



Latitude:36.37352, Longitude:-90.78256

Route:328 Section:01 Log:8.83

Arnold Road ID:61x328x1xA, Arnold Log mile:8.808

District 10, 121 - Randolph County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

Bridge Posting Information

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

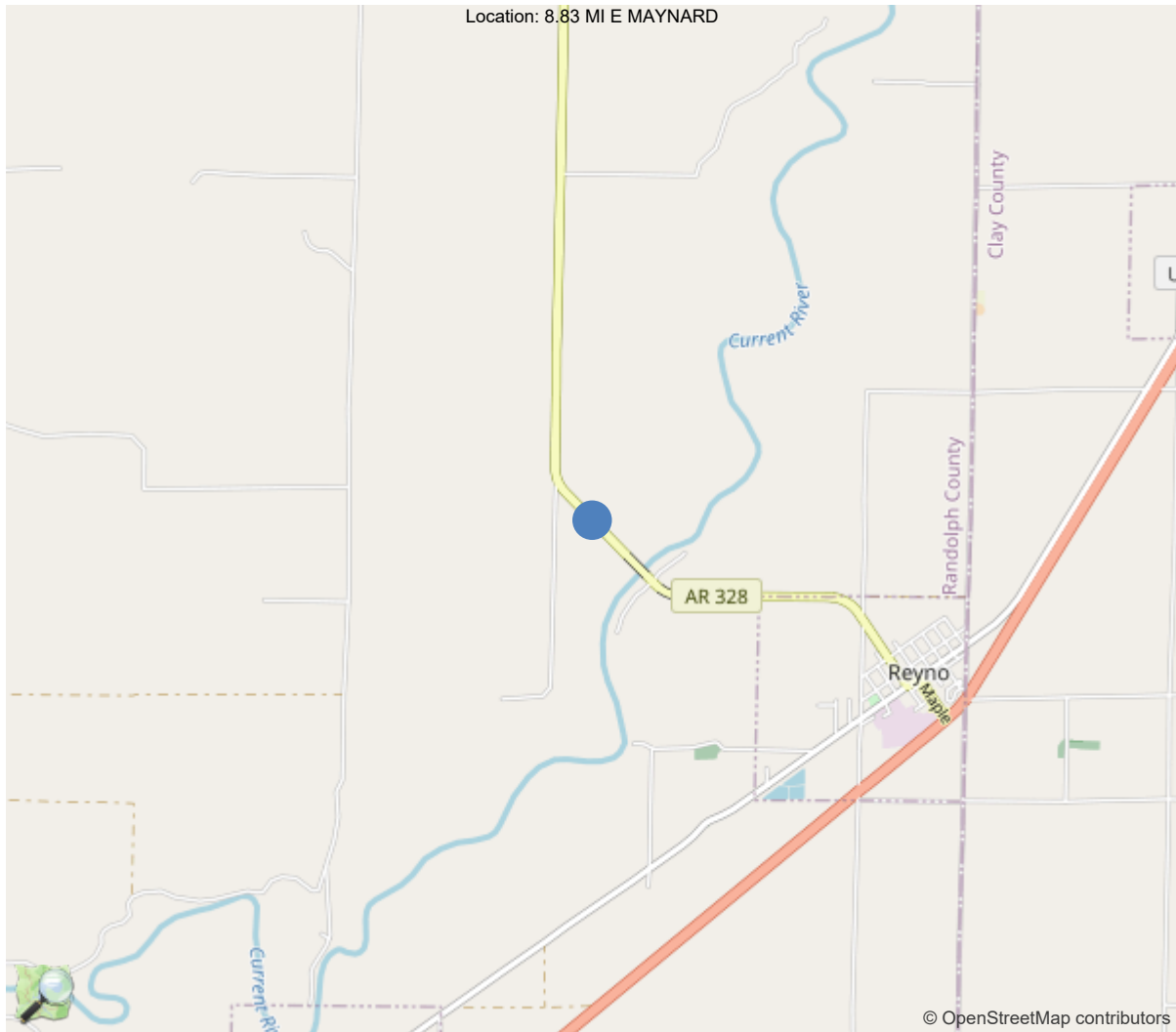
70 - Bridge Posting: 5 - Equal to or above legal loads

