



Latitude:34.59871, Longitude:-90.74409

Route:242 Section:01 Log:8.71

Arnold Road ID:54x242x1xA, Arnold Log mile:8.711

District 01, 107 - Phillips County

Owner: 1 - State Highway Agency

Bridge Posting Information

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

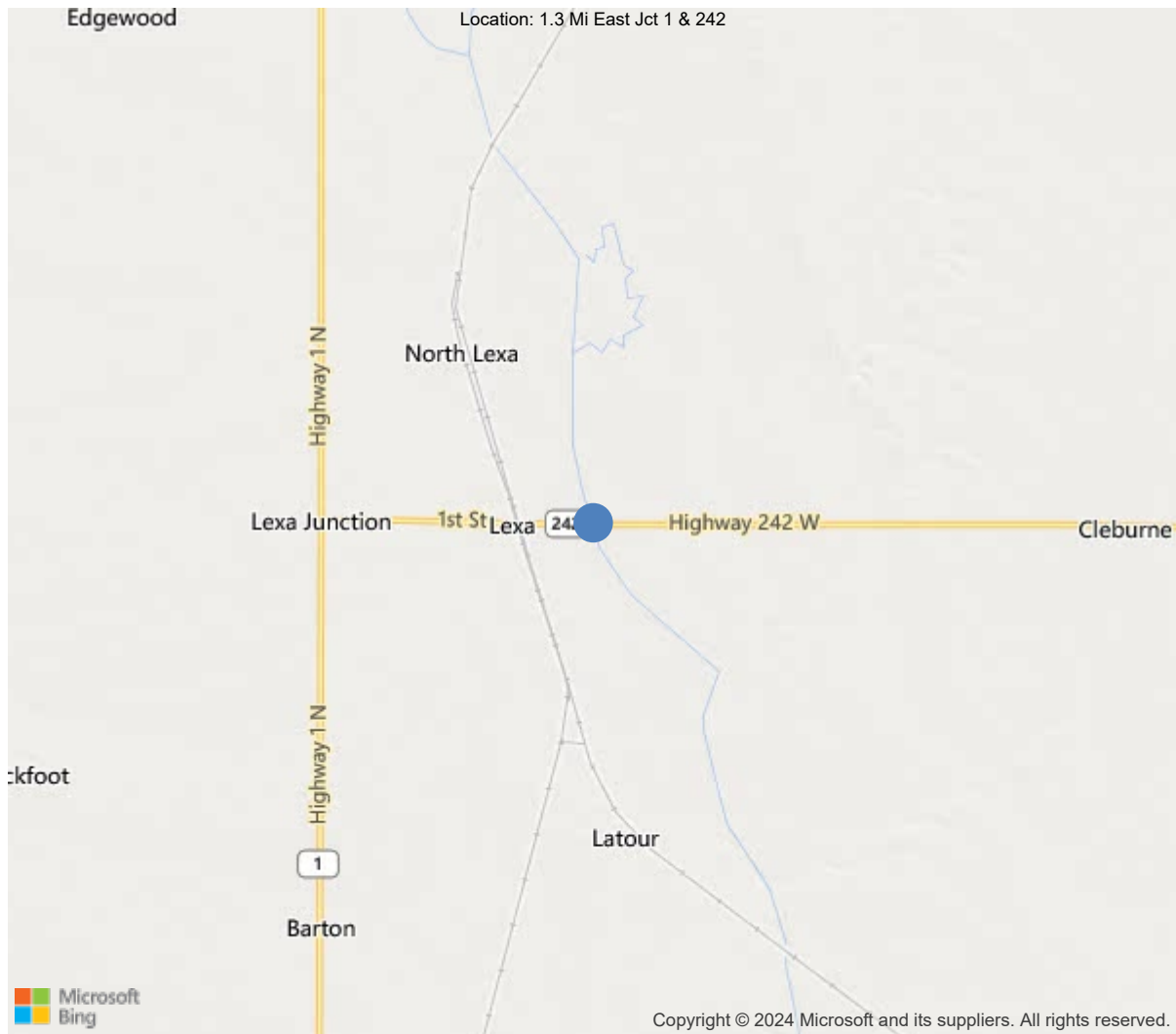
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	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



