



Latitude:34.47166, Longitude:-92.98443

Route:270 Section:06 Log:4.519

Arnold Road ID:26x270x6xA, Arnold Log mile:4.515

District 06, 51 - Garland County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

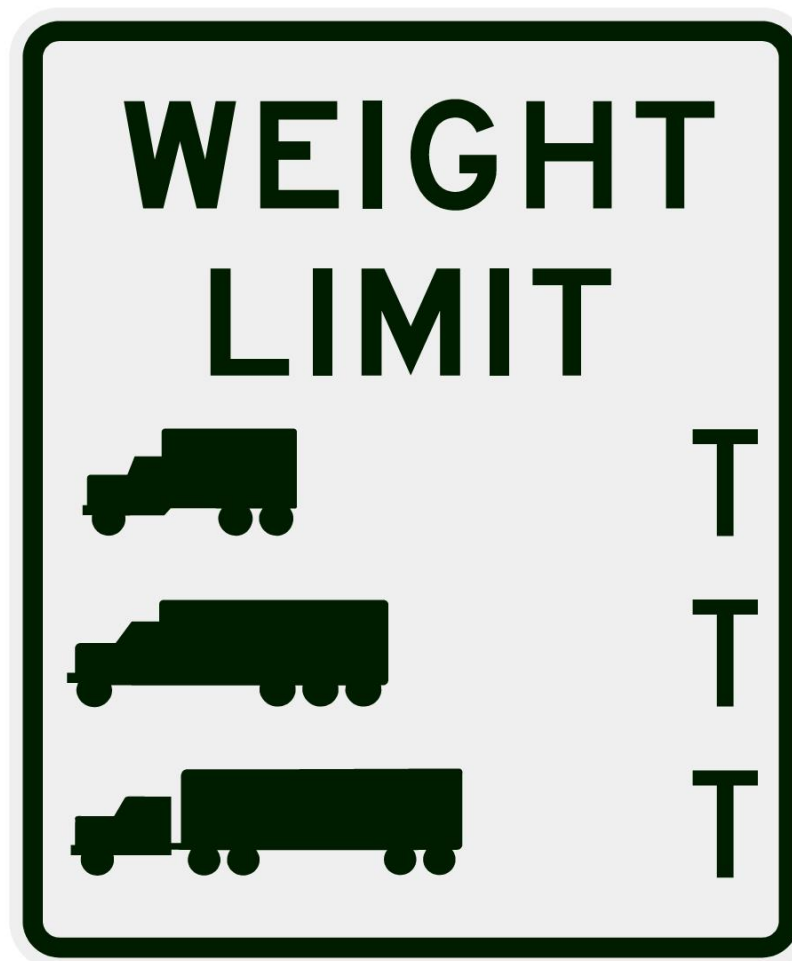
Bridge Posting Information

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

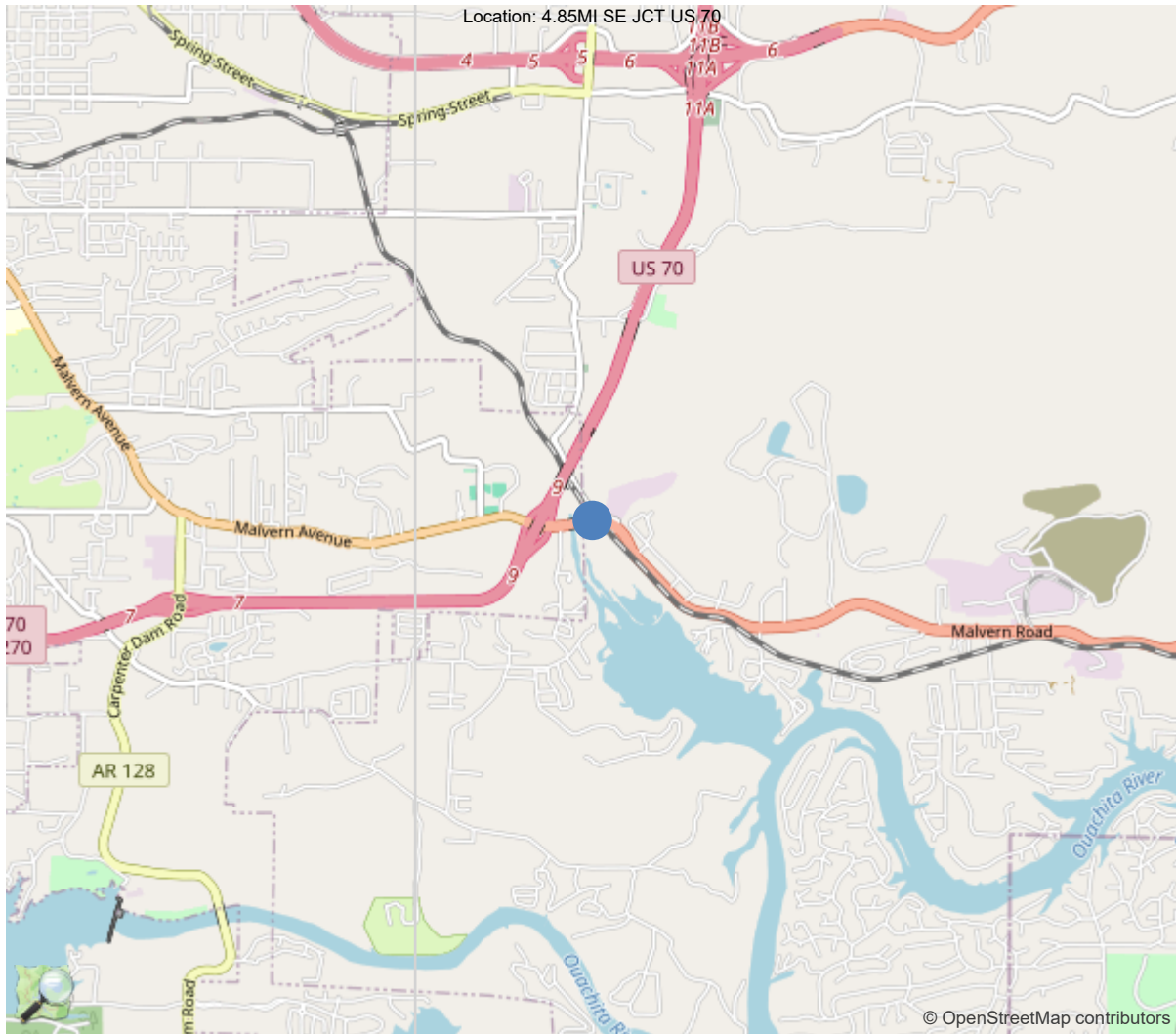
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	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



34.47166, -92.98443



Asset #05781(Routine)

US 270- 6 Log 4.93 over WESTINGHOUSE RD, RR

Location: 4.85MI SE JCT US 70

Team Lead: Chris Doggett Inspection Date: 07/24/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05781
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	51 - Garland County
(4) Place Code	33400
(6) Features Intersected	WESTINGHOUSE RD, RR
(7) Facility Carried	US 270- 6 Log 4.93
(9) Location	4.85MI SE JCT US 70
(11) Mile Point	4.519 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000270060
(16) Latitude	34.4716607264139
(17) Longitude	-92.9844341167344
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
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	4
(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	1980
(106) Year Reconstructed	0
(42) Type of Service	14
On	1 - Highway
Under	4 - Highway-railroad
(28) Lane	
On	5
Under	2
(29) Average Daily Traffic	19000
(30) Year of ADT	2018
(109) Truck ADT	5 %
(19) Bypass, Detour Length	5 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	80 ft
(49) Structure Length	323 ft
(50) Curb or Sidewalk Width	
Left	4 ft
Right	4 ft
(51) Bridge Roadway Width Curb to Curb	58 ft
(52) Deck Width Out to Out	60.5 ft
(32) Approach Roadway Width (W/Shoulders)	58.1 ft
(33) Bridge Median	0 - No median
(34) Skew	45 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	65.9 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	20.92 ft
Ref:	
(55) Min Lat Underclear RT	6.5 ft
Ref:	
(56) Min Lat Underclear LT	18.5 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(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	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	7
(60) Substructure	7
(61) Channel & Channel Protection	N
(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	2
(69) Clearances, Vertical/Horizontal	4
(71) Waterway Adequacy	N
(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	N - Bridge not over waterway.
PROPOSED IMPROVEMENTS	
(75) Type of Work	31 - Replacement of bridge or
(76) Length of Structure Improvement	360 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 400
(96) Total Project Cost	\$ 1769
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	21000
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	07/24/2023		
(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 #05781(Routine)

US 270- 6 Log 4.93 over WESTINGHOUSE RD, RR

Location: 4.85MI SE JCT US 70

Team Lead: Chris Doggett Inspection Date: 07/24/2023

General Observation

Approach going east.