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



36.37352, -90.78256



Asset #05734(Routine, Underwater type 2)
SH 328-01-LM 8.83 over CURRENT RIVER RELIEF
Location: 8.83 MI E MAYNARD
Team Lead: James Adams Inspection Date: 02/15/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05734
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	121 - Randolph County
(4) Place Code	0
(6) Features Intersected	CURRENT RIVER RELIEF
(7) Facility Carried	SH 328-01-LM 8.83
(9) Location	8.83 MI E MAYNARD
(11) Mile Point	8.83 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	36.37352
(17) Longitude	-90.78256
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	11
Material	1 - Concrete
Type	1 - Slab
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	12
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	5 - Epoxy Overlay
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1978
(106) Year Reconstructed	0
(42) Type of Service	19
On	1 - Highway
Under	9 - Relief for waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	630
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	10 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	360 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	26 ft
(52) Deck Width Out to Out	28.7 ft
(32) Approach Roadway Width (W/Shoulders)	27.9 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 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	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	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	7
(59) Superstructure	6
(60) Substructure	6
(61) Channel & Channel Protection	8
(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	59
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	36
(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	5
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(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	746
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	02/15/2023		
(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.			

General Observation

-

58 - Deck (7 - GOOD CONDITION - some minor problems.)

Underwater type 2 inspection performed this report.

Approach slabs have settled and pulled away from bridge at each approach. Bent 1 approach slab has been shimmed with asphalt sometime in the past.

Bridge rails have several minor cracks with some efflorescence, areas of abrasion, and spalls with rebar exposed, mostly from lack of coverage. Some areas have been grouted.

Poured joint material has been replaced by HBM.

Deck has recieved a epoxy overlay by HBM.

Top of slabs have several areas of abrasion and a few small pop outs. Slabs have areas of map cracking, especially in wheel paths. Slabs have a few unsealed moderate width cracks.

Soffit portion of slabs have a few hairline cracks and small delaminated areas.

Edges of slabs have a few cracks with efflorescence over bents.

Left and right edges of slabs are cracked, delaminated, and have spalls with exposed rebar.

Span 5 right has approximately 15ft. where concrete has completely spalled away from 1 exterior longitudinal rebar. Rebar is sagging down away from slab.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Left & right edges of concrete soffit has several areas of exposed rebar, delamination's & moderate width cracks:

Span 1 Left side = 9ft. x2.0 ft. cracking, Right side = 8.0 ft. of exposed rebar.

Span 2 Left side = 6 ft. of cracking with rust staining, 1ft. of exposed rebar, Right side = 12.0 ft. x 1.0 ft. wide exposed rebar & 4.0 ft. of cracking with efflorescence & 9ft. of delamination.

Span 3 Left side = 30.0 ft. x 2.0 ft. wide exposed rebar, Right side = 1.0 ft. exposed rebar, 30 ft. delamination with some efflorescence.

Span 4 Left side = 20.0 ft. x 2.5 ft. wide exposed rebar & 8.0 ft. x 1.0 ft. wide delaminated, Right side = 20.0 ft. x 1.0 ft. wide exposed rebar and 6.0ft. X 1.0ft. of delamination.

Span 5 Left side = 20.0 ft. x 1.0 ft. wide exposed rebar & 10.0 ft. delaminated Right side = 30.0 ft. x 1.0 ft. exposed rebar with 1.0 ft. additional exposed rebar. Rebar is detached from slab (see photo).

Span 6 Left side = 20.0 ft. x 2.0 ft. wide exposed rebar, Right side = 14.0 ft. x 2.0 ft. wide exposed rebar with 8.0 ft. of cracking with rust staining.

Span 7 Left side = 30.0 ft. x 2.0 ft. wide exposed rebar & delamination, Right side = 14.0 ft. x 2.0 ft. wide exposed rebar with 18.0 ft. of delamination with efflorescence.

Span 8 Left side = 20.0 ft. x 2.0 ft. wide exposed rebar, Right side 3.0 ft. x 1.0 ft. wide exposed rebar with 27.0 ft. of cracking with efflorescence.

Span 9 Left & Right side = 30.0 ft. x 1.0 ft. exposed rebar each side.

Span 10 Left side = 3.0 ft. x 12.0 ft. wide exposed rebar, 8.0 ft. x 1.0 ft. wide spalling. Right side = 20.0 ft. x 1.0 ft. wide exposed rebar and 10.0' delamination.