34.59871, -90.74409



Asset #M4049(Routine, Underwater type 2)

Sh-242/Sec-1/L8.71 over Cura Creek

Location: 1.3 Mi East Jct 1 & 242

Team Lead: Drew Melton, Inspection Date: 08/09/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M4049
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	107 - Phillips County
(4) Place Code	0
(6) Features Intersected	Cura Creek
(7) Facility Carried	Sh-242/Sec-1/L8.71
(9) Location	1.3 Mi East Jct 1 & 242
(11) Mile Point	8.71 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.59871
(17) Longitude	-90.74409
(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	4
(46) No. of Approach Spans	0
(107) Deck Structure Type	2 - Concrete Precast Panels
(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	1965
(106) Year Reconstructed	1979
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	1100
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	124 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	26.1 ft
(52) Deck Width Out to Out	28.1 ft
(32) Approach Roadway Width (W/Shoulders)	25.9 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	26.1 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 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	6
(59) Superstructure	5
(60) Substructure	5
(61) Channel & Channel Protection	5
(62) Culverts	N
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	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	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 to
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	1573
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/09/2022		
(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		
* 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 #M4049(Routine, Underwater type 2)

District: 01, County: 107 - Phillips County

Team Lead: Drew Melton, Inspection Date: 08/09/2022

General Observation

Bent #3 right side has a moderate drift.
Abutment #1 approach roadway has settled up to 1 1/4".
Abutment #2 approach roadway has settled up to 1 1/2".
Gutters have dirt and debris in them.
Vegetation growing beside, under and onto bridge.

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

08/06/2018 lowered deck from 7 to 6 due to deck spalls.

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

08/06/2018 lowered superstructure from 7 to 5 due to structural cracks and exposed rebar with section loss.

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

08/06/2018 lowered substructure from 7 to 5 due to decay in piles and spalls on caps.

61 - Channel/Channel Protection (5 - Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and brush restrict the channel.)

08/06/2018 lowered channel from 7 to 5 due to drift and erosion of slopes.

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	3493	3468	0	20	5
1080	Delamination/Spall/Patched Area	SF	25	0	0	20	5
510	Wearing Surfaces	SF	2630	2610	0	20	0
3210	Delam/Spall/Patched Area/Pothole	SF	20	0	0	20	0
<p>(16) Span #1 joint between units #1,2 and 2,3 is spalled two inches deep. Span #1 between units #4,5 is spalled three to four inches deep and also spalling unit #4. Span #3 deck joint between units #2,3 has repaired spalled area with asphalt. Bent #2 left side deck has a slight sag due to pile being replaced.</p>							
110	Reinforced Concrete Open Girder/Beam	LF	992	770	65	157	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	30	0	0	30	0
1130	Cracking (RC and Other)	LF	191	0	64	127	0
<p>(110) All girders all legs have hairline flexure cracks spaced six inches apart. Each spans on unit stems have rebar exposed with minor section loss.</p> <p>Span #1 center span between units #1,2 has a connection bolt loose. Span #1 between units #7,8 first connection bolt missing. Span #1 between units #4,5 center span bolt is loose. Span #4 between units #3,4 four connection bolts are loose.</p> <p>Span #1 at bent #2 and span #4 at bent #5 curb unit left and right sides have areas of spalling with no rebar exposed. Span #1 unit #1 right leg has cs3 cracks for 3' on side of girder just ahead on center span, has a 1' delamination on side of leg at 1/4 span, and a 1' spall with no exposed rebar on bottom just ahead on center span. Span #1 unit #2 both legs have cs3 cracks in side of stem full length. Span #1 unit #3 both legs have cs3 cracks in side of stem first half of span. Span #1 unit #4 right leg has cs3 cracks in side of stem full length, and a 1' spall exposed rebar just ahead of center span in side/bottom moderate section loss. Span #1 unit #4 left leg has cs3 cracks first half of span on side of steam. Span #1 unit #6 left leg has cs2,cs3 cracks in side of stem in center for fifteen feet and several pieces of exposed rebar due to poor coverage with moderate section loss. Span #1 unit #6 right leg has cs2 cracks for 6' on side of stem first part of span. Span #1 unit #7 left leg has cs2,cs3 cracks in side of stem first half of span. Span #1 unit #7 right leg has cs2 cracks for 8' on side of stem near center.</p> <p>Span #2 unit #1 right leg has cs3 cracks for 8' on bottom chord starting at bent #2.</p> <p>Span #3 unit #1 left leg has cs3 cracks for 2' on bottom chord 1/4 span. Span #3 unit #2 left leg has cs3 cracks for 3' on bottom chord 1/4 span. Span #3 unit #2 right leg has cs3 cracks for 2' on bottom chord center span. Span #3 unit #4 left leg has cs2 cracks on side and bottom at 1/4 span for 4'. Span #3 unit #5 right leg has cs2 cracks for 12' on side of stem starting at 1/4 span. Span #3 unit #6 left leg has cs2 cracks on bottom for 15' starting at 1/4 span.</p> <p>Span #4 unit #2 left leg has cs2, cs3 cracks in side and bottom for 18' starting at 1/4 span. Span #4 unit #5 right leg has cs2 cracks in side of steam for 3' at 1/4 span. Span #4 unit #7 right leg has cs2, cs3 cracks in side of stem for 15' center span.</p>							



