



Latitude:34.75453, Longitude:-92.29508

Route:10 Section:08 Log:14.467

Arnold Road ID:60x10x8xA, Arnold Log mile:14.282

District 06, 119 - Pulaski County

Owner: 1 - State Highway Agency

Inspection Direction: 3 - E to W

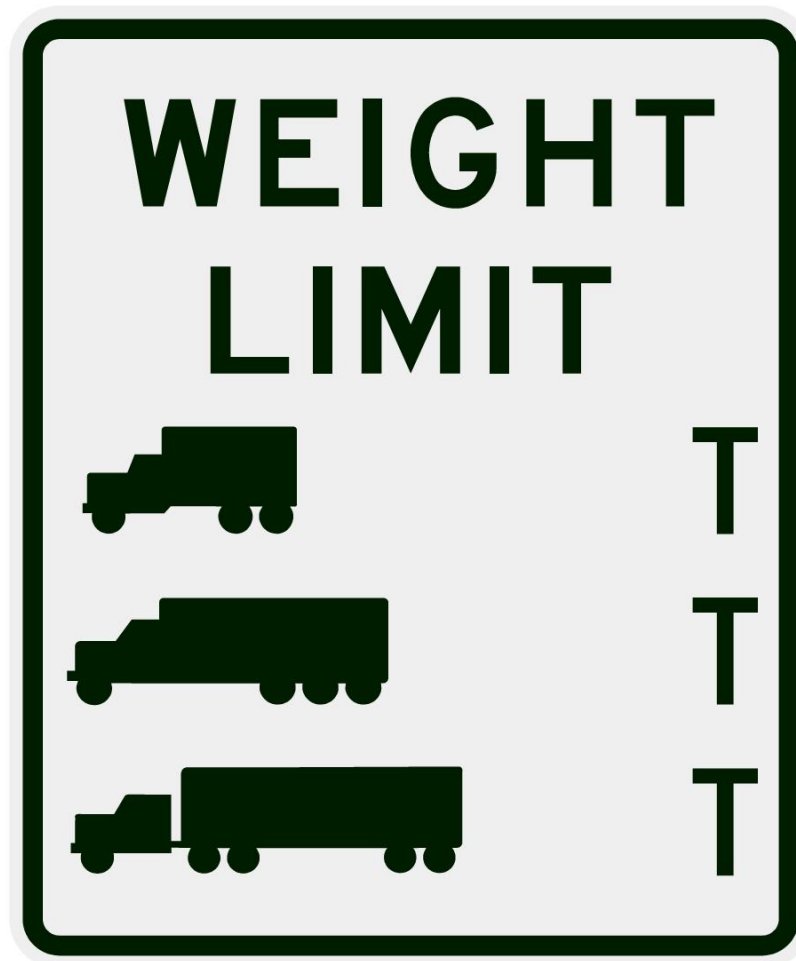
Bridge Posting Information

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

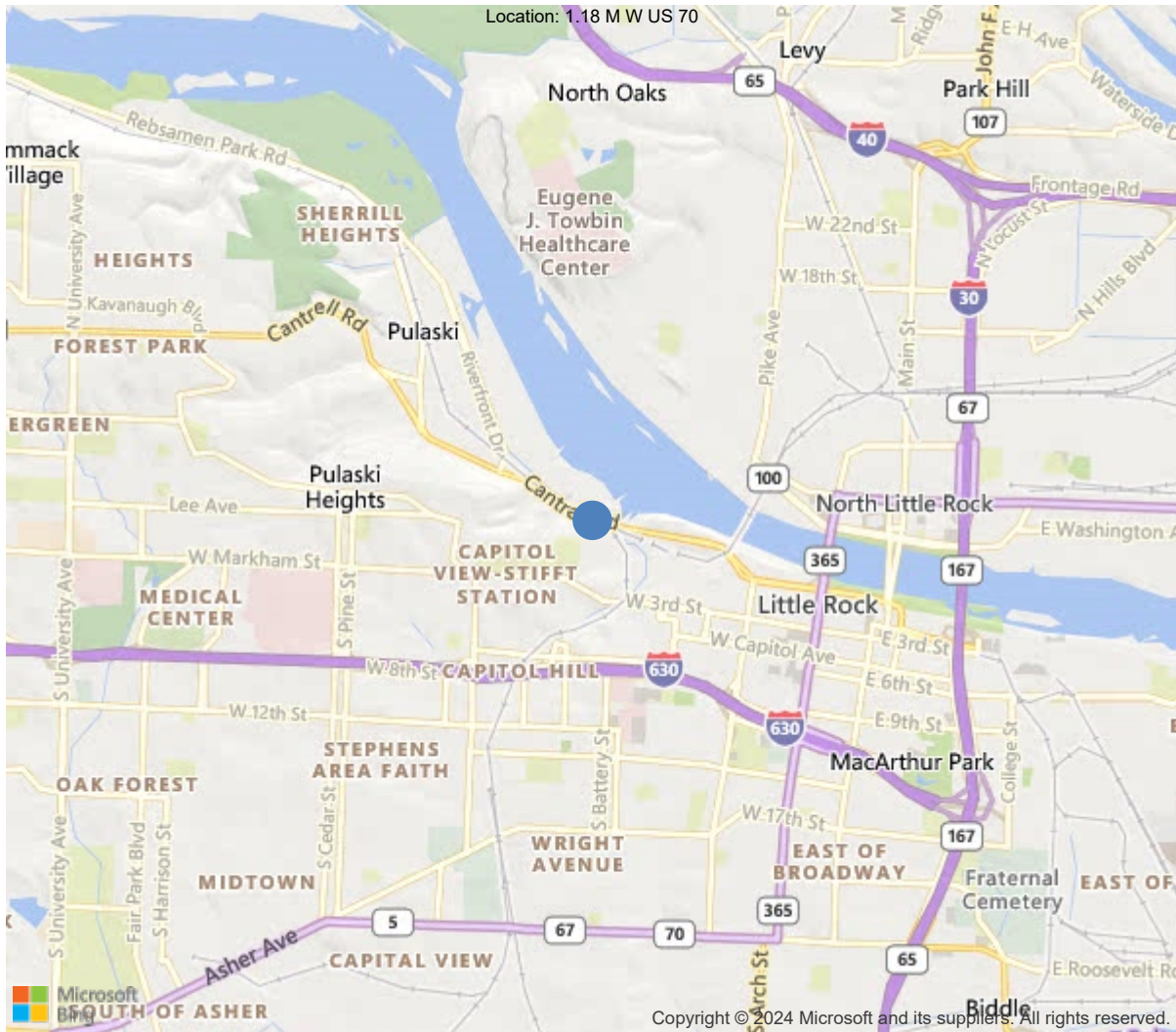
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	47		
Code 5 (40 Tons)	55		

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



34.75453, -92.29508



Asset #01538(Routine, Underwater type 2)

SH 10-SEC 8 EB over GILL ST, RR, ROSE CREEK

Location: 1.18 M W US 70

Team Lead: Keith Harris Inspection Date: 06/27/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	01538
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	119 - Pulaski County
(4) Place Code	41000
(6) Features Intersected	GILL ST, RR, ROSE CREEK
(7) Facility Carried	SH 10-SEC 8 EB
(9) Location	1.18 M W US 70
(11) Mile Point	14.467 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000010080
(16) Latitude	34.75453
(17) Longitude	-92.29508
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1 - Concrete
Type	4 - Tee beam
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	27
(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	1930
(106) Year Reconstructed	0
(42) Type of Service	18
On	1 - Highway
Under	8 - Highway-waterway-railroad
(28) Lane	
On	2
Under	2
(29) Average Daily Traffic	21884
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	52 ft
(49) Structure Length	825 ft
(50) Curb or Sidewalk Width	
Left	6 ft
Right	3 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	38 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 ft
(33) Bridge Median	0 - No median
(34) Skew	0 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	25.41 ft
(47) Inventory Route Total Horiz Clear	35.1 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	25.41 ft
Ref:	
(55) Min Lat Underclear RT	0 ft
Ref:	
(56) Min Lat Underclear LT	2 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	1
(26) Functional Class	14 - Urban Other Principal Art
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	R - The right structure of par
(102) Direction of Traffic	1 - 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	5
(61) Channel & Channel Protection	5
(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	3
(69) Clearances, Vertical/Horizontal	2
(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	8 - Bridge foundations determined t
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	865 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 223
(96) Total Project Cost	\$ 2005
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	18794
(115) Year of Future ADT	2028