Span 11 Left side = 15 ft. x 1.0 ft. wide exposed rebar with 27.0 ft. of delamination, Right side= 15 ft. x 1.0 ft. wide exposed rebar and 20.0' delamination.

60 - Substructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Caps have several minor cracks, spalls, and delaminated areas. Some spalls have exposed rebar.

Bent 3 cap on span 3 side side has several large spalls.

A few piles have minor honeycombed areas or minor abrasion.

61 - Channel/Channel Protection (8 - Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition.)

Relief bridge

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	10320	3665	5398	1227	30
1080	Delamination/Spall/Patched Area	SF	285	0	270	15	0
1090	Exposed Rebar	SF	572	0	0	542	30
1120	Efflorescence/Rust Staining	SF	85	0	10	75	0
1130	Cracking (RC and Other)	SF	1275	0	990	285	0
1190	Abrasion/Wear (PSC/RC)	SF	4438	0	4128	310	0
521	Concrete Protective Coating	SF	9360	9360	0	0	0
<p>(38) Poured joint material has been replaced by HBM. Deck has received a epoxy overlay by HBM. Top of slabs have several areas of abrasion and a few small pop outs. Slabs have areas of map cracking, especially in wheel paths. Slabs have a few unsealed moderate width cracks. Soffit portion of slabs have a few hairline cracks and small delaminated areas. Edges of slabs have a few cracks with efflorescence over bents. Left and right edges of slabs are cracked, delaminated, and have spalls with exposed rebar.</p> <p>Left & right edges of concrete soffit has several areas of exposed rebar, delamination's & moderate width cracks: Span 1 Left side = 9ft. x2.0 ft. cracking, Right side = 8.0 ft. of exposed rebar. Span 2 Left side = 6 ft. of cracking with rust staining, 1ft. of exposed rebar, Right side = 12.0 ft. x 1.0 ft. wide exposed rebar & 4.0 ft. of cracking with efflorescence & 9ft. of delamination. Span 3 Left side = 30.0 ft. x 2.0 ft. wide exposed rebar, Right side = 1.0 ft. exposed rebar, 30 ft. delamination with some efflorescence. Span 4 Left side = 20.0 ft. x 2.5 ft. wide exposed rebar & 8.0 ft. x 1.0 ft. wide delaminated, Right side = 20.0 ft. x 1.0 ft. wide exposed rebar and 6.0ft. X 1.0ft. of delamination. Span 5 Left side = 20.0 ft. x 1.0 ft. wide exposed rebar & 10.0 ft. delaminated Right side = 30.0 ft. x 1.0 ft. exposed rebar with 1.0 ft. additional exposed rebar. Rebar is detached from slab (see photo). Span 6 Left side = 20.0 ft. x 2.0 ft. wide exposed rebar, Right side = 14.0 ft. x 2.0 ft. wide exposed rebar with 8.0 ft. of cracking with rust staining. Span 7 Left side = 30.0 ft. x 2.0 ft. wide exposed rebar & delamination, Right side = 14.0 ft. x 2.0 ft. wide exposed rebar with 18.0 ft. of delamination with efflorescence. Span 8 Left side = 20.0 ft. x 2.0 ft. wide exposed rebar, Right side 3.0 ft. x 1.0 ft. wide exposed rebar with 27.0 ft. of cracking with efflorescence. Span 9 Left & Right side = 30.0 ft. x 1.0 ft. exposed rebar each side. Span 10 Left side = 3.0 ft. x 12.0 ft. wide exposed rebar, 8.0 ft. x 1.0 ft. wide spalling. Right side = 20.0 ft. x 1.0 ft. wide exposed rebar and 10.0' delamination. Span 11 Left side = 15 ft. x 1.0 ft. wide exposed rebar with 27.0 ft. of delamination, Right side= 15 ft. x 1.0 ft. wide exposed rebar and 20.0' delamination.</p>							
215	Reinforced Concrete Abutment	LF	72	62	10	0	0
1080	Delamination/Spall/Patched Area	LF	10	0	10	0	0
(215) Abutments are in good condition.							
227	Reinforced Concrete Pile	EA	66	0	66	0	0
1190	Abrasion/Wear (PSC/RC)	EA	66	0	66	0	0
(227) A few piles have minor honeycombed areas or minor abrasion.							
234	Reinforced Concrete Pier Cap	LF	317	239	30	48	0
1080	Delamination/Spall/Patched Area	LF	55	0	26	29	0