Asset #M4049(Routine, Underwater type 2)

Sh-242/Sec-1/L8.71 over Cura Creek

Location: 1.3 Mi East Jct 1 & 242

Team Lead: Drew Melton, **Inspection Date:** 08/09/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
216	Timber Abutment	LF	66	58	0	8	0
1140	Decay/Section Loss	LF	8	0	0	8	0
(216) Abutment #1 back wall is decayed on both ends allowing erosion. Bags have been placed.							
228	Timber Pile	EA	25	0	12	13	0
1140	Decay/Section Loss	EA	13	0	0	13	0
1160	Crack (Timber)	EA	12	0	12	0	0
(228) Pile length and depth is unknown Piles have minor cracks. Bent #1 pile #3 is split 2" wide and core decayed with moderate section loss. Bent #1 pile #5 has been spliced and encased in concrete. Encasement has unknown structural makeup. Bent #2 pile #1 is spliced and encased in concrete. Encasement has unknown structural makeup. Bent #2 pile #2 is spliced and encased in concrete. Encasement has unknown structural makeup. Bent #3 pile #2 has a split and outer shell decay with moderate section loss. Bent #3 pile #3 has outer shell decay with moderate section loss. Bent #3 pile #5 each has outer shell decay with moderate section loss. Bent #4 pile #1 is spliced and encased in concrete. Encasement has unknown structural makeup. Bent #4 pile #2 is spliced and encased in concrete. Encasement has unknown structural makeup. Bent #4 pile #3 has outer shell decay with moderate section loss and is split. Bent #4 pile #4 is spliced and encased in concrete encasement is undermined 6". Encasement has unknown structural makeup. Bent #4 pile #5 has minor outer shell decay. Bent #5 pile #3 is spliced and encased in concrete. Encasement has unknown structural makeup.							
234	Reinforced Concrete Pier Cap	LF	143	123	3	17	0
1080	Delamination/Spall/Patched Area	LF	13	0	3	10	0
1090	Exposed Rebar	LF	7	0	0	7	0
(234) Bent #2 cap back face has three one foot spalls at top and left end is spalled no rebar exposed. Bent #2 cap ahead face has four one foot spalls at top no exposed rebar. Bent #2 cap bottom face has 7 three inch pieces of exposed rebar due to poor concrete coverage. Bent #3 cap back face has three one foot and one two foot spalls at top with no exposed rebar and two 1' delaminations. Bent #3 cap ahead face has four one foot spalls at top with no rebar exposed. Bent #4 cap ahead face has six feet of spalls between piles #3,#4 with exposed rebar with minor section loss. Bent #4 cap back face has five one foot spalls at top with no rebar exposed. Bent #4 cap bottom has a one foot spall with exposed rebar with moderate section loss near pile #1 and a few random pieces of rebar exposed due to poor coverage.							
301	Pourable Joint Seal	LF	85	0	0	85	0
2350	Debris Impaction	LF	85	0	0	85	0
(301) Joints have been overlaid limiting movement.							
330	Metal Bridge Railing	LF	248	244	1	3	0
1020	Connection	LF	4	0	1	3	0
515	Steel Protective Coating	SF	744	744	0	0	0

