



Latitude:35.16090, Longitude:-90.17592

Route:191 Section:01 Log:0.99

Arnold Road ID:18x191x1xA, Arnold Log mile:0.993

District 01, 35 - Crittenden County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

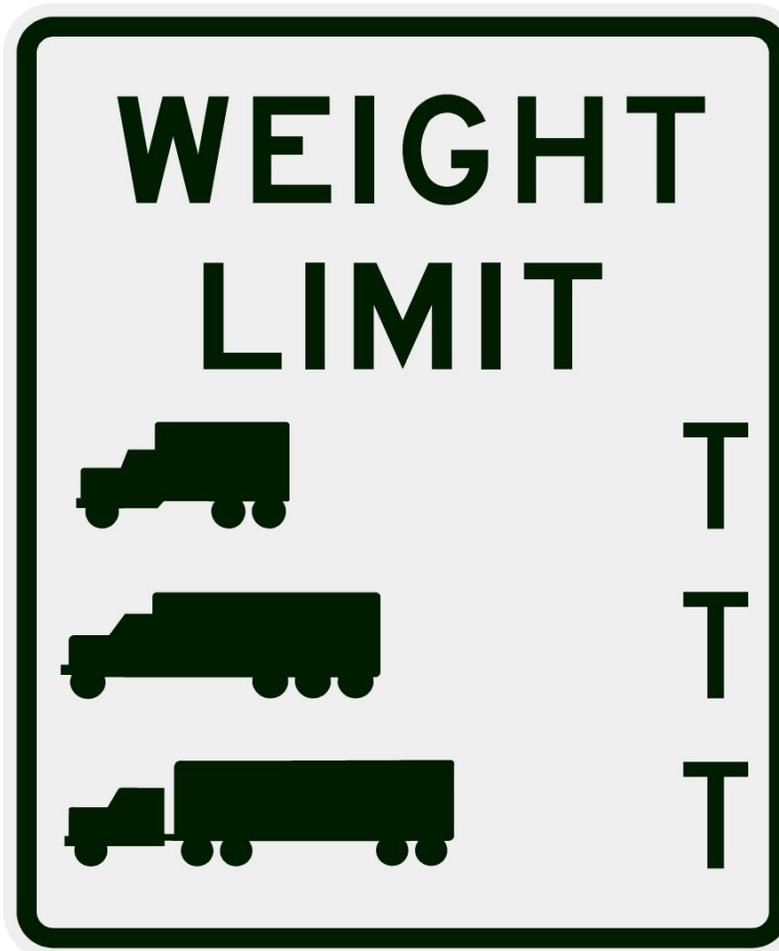
**Bridge Posting Information**

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

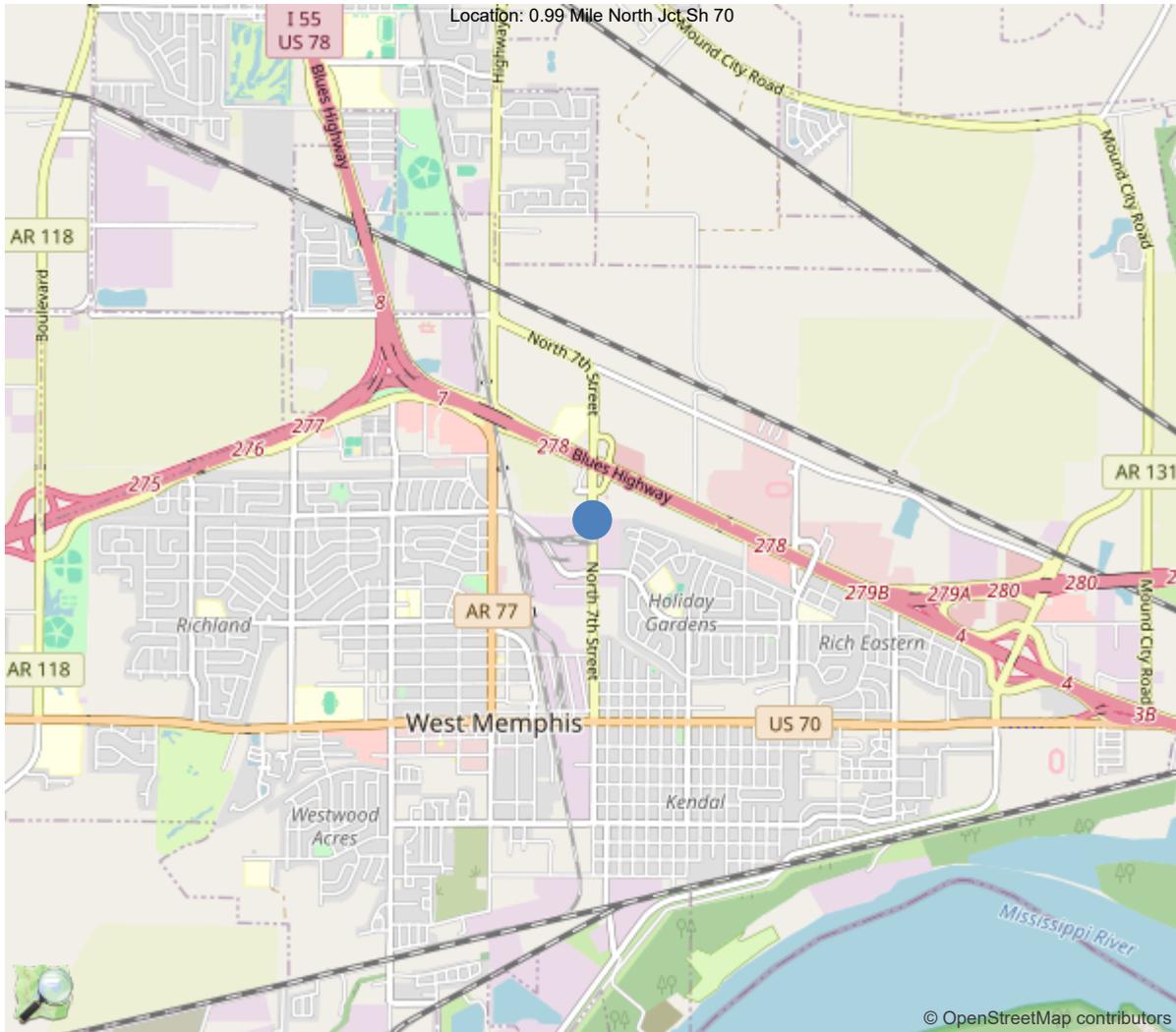
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	40		
Code 9 (31 Tons)	50		
Code 5 (40 Tons)	60		

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



35.16090, -90.17592



Asset #05122(Routine, Underwater type 2)

Sh-191/Sec-1/L0.99 over Creek

Location: 0.99 Mile North Jct Sh 70

Team Lead: Drew Melton Inspection Date: 01/08/2024

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05122
(5) Inventory Route	1
(2) Highway Agency District	01 - District 01
(3) County Code	35 - Crittenden County
(4) Place Code	74540
(6) Features Intersected	Creek
(7) Facility Carried	Sh-191/Sec-1/L0.99
(9) Location	0.99 Mile North Jct Sh 70
(11) Mile Point	0.99 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.1609
(17) Longitude	-90.17592
(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	3
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(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	1967
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	8272
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	90 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	52 ft
(52) Deck Width Out to Out	54 ft
(32) Approach Roadway Width (W/Shoulders)	52 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	52 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	16 - Urban Minor Arterial
(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	5
(59) Superstructure	5
(60) Substructure	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	5 - MS 18 / HS 20
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	60
(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	4
(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	8900
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date			01/08/2024
(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**

Drawing numbers: 13747,15100,A.

01/08/2024 Under water type2 preformed at low water conditions with a channel profile from both sides of bridge.

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

Deck is a slab so deck and superstructure are rated the same. Deck is in fair condition with wide cracks, and some repaired areas. Soffit-under surface has cracks with rust stains, spalls with exposed rebar and some delaminated areas.

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

Superstructure is a slab so deck and superstructure are rated the same. Super structure is in fair condition with some vertical cracks on sides of slab.

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**60 - Substructure** (7 - GOOD CONDITION - some minor problems.)

