



Latitude:33.83100, Longitude:-93.39470

Route:19 Section:05 Log:1.8

Arnold Road ID:50x19x5xA, Arnold Log mile:1.79

District 03, 99 - Nevada County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

Bridge Posting Information

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

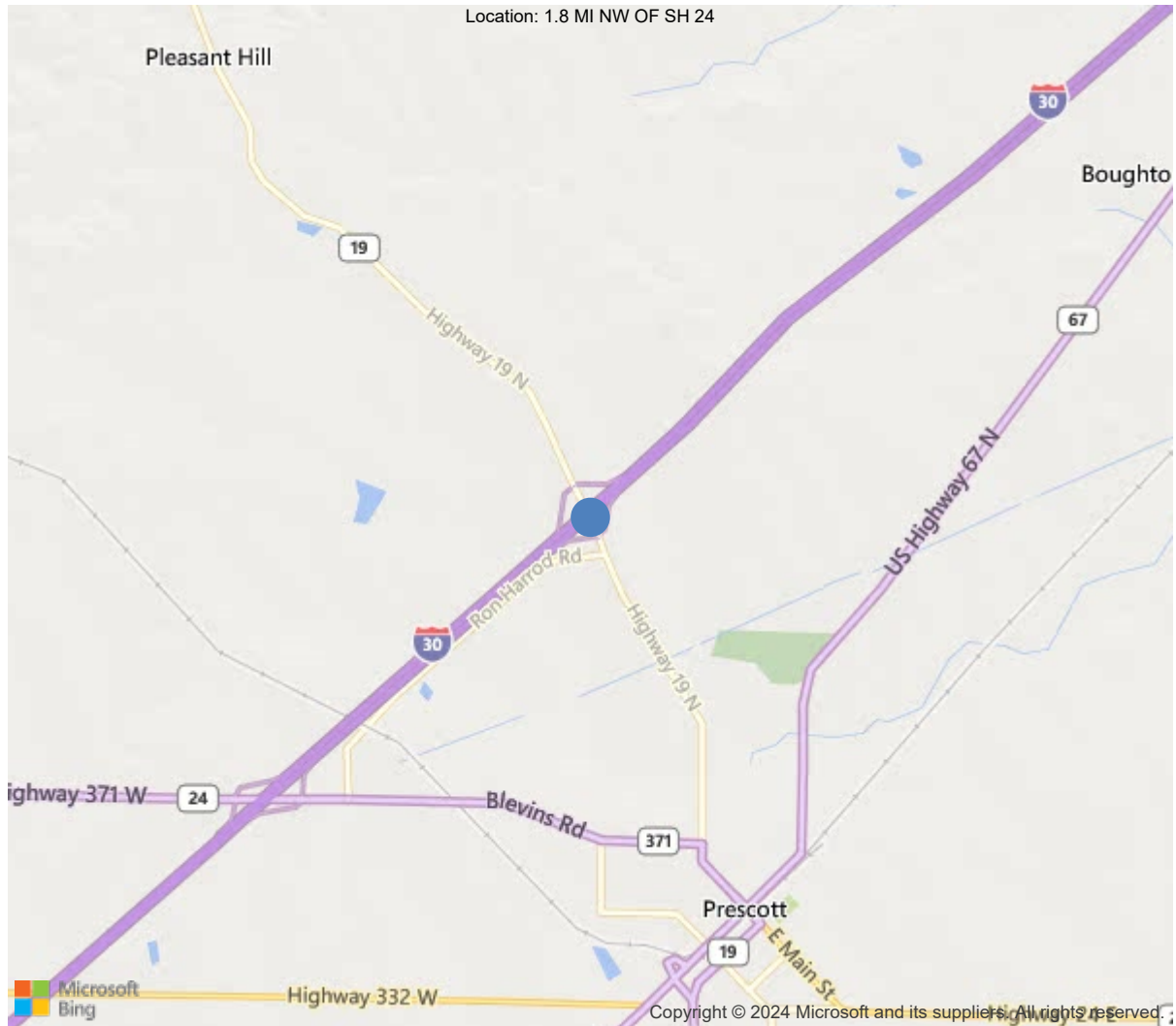
70 - Bridge Posting: 5 - Equal to or above legal loads

