



Latitude:33.82098, Longitude:-92.02629

Route:35 Section:05 Log:15.926

Arnold Road ID:13x35x5xA, Arnold Log mile:15.875

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

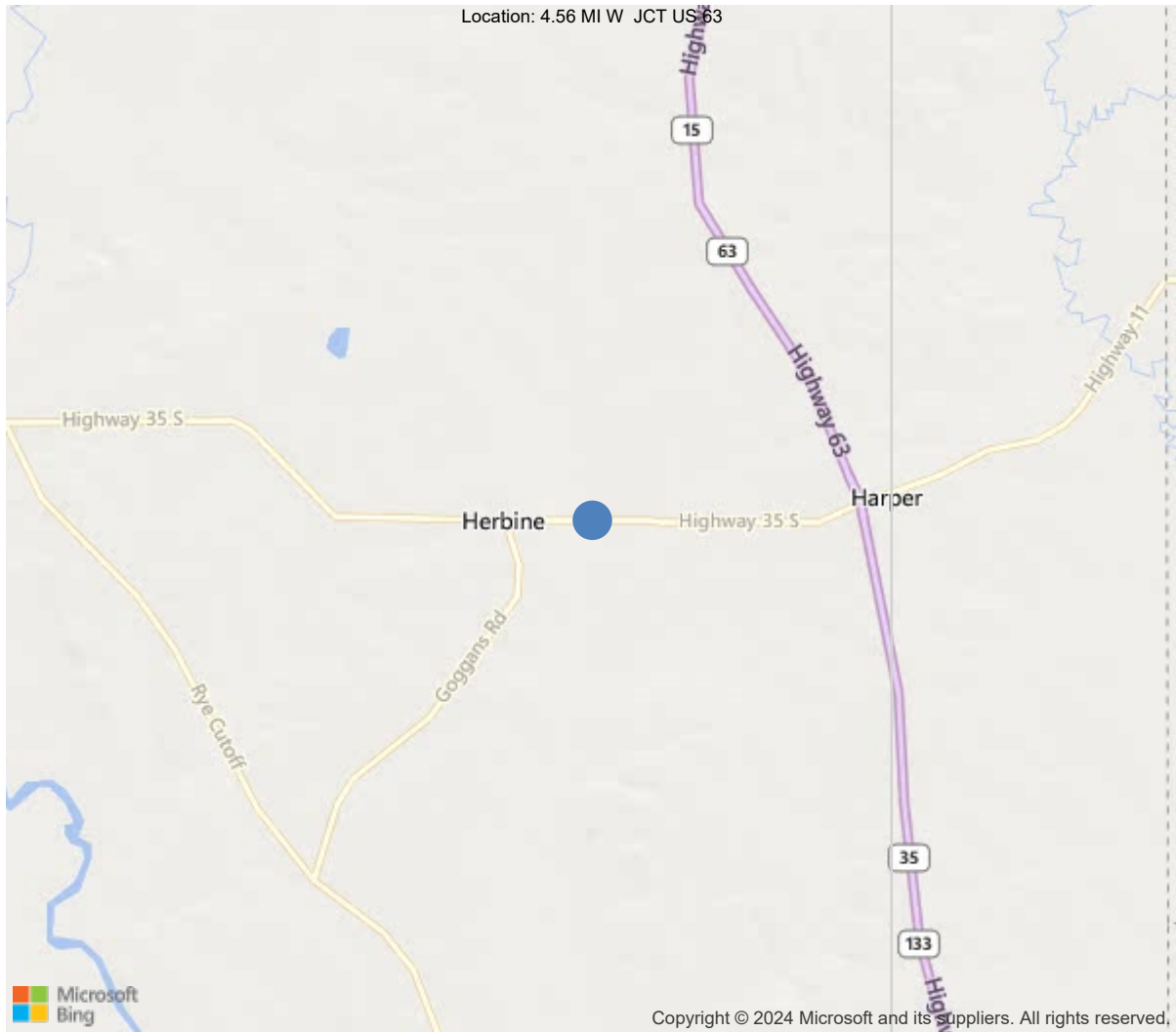
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	39		
Code 9 (31 Tons)	44		
Code 5 (40 Tons)	54		

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



33.82098, -92.02629



Asset #00461 (Routine)

SH 35 S-5 LM 15.92 over BLAKEY CREEK

Location: 4.56 MI W JCT US 63

Team Lead: Lee Swan, Inspection Date: 05/19/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	00461
(5) Inventory Route	1
(2) Highway Agency District	07 - District 07
(3) County Code	25 - Cleveland County
(4) Place Code	0
(6) Features Intersected	BLAKEY CREEK
(7) Facility Carried	SH 35 S-5 LM 15.92
(9) Location	4.56 MI W JCT US 63
(11) Mile Point	15.926 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.820984
(17) Longitude	-92.026291
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1 - Concrete
Type	4 - Tee 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	1927
(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	550
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	0 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	63 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	20 ft
(52) Deck Width Out to Out	23 ft
(32) Approach Roadway Width (W/Shoulders)	21 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	20 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	5
(59) Superstructure	5
(60) Substructure	5
(61) Channel & Channel Protection	7
(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	59
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	35
(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	3
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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 to
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	88 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 109
(96) Total Project Cost	\$ 265
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	694
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	05/19/2022		
(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>			



General Observation

05/30/2018 JPR -- This structure is logged from West to East.