Substructure is in good condition with some minor spalls and cracks in the caps.

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**61 - Channel/Channel Protection** (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

Channel has good alignment with structure. Channel banks are vegetated and have some minor areas of erosion. Channel has minor amounts of debris restrictions with minor reduction to water flow rate.

Abutment #1 slope has some erosion veins running down slope up to 2' deep.

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**A-55 - Deck Washing Needed** (Y)

Gutters have dirt and debris.

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**A-56 - Joint Cleaning/Flushing Needed** (Y)

All deck joints are full of non-compressible material.

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**A-62 - Hydro and LMC Advised** (Y)

Deck has wide cracks, repaired areas, and spalls.

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**A-64 - Vegetation Removal Requested** (Y)

Abutment #2 left and right sides have vegetation growing beside bridge.

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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	4860	227	3671	962	0
1080	Delamination/Spall/Patched Area	SF	306	0	154	152	0
1090	Exposed Rebar	SF	17	0	17	0	0
1120	Efflorescence/Rust Staining	SF	300	0	0	300	0
1130	Cracking (RC and Other)	SF	450	0	0	450	0
1190	Abrasion/Wear (PSC/RC)	SF	3560	0	3500	60	0
510	Wearing Surfaces	SF	200	0	200	0	0
3210	Delam/Spall/Patched Area/Pothole	SF	200	0	200	0	0
<p>(38) Deck all spans have open longitudinal cracks reflecting thought deck.            Deck has a twenty square foot area each span with moderate scaling no loose aggregate.</p> <p>Span #1 lane has one hundred and twenty five square feet of patches with cracks and spalls 1' of rebar exposed no section loss in right lane near abutment #1.</p> <p>Span #2 center of each lane has shallow spalls a total of twenty square feet.            Span #2 right lane has ten feet of exposed rebar.</p> <p>Span #3 has 130 square feet of sound patches and twenty five feet of unsound patches..            Span #3 has 200 square feet of asphalt overlay left lane one and a half inch thick.            Span #3 between left lanes has two, one foot long areas spalled into the sona tube void, allowing them to fill with water.</p> <p>Slab right and left sides have vertical hairline cracks.            Slab right side at abutment #2 bottom edge has a 1' long crack delaminated area.</p> <p>Soffit-under surface all spans have several open longitudinal cracks with areas of leaching heavy efflorescence and areas of rust staining.            Soffit-under surface has some graffiti on it.            Soffit-under surface span #1 right side has four one foot spalls with rebar exposed.            Soffit-under surface span #2 left side mid span has six foot by four foot delamination.</p>							
215	Reinforced Concrete Abutment	LF	123	123	0	0	0
227	Reinforced Concrete Pile	EA	16	0	16	0	0
1190	Abrasion/Wear (PSC/RC)	EA	16	0	16	0	0
<p>(227) All exposed piles have light abrasion with no loose aggregate.</p>							
234	Reinforced Concrete Pier Cap	LF	109	107	0	2	0
1090	Exposed Rebar	LF	2	0	0	2	0
<p>(234) Bent #2 right and left ends of cap ahead face spalled with rebar exposed minor section loss for 1' each.            Bent #2,3 have vertical hairline cracks spaced 1' apart.</p>							
301	Pourable Joint Seal	LF	232	0	0	232	0
2350	Debris Impaction	LF	232	0	0	232	0
<p>(301) All deck joints are full of non-compressible material.</p>							



Asset #05122(Routine, Underwater type 2)

Sh-191/Sec-1/L0.99 over Creek

Location: 0.99 Mile North Jct Sh 70

Team Lead: Drew Melton Inspection Date: 01/08/2024

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Asphalt joints at abutment #1,2 are cracked and spalled full length.							
330	Metal Bridge Railing	LF	180	180	0	0	0



Side view-elevation



Typical deck



Typical soffit under surface



Channel under bridge



Channel left side



Channel right side



Abutment #1 slope



Top view-inventory



Typical debris in gutters



Typical joint



Typical deck



Typical vegetation



Span #2 soffit-under surface delaminated area.



Slab right side at abutment #2 bottom edge has a 1' long crack delaminated area.



