



Latitude:35.24286, Longitude:-94.42233

Route:45 Section:01 Log:17.92

Arnold Road ID:65x45x1xA, Arnold Log mile:17.669

District 04, 131 - Sebastian County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

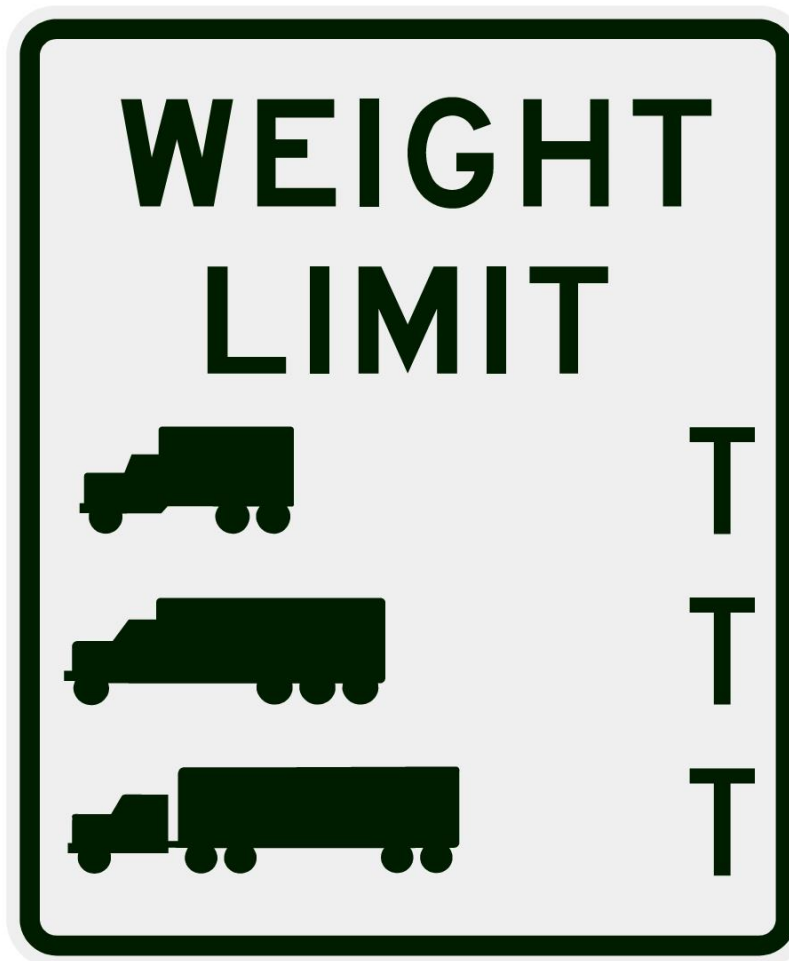
Bridge Posting Information

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

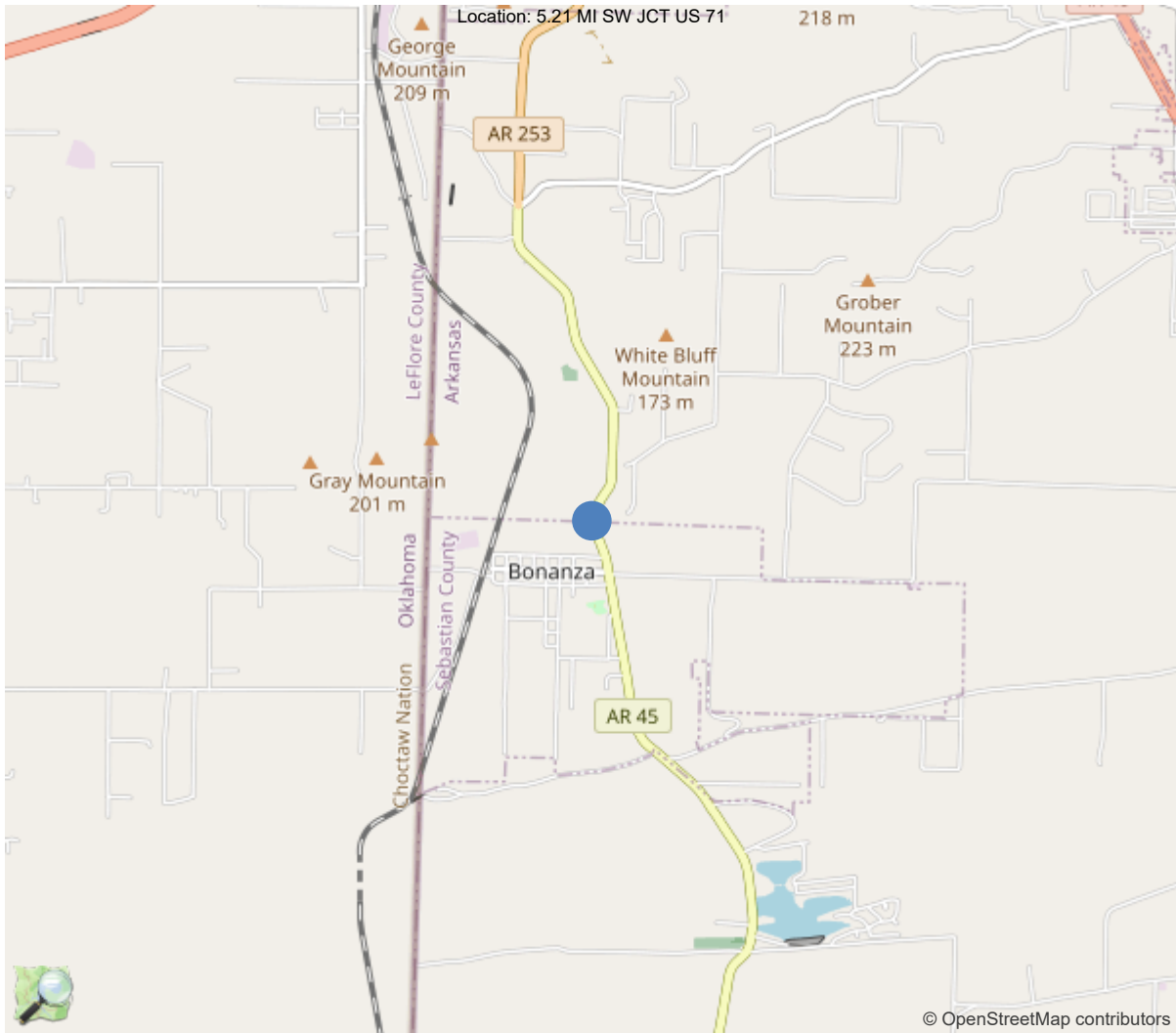
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	23		
Code 9 (31 Tons)	31		
Code 5 (40 Tons)	40		

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



35.24286, -94.42233



Asset #X0252(Routine)
SH 45 over Wells Creek Seb. Co.
Location: 5.21 MI SW JCT US 71

Team Lead: Bob McEntyre Inspection Date: 07/11/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	X0252
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	131 - Sebastian County
(4) Place Code	0
(6) Features Intersected	Wells Creek Seb. Co.
(7) Facility Carried	SH 45
(9) Location	5.21 MI SW JCT US 71
(11) Mile Point	17.92 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.24286
(17) Longitude	-94.42233
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	119
Material	1 - Concrete
Type	19 - Culvert
(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	N - Not applicable
(108) Wearing Surface/Protective System	
Type of Wearing Surface	N - Not applicable (applies only to stru
Type of Membrane	N - Not applicable (applies only to stru
Type of Deck Protection	N - Not applicable (applies only to stru
AGE AND SERVICE	
(27) Year Built	1974
(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	5000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	7 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	11 ft
(49) Structure Length	32 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	0 ft
