



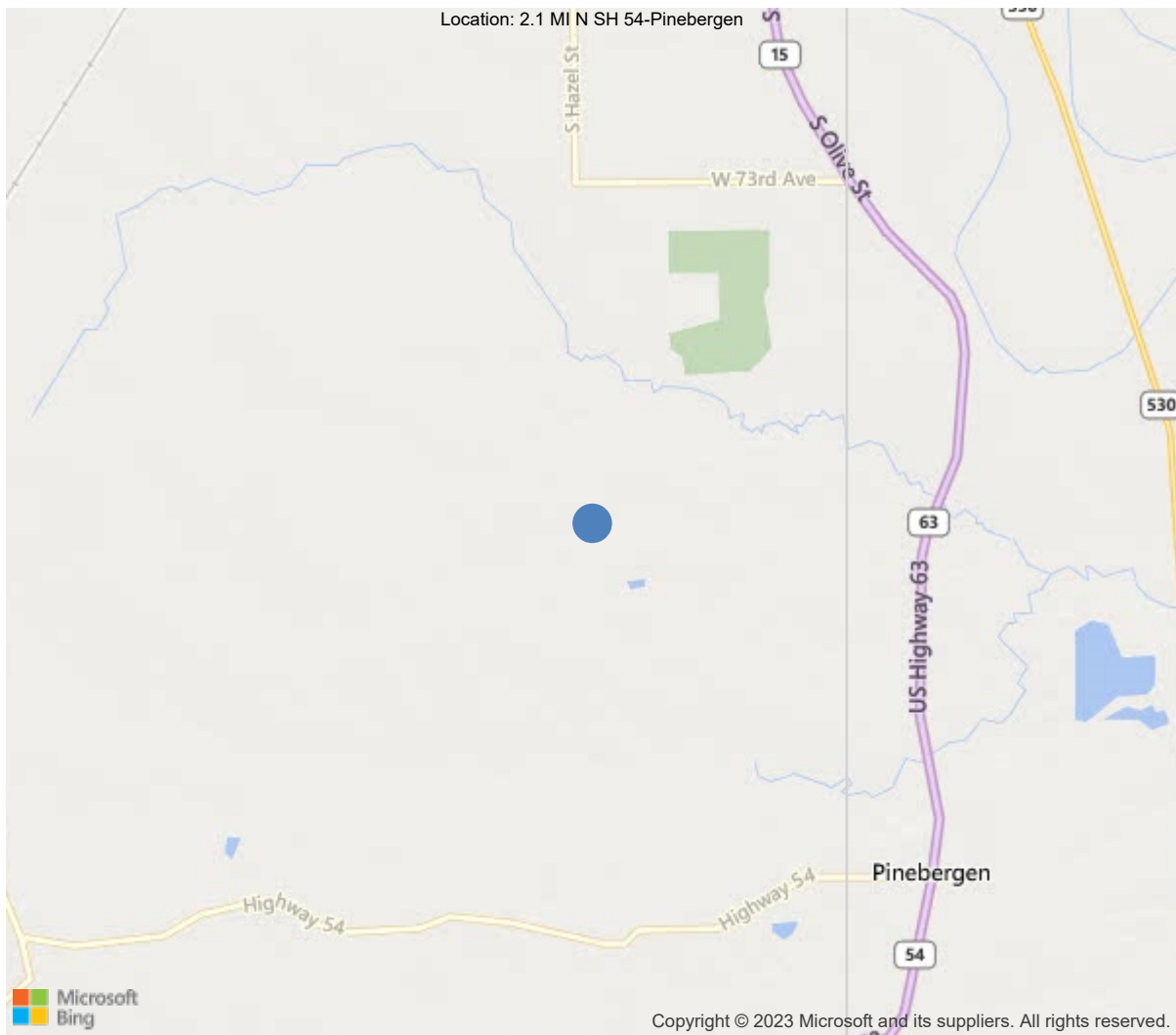
Latitude:34.12612, Longitude:-92.02237

Route:31 Section:00 Log:3.47

Arnold Road ID:35xMIDDLEWARRENRDx1xA, Arnold Log mile:2.113

District 02, 69 - Jefferson County

Owner: 2 - County Highway Agency



34.12612, -92.02237



Asset #21665(Routine, Underwater type 2)