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(330)	Abutment #1 right headwall is spalled with exposed rebar with no section loss. Span #4 right bridge rail span #4 post #2 is spalled with exposed rebar minor section loss. Span #4 right bridge rail span #4 post #4 has cs3 cracks and delaminated areas. Span #4 left bridge rail last post is spalled at bottom with exposed rebar no section loss.						



Asset #M4049(Routine, Underwater type 2)

Sh-242/Sec-1/L8.71 over Cura Creek

Location: 1.3 Mi East Jct 1 & 242

Team Lead: Drew Melton, Inspection Date: 08/09/2022

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	3493	3468	0	20	5
1080	Delamination/Spall/Patched Area	SF	25	0	0	20	5
510	Wearing Surfaces	SF	2630	2610	0	20	0
3210	Delam/Spall/Patched Area/Pothole	SF	20	0	0	20	0
(16) Span #1 joint between units #1,2 and 2,3 is spalled two inches deep. Span #1 between units #4,5 is spalled three to four inches deep and also spalling unit #4. Span #3 deck joint between units #2,3 has repaired spalled area with asphalt. Bent #2 left side deck has a slight sag due to pile being replaced.							

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Comment: 08/06/2018 lowered deck from 7 to 6 due to deck spalls.



Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
110	Reinforced Concrete Open Girder/Beam	LF	992	770	65	157	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	30	0	0	30	0
1130	Cracking (RC and Other)	LF	191	0	64	127	0
<p>(110) All girders all legs have hairline flexure cracks spaced six inches apart. Each spans on unit stems have rebar exposed with minor section loss.</p> <p>Span #1 center span between units #1,2 has a connection bolt loose. Span #1 between units #7,8 first connection bolt missing. Span #1 between units #4,5 center span bolt is loose. Span #4 between units #3,4 four connection bolts are loose.</p> <p>Span #1 at bent #2 and span #4 at bent #5 curb unit left and right sides have areas of spalling with no rebar exposed. Span #1 unit #1 right leg has cs3 cracks for 3' on side of girder just ahead on center span, has a 1' delamination on side of leg at 1/4 span, and a 1' spall with no exposed rebar on bottom just ahead on center span. Span #1 unit #2 both legs have cs3 cracks in side of stem full length. Span #1 unit #3 both legs have cs3 cracks in side of stem first half of span. Span #1 unit #4 right leg has cs3 cracks in side of stem full length, and a 1' spall exposed rebar just ahead of center span in side/bottom moderate section loss. Span #1 unit #4 left leg has cs3 cracks first half of span on side of steam. Span #1 unit #6 left leg has cs2,cs3 cracks in side of stem in center for fifteen feet and several pieces of exposed rebar due to poor coverage with moderate section loss. Span #1 unit #6 right leg has cs2 cracks for 6' on side of stem first part of span. Span #1 unit #7 left leg has cs2,cs3 cracks in side of stem first half of span. Span #1 unit #7 right leg has cs2 cracks for 8' on side of stem near center.</p> <p>Span #2 unit #1 right leg has cs3 cracks for 8' on bottom chord starting at bent #2.</p> <p>Span #3 unit #1 left leg has cs3 cracks for 2' on bottom chord 1/4 span. Span #3 unit #2 left leg has cs3 cracks for 3' on bottom chord 1/4 span. Span #3 unit #2 right leg has cs3 cracks for 2' on bottom chord center span. Span #3 unit #4 left leg has cs2 cracks on side and bottom at 1/4 span for 4'. Span #3 unit #5 right leg has cs2 cracks for 12' on side of stem starting at 1/4 span. Span #3 unit #6 left leg has cs2 cracks on bottom for 15' starting at 1/4 span.</p> <p>Span #4 unit #2 left leg has cs2, cs3 cracks in side and bottom for 18' starting at 1/4 span. Span #4 unit #5 right leg has cs2 cracks in side of steam for 3' at 1/4 span. Span #4 unit #7 right leg has cs2, cs3 cracks in side of stem for 15' center span.</p>							

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

Comment: 08/06/2018 lowered superstructure from 7 to 5 due to structural cracks and exposed rebar with section loss.



Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
216	Timber Abutment	LF	66	58	0	8	0
1140	Decay/Section Loss	LF	8	0	0	8	0
(216) Abutment #1 back wall is decayed on both ends allowing erosion. Bags have been placed.							
228	Timber Pile	EA	25	0	12	13	0
1140	Decay/Section Loss	EA	13	0	0	13	0
1160	Crack (Timber)	EA	12	0	12	0	0
(228) Pile length and depth is unknown Piles have minor cracks. Bent #1 pile #3 is split 2" wide and core decayed with moderate section loss. Bent #1 pile #5 has been spliced and encased in concrete. Encasement has unknown structural makeup. Bent #2 pile #1 is spliced and encased in concrete. Encasement has unknown structural makeup. Bent #2 pile #2 is spliced and encased in concrete. Encasement has unknown structural makeup. Bent #3 pile #2 has a split and outer shell decay with moderate section loss. Bent #3 pile #3 has outer shell decay with moderate section loss. Bent #3 pile #5 each has outer shell decay with moderate section loss. Bent #4 pile #1 is spliced and encased in concrete. Encasement has unknown structural makeup. Bent #4 pile #2 is spliced and encased in concrete. Encasement has unknown structural makeup. Bent #4 pile #3 has outer shell decay with moderate section loss and is split. Bent #4 pile #4 is spliced and encased in concrete encasement is undermined 6". Encasement has unknown structural makeup. Bent #4 pile #5 has minor outer shell decay. Bent #5 pile #3 is spliced and encased in concrete. Encasement has unknown structural makeup.							
234	Reinforced Concrete Pier Cap	LF	143	123	3	17	0
1080	Delamination/Spall/Patched Area	LF	13	0	3	10	0
1090	Exposed Rebar	LF	7	0	0	7	0
(234) Bent #2 cap back face has three one foot spalls at top and left end is spalled no rebar exposed. Bent #2 cap ahead face has four one foot spalls at top no exposed rebar. Bent #2 cap bottom face has 7 three inch pieces of exposed rebar due to poor concrete coverage. Bent #3 cap back face has three one foot and one two foot spalls at top with no exposed rebar and two 1' delaminations. Bent #3 cap ahead face has four one foot spalls at top with no rebar exposed. Bent #4 cap ahead face has six feet of spalls between piles #3,#4 with exposed rebar with minor section loss. Bent #4 cap back face has five one foot spalls at top with no rebar exposed. Bent #4 cap bottom has a one foot spall with exposed rebar with moderate section loss near pile #1 and a few random pieces of rebar exposed due to poor coverage.							

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

Comment: 08/06/2018 lowered substructure from 7 to 5 due to decay in piles and spalls on caps.

61 - Channel/Channel Protection (5 - Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and brush restrict the channel.)

Comment: 08/06/2018 lowered channel from 7 to 5 due to drift and erosion of slopes.



Side view-elevation

Maintenance Needs

Date Reported: 08/06/2018

Priority: B - Pressing

Type of Work: Replace (General)

Status: Monitor

Component: Element

Deficiency Description

Bent #1 pile #3 is split 2" wide and core decayed with moderate section loss.

Bent #3 pile #2 has a split and outer shell decay with moderate section loss.

Bent #3 pile #3 has outer shell decay with moderate section loss.

Bent #3 pile #5 each has outer shell decay with moderate section loss.

Bent #4 pile #3 has outer shell decay with moderate section loss and is split.

Remarks



Bent #1 pile #3 is split 2" wide and core decayed with moderate section loss.



