



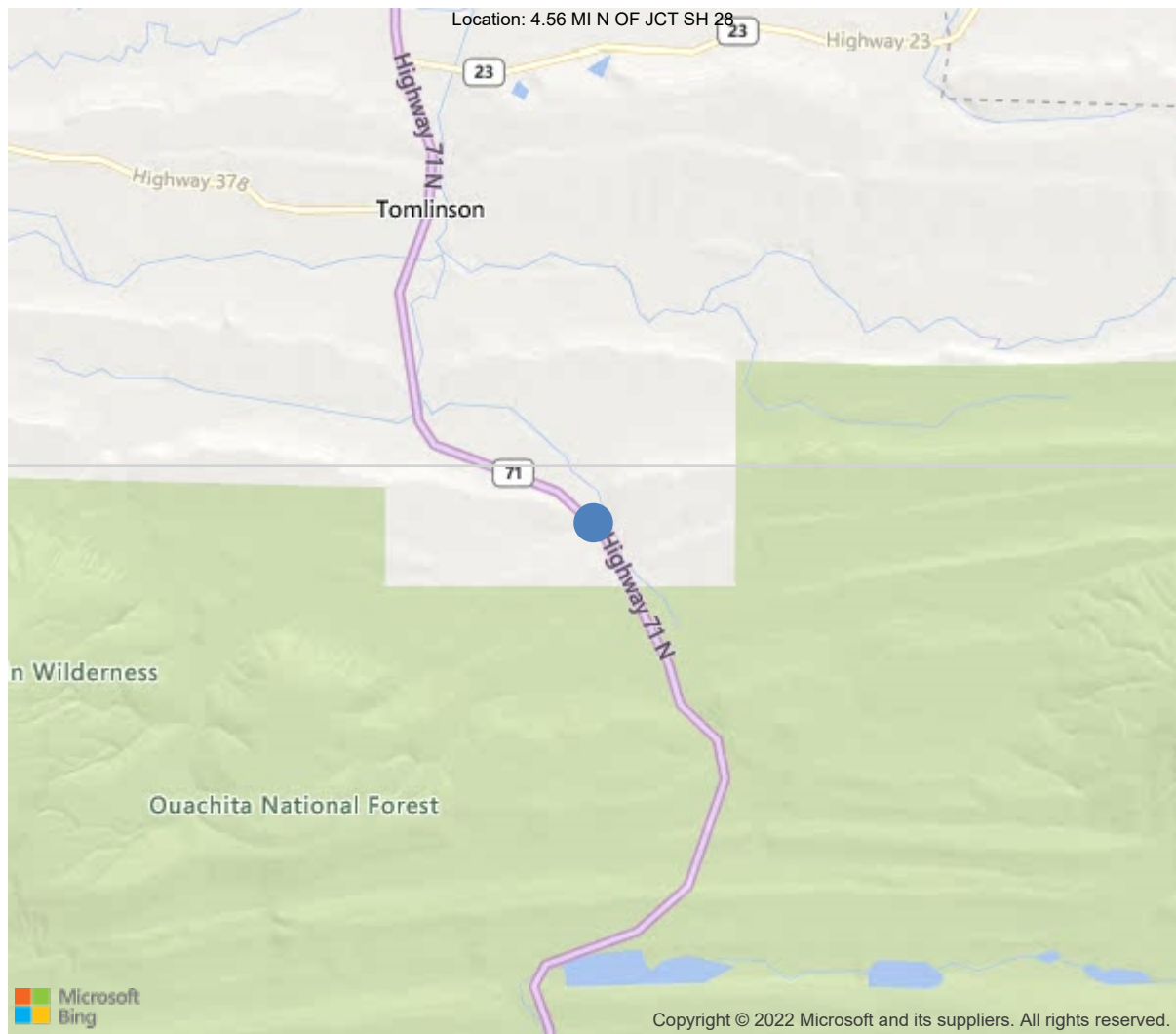
Latitude:34.99590, Longitude:-94.10488

Route:71 Section:10 Log:29.77

Arnold Road ID:63x71x10xA, Arnold Log mile:29.76

District 04, 127 - Scott County

Owner: 1 - State Highway Agency



34.99590, -94.10488



Asset #00321(Routine)

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, Inspection Date: 07/07/2021