Asset #05734(Routine, Underwater type 2)

SH 328-01-LM 8.83 over CURRENT RIVER RELIEF

Location: 8.83 MI E MAYNARD

Team Lead: James Adams Inspection Date: 02/15/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1090	Exposed Rebar	LF	16	0	0	16	0
1120	Efflorescence/Rust Staining	LF	3	0	0	3	0
1130	Cracking (RC and Other)	LF	4	0	4	0	0
(234) Caps have several minor cracks, spalls, and delaminated areas. Some spalls have exposed rebar. Bent 3 cap on span 3 side side has several large spalls.							
301	Pourable Joint Seal	LF	430	430	0	0	0
2320	Seal Adhesion	LF	430	430	0	0	0
(301) Poured joint material has been replaced by HBM.							
321	Reinforced Concrete Approach Slab	SF	660	413	177	70	0
1130	Cracking (RC and Other)	SF	105	0	45	60	0
1190	Abrasion/Wear (PSC/RC)	SF	142	0	132	10	0
(321) Approach slabs have settled and pulled away from bridge at each approach. Bent 1 approach slab has been shimmed with asphalt sometime in the past.							
331	Reinforced Concrete Bridge Railing	LF	720	659	58	3	0
1080	Delamination/Spall/Patched Area	LF	3	0	0	3	0
1090	Exposed Rebar	LF	9	0	9	0	0
1130	Cracking (RC and Other)	LF	49	0	49	0	0



Parapet example



Span 11 right



Span 11 left



Span 10 right



Span 9 near bent 10 2-28-2023



Span 9 right



Span 9 left



Span 8 left



Span 7 right



Span 7 left



Span 6 left



Span 5 left



Span 6 right



Span 4 right



Span 4 left



Span 3 left



Span 3 right



Span 2 right



Span 1 right



Span 1



Elevation 2-28-2023



Polymer deck observed repair by statewide crews 2-28-2023



East 2-28-2023

Maintenance Needs

Date Reported: 02/20/2013

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Deck

Deficiency Description

Lt and Rt edges of slabs are cracked, delaminated, and have spalls with exposed rebar. Span 5 Rt has approximately 15' where concrete has completely spalled away from 1 exterior longitudinal rebar. Rebar is sagging down away from slab.

Remarks



Span 5 right 2-28-2023



Span 5 Rt



Span 5 Rt

Maintenance Needs

Date Reported: 02/22/2011

Priority: D- Routine

Type of Work: Repair (General)

Status: Repair Documented

Component: Deck

Deficiency Description

***Top of slabs have several areas of abrasion and a few small pop outs. Slabs have areas of map cracking, especially in wheel paths. Slabs have a few unsealed moderate width cracks.

Remarks

***Top of slabs have several areas of abrasion and a few small pop outs. Slabs have areas of map cracking, especially in wheel paths. Slabs have a few unsealed moderate width cracks. Observed polymer deck repair by statewide crews 2-28-2023.



Polymer deck observed repair by statewide crews 2-28-2023



Map cracks in wheel path

Maintenance Needs

Date Reported: 02/22/2011

Priority: D- Routine

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

Status: Repair Documented

Component: Element

Deficiency Description

**Poured joint material has lost adhesion and has some sections missing.

Remarks

**Poured joint material has lost adhesion and has some sections missing. Observed polymer deck repair by statewide crews 2-28-2023.



Polymer deck observed repair by statewide crews 2-28-2023



typical joint



Asset #05734(Routine, Underwater type 2)
SH 328-01-LM 8.83 over CURRENT RIVER RELIEF
Location: 8.83 MI E MAYNARD
Team Lead: James Adams Inspection Date: 02/15/2023

Maintenance Needs

Date Reported: 02/21/2017

Priority: D- Routine

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

Status: Monitor

Component: Element

Deficiency Description

Bridge rails have several minor cracks with some efflorescence, areas of abrasion, and spalls with rebar exposed, mostly from lack of coverage.