Bent #3 pile #2 has a split and outer shell decay with moderate section loss.



Bent #3 pile #3 has outer shell decay with moderate section loss.



Bent #3 pile #5 each has outer shell decay with moderate section loss.



Bent #4 pile #3 has outer shell decay with moderate section loss and is split.

Maintenance Needs

Date Reported: 08/04/2020

Priority: B - Pressing

Type of Work: Repair (General)

Status: Repair Documented

Component: Approach

Deficiency Description

Abutment #1 right approach roadway has 2' tall x 3' wide x 2' long void behind cap at bridge end.

Remarks

Hole at bridge end has been repaired at time of inspection



Hole in abutment #1 approach roadway, right side.



Abutment #1 hole in approach roadway repaired.

Maintenance Needs

Date Reported: 08/07/2012

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Span #1 center span between units #1,2 has a connection bolt loose.

Span #1 between units #7,8 first connection bolt missing.

Span #1 between units #4,5 center span bolt is loose.

Span #4 between units #3,4 four connection bolts are loose.

Remarks



Loose bolt between units #4&5 span #1 typical other locations.

Maintenance Needs

Date Reported: 08/06/2018

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Span #1 joint between units #1,2 and 2,3 is spalled two inches deep.

Span #1 between units #4,5 is spalled three to four inches deep and also spalling unit #4.

Span #3 deck joint between units #2,3 has repaired spalled area with asphalt.

Remarks



Span #1 deck.



Span #3 deck joint between units #2,3 spalled three inches deep.



Span #3 joint between units 2&3

Maintenance Needs

Date Reported: 08/06/2018

Priority: C - Important

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

Status: Monitor

Component: Miscellaneous

Deficiency Description

Trees and vegetation are growing beside and under bridge and onto roadway.

Remarks



Trees and vegetation are growing beside and under bridge and onto roadway.



Vegetation growing beside, under and onto bridge.

Maintenance Needs

Date Reported: 08/06/2018

Priority: C - Important

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

Status: Monitor

Component: Channel

Deficiency Description

Bent #3 right side has a moderate drift

Remarks



Drift in channel right side at bent #3



Asset #M4049(Routine, Underwater type 2)

Sh-242/Sec-1/L8.71 over Cura Creek

Location: 1.3 Mi East Jct 1 & 242

Team Lead: Drew Melton, Inspection Date: 08/09/2022

Maintenance Needs

Date Reported: 08/04/2020

Priority: C - Important

Status: Monitor

Type of Work: Repair (General)

Component: Element

Deficiency Description

Span #1 at bent #2 and span #4 at bent #5 curb unit left and right sides have areas of spalling with no rebar exposed.
Span #1 unit #1 right leg has cs3 cracks for 3' on side of girder just ahead on center span, has a 1' delamination on side of leg at 1/4 span, and a 1' spall with no exposed rebar on bottom just ahead on center span.
Span #1 unit #2 both legs have cs3 cracks in side of stem full length.
Span #1 unit #3 both legs have cs3 cracks in side of stem first half of span.
Span #1 unit #4 right leg has cs3 cracks in side of stem full length, and a 1' spall exposed rebar just ahead of center span in side/bottom moderate section loss.
Span #1 unit #4 left leg has cs3 cracks first half of span on side of steam.
Span #1 unit #6 left leg has cs2,cs3 cracks in side of stem in center for fifteen feet and several pieces of exposed rebar due to poor coverage with moderate section loss.
Span #1 unit #6 right leg has cs2 cracks for 6' on side of stem first part of span.
Span #1 unit #7 left leg has cs2,cs3 cracks in side of stem first half of span.
Span #1 unit #7 right leg has cs2 cracks for 8' on side of stem near center.

Span #2 unit #1 right leg has cs3 cracks for 8' on bottom chord starting at bent #2.