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	00321
(5) Inventory Route	1
(2) Highway Agency District	04 - District 04
(3) County Code	127 - Scott County
(4) Place Code	0
(6) Features Intersected	Clear Cr. - Scott Co.
(7) Facility Carried	US Highway 71
(9) Location	4.56 MI N OF JCT SH 28
(11) Mile Point	29.77 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000071100
(16) Latitude	34.9959
(17) Longitude	-94.10488
(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	2 - Integral Concrete (separate non-mo
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1928
(106) Year Reconstructed	1981
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	5500
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	15 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	80 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	44 ft
(52) Deck Width Out to Out	46.8 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 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	45.3 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 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	1
(26) Functional Class	2 - Rural Principal Arterial -
(100) Defense Highway	2 - The inventory route is on
(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	1 - The inventory route is par
(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	6
(60) Substructure	5
(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	54
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	33
(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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(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	8 - 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	6954
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	07/07/2021		
(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 #00321(Routine)

District: 04, County: 127

Team Lead: Jeff Jones, Inspection Date: 07/07/2021

A-46 - Asset Files

-

General Observation (False)

07/97/2021 - JCJ & TJL - Routine Inspection conducted this date.

06/25/2019 - EJW & JPW - Underwater Type II Inspection conducted on this date. Wading and probing indicates the footings have cover with no apparent scour problems at this inspection.



Asset #00321 (Routine)

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, Inspection Date: 07/07/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1170	1135	33	2	0
1080	Delamination/Spall/Patched Area	SF	1	0	0	1	0
1090	Exposed Rebar	SF	1	0	0	1	0
1120	Efflorescence/Rust Staining	SF	9	0	9	0	0
1130	Cracking (RC and Other)	SF	24	0	24	0	0
510	Wearing Surfaces	SF	1170	59	1101	10	0
3210	Delam/Spall/Patched Area/Pothole	SF	11	0	1	10	0
3220	Crack (Wearing Surface)	SF	1100	0	1100	0	0
(16) Deck wearing surface- -The original portions of the deck have a rigid concrete overlay. -Driving surface of the deck has map cracking. State maintenance forces have sealed the cracks in the driving surface with epoxy in the past. -There are additional cracks in the driving surface of the deck that are not sealed. -There is a 3' previously repaired area in the Northwest corner of the deck that is breaking apart. -The transverse construction joint over Bent # 2 has deteriorated sealant with vegetation growing in the gutters. Deck Soffit- -There are a few transverse and diagonal cracks at variable spacing that are visible from the undersurface of the deck. Some minor efflorescence is visible from the undersurface of the deck. -Span # 1, Bay # 1, Bent # 2 expansion dam haunch is spalled with exposed reinforcing steel. (510-16) Wearing surface is breaking apart over Bents # 3 and 4.							
38	RC Slab	SF	2674	2257	417	0	0
1080	Delamination/Spall/Patched Area	SF	23	0	23	0	0
1120	Efflorescence/Rust Staining	SF	9	0	9	0	0
1130	Cracking (RC and Other)	SF	385	0	385	0	0
(38) -Minor cracking on the driving surface of the slabs. -Some cracking has been sealed by maintenance forces in the past. Slab Soffit- -The undersurface of the deck along the exterior edges have delaminated areas in the widened slab span portions of the deck.							
110	Reinforced Concrete Open Girder/Beam	LF	180	160	20	0	0
1120	Efflorescence/Rust Staining	LF	12	0	12	0	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0
(110) -There are a few isolated vertical hairline cracks in the deck girders.							
205	Reinforced Concrete Column	EA	12	5	6	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0



Asset #00321 (Routine)

