



Latitude:36.04202, Longitude:-91.21352

Route:25 Section:06 Log:14.3

Arnold Road ID:38x25x6xA, Arnold Log mile:14.293

District 10, 75 - Lawrence County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

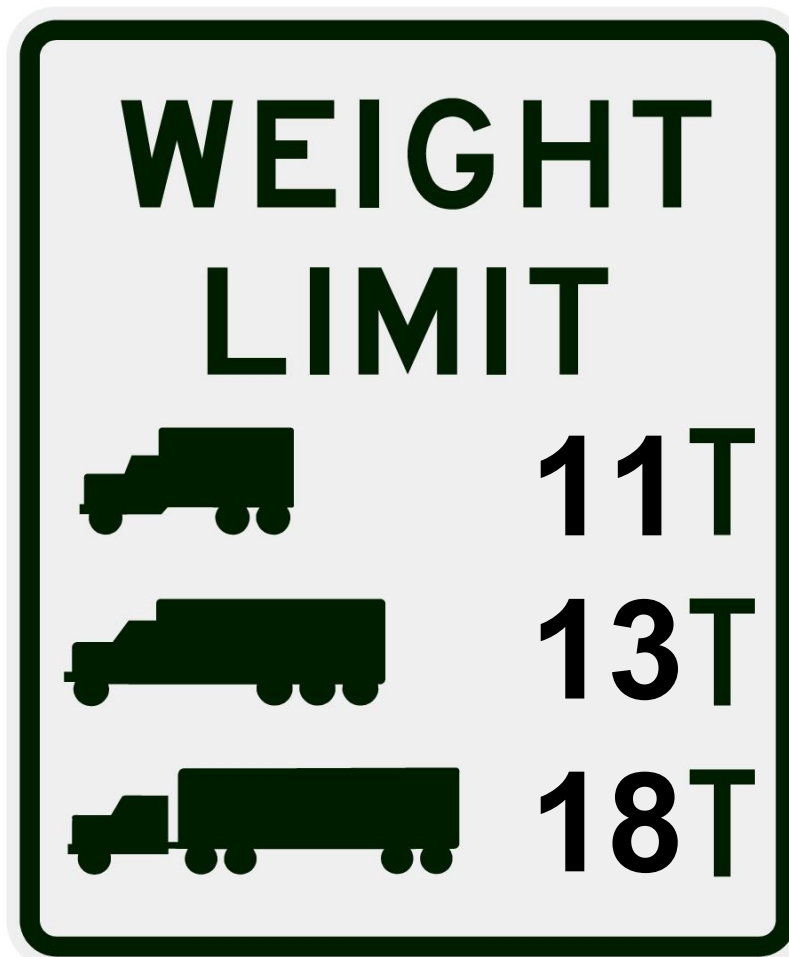
Bridge Posting Information

41 - Structure Open/Posted/Closed: P - Posted for load (may include other restrictions such a temporary bridges which are load posted)