Span #3 unit #1 left leg has cs3 cracks for 2' on bottom chord 1/4 span.
Span #3 unit #2 left leg has cs3 cracks for 3' on bottom chord 1/4 span.
Span #3 unit #2 right leg has cs3 cracks for 2' on bottom chord center span.
Span #3 unit #4 left leg has cs2 cracks on side and bottom at 1/4 span for 4'.
Span #3 unit #5 right leg has cs2 cracks for 12' on side of stem starting at 1/4 span.
Span #3 unit #6 left leg has cs2 cracks on bottom for 15' starting at 1/4 span.

Span #4 unit #2 left leg has cs2, cs3 cracks in side and bottom for 18' starting at 1/4 span.
Span #4 unit #5 right leg has cs2 cracks in side of steam for 3' at 1/4 span.
Span #4 unit #7 right leg has cs2, cs3 cracks in side of stem for 15' center span.

Remarks



Span #4 soffit / underside of deck.



Span #3 soffit/ underside of deck.



Span #2 soffit / underside of deck.



Span #1 soffit / underside of deck.

Maintenance Needs

Date Reported: 08/04/2020

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Approach

Deficiency Description

Abutment #1 approach roadway has settled up to 1 1/4".
Abutment #2 approach roadway has settled up to 1 1/4".

Remarks



Abutment #1 approach roadway settlement.



Abutment #2 approach roadway settlement.

Maintenance Needs

Date Reported: 08/04/2020

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Abutment #1 timber back wall decayed between piles #4 and 5 allowing erosion behind cap.

Remarks



Abutment #1 timber back wall between piles #4 and 5.

Maintenance Needs

Date Reported: 08/10/2022

Priority: C - Important

Type of Work: Replace (General)

Status: Open

Component: Element

Deficiency Description

Bent #4 pile #5 has minor outer shell decay.

Remarks



Bent #4 pile #5 has minor outer shell decay.

Maintenance Needs

Date Reported: 08/06/2018

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Bent #2 cap back face has three one foot spalls at top and left end is spalled no rebar exposed.

Bent #2 cap ahead face has four one foot spalls at top no exposed rebar.

Bent #2 cap bottom face has 7 three inch pieces of exposed rebar due to poor concrete coverage.

Bent #3 cap back face has three one foot and one two foot spalls at top with no exposed rebar and two 1' delaminations.

Bent #3 cap ahead face has four one foot spalls at top with no rebar exposed.

Bent #4 cap ahead face has six feet of spalls between piles #3,#4 with exposed rebar with minor section loss.

Bent #4 cap back face has five one foot spalls at top with no rebar exposed.

Bent #4 cap bottom has a one foot spall with exposed rebar with moderate section loss near pile #1 and a few random pieces of rebar exposed due to poor coverage.

Remarks



Bent #4 cap back face 6 sq ft spalls no rebar.



Bent #4 cap bottom at pile #1



Bent #3 cap back face



Bent #4 cap ahead face



Bent #3 cap bottom face has 1' spall with exposed rebar with 5% section loss above pile #1.

Maintenance Needs

Date Reported: 08/07/2014

Priority: D- Routine

Type of Work: Repair (General)

Status: Monitor

Component: Element

Deficiency Description

Abutment #1 right headwall is spalled with exposed rebar with no section loss.

Span #4 right bridge rail span #4 post #2 is spalled with exposed rebar minor section loss.

Span #4 right bridge rail span #4 post #4 has cs3 cracks and delaminated areas.

Span #4 left bridge rail last post is spalled at bottom with exposed rebar no section loss.

Remarks



Abutment #1 right monument post spalled with exposed rebar.



Span #4 right bridge rail span #4 post #2 is spalled with exposed rebar minor section loss.



Span #4 right bridge rail span #4 post #4 has cs3 cracks and delaminated areas.



Span #4 left bridge rail last post is spalled at bottom with exposed rebar no section loss.

Maintenance Needs

Date Reported: 08/04/2020

Priority: D- Routine

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

Status: Monitor

Component: Deck

Deficiency Description

Gutters have dirt and debris in them.

Remarks



Dirt and debris in gutters.