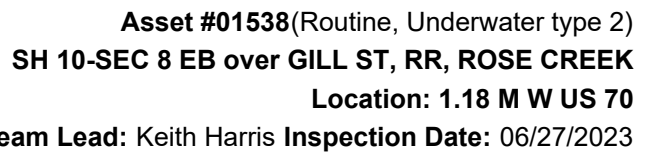
INSPECTIONS *			
(90) Inspection Date	06/27/2023		
(91) Frequency	24		
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection	No		
* The inspection date and frequency information in this box contains the current NBI date and frequency information. Please refer to the report header for the date this inspection was conducted.			



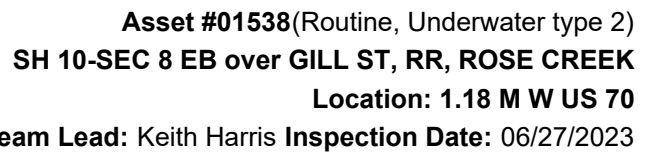
Asset #01538(Routine, Underwater type 2)
SH 10-SEC 8 EB over GILL ST, RR, ROSE CREEK
Location: 1.18 M W US 70
Team Lead: Keith Harris Inspection Date: 06/27/2023

General Observation

See also AHTD drawing #11116 and #11117 for bridge # A1538 for additional details.
Repairs made to bridge under Job # 060939, 2000/2001. Bridge 01538 consists of RCDG spans.
Logged looking East, opposite of plans. Inspected by plan bent numbering.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	31350	24581	3863	2906	0
1080	Delamination/Spall/Patched Area	SF	2879	0	309	2570	0
1090	Exposed Rebar	SF	308	0	14	294	0
1120	Efflorescence/Rust Staining	SF	666	0	624	42	0
1130	Cracking (RC and Other)	SF	2916	0	2916	0	0
510	Wearing Surfaces	SF	23100	19696	3308	96	0
3210	Delam/Spall/Patched Area/Pothole	SF	96	0	0	96	0
3220	Crack (Wearing Surface)	SF	3308	0	3308	0	0
(16) The soffit of all spans have spalls with exposed rebar and patched areas. All of the soffit between beams have cracks with rust stains and light to moderate efflorescence. The concrete curb on the left side of bridge has spalls. Span 27, bays 2 and 3 have fire damage from transients.							
(510-16) Asphalt is deteriorating causing pot holes at multiple joints Cracks in asphalt overlay							
110	Reinforced Concrete Open Girder/Beam	LF	4110	3014	1032	64	0
1080	Delamination/Spall/Patched Area	LF	166	0	166	0	0
1090	Exposed Rebar	LF	108	0	44	64	0
1130	Cracking (RC and Other)	LF	822	0	822	0	0
(110) Scattered spalls/delams and crack in all girders. The beams have several patched areas.							
Girders have spalls with exposed rebar in cs: Span 4 girder 3 Span 5 girder 1 Span 7 girder 1 Span 8 girder 4 Span 11 girder 1 Span 12 girder 1 Span 13 girder 5, Span 14 girder 5 Span 15 girders 1&5 Span 16, girder 1 Span 18 girder 1 Span 23 girder 1 Span 27 girder 5							
205	Reinforced Concrete Column	EA	91	44	25	22	0
1080	Delamination/Spall/Patched Area	EA	11	0	7	4	0
1090	Exposed Rebar	EA	31	0	13	18	0
1130	Cracking (RC and Other)	EA	5	0	5	0	0
(205) Columns with exposed rebar: Bent 1, column 1							