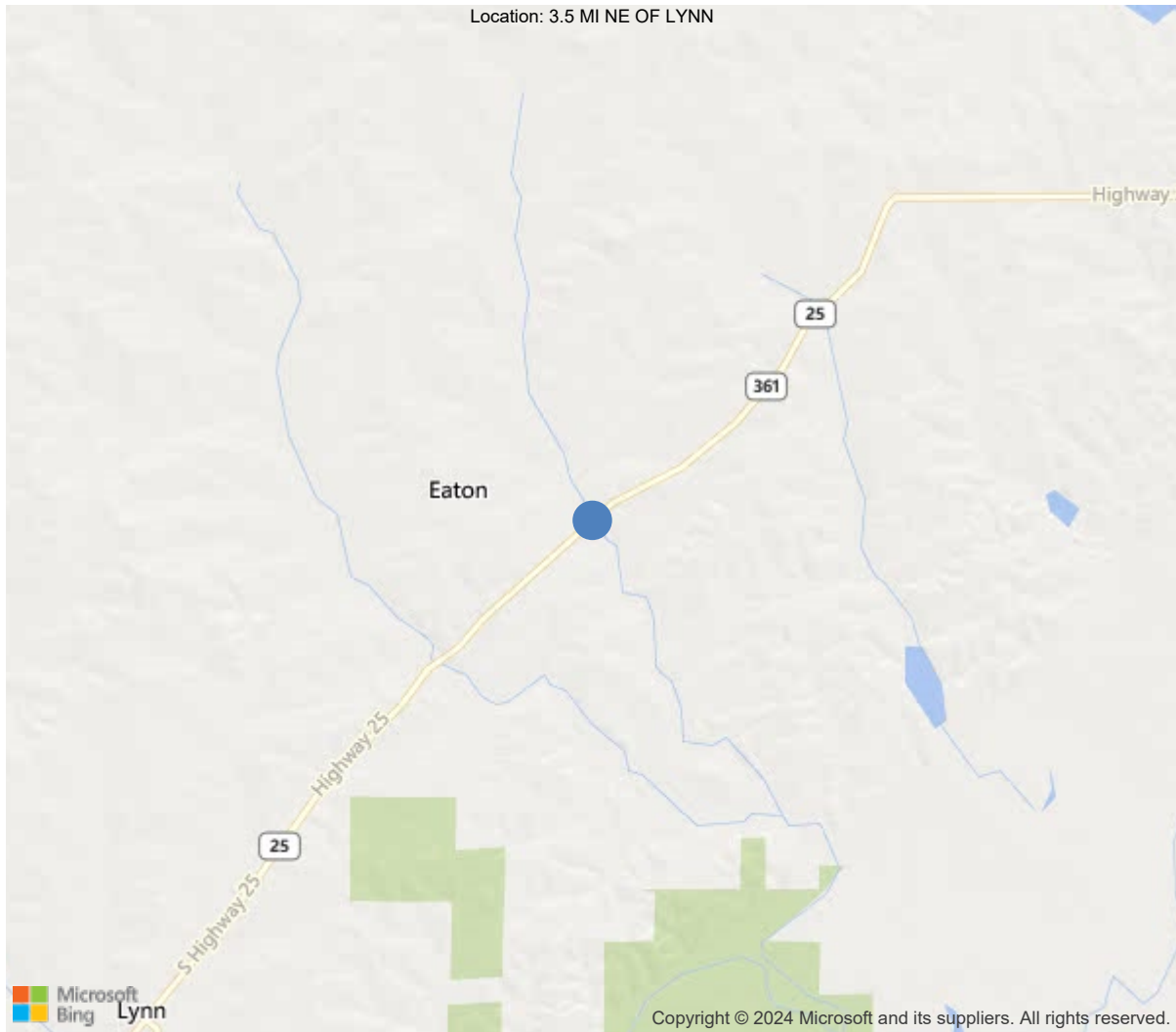
70 - Bridge Posting: 0 - > 39.9% below

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	11	11	11
Code 9 (31 Tons)	13	13	13
Code 5 (40 Tons)	18	18	18

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



36.04202, -91.21352



Asset #M3317(Routine, Underwater type 2)
SH 25-06- LM 14.30 over LITTLE CYPRESS CREEK
Location: 3.5 MI NE OF LYNN
Team Lead: Richard Jones Inspection Date: 10/03/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	M3317
(5) Inventory Route	1
(2) Highway Agency District	10 - District 10
(3) County Code	75 - Lawrence County
(4) Place Code	0
(6) Features Intersected	LITTLE CYPRESS CREEK
(7) Facility Carried	SH 25-06- LM 14.30
(9) Location	3.5 MI NE OF LYNN
(11) Mile Point	14.3 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000025060
(16) Latitude	36.042019
(17) Longitude	-91.213516
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	72
Material	7 - Wood or timber
Type	2 - Stringer/Multi-beam or girder
(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	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	1971
(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	1800
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	19 ft
(49) Structure Length	107 ft
(50) Curb or Sidewalk Width	
Left	0.3 ft
Right	0.3 ft
(51) Bridge Roadway Width Curb to Curb	26.6 ft
(52) Deck Width Out to Out	28.2 ft
(32) Approach Roadway Width (W/Shoulders)	28.9 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	26.6 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	6 - Rural Minor Arterial
(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	4
(59) Superstructure	4
(60) Substructure	5
(61) Channel & Channel Protection	6
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	0 - Other or Unknown
(63) Operating Rating Method	2
(64) Operating Rating	
Type	2 - Allowable Stress(AS)
Rating	14
(65) Inventory Rating Method	2 - Allowable Stress(AS)
(66) Inventory Rating	
Type	
Rating	7
(70) Bridge Posting	0 - > 39.9% below
(41) Structure Open/Posted/Closed	P - Posted for load (may include
APPRAISAL	
(67) Structural Evaluation	
(68) Deck Geometry	4
(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	134 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 156
(96) Total Project Cost	\$ 467
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	1499
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	10/03/2023		
(91) Frequency	12		
(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 #M3317(Routine, Underwater type 2)