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, Inspection Date: 07/07/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1190	Abrasion/Wear (PSC/RC)	EA	5	0	5	0	0
(205) -The Span # 2 side of Bent # 2, Column # 4 has concrete deterioration with exposed primary reinforcing steel in the top 3' of column. The exposed reinforcing steel has active corrosion with approximately 1/8" of section loss. -The base of Bent # 2, Columns # 3 & 4 have medium abrasion and concrete section loss. -Bent # 2 Column # 3 has vertical cracking along the edge.							
215	Reinforced Concrete Abutment	LF	154	128	14	12	0
1080	Delamination/Spall/Patched Area	LF	7	0	4	3	0
1090	Exposed Rebar	LF	6	0	0	6	0
1120	Efflorescence/Rust Staining	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	9	0	6	3	0
(215) -Bent # 1 has map and diagonal cracks, spalls with exposed reinforcing steel, and delaminated areas adjacent to the exterior girders. There is up to 1/8" section loss to the exposed reinforcing steel. -Bent # 1 has a full height vertical crack at center line under Girder # 2. -There is One 2' x 1' x 6" deep spall with exposed reinforcing steel at the top of abutment, left of Girder # 1. -There is One 2' x 1' x 3" deep spall with exposed reinforcing steel at the top of abutment, right of Girder # 3. -Bent # 4 has vertical cracking on the left side of abutment at the construction joint. (Original wing wall juncture) -Bent # 4 has horizontal crack approximately 10" below the top of the breast wall. -Bent # 4 has one vertical crack located approximately 2' right of centerline.							
220	Reinforced Concrete Pile Cap/Footing	LF	218	218	0	0	0
(220) -Footings have cover during this inspection.							
234	Reinforced Concrete Pier Cap	LF	95	75	10	10	0
1080	Delamination/Spall/Patched Area	LF	10	0	7	3	0
1090	Exposed Rebar	LF	7	0	0	7	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
(234) -Bents # 2 and 3 have shallow spalls with exposed reinforcing steel (stirrups) at the undersurface of the caps. Reinforcing steel appears to have initial section loss and has very little concrete cover from the construction process. -Bent # 2 has one 12" spalled area in the haunch under Girder # 3. -Girder haunch spall with exposed reinforcing steel in Span # 1 side of Girder # 3 in Bent # 2 cap. -Bent # 2 has a basketball sized spalled area adjacent to the exterior edges of Girder # 3 on the Span # 2 side, a 36" long delamination/spall adjacent to Girder # 1 and a 12" delamination adjacent to Girder # 1 Span # 1. Bent # 3 has staining in the right side of the cap and cracking in proximity to the construction joint where the structure was widened.							
301	Pourable Joint Seal	LF	88	1	40	47	0
2310	Leakage	LF	65	0	40	25	0
2350	Debris Impaction	LF	22	0	0	22	0
(301) -Dirt and vegetation growing in the joints along the shoulders.							
331	Reinforced Concrete Bridge Railing	LF	160	152	8	0	0
1130	Cracking (RC and Other)	LF	8	0	8	0	0

Asset #00321(Routine)
US Highway 71 over Clear Cr. - Scott Co.
Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, **Inspection Date:** 07/07/2021

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
	(331) -Insignificant scrape marks. -Parapets have a few hairline vertical cracks.						

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, Inspection Date: 07/07/2021

Deck

[illegible]

Asset #00321(Routine)
US Highway 71 over Clear Cr. - Scott Co.

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, Inspection Date: 07/07/2021

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	12	5	6	1	0
1090	Exposed Rebar	EA	1	0	0	1	0
1130	Cracking (RC and Other)	EA	1	0	1	0	0
1190	Abrasion/Wear (PSC/RC)	EA	5	0	5	0	0
(205) -The Span # 2 side of Bent # 2, Column # 4 has concrete deterioration with exposed primary reinforcing steel in the top 3' of column. The exposed reinforcing steel has active corrosion with approximately 1/8" of section loss. -The base of Bent # 2, Columns # 3 & 4 have medium abrasion and concrete section loss. -Bent # 2 Column # 3 has vertical cracking along the edge.							
215	Reinforced Concrete Abutment	LF	154	128	14	12	0
1080	Delamination/Spall/Patched Area	LF	7	0	4	3	0
1090	Exposed Rebar	LF	6	0	0	6	0
1120	Efflorescence/Rust Staining	LF	4	0	4	0	0
1130	Cracking (RC and Other)	LF	9	0	6	3	0
(215) -Bent # 1 has map and diagonal cracks, spalls with exposed reinforcing steel, and delaminated areas adjacent to the exterior girders. There is up to 1/8" section loss to the exposed reinforcing steel. -Bent # 1 has a full height vertical crack at center line under Girder # 2. -There is One 2' x 1' x 6" deep spall with exposed reinforcing steel at the top of abutment, left of Girder # 1. -There is One 2' x 1' x 3" deep spall with exposed reinforcing steel at the top of abutment, right of Girder # 3. -Bent # 4 has vertical cracking on the left side of abutment at the construction joint. (Original wing wall juncture) -Bent # 4 has horizontal crack approximately 10" below the top of the breast wall. -Bent # 4 has one vertical crack located approximately 2' right of centerline.							
220	Reinforced Concrete Pile Cap/Footing	LF	218	218	0	0	0
(220) -Footings have cover during this inspection.							
234	Reinforced Concrete Pier Cap	LF	95	75	10	10	0
1080	Delamination/Spall/Patched Area	LF	10	0	7	3	0
1090	Exposed Rebar	LF	7	0	0	7	0
1130	Cracking (RC and Other)	LF	3	0	3	0	0
(234) -Bents # 2 and 3 have shallow spalls with exposed reinforcing steel (stirrups) at the undersurface of the caps. Reinforcing steel appears to have initial section loss and has very little concrete cover from the construction process. -Bent # 2 has one 12" spalled area in the haunch under Girder # 3. -Girder haunch spall with exposed reinforcing steel in Span # 1 side of Girder # 3 in Bent # 2 cap. -Bent # 2 has a basketball sized spalled area adjacent to the exterior edges of Girder # 3 on the Span # 2 side, a 36" long delamination/spall adjacent to Girder # 1 and a 12" delamination adjacent to Girder # 1 Span # 1. Bent # 3 has staining in the right side of the cap and cracking in proximity to the construction joint where the structure was widened.							