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



33.83100, -93.39470



Asset #05063(Routine)

SH 19-SEC 5-1.80 over I 30-SEC 13-46.19

Location: 1.8 MI NW OF SH 24

Team Lead: John King Inspection Date: 10/11/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05063
(5) Inventory Route	1
(2) Highway Agency District	03 - District 03
(3) County Code	99 - Nevada County
(4) Place Code	0
(6) Features Intersected	I 30-SEC 13-46.19
(7) Facility Carried	SH 19-SEC 5-1.80
(9) Location	1.8 MI NW OF SH 24
(11) Mile Point	1.8 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.831
(17) Longitude	-93.3947
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4 - Steel continuous
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(45) No. of Spans in Main Unit	3
(46) No. of Approach Spans	2
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	3 - Latex Concrete or similar additive
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1972
(106) Year Reconstructed	0
(42) Type of Service	11
On	1 - Highway
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	7600
(30) Year of ADT	2020
(109) Truck ADT	1 %
(19) Bypass, Detour Length	7 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	90 ft
(49) Structure Length	331 ft
(50) Curb or Sidewalk Width	
Left	0.5 ft
Right	0.5 ft
(51) Bridge Roadway Width Curb to Curb	39 ft
(52) Deck Width Out to Out	42.7 ft
(32) Approach Roadway Width (W/Shoulders)	40 ft
(33) Bridge Median	0 - No median
(34) Skew	25 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	39.4 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	16.21 ft
Ref:	
(55) Min Lat Underclear RT	28.3 ft
Ref:	
(56) Min Lat Underclear LT	29.8 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	0
(26) Functional Class	6 - Rural 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	6
(59) Superstructure	7
(60) Substructure	6
(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	5
(69) Clearances, Vertical/Horizontal	5
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	1 - Inspected feature meets current
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	N - Bridge not over waterway.
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	9120
(115) Year of Future ADT	2040

INSPECTIONS *			
(90) Inspection Date	10/11/2022		
(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 #05063(Routine)

SH 19-SEC 5-1.80 over I 30-SEC 13-46.19

Location: 1.8 MI NW OF SH 24

Team Lead: John King Inspection Date: 10/11/2022

General Observation

...

27 - Year Built (1972)

see 05063.2021Eval.pdf for explanation on item 27 change

58 - Deck (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

bridge deck had a hydro done in past. bottom side of deck has spall larger than 6 inch and depth more than 1 inch top side 7 good but bottom side of deck is 6 satisfactory. bridge deck was rated at a 6 satisfactory due to spalls, delams, rebar exposed, effl. on bottom of deck

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

all steel beams and bearings need painted...

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

small area with rebar exposed and old patch work done....



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	1300	750	550	0	0
1080	Delamination/Spall/Patched Area	SF	200	0	200	0	0
1090	Exposed Rebar	SF	50	0	50	0	0
1120	Efflorescence/Rust Staining	SF	300	0	300	0	0
(12) 2019 hydro Job on deck top side done. bottom side still has spalls with rebar exposed							
(1080-12) Delams in various locations span 2 being the worst span.							
(1090-12) Bottom side of deck has spalls in various locations.							
(1120-12) Efflorescence various locations mainly in span 2							
107	Steel Open Girder/Beam	LF	1947	1947	0	0	0
515	Steel Protective Coating	SF	92141	77141	0	15000	0
3420	Peeling/Bubbling/Cracking	LF	15000	0	0	15000	0
205	Reinforced Concrete Column	EA	8	7	1	0	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
(1130-205) Cracking on bent 5 left side column							
215	Reinforced Concrete Abutment	LF	100	64	0	36	0
1080	Delamination/Spall/Patched Area	LF	36	0	0	36	0
234	Reinforced Concrete Pier Cap	LF	246	201	45	0	0
1080	Delamination/Spall/Patched Area	LF	45	0	45	0	0
(1080-234) Small delams bent 3 underside of cap							
301	Pourable Joint Seal	LF	80	79	0	1	0
2330	Seal Damage	LF	1	0	0	1	0
(301) joints were done on hydro job in 2019.. 2022 some area of joint a coming apart at joint over bent 2 (1ft area)							
(2330-301) Puncher all the way through bent 2							
311	Movable Bearing	EA	30	30	0	0	0
515	Steel Protective Coating	SF	60	0	60	0	0
3410	Chalking (Steel Protective Coatings)	EA	60	0	60	0	0
(3410-515-311) Paint chalking various locations							
313	Fixed Bearing	EA	30	30	0	0	0
515	Steel Protective Coating	SF	60	0	60	0	0
3410	Chalking (Steel Protective Coatings)	EA	60	0	60	0	0