Span #3 deck



Span #2 deck



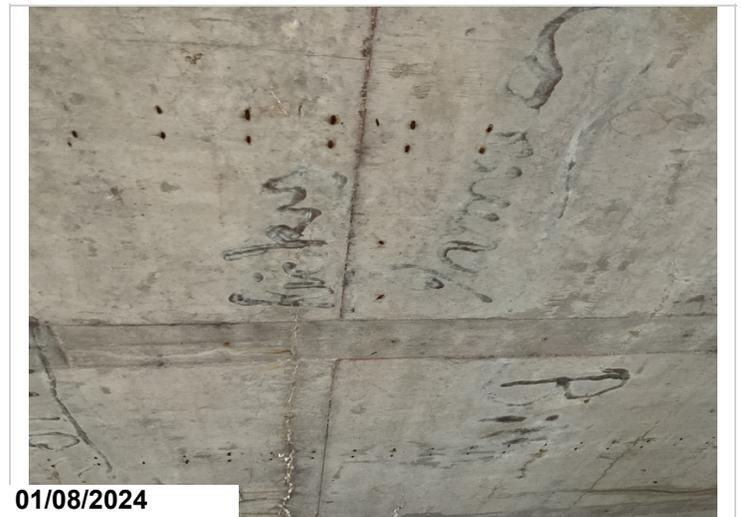
Typical deck cracks



Span #1 deck



Typical debris in gutters



Soffit-under surface has some graffiti on it.



Typical soffit-under surface cracks.



Span #1 soffit-under surface spalls with exposed rebar.



Typical cracks on sides of slab



Span #3 left side between lanes has several areas spalled into the sona tube voids



Abutment #2



Abutment #1



Typical abrasion on piles



Bent #2 cap typical spall on ahead face



Typical joint

**Maintenance Needs**

Date Reported: 01/04/2022

Priority: B - Pressing

Type of Work: Repair (General)

Status: Assigned

Component: Element

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**Deficiency Description**

Span #3 left lanes have twenty-five feet of failing patches with two holes spalled into sona tube voids allowing them to fill with water.

**Remarks**

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01/03/2022

Span #3 left lane



01/03/2022

Span #3 left side between lanes has several areas spalled into the sona tube voids

**Maintenance Needs**

Date Reported: 01/19/2016

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Deck

**Deficiency Description**

Deck has several open longitudinal wide cracks each span.

**Remarks**



Span #2 exposed rebar in right lane



Span #3 right lane



Typical longitudinal deck crack



Typical longitudinal crack in deck.

**Maintenance Needs**

Date Reported: 01/14/2020

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Approach

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**Deficiency Description**

Abutment #2 right side twenty feet from bridge end next to roadway has large sunken in area.

**Remarks**



Abutment #2 right side approach shoulder

**Maintenance Needs**

Date Reported: 01/04/2022

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Deck

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**Deficiency Description**

Spans #1 and 2 have several feet of exposed rebar each.

**Remarks**

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Exposed rebar in span #1 deck right lane.



Span #2 exposed rebar in right lane



Span #3 right lane

**Maintenance Needs**

Date Reported: 01/04/2022

Priority: C - Important

Type of Work: Repair (General)

Status: Monitor

Component: Approach

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**Deficiency Description**

Abutment #1 approach roadway overlay is cracked, spalled, and failing.

**Remarks**



Abutment #1 approach roadway



Asset #05122(Routine, Underwater type 2)

Sh-191/Sec-1/L0.99 over Creek

Location: 0.99 Mile North Jct Sh 70

Team Lead: Drew Melton Inspection Date: 01/08/2024

## Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	
A-55 - Deck Washing Needed	Yes
A-56 - Joint Cleaning/Flushing Needed	Yes
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	Yes
A-63 - Missing/Incorrect Log Mile Signage	
A-64 - Vegetation Removal Requested	Yes

### A-54 - Sealable Deck Cracks

**A-55 - Deck Washing Needed (Yes)**

Gutters have dirt and debris.



Typical debris in gutters

**A-56 - Joint Cleaning/Flushing Needed (Yes)**

All deck joints are full of non-compressible material.



