



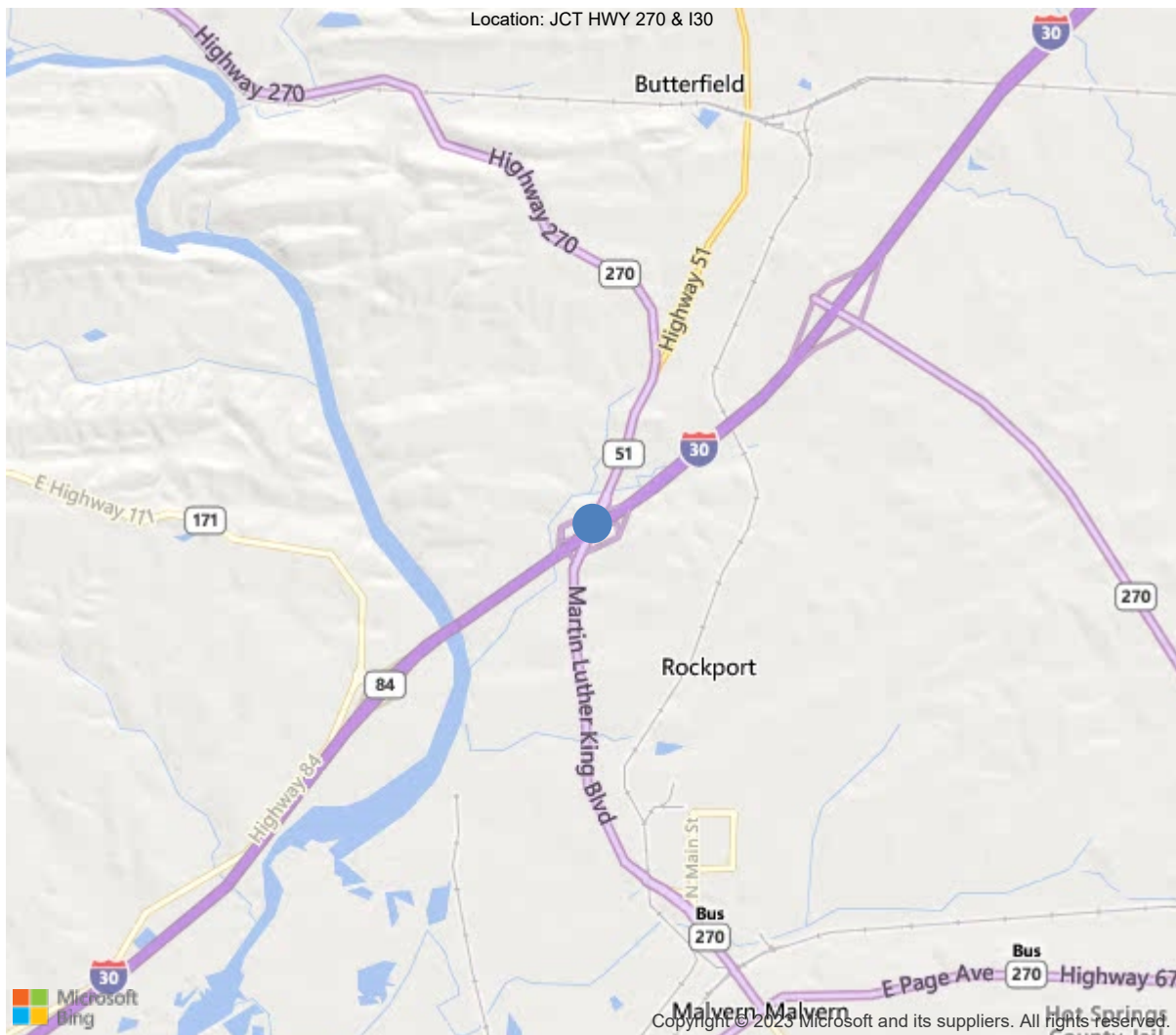
Latitude:34.39752, Longitude:-92.82723

Route:270 Section:07 Log:8.2

Arnold Road ID:30x270x7xA, Arnold Log mile:8.198

District 06, 59 - Hot Spring County

Owner: 1 - State Highway Agency



34.39752, -92.82723



Asset #B3426(Routine)
US 270 E.B. over I-30 Log 97.98
Location: JCT HWY 270 & I30