Location: 1.8 MI NW OF SH 24

Team Lead: John King Inspection Date: 10/11/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(3410-515-313) Paint chalking various locations							
330	Metal Bridge Railing	LF	660	660	0	0	0
331	Reinforced Concrete Bridge Railing	LF	660	610	50	0	0
1130	Cracking (RC and Other)	LF	50	0	50	0	0
(1130-331) Cracking in concrete railing various locations							



Elevation photo



Alignment



Underside of deck



Typical superstructure photo



10/11/2022

Typical substructure photo



10/24/2019

Under photo at Span #2



10/24/2019

Span #2 bay #1 delams and Spalls also rebar exposed



10/24/2019

Typical delams and Spalls with rebar exposed on the bottom of deck in all spans



Seal loss of adhesive



Under photo Span #4



Spall with rebar exposed span #1 left side on the soffit



Paint peeling typical on all beams



Span 1 left side spall with rebar exposed on the soffit



Joint #1



New epoxy seal overlay bent #1



Spall with rebar exposed span #1 bay #1



Under photo Span #5



Spall with rebar exposed span #5 right side mid span under side



Spall with rebar exposed end of bridge between beams #5 and #6



Sand blasting material on beams and cap



10/24/2019

Joint #2. seal loss adhesive approximately 14'