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bent 2 columns 1&2 Bent 4, column 2 Bent 7, column 3 Bent 8, column 1 Bent 9, column 3 Bent 10 column 2 Bent 11, column 1 Bent 12, columns 1&3 Bent 13 columns 1,2&3 Bent 14 columns 1&2 Bent 15 columns 1,2&3 Bent 16 column 1 Bent 17 columns 1&3 Bent 18 columns 1&3 Bent 19 columns 2&3 Bent 21 column 1 Bent 22 columns 1&5 Bent 25 columns 1&3							
215	Reinforced Concrete Abutment	LF	80	50	29	1	0
1080	Delamination/Spall/Patched Area	LF	17	0	16	1	0
1130	Cracking (RC and Other)	LF	13	0	13	0	0
(215) Scattered cracks in both abutments Abutment 1 has a spall on left side Abutment 2 has spalls from fires made by transients.							
234	Reinforced Concrete Pier Cap	LF	1110	1009	52	49	0
1080	Delamination/Spall/Patched Area	LF	17	0	14	3	0
1090	Exposed Rebar	LF	46	0	0	46	0
1130	Cracking (RC and Other)	LF	38	0	38	0	0
(234) Bent 1 ahead, bent 2 back, bent 3 ahead, bent 5 ahead, bent 6 back, bent 7 back & ahead, bent 8 back, bent 11 back, bent 12 back & ahead, bent 13 back, bent 15 back, bent 17 ahead, bent 19 ahead, bent 20 back, bent 22 back, bent 23 back bent 24, all have spalls with exposed rebar. Added 6/22/2021 Bt. 2 at girder 4: 3' of delam. Bent 10 rt. end of cap. Bent 14 a previous patch is now a delam and there is a spall with exposed rebar above that. Also heavy amount of efflorescence build up at this location. Bent 1 ahead, Bent 2 back, bent 5, bent 6,bent 7, bent 10 back, bent 11, bent 12, bent 21 back, bent 22 back the large delams have been repaired by state forces.							
330	Metal Bridge Railing	LF	825	815	10	0	0
7000	Damage	LF	10	0	10	0	0
(330) span 19 metal rail is damaged from traffic impact							
331	Reinforced Concrete Bridge Railing	LF	825	744	81	0	0
1130	Cracking (RC and Other)	LF	81	0	81	0	0
(331) cracks in bridge rail							



Elevation



Approach



Deck overview



Span 4 soffit view



Downstream Channel



Upstream Channel



Span 25 damage to metal rail

Maintenance Needs

Date Reported: 05/19/2011

Priority: C - Important

Type of Work: Substructure Repair

Status: Assigned

Component: Substructure

Deficiency Description

Bent 16 bottom of footing exposed and undermined 2' on downstream end due to scour.

Bent 15 footings are exposed on columns 1&2. Column 1 is undermined 1' on upstream end

Remarks

Assigned Pulaski 3 06603 9-28-15



Bent 16 footing is undermined 2' on downstream end



Bent 15 footing is undermined 1' on upstream end

Maintenance Needs

Date Reported: 06/24/2019

Priority: C - Important

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

Status: Monitor

Component:

Deficiency Description

Girders have spalls with exposed rebar at :

Span 4 girder 3

Span 5 girder 1

Span 7 girder 1

Span 8 girder 4

Span 11 girder 1

Span 12 girder 1

Span 13 girder 5,

Span 14 girder 5

Span 15 girders 1&5

Span 16, girder 1

Span 18 girder 1

Span 23 girder 1

Span 27 girder 5

Remarks



06/25/2019

Span 27 girder 2 has spall with exposed rebar on bottom near abutment 2.



06/25/2019

Span 5 girder 1 left side has spall with exposed rebar.



Span 6, girder 5: multiple cracks with efflorescence build up and small spalls.



Span 7, girder 1 with multiple spalls with exposed rebar.



Span 8, girder 3: large spall with exposed rebar. There are 10' of delam on this girder also.