SH 25-06- LM 14.30 over LITTLE CYPRESS CREEK

Location: 3.5 MI NE OF LYNN

Team Lead: Richard Jones Inspection Date: 10/03/2023

58 - Deck (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour)

Lt and Rt edges of deck have concrete disintegration over exterior girders. See elements

59 - Superstructure (4 - POOR CONDITION - advanced section loss, deterioration, spalling or scour.)

Timber girders have several minor checks. Ends of girders over bents 1 and 7 have some decay on bottom.

Several girders have corner splits on bottom of girder.

Exterior girders (1 and 15) at all spans are decayed and hollow. Vegetation is growing out of tops of girders. See elements

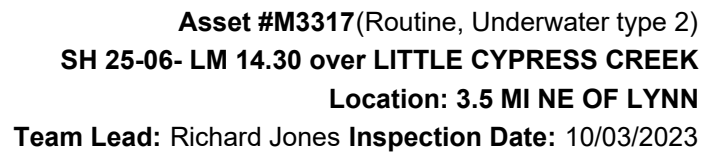
60 - Substructure (5 - FAIR CONDITION - all primary structural elements are sound but may have minor section loss, cracking, spalling or scour.)

Timber sub has moderate to advanced decay. See elements

61 - Channel/Channel Protection (6 - Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly.)

Channel has had some scour since 1972.

Erosion behind Bent 7 abutment on left end is beginning to undermine approach roadway.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	3017	1856	0	944	217
1080	Delamination/Spall/Patched Area	SF	217	0	0	0	217
1090	Exposed Rebar	SF	5	0	0	5	0
1120	Efflorescence/Rust Staining	SF	939	0	0	939	0
510	Wearing Surfaces	SF	2846	2846	0	0	0
(12) Soffit has numerous map cracks with efflorescence and some rust stains. Lt and Rt edges of deck have concrete disintegration over exterior girders. Deck has a 3' x 1' hole through deck over bent 5 between girders 1 and 2. (510-12) Asphalt wearing surface was milled and replaced under job 100974 in 2021.							
111	Timber Open Girder/Beam	LF	1605	1366	4	21	214
1140	Decay/Section Loss	LF	216	0	0	2	214
1150	Check/Shake	LF	19	0	0	19	0
1170	Split/Delamination (Timber)	LF	4	0	4	0	0
(111) Timber girders have several minor checks. Ends of girders over bents 1 and 7 have some decay on bottom. Several girders have corner splits on bottom of girder. Exterior girders (1 and 15) at all spans are decayed and hollow. Vegetation is growing out of tops of girders. Span 1 girder 1 has decay and areas that are hollow or split at rail connections. Span 1 bent 1 girder 2 has a 2' split end. Span 1 bent 1 girder 12 has a corner split. Span 1 bent 1 girder 15 over bent 1 is decayed and hollow at bolted connection to bridge rail post. Span 4 girder 9 has a moderate check full length of girder. Span 6 bent 7 girder 6 is decayed and hollow on bottom over cap.							
216	Timber Abutment	LF	76	0	51	25	0
1140	Decay/Section Loss	LF	25	0	0	25	0
1150	Check/Shake	LF	51	0	51	0	0
(216) Timber backwalls have areas of advanced decay, especially at wing portions.							
228	Timber Pile	EA	49	0	43	5	1
1140	Decay/Section Loss	EA	7	0	1	5	1
1150	Check/Shake	EA	42	0	42	0	0
(228) Bent 1 pile 1 is decayed and hollow. Bent 1 pile 7 is decayed, hollow, and has approximately 40% section loss. Bent 1 pile 2 has some core decay and up to 1" of outside decay at ground line. Bent 2 pile 6 has 1" outside decay near ground line on back side. Bent 3 pile 6 was driven out of plumb. Bent 3 pile 7 has a delaminated area/split near ground line. Bent 4 pile 1 is decayed and partially hollow. Bent 4 x brace has a large split at pile 5 on ahead side. Bent 7 piles 2 and 7 are decayed and partially hollow.							