10/24/2019

Paint



10/24/2019

Patch work bent #2



10/24/2019

End of bridge deck photo



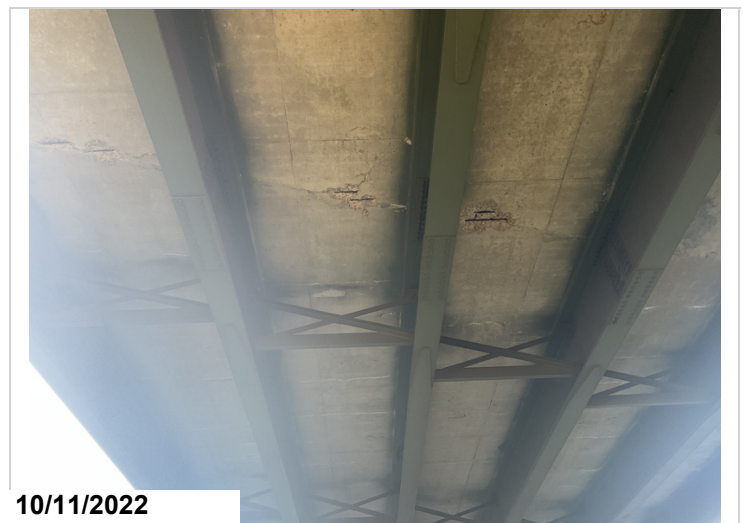
Sand blasting. Material on the cap



Efflorescence typical in all spans



Top of Beam #6 end of bridge next to abutment severe rusting



Rebar exposed underside of deck



10/11/2022

Rebar exposed underside of deck



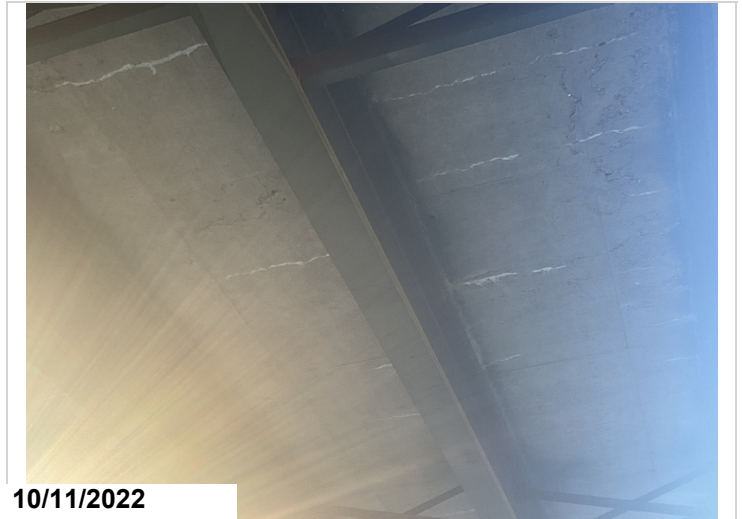
10/11/2022

Rebar exposed underside of deck



10/11/2022

Efflorescence various locations



10/11/2022

Delam underside of deck span 2 above interstate



Delam span 2 above bent 3



Delam span 3



Cracking on bent 5 left side column



Cracking on bent 5 left side column



Cracking on bent 5 left side column



Cracking on bent 5 left side column



Small delams bent 3 underside of cap



Deck photo



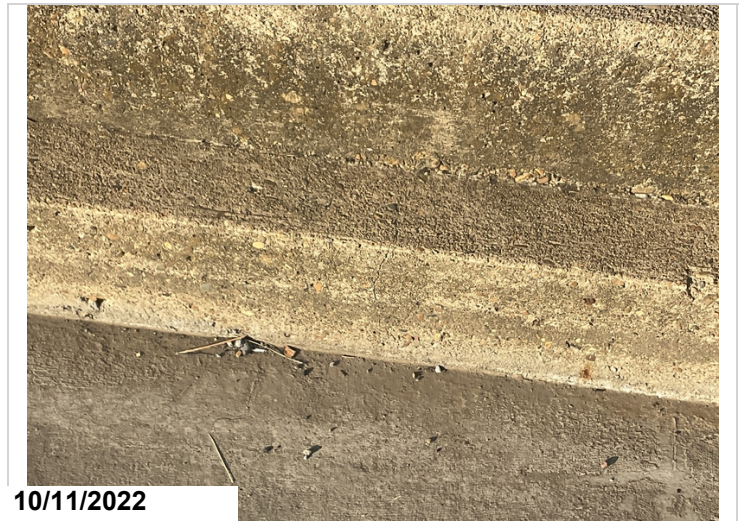
Puncher all the way through bent 2



Cracking in concrete railing various locations



Cracking in concrete railing various locations



Cracking in concrete railing various locations



Cracking in concrete railing various locations



Cracking in concrete railing various locations



Cracking in concrete railing various locations



Cracking in concrete railing various locations



Rebar exposed underside of deck



Rebar exposed underside of deck



Paint peeling



Paint chalking various locations



Paint chalking various locations

Maintenance Needs

Date Reported: 05/03/2011

Priority: D- Routine

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

Status: Assigned

Component:

Deficiency Description

PAINT IS PEELING OFF IN VARIOUS LOCATIONS
ON STEEL BEAMS IN ALL SPANS
all bearings need painted also

Remarks



Paint peeling in various locations



Paint loss on bearings

Maintenance Needs

Date Reported: 05/03/2011

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Open

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

Component:

Deficiency Description

STEEL DIAPHRAM IN
SPAN #4- 3rd BAY 3rd DIAPHRAM
LOOSE CONNECTION AND ONE MISSING BOLT.

Remarks

Reopened to possibly set to monitor



Missing bolt 3rd diaphragm span 4 bay 3

Maintenance Needs

Date Reported: 05/03/2011

Priority: (Inactive) (Inactive) G - General/
Preventive maintenance

Status: Open

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

Component:

Deficiency Description

SPAN 1 DECK DRAINS SPALLS WITH REBAR EXPOSED.

SPAN 2 BAY 2, SPAN 3 BAY 4 SPALLS WITH REBAR ON BOTTOM OF DECK.