MiddleWarrenRd-CR over Creek

Location: 2.1 MI N SH 54-Pinebergen

Team Lead: Sharon Hooks, Inspection Date: 11/09/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	21665
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	69 - Jefferson County
(4) Place Code	0
(6) Features Intersected	Creek
(7) Facility Carried	MiddleWarrenRd-CR
(9) Location	2.1 MI N SH 54-Pinebergen
(11) Mile Point	3.47 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.1261173911959
(17) Longitude	-92.0223658895492
(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	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	1996
(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	270
(30) Year of ADT	1995
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	29 ft
(49) Structure Length	64 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	28.7 ft
(52) Deck Width Out to Out	30.8 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	29.2 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	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	8 - Rural Minor 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	2 - County Highway Agency
(22) Owner	2 - County Highway Agency
(37) Historical Significance	4 - Historical significance is
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	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	6
(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	
(114) Future ADT	342
(115) Year of Future ADT	2015

INSPECTIONS *			
(90) Inspection Date	11/09/2021		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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 #21665(Routine, Underwater type 2)

District: 02, County: 69 - Jefferson County

Team Lead: Sharon Hooks, Inspection Date: 11/09/2021

A-46 - Asset Files

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General Observation (False)

Bridge is logged from north to south.

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1720	1700	20	0	0
1080	Delamination/Spall/Patched Area	SF	20	0	20	0	0
(16) Deck: 28'-8" wide (separate curb unit NOT included) x 60' long = 1720 sqft. Joints between units are grouted and grout is cracked, broken up, and missing in several places, especially Span 1 Units 2-5 and Span 2 Units 2-7. NOTE: Span 2 Units 4-7: Spalls have been patched with an asphalt/pea-gravel mix. (20')							
110	Reinforced Concrete Open Girder/Beam	LF	480	430	50	0	0
1080	Delamination/Spall/Patched Area	LF	10	0	10	0	0
1130	Cracking (RC and Other)	LF	40	0	40	0	0
(110) Girders: 8 precast units per span / Spans 1-2 (30' each = 60' total span). Units are bolted transversely and longitudinally - no noted or missing bolts. A few scattered chips and nicks - both spans have minor spalls and delaminations. Several hairline-sized flexure cracks, concentrated near midspan.							
215	Reinforced Concrete Abutment	LF	64	60	4	0	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
(215) Abutments: 32' each / Bents 1 & 3. Small spalls on abutment.							
225	Steel Pile	EA	5	4	1	0	0
1000	Corrosion	EA	1	0	1	0	0
(225) Piling: 5 per bent / Bent 2. Steel H-piling with concrete encasement within a corrugated steel pipe. Corrugated steel pipe beginning to rust at waterline. Bent 2 Pile 5: 8" of steel piling exposed below encasement (under water - 2019 inspection). H pile is under water 2021 JRB not visible.							
234	Reinforced Concrete Pier Cap	LF	32	29	3	0	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
(234) Caps: 32' each / Bent 2. Small scattered spalls and 2' patched area.							

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	480	430	50	0	0
1080	Delamination/Spall/Patched Area	LF	10	0	10	0	0
1130	Cracking (RC and Other)	LF	40	0	40	0	0
(110) Girders: 8 precast units per span / Spans 1-2 (30' each = 60' total span). Units are bolted transversely and longitudinally - no noted or missing bolts. A few scattered chips and nicks - both spans have minor spalls and delaminations. Several hairline-sized flexure cracks, concentrated near midspan.							

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	64	60	4	0	0
1080	Delamination/Spall/Patched Area	LF	4	0	4	0	0
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1000	Corrosion	EA	1	0	1	0	0
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234	Reinforced Concrete Pier Cap	LF	32	29	3	0	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
(234) Caps: 32' each / Bent 2. Small scattered spalls and 2' patched area.							



Asset #21665(Routine, Underwater type 2)

MiddleWarrenRd-CR over Creek

Location: 2.1 MI N SH 54-Pinebergen

Team Lead: Sharon Hooks, Inspection Date: 11/09/2021

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
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Elevation.



Under view.



Deck over view.



Approach.

Maintenance Needs

Date Reported: 11/03/2015
Priority: (Inactive) (Inactive) G - General/ Preventive maintenance
Type of Work: (Inactive) (Inactive) 0 - N/A
Status: Monitor
Component:

Deficiency Description

End slopes – Bents 1 & 3: Some erosion of slope material due to leaking of stormwater through joints between units, heaviest at Bent 1 left and Bent 3 full width.