Team Lead: Chris Doggett, Inspection Date: 07/11/2022

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	B3426
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	59 - Hot Spring County
(4) Place Code	0
(6) Features Intersected	I-30 Log 97.98
(7) Facility Carried	US 270 E.B.
(9) Location	JCT HWY 270 & I30
(11) Mile Point	8.2 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000030210
(16) Latitude	34.39752
(17) Longitude	-92.82723
(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	5
(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	1964
(106) Year Reconstructed	0
(42) Type of Service	61
On	6 - Overpass structure at an interchange or s
Under	1 - Highway, with or without pedestrian
(28) Lane	
On	2
Under	4
(29) Average Daily Traffic	8500
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	1 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	85 ft
(49) Structure Length	427 ft
(50) Curb or Sidewalk Width	
Left	1.5 ft
Right	1.5 ft
(51) Bridge Roadway Width Curb to Curb	27.9 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	30.8 ft
(33) Bridge Median	0 - No median
(34) Skew	60 Deg
(35) Structure Flared	0 - No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	30.8 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	18.16 ft
Ref:	
(55) Min Lat Underclear RT	8.7 ft
Ref:	
(56) Min Lat Underclear LT	6.3 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	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	3
(59) Superstructure	6
(60) Substructure	5
(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	5
(68) Deck Geometry	3
(69) Clearances, Vertical/Horizontal	2
(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	465 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 197
(96) Total Project Cost	\$ 1052
(97) Year of Improvement Cost Estimate	2003
(114) Future ADT	9703
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			07/11/2022
(91) Frequency			24
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No		
B: Underwater Inspection	No		
C: Other Special Inspection			
* 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 #B3426(Routine)

District: 06, County: 59 - Hot Spring County

Team Lead: Chris Doggett, Inspection Date: 07/11/2022

58 - Deck (3)

All spans have numerous open spalls with exposed rebar and numerous concrete and asphalt patches with some patches deteriorating

A-46 - Asset Files

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General Observation (False)

job 6685 dwg 11206b. Logged eastbound.



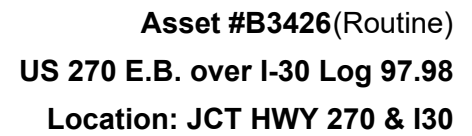
Asset #B3426(Routine)

US 270 E.B. over I-30 Log 97.98

Location: JCT HWY 270 & I30

Team Lead: Chris Doggett, Inspection Date: 07/11/2022

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	12690	8997	3591	102	0
1080	Delamination/Spall/Patched Area	SF	2754	0	2730	24	0
1090	Exposed Rebar	SF	78	0	0	78	0
1130	Cracking (RC and Other)	SF	861	0	861	0	0
(12) All spans have numerous open spalls with exposed rebar and numerous concrete and asphalt patches with some patches deteriorating. Most cracks have been sealed and put back in condition state 1, but there are still unsealed cracks in all spans. Soffit has cracks with efflorescence and 98 square feet of full depth failure.							
107	Steel Open Girder/Beam	LF	2115	1970	120	25	0
1000	Corrosion	LF	145	0	120	25	0
515	Steel Protective Coating	SF	19035	14624	3416	770	225
3410	Chalking (Steel Protective Coatings)	LF	3416	0	3416	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	995	0	0	770	225
(107) Beam ends at bents 2 thru 5 have corrosion at the top of webs in the haunch area. Span 1 beam 3 and span 2 beam 3 have pitting on the bottom of the bottom flange at bent 2. Repainted in the past. The exterior girders are chalky and have lost effectiveness.							
205	Reinforced Concrete Column	EA	12	4	2	6	0
1090	Exposed Rebar	EA	6	0	1	5	0
1130	Cracking (RC and Other)	EA	2	0	1	1	0
(205) Bent 2, columns 2, bent 3 columns 1 thru 3 and bent 4 columns 1 and 2 have spalls with section loss to the reinforcing steel.							
215	Reinforced Concrete Abutment	LF	149	145	2	2	0
1090	Exposed Rebar	LF	2	0	0	2	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(215) Both abutments have vertical cracks and cracks with efflorescence. Bent 1 abutment right of beam 5 has spall with exposed rebar in the back wall.							
234	Reinforced Concrete Pier Cap	LF	224	200	19	5	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	19	0	14	5	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(234) Bent 3 has exposed reinforcing steel on left end of cap and back face.							
311	Movable Bearing	EA	25	0	25	0	0