Job # 60115 Drawing# 22219 for layout

Bucket truck used.

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

Scattered unsealed transverse and longitudinal cracks in all spans. Minor abrasion in all lanes. A few spalls adjacent to assembly joint.

2023

Routine maintenance has been added to wash deck, joint repairs, and seal cracking.

59 - Superstructure (7 - GOOD CONDITION - some minor problems.)

Chalking paint and freckled rust on all beams.

Bent 1 beam 7 has active corrosion in web and top of bottom flange with up to 1/8" section loss.

Added routine maintenance to paint entire steel beams.

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

Overall the substructure is in good condition. There are multiple spalls and cracks in all elements of the substructure. Added routine maintenance for vegetation removal and cleaning caps.

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	19541	13358	6108	75	0
1080	Delamination/Spall/Patched Area	SF	20	0	0	20	0
1120	Efflorescence/Rust Staining	SF	138	0	138	0	0
1130	Cracking (RC and Other)	SF	3441	0	3386	55	0
1190	Abrasion/Wear (PSC/RC)	SF	2584	0	2584	0	0
(12) Scattered transverse and longitudinal cracks in all spans. Minor abrasion in all lanes. Span 1, minor map cracking. Span 2, spalls in the westbound outside lane near bent 3. Small spall in span 4, eastbound inside lane. Soffit overhangs have scattered cracks with efflorescence.							
107	Steel Open Girder/Beam	LF	2240	2239	0	1	0
1000	Corrosion	LF	1	0	0	1	0
515	Steel Protective Coating	SF	24904	0	12453	12450	1
3410	Chalking (Steel Protective Coatings)	LF	12453	0	12453	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	12451	0	0	12450	1
(107) Chalking paint and freckled rust on all beams. Bent 1 beam 7 has active corrosion in web and top of bottom flange with up to 1/8" section loss. (515-107) Chalking paint and freckled rust on all beams.							
205	Reinforced Concrete Column	EA	9	8	0	1	0
1080	Delamination/Spall/Patched Area	EA	1	0	0	1	0
(205) Bent 4 column 3 has a large spall and two small spalls that have been patched							
210	Reinforced Concrete Pier Wall	LF	60	53	5	2	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	5	0	5	0	0
(210) Scattered vertical cracks and two spalls with exposed rebar on the backside near column 3.							
215	Reinforced Concrete Abutment	LF	198	184	14	0	0
1120	Efflorescence/Rust Staining	LF	3	0	3	0	0
1130	Cracking (RC and Other)	LF	11	0	11	0	0
(215) Both abutments have multiple vertical cracks in the back wall.							
234	Reinforced Concrete Pier Cap	LF	288	286	1	1	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	1	0	0	1	0



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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(234) Bent 2 cap has a delam on the back side. Bent 4 cap has 1 spall with exposed rebar. Debris buildup on caps due to leaking joints.							
302	Compression Joint Seal	LF	328	0	318	0	10
2320	Seal Adhesion	LF	328	0	318	0	10
(302) Bents 2 and 4 have sections of the seal that has lost bond and has dropped out allow water to freely flow. The remainder of all seals leak,							
303	Assembly Joint with Seal	LF	82	30	30	22	0
2350	Debris Impaction	LF	30	0	30	0	0
2370	Metal Deterioration or Damage	LF	44	22	0	22	0
(303) Debris build up in the center and westbound lanes. The joint is loose at bent 3, outside westbound lane.							
310	Elastomeric Bearing	EA	56	0	56	0	0
1000	Corrosion	EA	56	0	56	0	0
(310) All bearings have minor corrosion.							
330	Metal Bridge Railing	LF	646	646	0	0	0
331	Reinforced Concrete Bridge Railing	LF	646	646	0	0	0



Elevation



Inventory looking east



Bent 2: 5' of joint material missing or has lost bond allowing water to freely flow through.