Asset #00321(Routine)

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, Inspection Date: 07/07/2021

Culvert

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4



Elevation.



Approach roadway facing South.



Deck. Typical.



Span # 1 Deck soffit. Typical.



Bent # 2 Span # 2 Column # 4 spalling with exposed reinforcing steel.



Bent # 1 Lt spalling in the bearing area.



Span # 1 Rt longitudinal construction joint missing sealant.



Dirt and vegetation in the deck joints along the gutters.



Bent # 1 at Girder # 1 spalling with exposed reinforcing steel in the bearing area.



Span # 1 Girder # 1 at Bent # 2 cracking in the cap haunch and Bay # 1 spalling in the deck haunch with exposed reinforcing steel.



Span # 1 map cracks.



Bent # 2 Column # 4 vertical cracking at the cap juncture.



Bent # 2 Span # 2 adjacent to Girder # 1 spalling.



Spalling in the wearing surface over Bent # 3.



Bent # 4 Lt failing repair.



Span # 3 typical undersurface of the slab.



Bent # 2 joint seal.



Typical driving surface of the deck.



Bent # 2 Girder # 3 spalling with exposed reinforcing steel in the cap haunch.



Bent # 2 Rt widened portion of cap with spalling that exposes reinforcing steel on the cap under surface at both ends.



Bent # 1 adjacent to Girder # 3 spalling with exposed reinforcing steel.



Span 2 typical undersurface of the deck.



Elevation



Bent # 1 vertical cracking at the centerline.



Roadway



Deck over Bent # 3. Typical.



Deck. Span # 1. Typical.



Span # 1 deck soffit.



Driving surface of Span # 1. Typical.



Driving surface of Span # 2 over Bent # 3. Typical.



Slab. Typical.



Span # 3 slab soffit. Delaminated area.



Span # 3 slab soffit.



Span # 3 slab soffit. Typical.



Delaminated area. Right side of Span # 3 slab soffit.



Span # 1 superstructure. Typical.



Span # 2 superstructure. Typical.



Bent # 2. Columns # 3, 4, & 5.



Bent # 2. Column # 4. Ahead face. Spalling with exposed reinforcing steel.



Bent # 2. Column # 4 ahead face.



Left side of Bent # 1.



Right side of Bent # 1. Typical.



Bent # 4. Left end. Typical.



Bent # 4 right end. Typical.



Bent # 2 Left. Typical.



Bent # 2 Right. Typical.



Bent # 2. Back face. Girder # 3 spall in haunch.



Bent # 2. Back face. Girder # 1 haunch.



Undersurface of Bent # 2 Cap. Right end.



Bent # 3 back face. Typical. Left end of bent.



Bent # 3. Right end of bent.



Expansion joint over Bent # 2. Vegetation growing in the joint.



Parapet. Typical.



Asset #00321(Routine)

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, **Inspection Date:** 07/07/2021

Maintenance Needs

Date Reported: 07/27/2015
Priority: C - Important
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Substructure

The substructure has numerous areas of spalling with exposed reinforcing steel. The most extreme case is Bent # 2 Column # 4 which has concrete spalling in the upper 3' portion of the column with exposed primary reinforcing steel. Exposed reinforcing steel has active corrosion and approximately 1/8" section loss.

Remarks



Bent # 2. Cap, span # 2 side. Spall in Column # 4.



Bent # 2 Span # 2 Column # 4 spalling with exposed reinforcing steel.



Bent # 2. Column # 4 concrete section loss.



Bent # 2. Column # 4. Exposed reinforcing steel.

Date Reported: 07/27/2015
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Deck

The deck haunch in span # 1 at bent # 2 between beams # 1 and # 2 has spalling with exposed reinforcing steel.

Remarks



Span # 1 Girder # 1 at Bent # 2 cracking in the cap haunch and Bay # 1 spalling in the deck haunch with exposed reinforcing steel.



Span # 1 expansion dam over Bent # 2. Spall with exposed reinforcing steel.

Date Reported: 07/27/2015
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Substructure

Beam # 3 haunch in Span # 1 at Bent # 2 has spalling with exposed reinforcing steel on the interior vertical face of haunch.

