

## Bridge 05671 Inspection Report



Latitude:35.03163, Longitude:-91.80360

Route:13 Section:12 Log:0.1

Arnold Road ID:73x13x12xA, Arnold Log mile:0.085

District 05, 145 - White County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

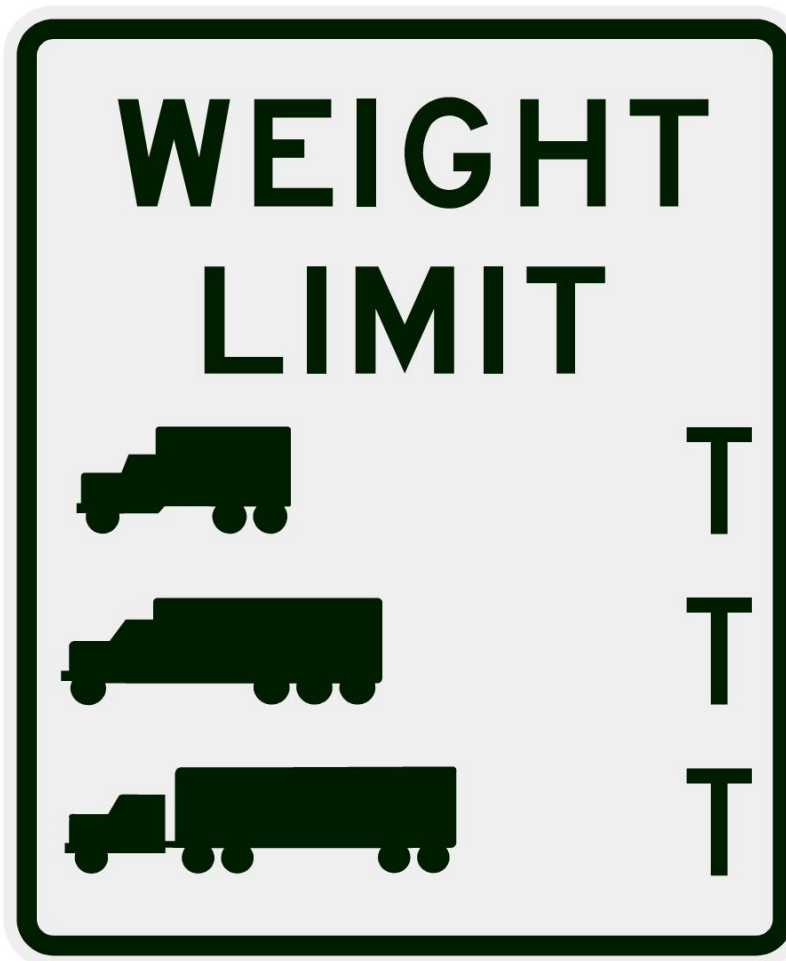
### Bridge Posting Information

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

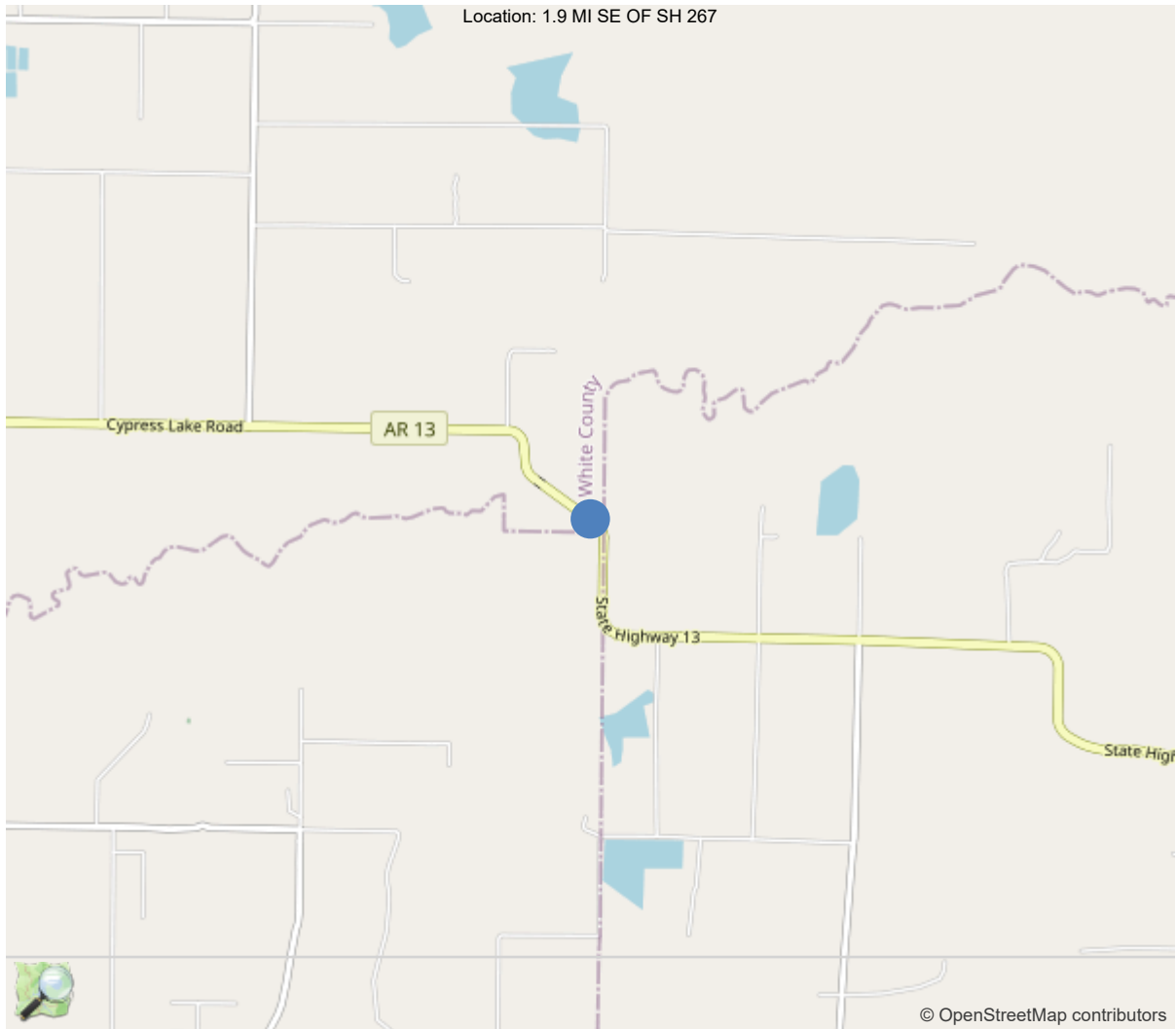
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	49		
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



35.03163, -91.80360



## National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	05671
(5) Inventory Route	1
(2) Highway Agency District	05 - District 05
(3) County Code	145 - White County
(4) Place Code	0
(6) Features Intersected	CYPRESS CREEK RELIEF
(7) Facility Carried	SH 13 White County
(9) Location	1.9 MI SE OF SH 267
(11) Mile Point	0.1 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.03163
(17) Longitude	-91.8036
(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	10
(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	1978
(106) Year Reconstructed	0
(42) Type of Service	15
On	1 - Highway
Under	5 - Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	670
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	13 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	250 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.7 ft
(32) Approach Roadway Width (W/Shoulders)	24 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	25.3 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	0
(26) Functional Class	7 - Rural Major Collector
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exists
(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 structure
(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	7
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2 - M 13.5 / H 15
(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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	1 - Inspected feature meets current
(36C) Approach Guardrail	0 - Inspected feature does not meet
(36D) Approach Guardrail Ends	1 - Inspected feature meets current
(113) Scour Critical Bridges	5 - 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	813
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			06/18/2024
(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		
<p>* 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.</p>			



