



Latitude:33.82983, Longitude:-92.08315

Route:35 Section:05 Log:12.417

Arnold Road ID:13x35x5xA, Arnold Log mile:12.362

District 07, 25 - Cleveland County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

Bridge Posting Information

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

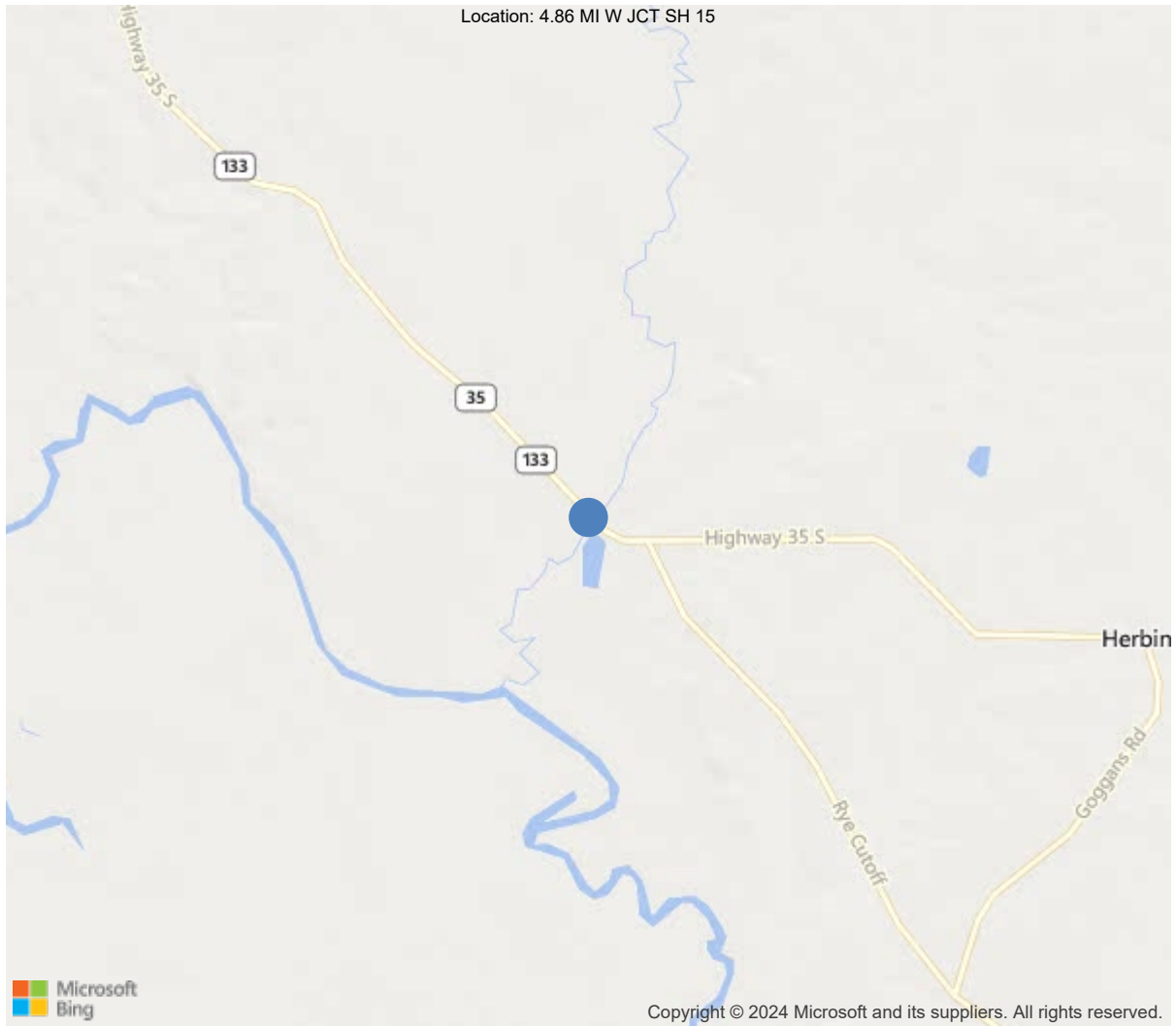
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	33		
Code 9 (31 Tons)	38		
Code 5 (40 Tons)	51		

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



33.82983, -92.08315



Asset #03415(Routine)