Remarks



Bent # 2 Girder # 3 spalling with exposed reinforcing steel in the cap haunch.



Bent # 2. Span # 1 Girder # 3 haunch. Spall with exposed reinforcing steel.



Asset #00321(Routine)

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, **Inspection Date:** 07/07/2021

Date Reported: 07/27/2015
Priority: C - Important
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Driving Surface

A repair is breaking apart in the Northwest corner of the deck.
Wearing surface breaking apart over Bent # 3.

Remarks



Bent # 4 Lt failing repair.



Driving surface of Span # 3 Northwest corner.



Asset #00321(Routine)

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, Inspection Date: 07/07/2021



Date Reported: 06/25/2019
Priority: D- Routine
Type of Work: Repair (General)
Status: Open
Component: Element

Deficiency Description

Deck

The poured joint sealant is deteriorated and missing in areas.

Remarks



Span # 1 Rt longitudinal construction joint missing sealant.



Asset #00321(Routine)

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, **Inspection Date:** 07/07/2021

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	



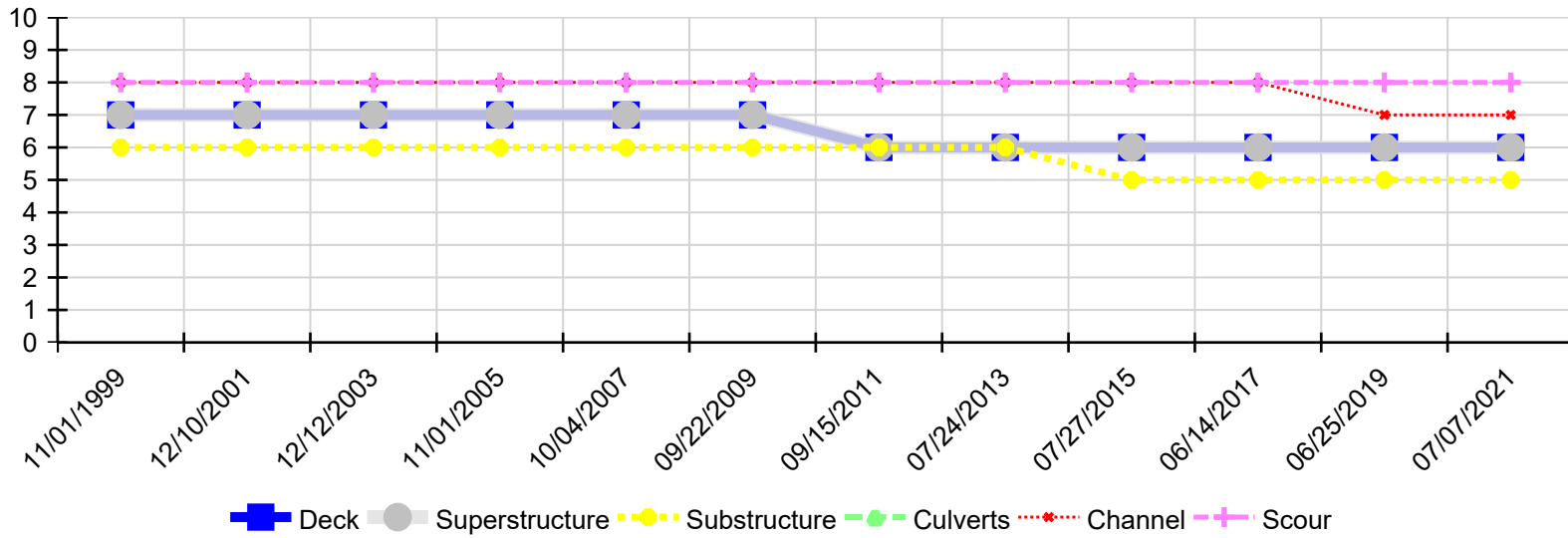
Asset #00321 (Routine)

US Highway 71 over Clear Cr. - Scott Co.

Location: 4.56 MI N OF JCT SH 28

Team Lead: Jeff Jones, Inspection Date: 07/07/2021

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/07/2021	6	6	5	N	7	8
06/25/2019	6	6	5	N	7	8
06/14/2017	6	6	5	N	8	8
07/27/2015	6	6	5	N	8	8
07/24/2013	6	6	6	N	8	8
09/15/2011	6	6	6	N	8	8
09/22/2009	7	7	6	N	8	8
10/04/2007	7	7	6	N	8	8
11/01/2005	7	7	6	N	8	8
12/12/2003	7	7	6	N	8	8
12/10/2001	7	7	6	N	8	8
11/01/1999	7	7	6	N	8	8