Location: 3.5 MI NE OF LYNN

Team Lead: Richard Jones **Inspection Date:** 10/03/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
235	Timber Pier Cap	LF	197	0	197	0	0
1150	Check/Shake	LF	197	0	197	0	0
(235) Timber caps and piles have a few minor checks and areas of decay. Bent 5 cap Rt end has a corner split on ahead side.							
330	Metal Bridge Railing	LF	214	214	0	0	0
515	Steel Protective Coating	SF	685	685	0	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	685	685	0	0	0
(330) Bridge rail posts have areas of decay.							



elevation



roadway



Load posting at beginning



Load posting at end



Wearing surface



Span 2 soffit

Maintenance Needs

Date Reported: 02/27/2012

Priority: A - Safety deficiency; requires prompt action

Status: Open

Type of Work: Replace (General)

Component: Deck

Deficiency Description

Lt and Rt edges of deck have concrete disintegration over exterior girders.
Deck has a 3' x 1' hole through deck over bent 5 between girders 1 and 2.

Remarks



Typ edge of deck



Deck over bent 5

Maintenance Needs

Date Reported: 10/02/2018

Priority: A - Safety deficiency; requires prompt action

Status: Open

Type of Work: Superstructure Repair

Component: Superstructure

Deficiency Description

Exterior girders (1 and 15) at all spans are decayed and hollow. Vegetation is growing out of tops of girders. Span 1 bent 1 girder 15 over bent 1 is decayed and hollow at bolted connection to bridge rail post. Span 6 bent 7 girder 6 is decayed and hollow on bottom over cap.

Remarks

to District Bridge Crew for repair when other priorities allow KAW 10/24/19



2023 - Span 3 girder 1



2023 - Span 2 girder 1



2023 - Typical of exterior girders



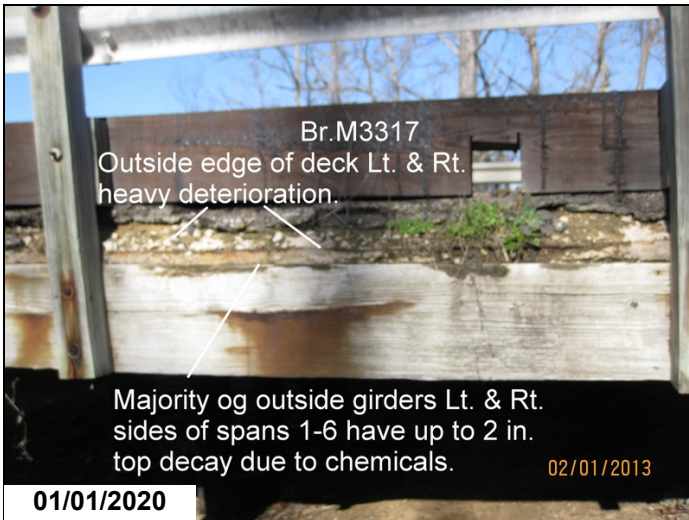
2023 - Span 1 girder 1



Span 6 bent 7 girder 6



2020



2013



Span 1 bent 1 girder 15



Span 1 girder 1



Span 1 girder 1 2020



Span 1 girder 15 at bent 1 2019



Span 1 Bent 1 Girder 1



Span 1 girder 1 2019



Span 4 girder 15



Span 1 Bent 1 Girder 15

Maintenance Needs

Date Reported: 01/14/2015

Priority: B - Pressing

Type of Work: Piling Repair/Replace

Status: Open

Component: Substructure

Deficiency Description

Bent 1 pile 1 is decayed and hollow.
Bent 1 pile 7 is decayed, hollow, and has approximately 40% section loss.
Bent 3 pile 7 has a delaminated area/split near ground line.
Bent 7 piles 2 and 7 are decayed and partially hollow.