Typical joint

**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 (Yes)**  
Deck has wide cracks, repaired areas, and spalls.



Typical deck

**A-63 - Missing/Incorrect Log Mile Signage**

**A-64 - Vegetation Removal Requested (Yes)**

Abutment #2 left and right sides have vegetation growing beside bridge.



Typical vegetation



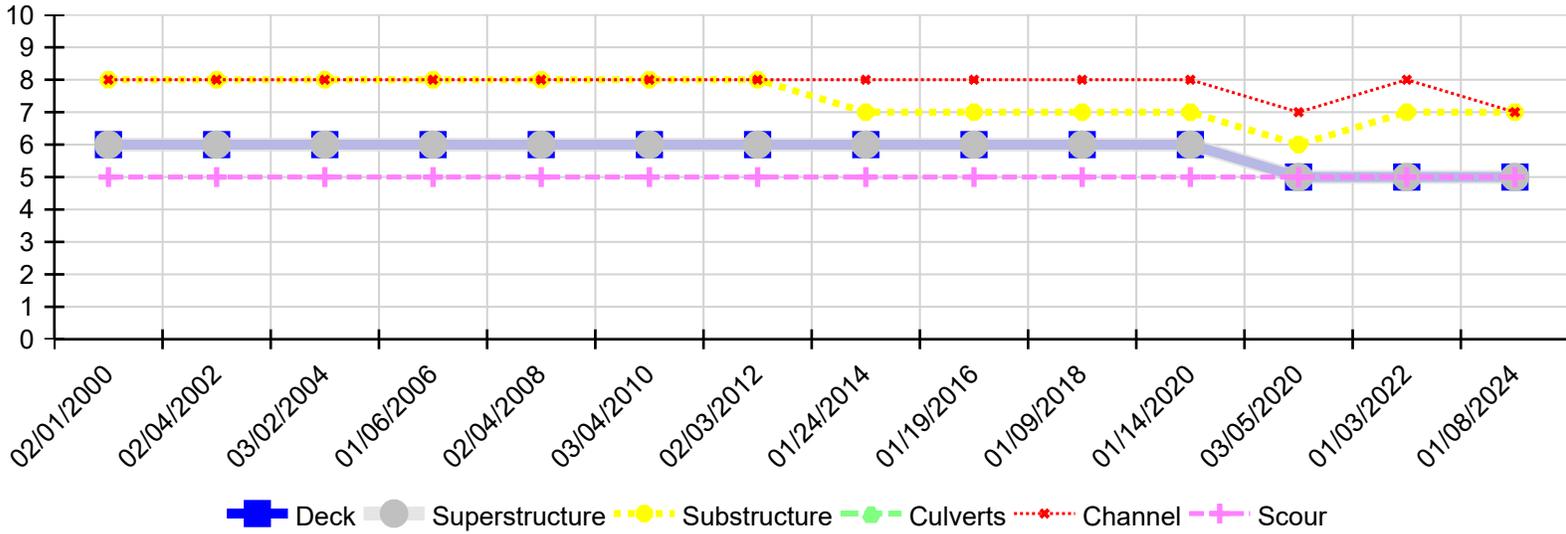
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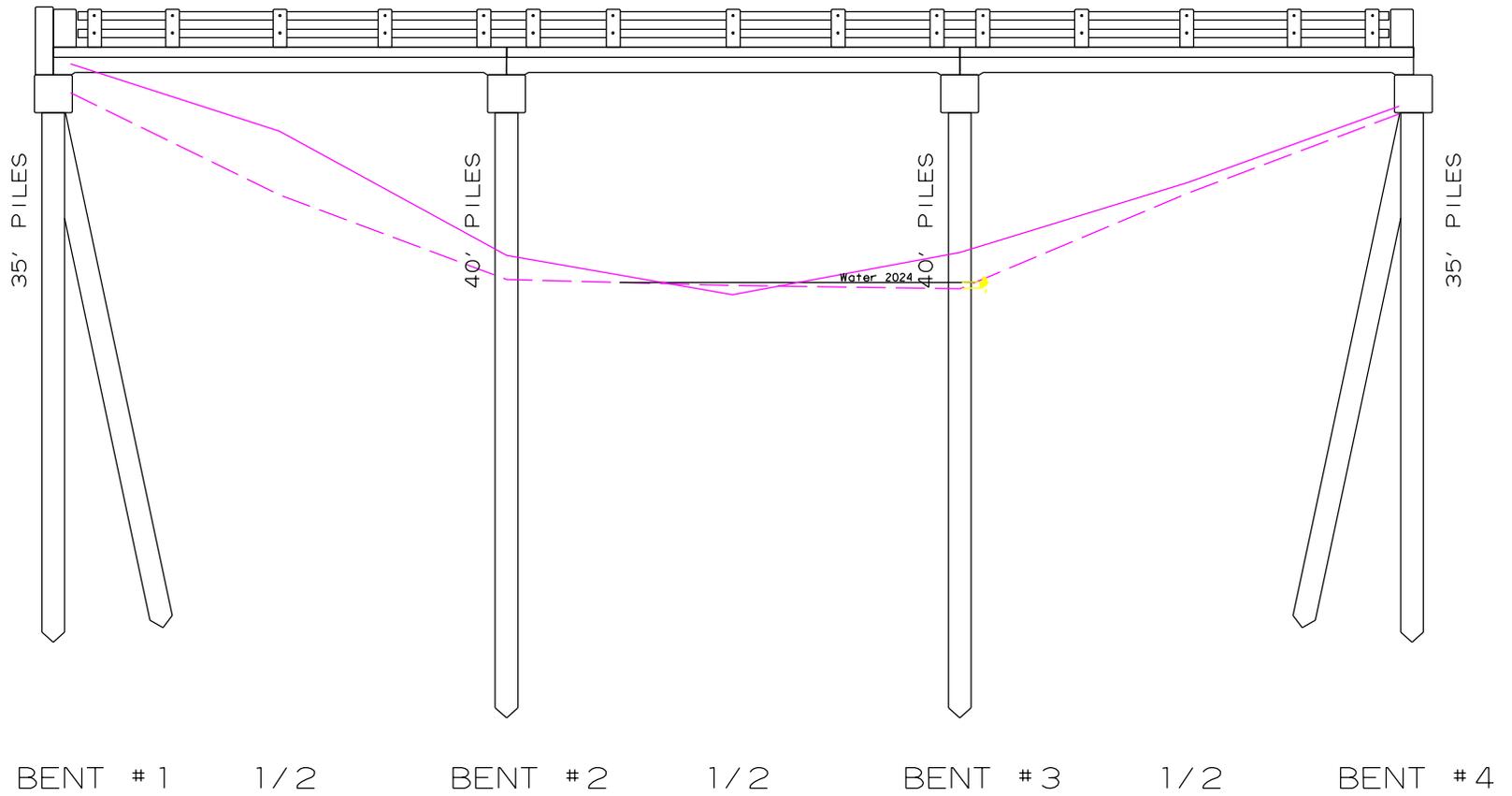
Team Lead: Drew Melton Inspection Date: 01/08/2024

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
01/08/2024	5	5	7	N	7	5
01/03/2022	5	5	7	N	8	5
03/05/2020	5	5	6	N	7	5
01/14/2020	6	6	7	N	8	5
01/09/2018	6	6	7	N	8	5
01/19/2016	6	6	7	N	8	5
01/24/2014	6	6	7	N	8	5
02/03/2012	6	6	8	N	8	5
03/04/2010	6	6	8	N	8	5
02/04/2008	6	6	8	N	8	5
01/06/2006	6	6	8	N	8	5
03/02/2004	6	6	8	N	8	5
02/04/2002	6	6	8	N	8	5
02/01/2000	6	6	8	N	8	5

READINGS TAKEN FROM SIDE OF BRIDGE, TOP OF BRIDGE RAIL



BENT # 1    1/2    BENT # 2    1/2    BENT # 3    1/2    BENT # 4

01/08/2024 Left    5.5'    12.1'    17.7'    18.1'    18.3'    12.0'    6.9'

01/08/2024 Right    3.6'    7.9'    16.1'    18.7'    15.9'    11.3'    6.4'