Remarks



Endslope - Bent 3: Erosion



Date Reported: 11/03/2015
Priority: C - Important
Type of Work: (Inactive) (Inactive) 0 - N/A
Status: Monitor
Component:

Deficiency Description

Deck – various locations: Grout between units is cracked, broken up, and missing in several places, especially Span 1 Units 2-5 and Span 2 Units 2-7.

NOTE: A couple areas have been patched with an asphalt/pea-gravel mix.
This repair does prevent any leakage of stormwater through cracks; however, it does not provide for the transferring of loads between units that proper grout does.

Remarks



Deck grout missing in keyways at various locations.



Deck - Span 2 Units 2-7: Grout deterioration





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MiddleWarrenRd-CR over Creek

Location: 2.1 MI N SH 54-Pinebergen

Team Lead: Sharon Hooks, **Inspection Date:** 11/09/2021

Routine Maintenance

Check Box Maintenance Items

Data Field	Value
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 - Hydo and LMC Advised	



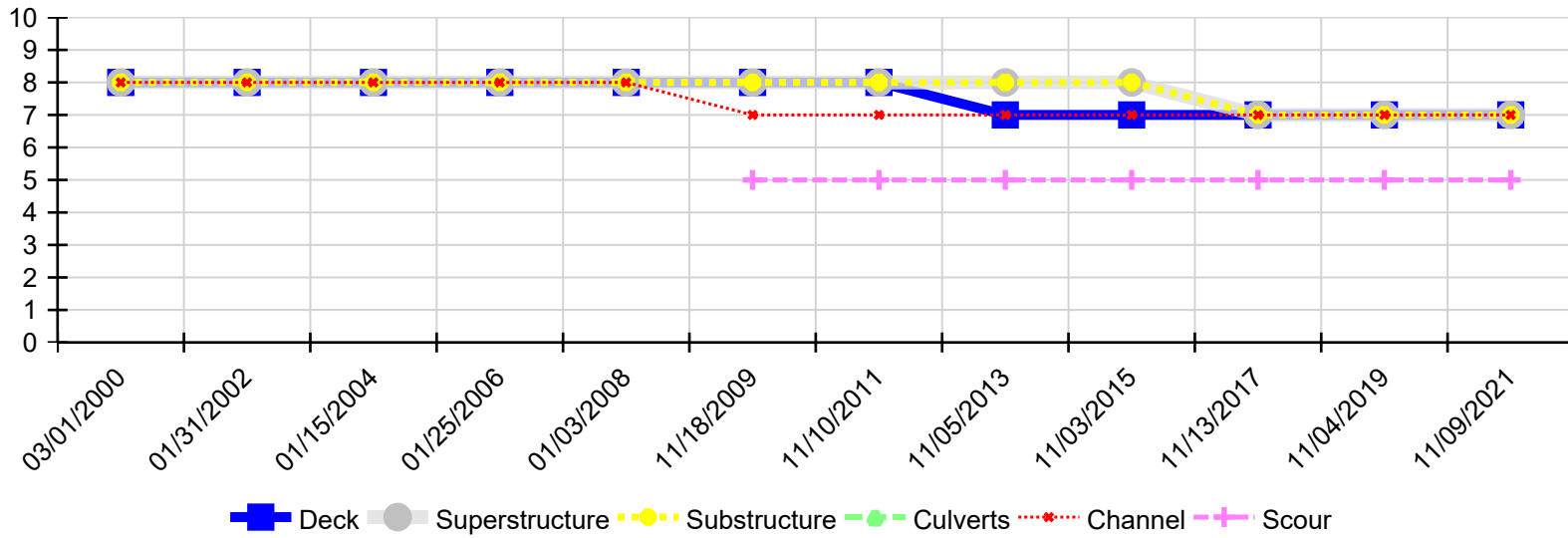
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Location: 2.1 MI N SH 54-Pinebergen

Team Lead: Sharon Hooks, Inspection Date: 11/09/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
11/09/2021	7	7	7	N	7	5
11/04/2019	7	7	7	N	7	5
11/13/2017	7	7	7	N	7	5
11/03/2015	7	8	8	N	7	5
11/05/2013	7	8	8	N	7	5
11/10/2011	8	8	8	N	7	5
11/18/2009	8	8	8	N	7	5
01/03/2008	8	8	8	N	8	N
01/25/2006	8	8	8	N	8	N
01/15/2004	8	8	8	N	8	N
01/31/2002	8	8	8	N	8	N
03/01/2000	8	8	8	N	8	N