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1000	Corrosion	EA	17	0	17	0	0
2220	Alignment	EA	8	0	8	0	0
(311) Most bearings are rotated and have active surface rust.							
313	Fixed Bearing	EA	25	0	15	10	0
1000	Corrosion	EA	25	0	15	10	0
(313) The bearings at both abutments have heavy layered rust, all of the others have active surface rust.							
321	Reinforced Concrete Approach Slab	SF	1800	868	912	20	0
1130	Cracking (RC and Other)	SF	62	0	42	20	0
4000	Settlement	SF	870	0	870	0	0
(321) Both approaches have diagonal cracks bent 6 has settled.							
330	Metal Bridge Railing	LF	854	854	0	0	0
331	Reinforced Concrete Bridge Railing	LF	854	774	80	0	0
1130	Cracking (RC and Other)	LF	80	0	80	0	0
(331) Scattered cracks.							



Asset #B3426(Routine)

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Location: JCT HWY 270 & I30

Team Lead: Chris Doggett, Inspection Date: 07/11/2022

Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	12690	8997	3591	102	0
1080	Delamination/Spall/Patched Area	SF	2754	0	2730	24	0
1090	Exposed Rebar	SF	78	0	0	78	0
1130	Cracking (RC and Other)	SF	861	0	861	0	0
(12) All spans have numerous open spalls with exposed rebar and numerous concrete and asphalt patches with some patches deteriorating. Most cracks have been sealed and put back in condition state 1, but there are still unsealed cracks in all spans. Soffit has cracks with efflorescence and 98 square feet of full depth failure.							

58 - Deck (3)

Comment: All spans have numerous open spalls with exposed rebar and numerous concrete and asphalt patches with some patches deteriorating

Team Lead: Chris Doggett, **Inspection Date:** 07/11/2022

Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	2115	1970	120	25	0
1000	Corrosion	LF	145	0	120	25	0
515	Steel Protective Coating	SF	19035	14624	3416	770	225
3410	Chalking (Steel Protective Coatings)	LF	3416	0	3416	0	0
3440	Effectiveness (Steel Protective Coatings)	LF	995	0	0	770	225
<p>(107) Beam ends at bents 2 thru 5 have corrosion at the top of webs in the haunch area. Span 1 beam 3 and span 2 beam 3 have pitting on the bottom of the bottom flange at bent 2. Repainted in the past. The exterior girders are chalky and have lost effectiveness.</p>							



Asset #B3426(Routine)
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Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation



Span 3, column 2: multiple spalls with exposed rebar



Bent 4, column 1: spall with exposed rebar 2022



Soffit view



Deck view



Inventory looking east

Maintenance Needs

Date Reported: 07/28/2016
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Element

Deficiency Description

The columns of bents 2,3,4 and 5 have spalls with exposed rebar.

Remarks



Bent 2, columns 2&3: large spalls with exposed rebar. 2022



Bent 3, column 3: multiple spalls with exposed rebar that has section loss to it.



Bent 5, column 3: 2022





Bent 3 column 2 exposed reinforcing steel.





Bent 2 column 2 deep spall with section loss to steel.



Bent 3 column 3 exposed reinforcing steel.