Remarks

Reopened to possibly set to monitor



Span 2 all bays spalls with rebar



Span 3 bay 2 spall



Span 3 spalls bottom of deck



Spalls at drains



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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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

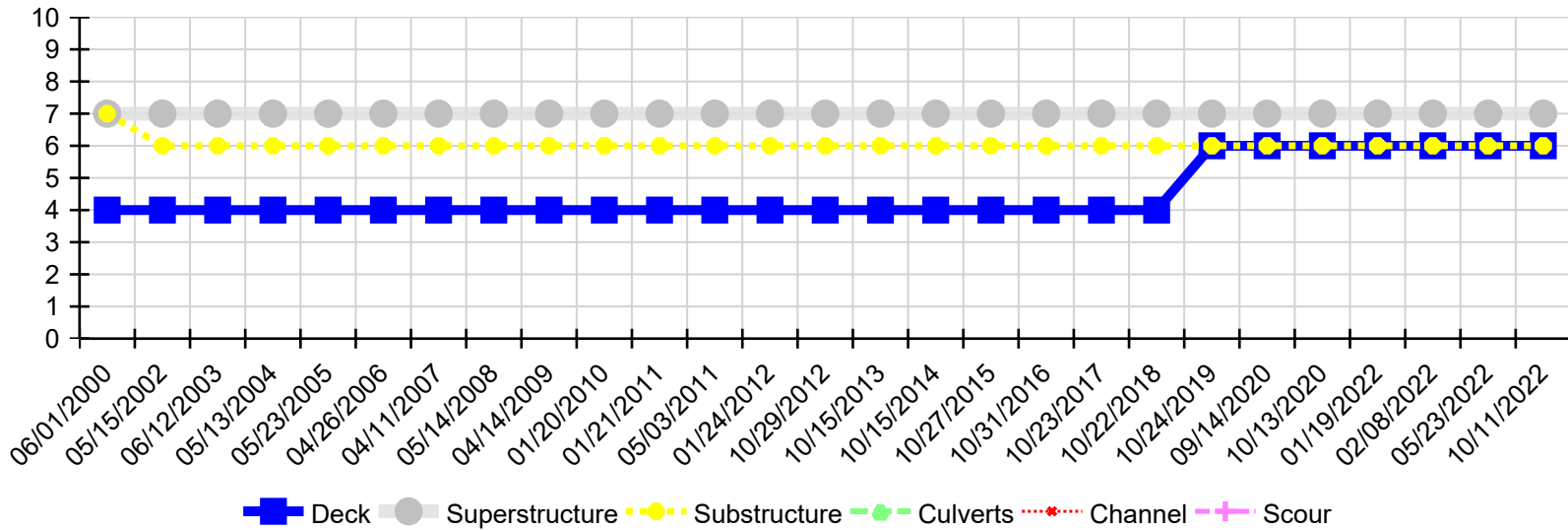


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SH 19-SEC 5-1.80 over I 30-SEC 13-46.19

Location: 1.8 MI NW OF SH 24

Team Lead: John King Inspection Date: 10/11/2022

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/11/2022	6	7	6	N	N	N
05/23/2022	6	7	6	N	N	N
02/08/2022	6	7	6	N	N	N
01/19/2022	6	7	6	N	N	N
10/13/2020	6	7	6	N	N	N
09/14/2020	6	7	6	N	N	N
10/24/2019	6	7	6	N	N	N
10/22/2018	4	7	6	N	N	N
10/23/2017	4	7	6	N	N	N
10/31/2016	4	7	6	N	N	N
10/27/2015	4	7	6	N	N	N
10/15/2014	4	7	6	N	N	N
10/15/2013	4	7	6	N	N	N
10/29/2012	4	7	6	N	N	N
01/24/2012	4	7	6	N	N	N
05/03/2011	4	7	6	N	N	N
01/21/2011	4	7	6	N	N	N
01/20/2010	4	7	6	N	N	N
04/14/2009	4	7	6	N	N	N
05/14/2008	4	7	6	N	N	N
04/11/2007	4	7	6	N	N	N
04/26/2006	4	7	6	N	N	N
05/23/2005	4	7	6	N	N	N
05/13/2004	4	7	6	N	N	N
06/12/2003	4	7	6	N	N	N
05/15/2002	4	7	6	N	N	N
06/01/2000	4	7	7	N	N	N