Bent 2: 5' of joint material missing or has lost bond allowing water to freely flow through.



Bent 3: East bound lanes: the assembly joint is loose under traffic



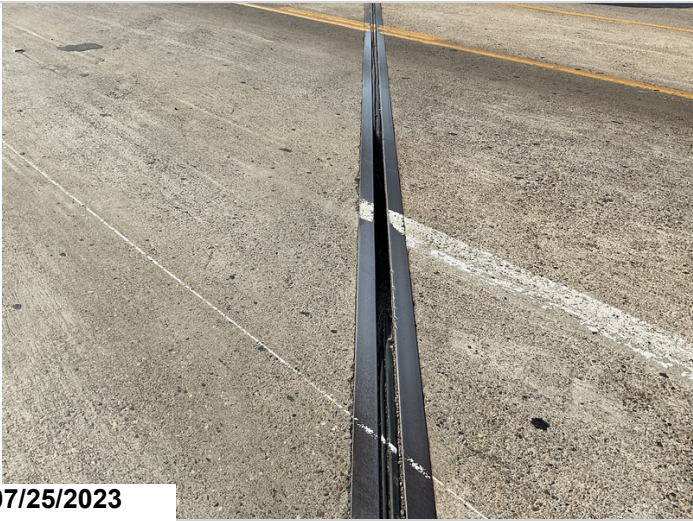
Span 2 , bent 2: multiple spalls adjacent to the joint. Approximately 20sf.



Span 3: large unsealed diagonal and transverse cracking. Average width is 0.030"



Bent 4: 5' of joint seal has lost it's bond and has dropped out.



Bent 4: 5' of joint seal has lost it's bond and has dropped out.



All spans with dirt and debris build up on the shoulders and sidewalk.



Span 4: multiple longitudinal cracks (0.025")



Span 4: multiple longitudinal cracks (0.025")



Deck view.



Vines at bent 5.



Bent 4: bottom of cap spalled with exposed rebar. (1'x8")



Bent 4, column 3: spall to the bottom of column. (1'4" x 11")



07/24/2023

Bent 3: pier wall with couple full height vertical cracks up to 0.016"



07/24/2023

Soffit view



07/24/2023

Span 1, girder 2: bottom flange with freckled rust.
2023



07/25/2023

Span 1, girder 2: bottom flange with freckled rust.
2023



07/24/2023

Bent 2, column 1: vines climbing up column.



07/24/2023

Bent 1: beam seat has dirt and debris



07/24/2023

Bent 1, girder 6: active corrosion to all bearings is common throughout.

Maintenance Needs

Date Reported: 07/29/2021

Priority: C - Important

Type of Work: Repair (General)

Status: Forward State

Component: Deck

Deficiency Description

Deck span 2 has scattered spalls.

Remarks



Span 2 , bent 2: multiple spalls adjacent to the joint.
Approximately 20sf.



Deck span 2 at bent 3 has spalls.

Maintenance Needs

Date Reported: 07/28/2021

Priority: C - Important

Type of Work: Repair (General)

Status: Forward State

Component: Element

Deficiency Description

Bent 3 approx. 22 foot of joint armor missing.

Remarks

State forces have repaired the missing joint armor.



Bent 3: missing joint seal has been repaired.



Bent 3 approx. 22 foot of joint armor missing.

Routine Maintenance

Check Box Maintenance Items

Type of Maintenance	Is recommended?
A-54 - Sealable Deck Cracks	Yes
A-55 - Deck Washing Needed	Yes
A-56 - Joint Cleaning/Flushing Needed	Yes
A-57 - Beam End and Bearing Paint Needed	Yes
A-58 - Cap Cleaning/Flushing Needed	Yes
A-59 - Joint Repair Needed	Yes
A-60 - Full Beam Painting Needed	Yes
A-61 - Polymer Overlay Advised	Yes
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 (Yes)



Span 4: multiple longitudinal cracks (0.025")

A-55 - Deck Washing Needed (Yes)



All spans with dirt and debris build up on the shoulders and sidewalk.