Remarks

Maintenance Needs

Date Reported: 02/21/2017

Priority: D- Routine

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

Status: Monitor

Component: Substructure

Deficiency Description

Caps have several minor cracks, spalls, and delaminated areas. Some spalls have exposed rebar.

Remarks



Bent 12 left



Bent 3



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 #05734(Routine, Underwater type 2)
SH 328-01-LM 8.83 over CURRENT RIVER RELIEF
Location: 8.83 MI E MAYNARD
Team Lead: James Adams Inspection Date: 02/15/2023

A-57 - Girder End and Bearing Painting Needed

A-58 - Cap Cleaning/Flushing Needed

A-59 - Joint Repair Needed

A-60 - Full Girder 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

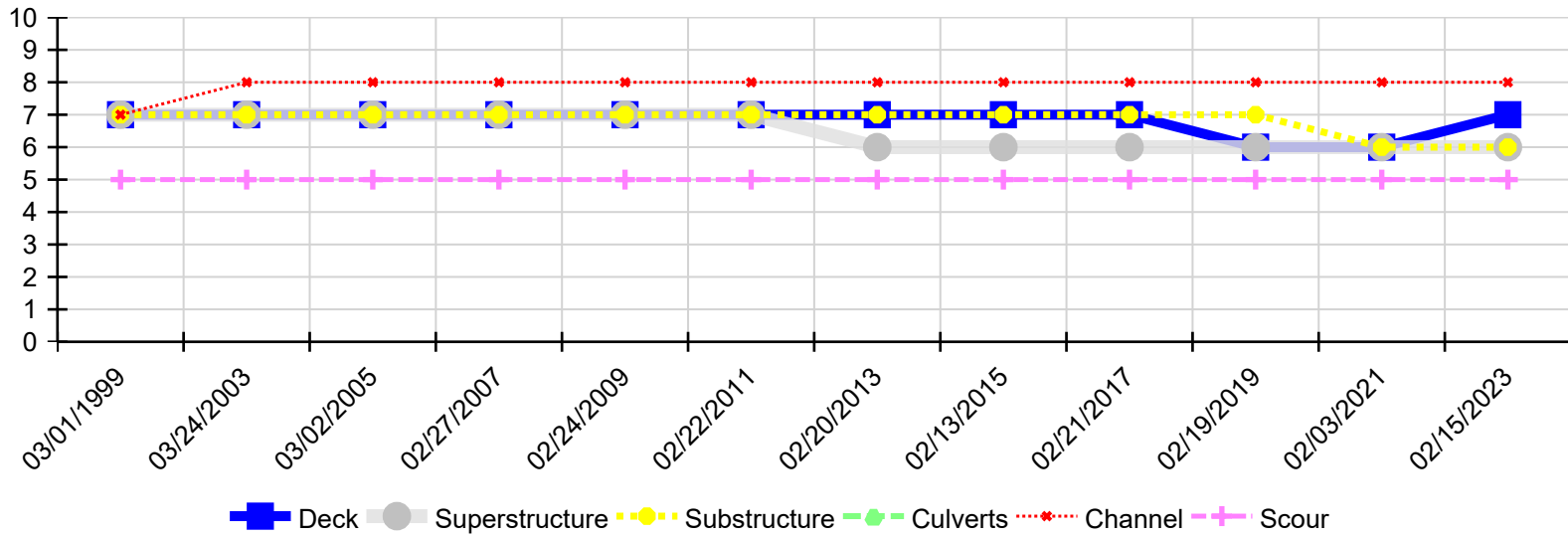


Asset #05734(Routine, Underwater type 2)
SH 328-01-LM 8.83 over CURRENT RIVER RELIEF

Location: 8.83 MI E MAYNARD

Team Lead: James Adams Inspection Date: 02/15/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
02/15/2023	7	6	6	N	8	5
02/03/2021	6	6	6	N	8	5
02/19/2019	6	6	7	N	8	5
02/21/2017	7	6	7	N	8	5
02/13/2015	7	6	7	N	8	5
02/20/2013	7	6	7	N	8	5
02/22/2011	7	7	7	N	8	5
02/24/2009	7	7	7	N	8	5
02/27/2007	7	7	7	N	8	5
03/02/2005	7	7	7	N	8	5
03/24/2003	7	7	7	N	8	5
03/01/1999	7	7	7	N	7	5