(52) Deck Width Out to Out	0 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 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	29.9 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 exis
(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	1 - State Highway Agency
(22) Owner	1 - State Highway Agency
(37) Historical Significance	5 - Bridge is not eligible for
CONDITION	
(58) Deck	N
(59) Superstructure	N
(60) Substructure	N
(61) Channel & Channel Protection	6
(62) Culverts	6
LOAD RATING AND POSTING	
(31) Design Load	4 - M 18 / H 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	32
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	19
(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	N
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	6
(72) Approach Roadway Alignment	8
(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	8 - 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	7644
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	07/11/2024		
(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		
* 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.			



Asset #X0252(Routine)

SH 45 over Wells Creek Seb. Co.

Location: 5.21 MI SW JCT US 71

Team Lead: Bob McEntyre Inspection Date: 07/11/2024

General Observation

07/11/2024 - RSM & SPC: Routine Inspection conducted this date. See element notes for documentation.

Inspection Procedure: Inspection performed by wading through the culvert in relatively low and turbid water conditions with approximately 2-1/2' of freeboard at time of inspection.

Inspection Equipment: Waders, Range Poles.

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.)

07/11/2024 - RSM & SPC: The downstream channel (West Side) has streambed material accumulation (possible beaver dam) preventing flow and causing standing water under the culvert. Water is approximately 2' deep at time of inspection.