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

A-57 - Girder End and Bearing Painting Needed (Yes)

A-58 - Cap Cleaning/Flushing Needed (Yes)



Bent 1: beam seat has dirt and debris

A-59 - Joint Repair Needed (Yes)



Bent 2: 5' of joint material missing or has lost bond allowing water to freely flow through.



Bent 4: 5' of joint seal has lost it's bond and has dropped out.

A-60 - Full Girder Painting Needed (Yes)



Span 1, girder 2: bottom flange with freckled rust.
2023

A-61 - Polymer Overlay Advised (Yes)

A-62 - Hydro and LMC Advised (No)

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

A-64 - Vegetation Removal Requested (Yes)



Vines at bent 5.

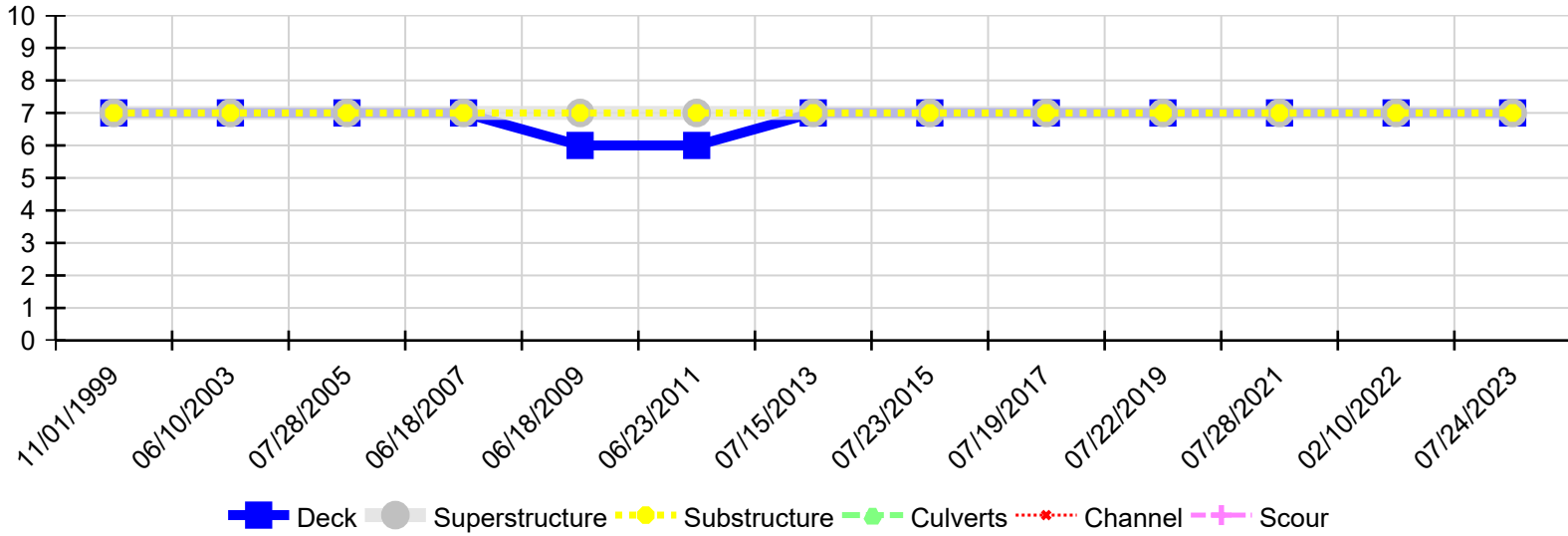


Bent 2, column 1: vines climbing up column.



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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/24/2023	7	7	7	N	N	N
02/10/2022	7	7	7	N	N	N
07/28/2021	7	7	7	N	N	N
07/22/2019	7	7	7	N	N	N
07/19/2017	7	7	7	N	N	N
07/23/2015	7	7	7	N	N	N
07/15/2013	7	7	7	N	N	N
06/23/2011	6	7	7	N	N	N
06/18/2009	6	7	7	N	N	N
06/18/2007	7	7	7	N	N	N
07/28/2005	7	7	7	N	N	N
06/10/2003	7	7	7	N	N	N
11/01/1999	7	7	7	N	N	N