Remarks



2023 - Bent 3 pile 7



2023 - Bent 1 pile 7



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SH 25-06- LM 14.30 over LITTLE CYPRESS CREEK
Location: 3.5 MI NE OF LYNN
Team Lead: Richard Jones **Inspection Date:** 10/03/2023

Maintenance Needs

Date Reported: 10/22/2019

Priority: D- Routine

Type of Work: Replace (General)

Status: Monitor

Component: Substructure

Deficiency Description

Timber backwalls have areas of advanced decay, especially at wing portions.

Remarks

Maintenance Needs

Date Reported: 09/19/2017

Priority: D- Routine

Type of Work: Miscellaneous

Status: Assigned

Component: Channel

Deficiency Description

Erosion behind Bent 7 abutment on Lt is beginning to undermine approach roadway.
channel has had some scour since 1972.

Remarks

to Lawrence Co Crew for review - KAW 10/6/17





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Location: 3.5 MI NE OF LYNN
Team Lead: Richard Jones **Inspection Date:** 10/03/2023

Maintenance Needs

Date Reported: 01/15/2014

Priority: D- Routine

Type of Work: Channel Work/Drift Removal

Status: Repair Documented

Component: Channel

Deficiency Description

Minor drift buildup at bent 3. Large stump lodged on bent 2.

Remarks

Large stump lodged on bent 2 has been removed, observed at inspection JFA/CWS 10-07-2020



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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Location: 3.5 MI NE OF LYNN
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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