Team Lead: Seth Foreman, Inspection Date: 06/18/2024

### Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	05671
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	M3687
B.W.01 Year Built	1978

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	145 - White County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	05 - District 05
B.L.05 Latitude	35.03163
B.L.06 Longitude	-91.8036
B.L.07 Border Bridge Number	
B.L.08 Border Bridge State or Country Code	
B.L.09 Border Bridge Insp. Resp.	
B.L.10 Border Bridge Designated Lead State	
B.L.11 Bridge Location	1.9 MI SE OF SH 267
B.L.12 Metropolitan Planning Organization	

CLASSIFICATION	
B.CL.01 Owner	S01 - State transportation departme
B.CL.02 Maint. Responsibility	S01 - State transportation departme
B.CL.03 Federal or Tribal Land Access	N - Not Applicable
B.CL.04 Historic Significance	N - Bridge is not eligible for the
B.CL.05 Toll	N - Bridge does not carry a toll ro
B.CL.06 Emergency Evacuation Designation	

ROADSIDE HARDWARE	
B.RH.01A Bridge Railing Type	
B.RH.01B Bridge Railing Year (YY)	
B.RH.01C Bridge Railing Test Level	
B.RH.02A Transition Type	
B.RH.02B Transition Year (YY)	
B.RH.02C Transition Test Level	

BRIDGE GEOMETRY	
B.G.01 NBIS Bridge Length	250
B.G.02 Total Bridge Length	250
B.G.03 Max Span Length	24.9
B.G.04 Min Span Length	25
B.G.05 Bridge Width Out-to-Out	26.6
B.G.06 Bridge Width Curb-to-Curb	24
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	24

B.G.10 Bridge Median	0 - No median
B.G.11 Skew	0
B.G.12 Curved Bridge	N - Not curved
B.G.13 Max Bridge Height	14
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	6643.7

LOADS AND LOAD RATING	
B.LR.01 Design Load	H15 - H-15
B.LR.02 Design Method	
B.LR.03 Load Rating Date	
B.LR.04 Load Rating Method	LFR - Load Factor Rating
B.LR.05 Inventory Load Rating Factor	1
B.LR.06 Operating Load Rating Factor	1.67
B.LR.07 Controlling Legal Load Rating Factor	
B.LR.08 Routine Permit Loads	

INSPECTION REQUIREMENTS	
B.IR.01 NSTM Inspection Required	N - NSTM inspection not required.
B.IR.02 Fatigue Details	N - No E/E' details
B.IR.03 UW Inspection Required	N - Underwater inspection not requi
B.IR.04 Complex Feature	N - Bridge does not have complex fe

COMPONENT CONDITION RATINGS	
B.C.01 Deck Condition Rating	6 - SATISFACTORY - Widespread
B.C.02 Superstructure Condition	7 - GOOD - Some minor defects.
B.C.03 Substructure Condition	7 - GOOD - Some minor defects.
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	8 - VERY GOOD - Some inherent
B.C.06 Bridge Railing Transitions Condition	N - NOT APPLICABLE - Component
B.C.07 Bridge Bearings Cond.	N - NOT APPLICABLE - Component
B.C.08 Bridge Joints Condition	6 - SATISFACTORY - Widespread
B.C.09 Channel Condition Rating	7 - GOOD - Some minor defects.
B.C.10 Channel Protection Condition	7 - GOOD - Some minor defects.
B.C.11 Scour Condition Rating	7 - Some minor scour.
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	6 - SATISFACTORY - Widespread
B.C.14 NSTM Insp. Condition	N - NOT APPLICABLE - Component
B.C.15 UW Inspection Condition	