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

G 2 span 1 has cracks and spalls with exposed steel

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

Bent 2 Cap is cracked with efflorescence, spalls with exposed steel,

A-46 - Asset Files

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Location: 4.56 MI W JCT US 63

Team Lead: Lee Swan, **Inspection Date:** 05/19/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1449	1430	4	15	0
1080	Delamination/Spall/Patched Area	SF	4	0	4	0	0
1090	Exposed Rebar	SF	15	0	0	15	0
510	Wearing Surfaces	SF	1260	1200	0	60	0
3220	Crack (Wearing Surface)	SF	60	0	0	60	0
(16) Spalls with exposed rebar with section loss and delamination in both spans.							
(510-16) Transverse cracks at the joints.							
110	Reinforced Concrete Open Girder/Beam	LF	189	139	10	40	0
1090	Exposed Rebar	LF	40	0	0	40	0
1120	Efflorescence/Rust Staining	LF	10	0	10	0	0
(110) Spalls with exposed rebar with section loss in both spans. Scattered small cracks with efflorescence.							
205	Reinforced Concrete Column	EA	2	0	0	2	0
1090	Exposed Rebar	EA	1	0	0	1	0
1120	Efflorescence/Rust Staining	EA	1	0	0	1	0
(205) Column 1 has efflorescence with build up. Column 2 has a large spall with exposed rebar with section loss.							
210	Reinforced Concrete Pier Wall	LF	14	7	0	7	0
1090	Exposed Rebar	LF	7	0	0	7	0
(210) The pier wall below the bent 2 cap has large spalls with exposed rebar with section loss.							
215	Reinforced Concrete Abutment	LF	46	46	0	0	0
(215) No notable defects.							
234	Reinforced Concrete Pier Cap	LF	23	16	7	0	0
1120	Efflorescence/Rust Staining	LF	7	0	7	0	0
(234) The bent 2 cap has cracks with efflorescence.							
301	Pourable Joint Seal	LF	20	0	0	20	0
2350	Debris Impaction	LF	20	0	0	20	0
(301) The pourable joint seal is impacted by the wearing surface.							
331	Reinforced Concrete Bridge Railing	LF	126	126	0	0	0
(331) Previous damage to the right rail at the end of the bridge has been repaired.							



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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1080	Delamination/Spall/Patched Area	SF	4	0	4	0	0
1090	Exposed Rebar	SF	15	0	0	15	0
510	Wearing Surfaces	SF	1260	1200	0	60	0
3220	Crack (Wearing Surface)	SF	60	0	0	60	0
(16) Spalls with exposed rebar with section loss and delamination in both spans.							
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Asset #00461(Routine)

SH 35 S-5 LM 15.92 over BLAKEY CREEK

Location: 4.56 MI W JCT US 63

Team Lead: Lee Swan, Inspection Date: 05/19/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	189	139	10	40	0
1090	Exposed Rebar	LF	40	0	0	40	0
1120	Efflorescence/Rust Staining	LF	10	0	10	0	0
(110) Spalls with exposed rebar with section loss in both spans. Scattered small cracks with efflorescence.							

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

Comment: G 2 span 1 has cracks and spalls with exposed steel



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Location: 4.56 MI W JCT US 63

Team Lead: Lee Swan, Inspection Date: 05/19/2022

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	2	0	0	2	0
1090	Exposed Rebar	EA	1	0	0	1	0
1120	Efflorescence/Rust Staining	EA	1	0	0	1	0
(205) Column 1 has efflorescence with build up. Column 2 has a large spall with exposed rebar with section loss.							
210	Reinforced Concrete Pier Wall	LF	14	7	0	7	0
1090	Exposed Rebar	LF	7	0	0	7	0
(210) The pier wall below the bent 2 cap has large spalls with exposed rebar with section loss.							
215	Reinforced Concrete Abutment	LF	46	46	0	0	0
(215) No notable defects.							
234	Reinforced Concrete Pier Cap	LF	23	16	7	0	0
1120	Efflorescence/Rust Staining	LF	7	0	7	0	0
(234) The bent 2 cap has cracks with efflorescence.							

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

Comment: Bent 2 Cap is cracked with efflorescence, spalls with exposed steel,



Elevation



Column 2 exposed rebar



Typical soffit



Span 1 bay



Bent 2 girder 2



Bent 2 efflorescence in cap



Span 2 girde 3, exposed rebar



Span 2 bay 2, exposed rebar in soffit



Bent 2 pier wall, exposed rebar



Bent 2 column 1, build up of efflorescence



Typical deck



Approach

Maintenance Needs

Date Reported: 05/15/2014

Priority: C - Important

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

Status: Repair Documented

Component:

Deficiency Description

Bridge End Post and top concrete rail @ BR End Rt. collision damage, top of end post broke and top rail is missing.

