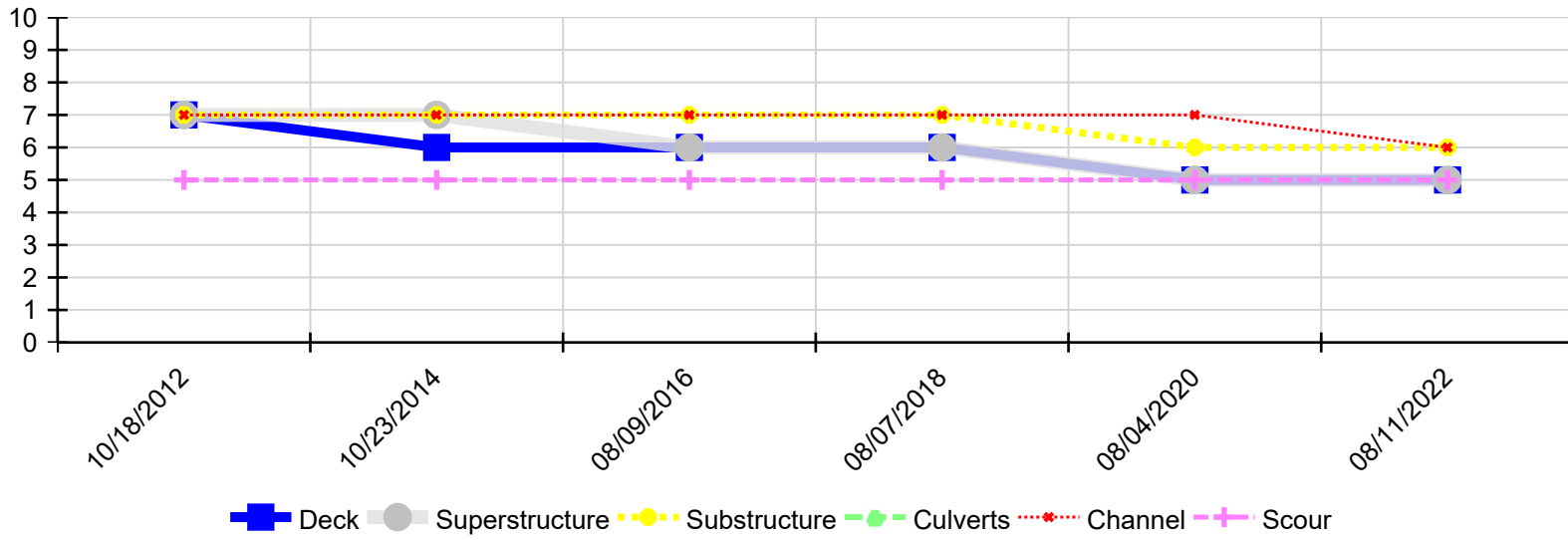
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Team Lead: James Adams, Inspection Date: 08/11/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/11/2022	5	5	6	N	6	5
08/04/2020	5	5	6	N	7	5
08/07/2018	6	6	7	N	7	5
08/09/2016	6	6	7	N	7	5
10/23/2014	6	7	7	N	7	5
10/18/2012	7	7	7	N	7	5