APPRAISAL	
B.AP.01 Approach Roadway Alignment	G - Good
B.AP.02 Overtopping Likelihood	1 - Remote - once every 100 years o
B.AP.03 Scour Vulnerability	AB-T - TEMP - Stable for scour, pos
B.AP.04 Scour Plan of Action	0 - A scour POA is not required.
B.AP.05 Seismic Vulnerability	0 - Seismic evaluation not complete

Team Lead: Seth Foreman, Inspection Date: 06/18/2024

SPAN SETS			
<b>M1</b>			
B.SP.02 # of Spans	10	B.SP.08 Deck Interaction	IM - Integral or monolithic
B.SP.03 # of Beam Lines	1	B.SP.09 Deck Material and Type	C01 - Reinforced concrete - ca
B.SP.04 Span Material	C01 - Reinforced concrete - ca	B.SP.10 Wearing Surface	C01 - Concrete - monolithic
B.SP.05 Span Continuity	1 - Simple or single span	B.SP.11 Deck Protective System	0 - None
B.SP.06 Span Type	S01 - Slab - solid	B.SP.12 Deck Reinforcing Protective System	0 - None
B.SP.07 Span Protective System	0 - None	B.SP.13 Deck Stay-In-Place Forms	0 - None

SUBSTRUCTURE SETS			
<b>A1</b>			
B.SB.02 No. of Substructure Units	2	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
<b>P1</b>			
B.SB.02 No. of Substructure Units	9	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	PX - Pile - other
B.SB.04 Substructure Type	B03 - Bent - pile	B.SB.07 Foundation Protective System	0 - None

HIGHWAY FEATURES			
<b>H1</b>			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	670
B.F.03 Feature Name	SH 13 White County	B.H.10 Annual ADTT	6
B.H.01 Functional Classification	5 - Major Collector	B.H.11 Year of Annual ADT	2018
B.H.02 Urban Code	99999	B.H.12 Highway Max Usable Vertical Clearance	99.9
B.H.03 NHS Designation	N - Non-NHS	B.H.13 Highway Min Vertical Clearance	99.9
B.H.04 National Highway Freight Network	N - Not on the NHFN	B.H.14 Highway Min Horizontal Clearance, Left	
B.H.05 STRAHNET Designation	N - Not a STRAHNET route	B.H.15 Highway Min Horizontal Clearance, Right	
B.H.06 LRS Route ID		B.H.16 Highway Max Usable Surface Width	25.2
B.H.07 LRS Mile Point	0.1	B.H.17 Bypass Detour Length	13
B.H.08 Lanes On Highway	2	B.H.18 Crossing Bridge Number	

HIGHWAY ROUTES					
Highway Parent	B.RT.01 Route Designation	B.RT.02 Route Number	B.RT.03 Route Direction	B.RT.04 Route Type	B.RT.05 Service Type
H1	1	13	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline

Team Lead: Seth Foreman, Inspection Date: 06/18/2024

## WATERWAY FEATURES

W1

B.F.02 Feature Location	B - Below bridge	B.N.03 Movable Bridge Max Navigation Vertical Clearance	
B.F.03 Feature Name	CYPRESS CREEK RELIEF	B.N.04 Navigation Channel Width	
B.N.01 Navigable Waterway	N - Not navigable waters	B.N.05 Navigation Channel Min Horizontal Clearance	
B.N.02 Navigation Min Vertical Clearance		B.N.06 Substructure Navigation Protection	

## POSTING STATUS DATA

B.PS.01 Load Posting Status	B.PS.02 Posting Status Change Date
PO - Permanent and Open	

## LOAD EVALUATION AND POSTING

B.EP.01 Legal Load Configuration	B.EP.02 Legal Load Rating Factor	B.EP.03 Posting Type	B.EP.04 Posting Value
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Asset #05671(Routine)

SH 13 White County over CYPRESS CREEK RELIEF

Location: 1.9 MI SE OF SH 267

Team Lead: Seth Foreman Inspection Date: 06/18/2024

## Inspection Notes

### General Observation

Elevation with Log Mile going to the Right.  
Construction Job 5696

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

Overall deck is in satisfactory condition with transverse and longitudinal cracks to deck at all spans.