Span 8 girder 4 spall with exposed rebar on left side



Span 13, girder 5: spall with exposed rebar.



Span 5 girder 1 left side has spall with exposed rebar.

Maintenance Needs

Date Reported: 06/23/2021

Priority: C - Important

Type of Work: Repair (General)

Status: Forward State

Component: Element

Deficiency Description

Bent 2: asphalt is deteriorating at joint creating a bump in the roadway. Multiple joints are in a similar condition.

Remarks



Abutment 2



Bent 13 spalls in asphalt overlay at joint



Bent 6 spalls in asphalt overlay at joint



Bent 19 spalls in asphalt overlay at joint

Maintenance Needs

Date Reported: 06/23/2021

Priority: C - Important

Type of Work: Repair (General)

Status: Forward State

Component: Element

Deficiency Description

Spalls with exposed rebar on soffit in spans 1,2,3,5,6,8,12,13,14,16,17,19,22&24.

Remarks



Span 13 exposed rebar on soffit



Span 14 exposed rebar on soffit



Span 3 has spalls with exposed rebar and multiple cracks with efflorescence staining.



Span 5, between girders 2 and 3: large delam and spall with exposed rebar.



06/09/2021

Span 24: soffit has multiple spalls with exposed rebar and large delams.



06/09/2021

Span 22: between girders 2 and 3 has large spall with exposed rebar.

Maintenance Needs

Date Reported: 06/23/2021

Priority: D- Routine

Type of Work: Repair (General)

Status: Forward State

Component: Element

Deficiency Description

Bent 14 cap, at the joint: a previous patch is now a delam and there is a spall with exposed rebar above that. Also, heavy amount of efflorescence build up at this location.

Remarks

Combined maintenance item



06/09/2021

Bent 10 right end of cap has spall with exposed rebar.



06/09/2021

Bent 14 at the joint: a previous patch is now a delam and there is a spall with exposed rebar above that. Also, heavy amount of efflorescence build up at this location.

Maintenance Needs

Date Reported: 06/23/2021

Priority: D- Routine

Type of Work: Miscellaneous

Status: Forward State

Component: Miscellaneous

Deficiency Description

Abutment 1 under this structure homeless have made a camp and have fire pits built under bridges

Remarks



Abutment 1 under this structure homeless have made a camp and have fire pits built under bridges

Maintenance Needs

Date Reported: 06/23/2021

Priority: D- Routine

Type of Work: Repair (General)

Status: Forward State

Component: Element

Deficiency Description

Columns with exposed rebar:

Bent 1, column 1

Bent 2 columns 1&2

Bent 4, column 2

Bent 7, column 3

Bent 8, column 1

Bent 9, column 3

Bent 10 column 2

Bent 11, column 1

Bent 12, columns 1&3

Bent 13 columns 1,2&3

Bent 14 columns 1&2

Bent 15 columns 1,2&3

Bent 16 column 1

Bent 17 columns 1&3

Bent 18 columns 1&3

Bent 19 columns 2&3

Bent 21 column 1

Bent 22 columns 1&5

Bent 25 columns 1&3

Remarks



06/09/2021

Bent 4, column 2: spall with exposed rebar.



06/09/2021

Bent 25, column 1: large spall with exposed rebar that has section loss.



Bent 7 column 3 large spall with exposed rebar



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Location: 1.18 M W US 70

Team Lead: Keith Harris Inspection Date: 06/27/2023

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	No
A-55 - Deck Washing Needed	No
A-56 - Joint Cleaning/Flushing Needed	No
A-57 - Beam End and Bearing Paint Needed	No
A-58 - Cap Cleaning/Flushing Needed	No
A-59 - Joint Repair Needed	No
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	No
A-62 - Hydro and LMC Advised	No
A-63 - Missing/Incorrect Log Mile Signage	No
A-64 - Vegetation Removal Requested	Yes

A-54 - Sealable Deck Cracks (No)

A-55 - Deck Washing Needed (No)

A-56 - Joint Cleaning/Flushing Needed (No)