SH35 Sec5 Lm 12.42 over BIG CREEK

Location: 4.86 MI W JCT SH 15

Team Lead: Rickie Bratton, Inspection Date: 05/18/2020

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03415
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	25 - Cleveland County
(4) Place Code	0
(6) Features Intersected	BIG CREEK
(7) Facility Carried	SH35 Sec5 Lm 12.42
(9) Location	4.86 MI W JCT SH 15
(11) Mile Point	12.417 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.82983
(17) Longitude	-92.08315
(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	6
(46) No. of Approach Spans	0
(107) Deck Structure Type	2 - Concrete Precast Panels
(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	1961
(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	660
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	0 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	114 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	25 ft
(32) Approach Roadway Width (W/Shoulders)	22 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	24.9 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 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	5
(60) Substructure	7
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	45
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	27
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	7
(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	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	694
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	05/18/2020		
(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 #03415(Routine)

District: 07, County: 25 - Cleveland County

Team Lead: Rickie Bratton, Inspection Date: 05/18/2020

General Observation

05/30/2018 JPR -- this structure is logged from Northwest to Southeast.

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

Cattle trail crosses from one pasture to another under the structure along the bank and slope of abutment 2. This traffic and flooding have eroded the slope area.

A-46 - Asset Files

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Asset #03415(Routine)

SH35 Sec5 Lm 12.42 over BIG CREEK

Location: 4.86 MI W JCT SH 15

Team Lead: Rickie Bratton, Inspection Date: 05/18/2020

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2850	712	2138	0	0
1190	Abrasion/Wear (PSC/RC)	SF	2138	0	2138	0	0
110	Reinforced Concrete Open Girder/Beam	LF	1596	1579	6	11	0
1090	Exposed Rebar	LF	11	0	0	11	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0
215	Reinforced Concrete Abutment	LF	50	0	50	0	0
6000	Scour	LF	50	0	50	0	0
(215) Abutment 2 slope is eroded by a farm animal crossing under the structure along the slope and over bank area. Some scouring of opposite stream bank.							
227	Reinforced Concrete Pile	EA	15	0	15	0	0
1190	Abrasion/Wear (PSC/RC)	EA	15	0	15	0	0
234	Reinforced Concrete Pier Cap	LF	125	122	0	3	0
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0
304	Open Expansion Joint	LF	250	250	0	0	0
330	Metal Bridge Railing	LF	228	228	0	0	0



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Location: 4.86 MI W JCT SH 15

Team Lead: Rickie Bratton, Inspection Date: 05/18/2020

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	2850	712	2138	0	0
1190	Abrasion/Wear (PSC/RC)	SF	2138	0	2138	0	0



Asset #03415(Routine)

SH35 Sec5 Lm 12.42 over BIG CREEK

Location: 4.86 MI W JCT SH 15

Team Lead: Rickie Bratton, Inspection Date: 05/18/2020

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	1596	1579	6	11	0
1090	Exposed Rebar	LF	11	0	0	11	0
1130	Cracking (RC and Other)	LF	6	0	6	0	0



Asset #03415(Routine)

SH35 Sec5 Lm 12.42 over BIG CREEK

Location: 4.86 MI W JCT SH 15

Team Lead: Rickie Bratton, Inspection Date: 05/18/2020

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	50	0	50	0	0
6000	Scour	LF	50	0	50	0	0
(215) Abutment 2 slope is eroded by a farm animal crossing under the structure along the slope and over bank area. Some scouring of opposite stream bank.							
227	Reinforced Concrete Pile	EA	15	0	15	0	0
1190	Abrasion/Wear (PSC/RC)	EA	15	0	15	0	0
234	Reinforced Concrete Pier Cap	LF	125	122	0	3	0
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0

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

Comment: Cattle trail crosses from one pasture to another under the structure along the bank and slope of abutment 2. This traffic and flooding have eroded the slope area.



Span 2 unit 2, cracked and spalled with exposed rebar



Deck overview



Approach roadway



Elevation



Underside



Abutment 2 slope has eroded and cattle are using this to get back & forth from one side of the road to the other & have beaten the abutment slope down at the abutment.



Roadway



Bent 6 cap has spall on both ahead & back corners of Rt. End of the cap. Also grout between spans 5 & 6 on Rt. end is coming out.



Profile



Deck



Bent 3 Pile 1 has abrasion & wear 6' - 8' above water line,
this is typical of all piling in bents 2 - 6.