Remarks

5/19/2022-RLS-Bridge post and rail have been repaired.



Repaired bridge railing.



Abutment 2 Rt. BR end post & top rail in last section before the BR end post, has collision damage.



Maintenance Needs

Date Reported: 05/15/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Span 1 Girder 2 @ bent 2 back, spall @ haunch with exposed steel with pack rust and section loss. 05/30/2018 JPR -- Little or no change since last inspection.

Remarks



Bent 2 girder 2



Bent 2 haunch below & back of bent 2 girder 2 has a spall with exposed steel with some section loss. Also bent 2 cap has some cracking with efflorescence on back face of the cap.

Maintenance Needs

Date Reported: 05/30/2018

Priority: D- Routine

Type of Work: Repair (General)

Status: Open

Component: Element

Deficiency Description

Added 5/19/2022 RLS- spalls with exposed rebar in soffit both bays both spans.

Span 1, mid-span between girders 2 & 3 there is a spall on Soffit of deck with exposed steel with section loss.

Remarks



Span 1 bay



Span 2 bay 2, exposed rebar in soffit



Span 1, mid-span between girders 2 & 3 there is a spall on Soffit of deck with exposed steel with section loss.

Maintenance Needs

Date Reported: 05/19/2022

Priority: D- Routine

Type of Work: (Inactive) (Inactive) 1 - Clean

Status: Open

Component: Channel

Deficiency Description

Small trees growing next to and under bridge.

Remarks



Span 1 right side.



Span 2 vegetation



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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



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SH 35 S-5 LM 15.92 over BLAKEY CREEK

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Team Lead: Lee Swan, Inspection Date: 05/19/2022

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

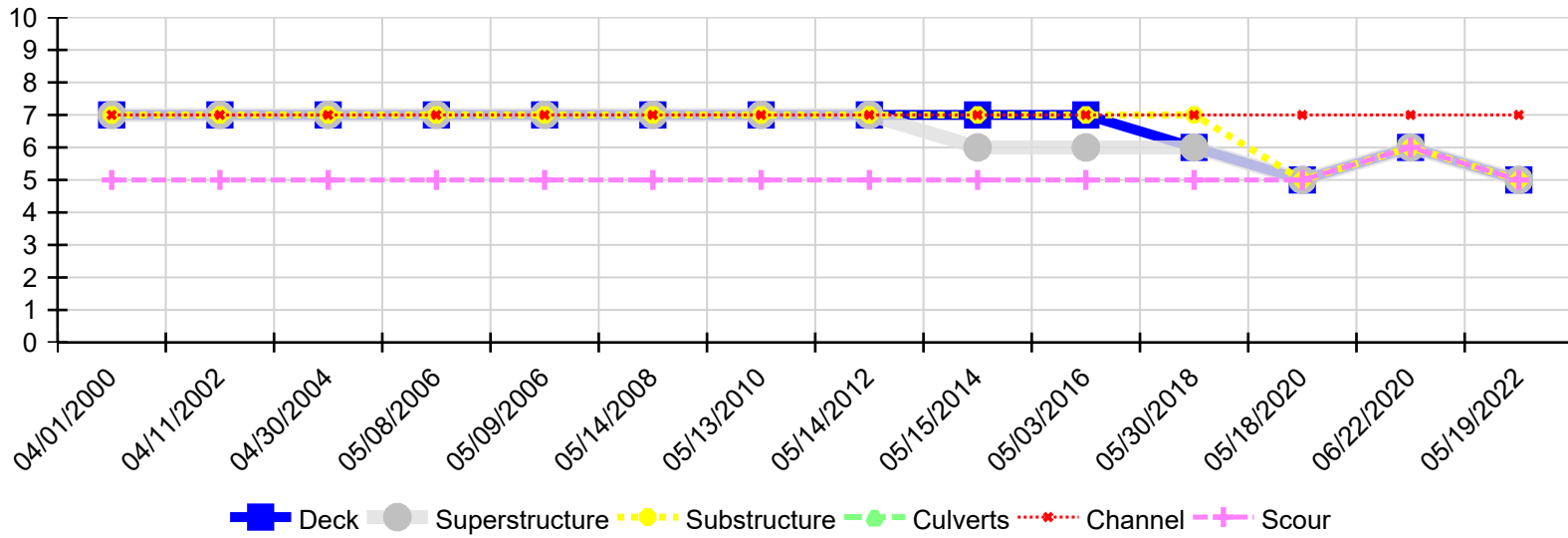


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Location: 4.56 MI W JCT US 63

Team Lead: Lee Swan, Inspection Date: 05/19/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
05/19/2022	5	5	5	N	7	5
06/22/2020	6	6	6	N	7	6
05/18/2020	5	5	5	N	7	5
05/30/2018	6	6	7	N	7	5
05/03/2016	7	6	7	N	7	5
05/15/2014	7	6	7	N	7	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
05/09/2006	7	7	7	N	7	5
05/08/2006	7	7	7	N	7	5
04/30/2004	7	7	7	N	7	5
04/11/2002	7	7	7	N	7	5
04/01/2000	7	7	7	N	7	5