A-15 - Late Reason (N/A)

06/21/2022 - JCJ & CRW - Routine Inspection conducted late due to heavy workload.

Team Lead: Bob McEntyre **Inspection Date:** 07/11/2024

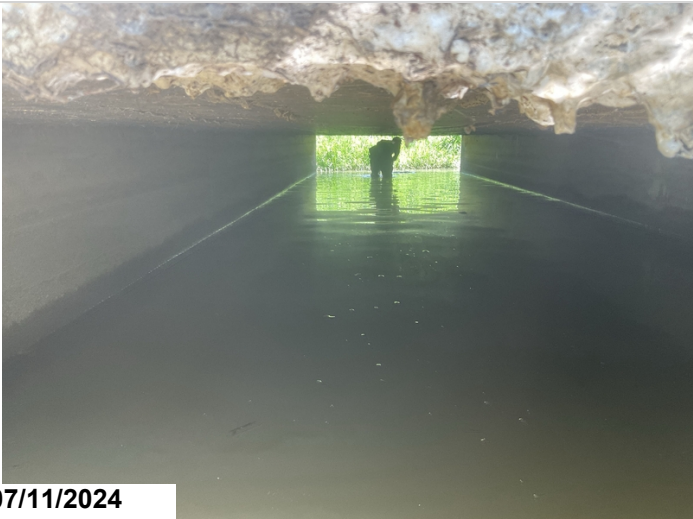
[illegible]



Elevation



Inspection direction.



Barrel # 1



Barrel # 2



07/11/2024

Barrel # 3



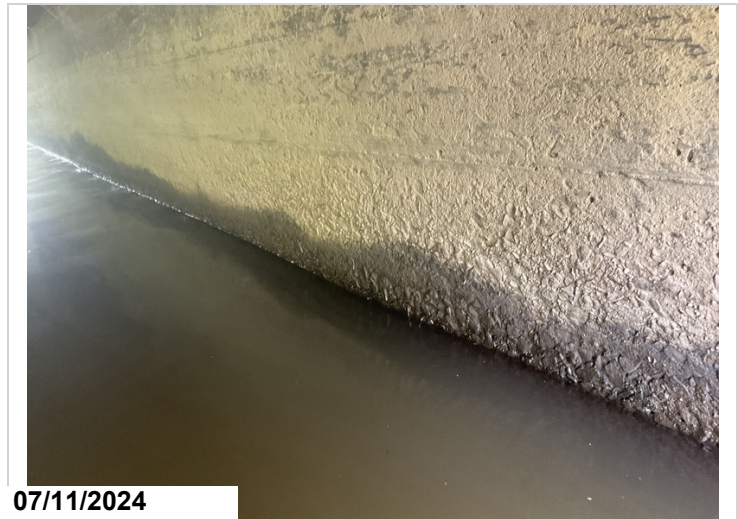
07/11/2024

Barrels # 1 and 2 Top Slab, Left Exterior Edge: Undersurface has a 3' spalled area and concrete deterioration with efflorescence along the Left exterior edge. 1LF Spalling CS3



07/11/2024

Top Slab Undersurface: Areas of honeycombing that exposes reinforcing steel from the construction process. 1LF Exposed Steel CS2



07/11/2024

Walls: Light abrasion to the walls at the water elevation.



07/11/2024

Top Slab Undersurface: Areas of honeycombing that exposes reinforcing steel from the construction process. The most extensive area with honeycombing is in Barrel # 2 at the inlet end of structure. Exposed steel 2LF CS3.



07/11/2024

Upstream Channel.



07/11/2024

Downstream Channel looking West.



07/11/2024

Driving surface

Maintenance Needs

Date Reported: 04/11/2012

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Culverts

Deficiency Description

Culvert Top Slab -

The undersurface of the top slab has areas of honeycombing that exposes reinforcing steel. Exposed reinforcing steel has a light rust coating with isolated areas of initial section loss.

Remarks



Top Slab Undersurface: Areas of honeycombing that exposes reinforcing steel from the construction process.
1LF Exposed Steel CS2



Top Slab Undersurface: Areas of honeycombing from the construction process that exposes reinforcing steel. The most extensive area with honeycombing is in Barrel # 2 at the inlet end of structure. Exposed steel 2LF CS3.

Maintenance Needs

Date Reported: 04/11/2012

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Culverts

Deficiency Description

Left Headwall (West) -

The Left headwall and vertical face of top slab has soft and deteriorating concrete over Barrels # 1 and 2 with mapcracking and efflorescence. The concrete is beginning to spall along the undersurface edges.