Asset #03415(Routine)

SH35 Sec5 Lm 12.42 over BIG CREEK

Location: 4.86 MI W JCT SH 15

Team Lead: Rickie Bratton, **Inspection Date:** 05/18/2020

Maintenance Needs

Date Reported: 05/15/2014

Priority: D- Routine

Status: Monitor

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

Component:

Deficiency Description

Span 1 PC units 2 & 3 have spall with exposed steel. PC unit 2 has 5' of spall G 3, and PC unit 3 has 2' of spall G 3.

Remarks

Maintenance Needs

Date Reported: 05/20/2020

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

Status: Open

Type of Work: (Inactive) (Inactive) 0 - N/A

Component:

Deficiency Description

Channel units have exposed rebar

Remarks



Span 6, overview of channel beams.



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 #03415(Routine)

SH35 Sec5 Lm 12.42 over BIG CREEK

Location: 4.86 MI W JCT SH 15

Team Lead: Rickie Bratton, Inspection Date: 05/18/2020

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



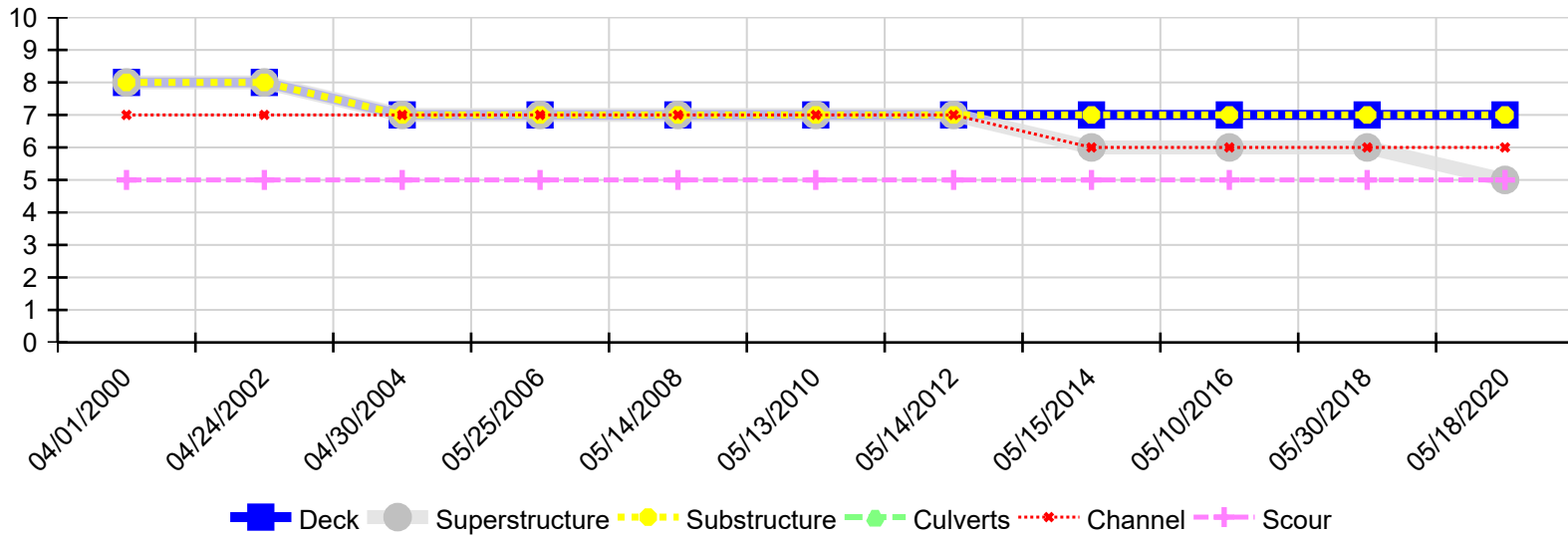
Asset #03415(Routine)

SH35 Sec5 Lm 12.42 over BIG CREEK

Location: 4.86 MI W JCT SH 15

Team Lead: Rickie Bratton, Inspection Date: 05/18/2020

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/18/2020	7	5	7	N	6	5
05/30/2018	7	6	7	N	6	5
05/10/2016	7	6	7	N	6	5
05/15/2014	7	6	7	N	6	5
05/14/2012	7	7	7	N	7	5
05/13/2010	7	7	7	N	7	5
05/14/2008	7	7	7	N	7	5
05/25/2006	7	7	7	N	7	5
04/30/2004	7	7	7	N	7	5
04/24/2002	8	8	8	N	7	5
04/01/2000	8	8	8	N	7	5