Date Reported: 07/30/2015
Priority: B - Pressing
Type of Work: (Inactive) (Inactive) 0 - N/A
Status: RepairDocumented
Component:

Deficiency Description

The deck surface has spalls in spans 2 and 4. Photos attached.
Added 7/19/2018 Spans 3 and 5 have spalls also.
Added 7/22/2021 Span 1 spalls in deck.

Remarks

Repaired spalls and sealed cracks



Deck span 3 has spalls with exposed rebar.



Deck span 2 has spalls with exposed rebar.



Deck span 1 has spalls.



Span 4 left lane 3 by 3 spall with exposed reinforcing steel.



Span 4 left lane 3 by 3 spall with exposed reinforcing steel.



Span 2 spalls



Span 5 left lane 2 by 2 spall with exposed
reinforcing steel.



Asset #B3426(Routine)

US 270 E.B. over I-30 Log 97.98

Location: JCT HWY 270 & I30

Team Lead: Chris Doggett, Inspection Date: 07/11/2022

Date Reported: 07/28/2016
Priority: C - Important
Type of Work: Repair (General)
Status: Monitor
Component: Element

Deficiency Description

The bearings at bents 1 and 6 have heavy layered rust.

Remarks





Bent 1 girder 4 bearing has laminating rust.

Date Reported: 07/28/2016
Priority: C - Important
Type of Work: Repair (General)
Status: Assigned
Component: Miscellaneous

Deficiency Description

The concrete slope paving at bent 6 has settled due to joint leakage and runoff. Photo attached.

Remarks



Bent 6 right side slope paving has settled and cracked.



ent 6 Slope paving has settled left side of bridge up to 3".

Date Reported: 07/22/2020
Priority: C - Important
Type of Work: (Inactive) (Inactive) 1 - Clean
Status: Open
Component: Miscellaneous

Deficiency Description

Transient living under bridge.

Remarks



Date Reported: 07/22/2020
Priority: B - Pressing
Type of Work: Repair (General)
Status: Monitor
Component: Approach

Deficiency Description

Left approach guardrail at bent 1 approach all concrete posts are broken.

Remarks

Assigned to Hot Spring County 1/21/2021.



Approach guard rail damaged 2022



Left approach guardrail at bent 1 approach all concrete posts are broken.

Date Reported: 07/12/2022
Priority: C - Important
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Bent 1, beam 5: back wall and wing wall are spalled with exposed rebar.
Concrete is resting atop of bottom flange.

Remarks



Bent 1, beam 5: back wall and wing wall are
spalled with exposed rebar.
Concrete is resting atop of bottom flange.

Date Reported: 07/12/2022
Priority: C - Important
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Bent 2, span 2, beam 3: measurable section loss at the haunch. Similar condition at beam 1

Remarks



Bent 2, span 2, beam 3: measurable section loss at the haunch. Similar condition at beam 1

Date Reported: 07/12/2022
Priority: A - Safety deficiency; requires prompt action
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Span 2, right side of beam 3: delam over right lane of I30 westbound

Remarks



Span 2, right side of beam 3: delam over right lane
of I30 westbound

Date Reported: 07/12/2022
Priority: B - Pressing
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Spalls and spalls with exposed rebar in the deck surface of spans 1, 2, 3, 4 and 5.
All spans also have large spalls in the soffit.

Remarks



Span 3: large spalls in the soffit 2022



Span 5: numerous spalls to the soffit 2022



Span 5: left lane: large open spall in travel lane
with exposed rebar.
2022



Span 4: center line has a deep spall with exposed
rebar.
2022



Span 4: multiple open spalls in the left lane.
2022



Span 3: right lane has large spall with exposed
rebar. 2022



Span 3: left lane has spall with exposed rebar.
2022



Span 2: multiple spalls with exposed rebar. 2022



Span 2: multiple spalls in the left lane.
2022



Span 1: multiple open spalls. 2022



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Routine Maintenance

Check Box Maintenance Items

Data Field	Value
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 - Hydo and LMC Advised	