Remarks



07/15/2024
Barrels # 1 and 2 Top Slab, Left Exterior Edge:
Undersurface has a 3' spalled area and concrete
deterioration with efflorescence along the Left exterior
edge. 1LF Spalling CS3



05/19/2020
The Left headwall and vertical face of top slab has soft
and deteriorating concrete over Barrels # 1 and 2 with
mapcracking and efflorescence. The concrete is
beginning to spall along the undersurface edges.



Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
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	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	No

A-54 - Sealable Deck Cracks (No)

A-55 - Deck Washing Needed (No)

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



Asset #X0252(Routine)
SH 45 over Wells Creek Seb. Co.
Location: 5.21 MI SW JCT US 71

Team Lead: Bob McEntyre Inspection Date: 07/11/2024

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

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

A-59 - Joint Repair Needed (No)

A-60 - Full Girder Painting Needed (No)

A-61 - Polymer Overlay Advised (No)

A-62 - Hydro and LMC Advised (No)

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

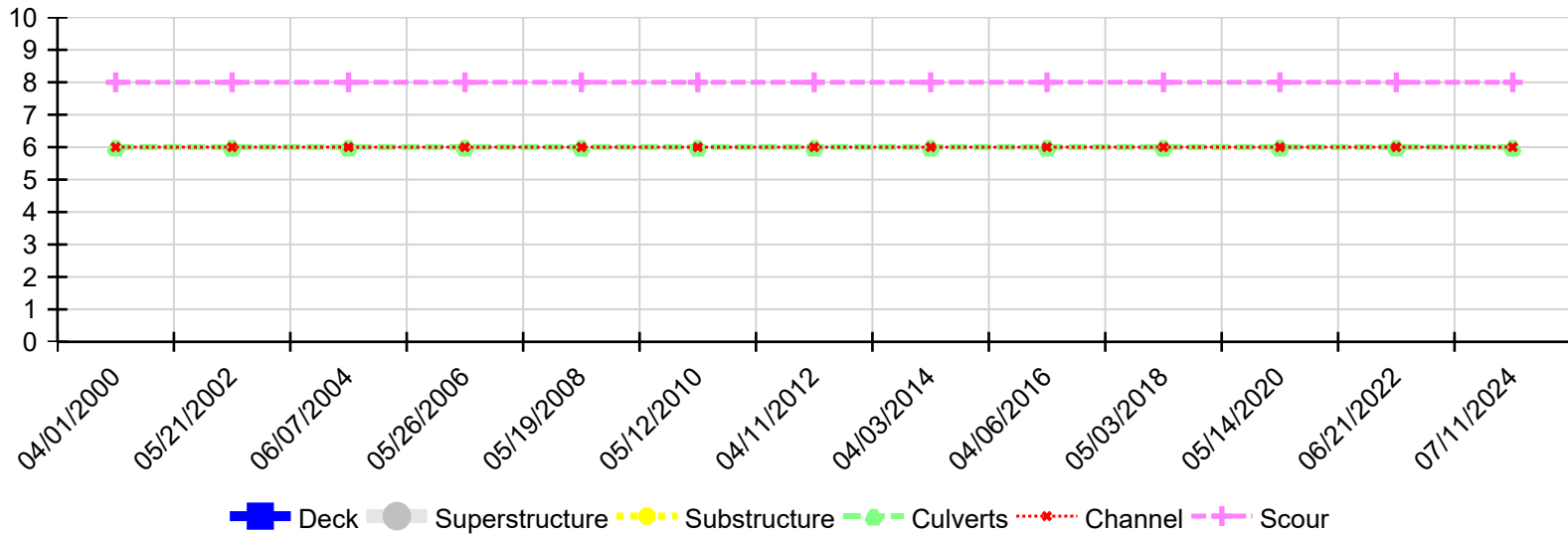
A-64 - Vegetation Removal Requested (No)



Asset #X0252(Routine)
SH 45 over Wells Creek Seb. Co.
Location: 5.21 MI SW JCT US 71

Team Lead: Bob McEntyre Inspection Date: 07/11/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/11/2024	N	N	N	6	6	8
06/21/2022	N	N	N	6	6	8
05/14/2020	N	N	N	6	6	8
05/03/2018	N	N	N	6	6	8
04/06/2016	N	N	N	6	6	8
04/03/2014	N	N	N	6	6	8
04/11/2012	N	N	N	6	6	8
05/12/2010	N	N	N	6	6	8
05/19/2008	N	N	N	6	6	8
05/26/2006	N	N	N	6	6	8
06/07/2004	N	N	N	6	6	8
05/21/2002	N	N	N	6	6	8
04/01/2000	N	N	N	6	6	8