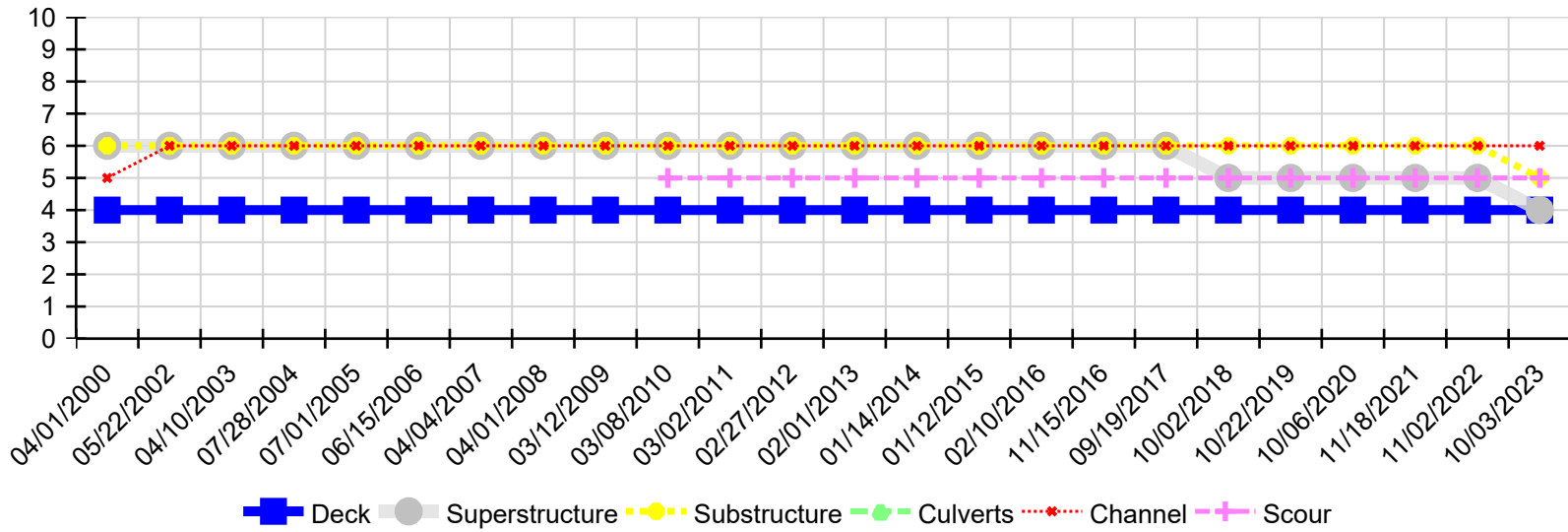


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Location: 3.5 MI NE OF LYNN

Team Lead: Richard Jones Inspection Date: 10/03/2023

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/03/2023	4	4	5	N	6	5
11/02/2022	4	5	6	N	6	5
11/18/2021	4	5	6	N	6	5
10/06/2020	4	5	6	N	6	5
10/22/2019	4	5	6	N	6	5
10/02/2018	4	5	6	N	6	5
09/19/2017	4	6	6	N	6	5
11/15/2016	4	6	6	N	6	5
02/10/2016	4	6	6	N	6	5
01/12/2015	4	6	6	N	6	5
01/14/2014	4	6	6	N	6	5
02/01/2013	4	6	6	N	6	5
02/27/2012	4	6	6	N	6	5
03/02/2011	4	6	6	N	6	5
03/08/2010	4	6	6	N	6	5
03/12/2009	4	6	6	N	6	N
04/01/2008	4	6	6	N	6	N
04/04/2007	4	6	6	N	6	N
06/15/2006	4	6	6	N	6	N
07/01/2005	4	6	6	N	6	N
07/28/2004	4	6	6	N	6	N
04/10/2003	4	6	6	N	6	N
05/22/2002	4	6	6	N	6	N
04/01/2000	4	6	6	N	5	N

Overall Length = 107.0'

Span 1
15.0'

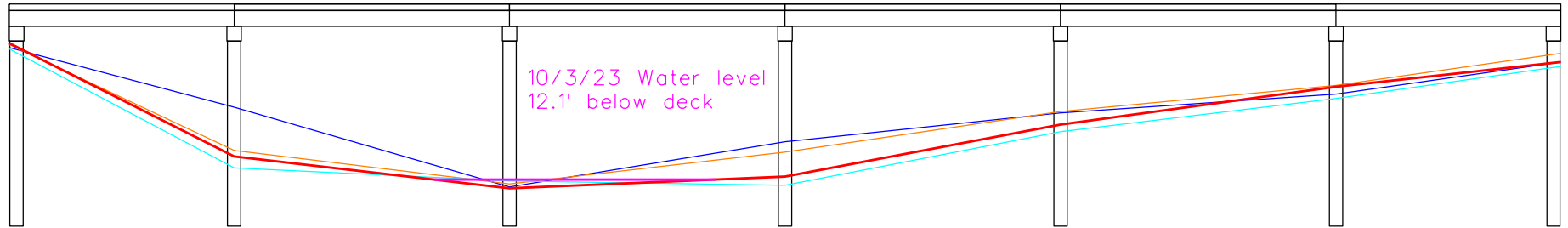
Span 2
19.0'

Span 3
19.0'

Span 4
19.0'

Span 5
19.0'

Span 6
15.0'



Bt. 1	Bt. 2	Bt. 3	Bt. 4	Bt. 5	Bt. 6	Bt. 7
3.0'	7.1'	12.6'	9.5'	7.5'	6.2'	4.0'
2.8'	10.1'	12.4'	10.2'	7.4'	5.6'	3.4'
3.1'	11.3'	12.2'	12.5'	8.8'	6.5'	4.3'
2.7'	10.5'	12.7'	11.9'	8.3'	5.7'	4.0'

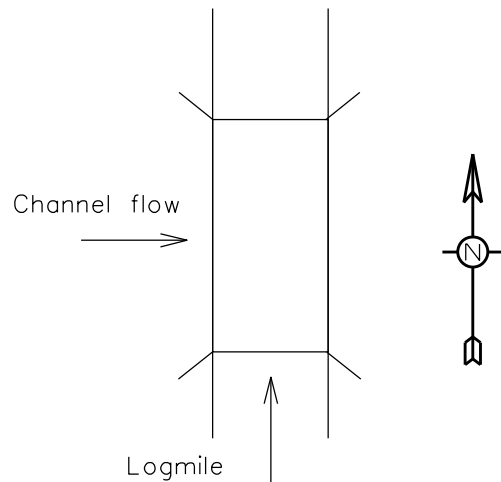
Channel soundings taken from top of deck on Rt side (downstream side)

Blue soundings taken on 3-2-1972

Orange soundings taken on 1/13/14

Light Blue soundings taken on 10-22-2019

Red soundings taken on 10-03-2023



*Not to Scale

Bridge No. M3317	Dist. 10	Co. Lawrence - 38
Logmile 14.3	Rt. 25	Sect/Zone - 06
Date Drawn 10/3/23	Insp. / Assist.	RRJ / NSR