Asset #M4049(Routine, Underwater type 2)

Sh-242/Sec-1/L8.71 over Cura Creek

Location: 1.3 Mi East Jct 1 & 242

Team Lead: Drew Melton, **Inspection Date:** 08/09/2022

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 #M4049(Routine, Underwater type 2)

Sh-242/Sec-1/L8.71 over Cura Creek

Location: 1.3 Mi East Jct 1 & 242

Team Lead: Drew Melton, **Inspection Date:** 08/09/2022

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



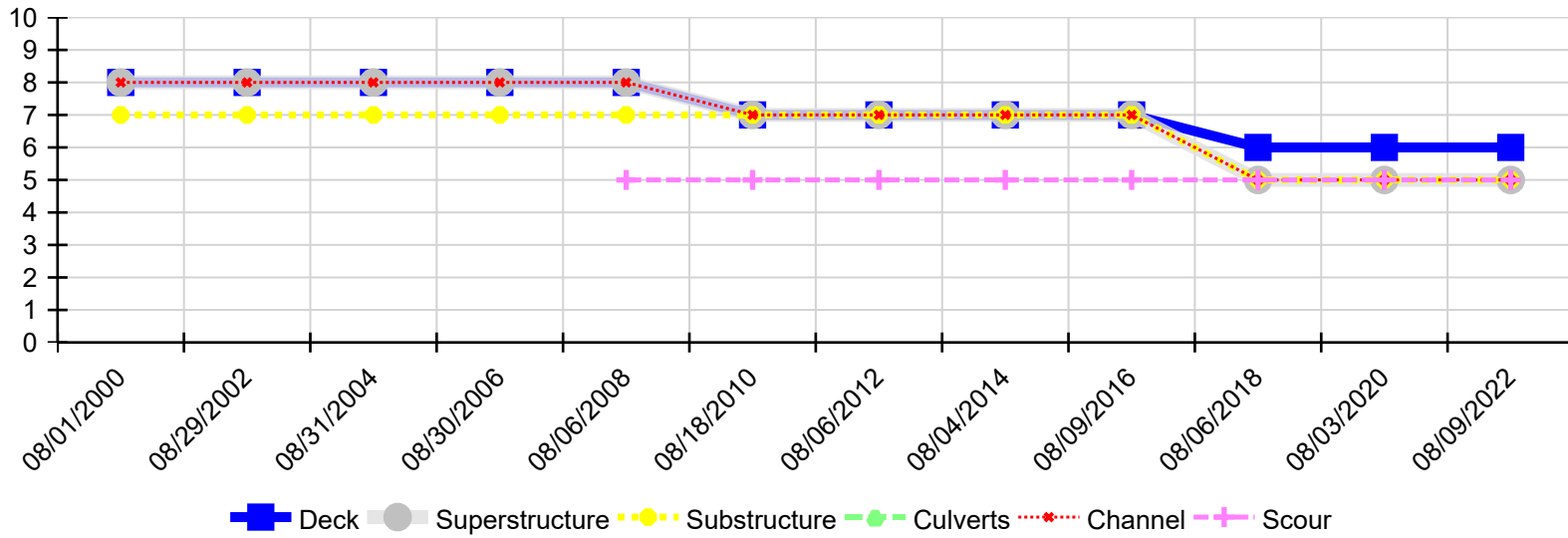
Asset #M4049(Routine, Underwater type 2)

Sh-242/Sec-1/L8.71 over Cura Creek

Location: 1.3 Mi East Jct 1 & 242

Team Lead: Drew Melton, Inspection Date: 08/09/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/09/2022	6	5	5	N	5	5
08/03/2020	6	5	5	N	5	5
08/06/2018	6	5	5	N	5	5
08/09/2016	7	7	7	N	7	5
08/04/2014	7	7	7	N	7	5
08/06/2012	7	7	7	N	7	5
08/18/2010	7	7	7	N	7	5
08/06/2008	8	8	7	N	8	5
08/30/2006	8	8	7	N	8	N
08/31/2004	8	8	7	N	8	N
08/29/2002	8	8	7	N	8	N
08/01/2000	8	8	7	N	8	N

BRIDGE #M4049

MEASUREMENTS TAKEN FROM TOP OF BRIDGE RAIL