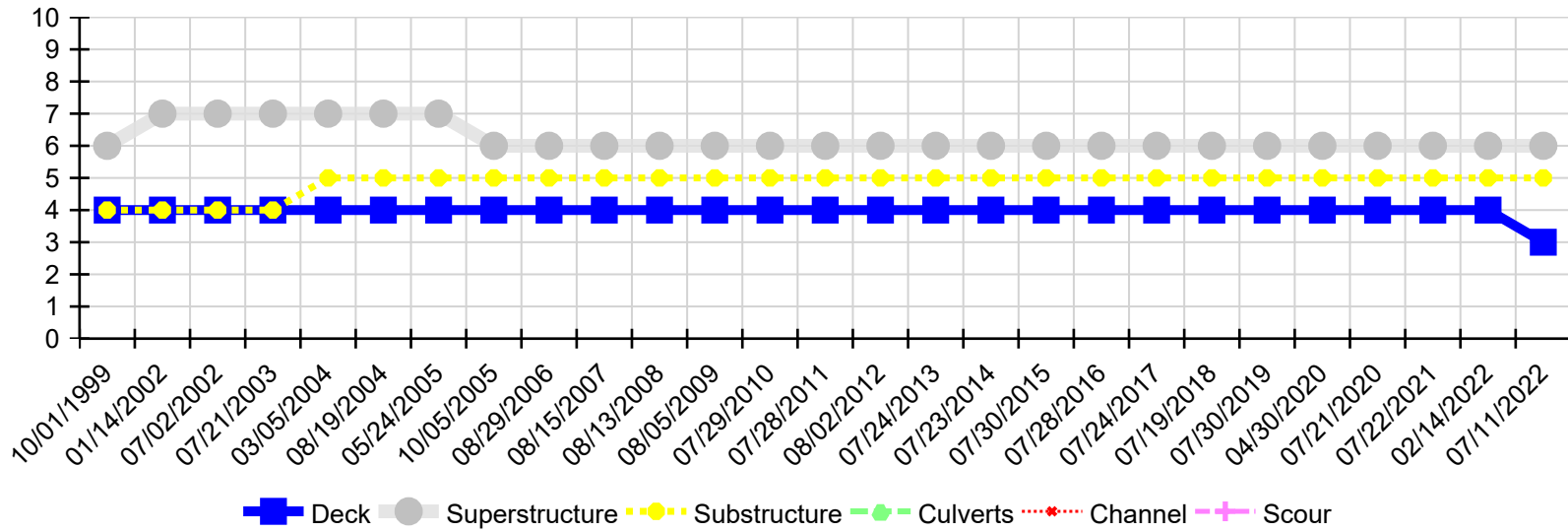
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/11/2022	3	6	5	N	N	N
02/14/2022	4	6	5	N	N	N
07/22/2021	4	6	5	N	N	N
07/21/2020	4	6	5	N	N	N
07/21/2020	4	6	5	N	N	N
04/30/2020	4	6	5	N	N	N
07/30/2019	4	6	5	N	N	N
07/19/2018	4	6	5	N	N	N
07/24/2017	4	6	5	N	N	N
07/28/2016	4	6	5	N	N	N
07/30/2015	4	6	5	N	N	N
07/23/2014	4	6	5	N	N	N
07/24/2013	4	6	5	N	N	N
08/02/2012	4	6	5	N	N	N
07/28/2011	4	6	5	N	N	N
07/29/2010	4	6	5	N	N	N
08/05/2009	4	6	5	N	N	N
08/13/2008	4	6	5	N	N	N
08/15/2007	4	6	5	N	N	N
08/29/2006	4	6	5	N	N	N
10/05/2005	4	6	5	N	N	N
05/24/2005	4	7	5	N	N	N
08/19/2004	4	7	5	N	N	N
03/05/2004	4	7	5	N	N	N
07/21/2003	4	7	4	N	N	N
07/02/2002	4	7	4	N	N	N
01/14/2002	4	7	4	N	N	N



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Team Lead: Chris Doggett, **Inspection Date:** 07/11/2022

Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
10/01/1999	4	6	4	N	N	N