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A-57 - Girder End and Bearing Painting Needed (No)

A-58 - Cap Cleaning/Flushing Needed (No)

A-59 - Joint Repair Needed (No)

A-60 - Full Girder Painting Needed (No)

A-61 - Polymer Overlay Advised (No)

A-62 - Hydro and LMC Advised (No)

A-63 - Missing/Incorrect Log Mile Signage (No)

A-64 - Vegetation Removal Requested (Yes)

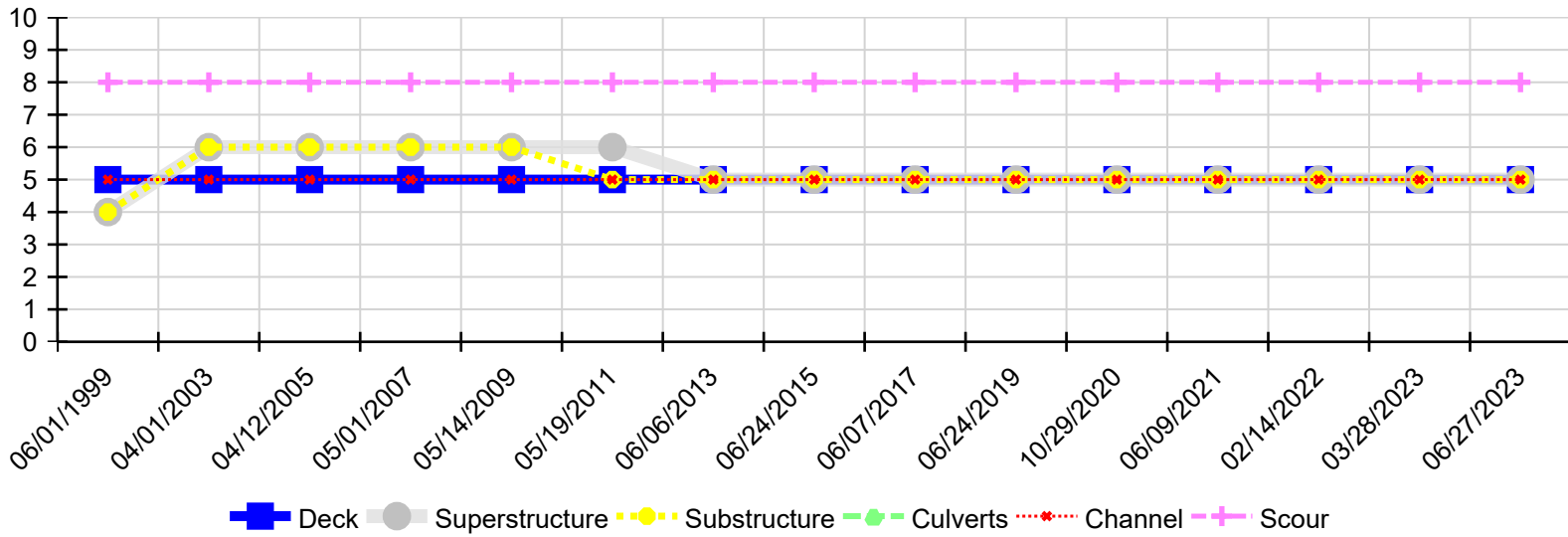


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Location: 1.18 M W US 70

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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/27/2023	5	5	5	N	5	8
03/28/2023	5	5	5	N	5	8
02/14/2022	5	5	5	N	5	8
06/09/2021	5	5	5	N	5	8
10/29/2020	5	5	5	N	5	8
06/24/2019	5	5	5	N	5	8
06/07/2017	5	5	5	N	5	8
06/24/2015	5	5	5	N	5	8
06/06/2013	5	5	5	N	5	8
05/19/2011	5	6	5	N	5	8
05/14/2009	5	6	6	N	5	8
05/01/2007	5	6	6	N	5	8
04/12/2005	5	6	6	N	5	8
04/01/2003	5	6	6	N	5	8
06/01/1999	5	4	4	N	5	8