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

Overall substructure is in good condition with scour to Abutment 1 With 2 piles exposed.

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### A-42 - Load rater ((Inactive) (Inactive) 7 - Dennis Vire)

This load rating was performed in 2018 by DLV. There has not been another inspection since the 2018 Load Rating. The data for the SU4, SU5, and SU6 trucks has been added to InspectX and the load rating files have been uploaded.

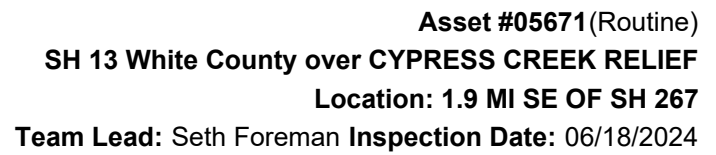
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### A-51 - Inspection Direction (2 - S to N)

Roadway with Log Mile running Southeast to Northwest.

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## Inspection Photos and Notes



Elevation with log mile going right.



Inventory.



Span 10, Left, Undersurface: 7' of delaminated areas. CS3  
2'. CS2 5'.



Piles: Minor abrasion throughout the structure. CS2.





Span 3: Spalling. CS3.



Spans 2 & 3, Left: Diagonal cracking.



Span 1: Spalling.



Span 6, Right Bridge Railing: Spalling with exposed reinforcing steel. CS2.



Typical deck.



### Maintenance Needs

Date Reported: 06/23/2014

Priority: C - Important

Type of Work: Joint Repair

Status: Monitor

Component: Deck

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### Deficiency Description

Poured joint seals are cracked, deteriorated & leak.

### Remarks

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Poured joint seals are cracked, deteriorated & leak.



Poured joint seals are cracked, deteriorated & leak.

### Maintenance Needs

**Date Reported:** 06/29/2012

**Priority:** D- Routine

**Type of Work:** Substructure Repair

**Status:** Monitor

**Component:** Substructure

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### Deficiency Description

Scour under Abutment 1 with 2 piles exposed.

### Remarks

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Settlement under Abutment 1 with 2 piles exposed.

### Maintenance Needs

Date Reported: 06/29/2012

Priority: D- Routine

Type of Work: Deck Repair

Status: Monitor

Component: Deck

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### Deficiency Description

Vertical efflorescent cracks to outside edge of deck at Spans 1, 2, & 3.

### Remarks

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Vertical efflorescent cracks to outside edge of deck at Spans 1, 2, & 3.



Vertical efflorescent cracks to outside edge of deck at Spans 1, 2, & 3.



Vertical efflorescent cracks to outside edge of deck at Spans 1, 2, & 3.



### Maintenance Needs

Date Reported: 06/29/2012

Priority: D- Routine

Type of Work: Deck Repair

Status: Monitor

Component: Deck

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### Deficiency Description

Spall/Areas of delamination to Left & Right edges of soffit at Spans 1-6 & 8-10.

### Remarks

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Spall/Areas of delamination to Left & Right edges of soffit at Spans 1-6 & 8-10.  
Lt side, span 1



Spall/Areas of delamination to Left & Right edges of soffit at Spans 1-6 & 8-10.  
Span 3



Large delam to rt edge of soffit @ span 2.

### Maintenance Needs

**Date Reported:** 06/29/2012

**Priority:** D- Routine

**Type of Work:** Approach Leveling/Maintenance

**Status:** Monitor

**Component:** Approach

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### Deficiency Description

Visible settlement to approach roadway at Abutment 1.

### Remarks

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06/04/2020

Visible settlement to approach roadway at Abutment 1.

**Maintenance Needs**

**Date Reported:** 06/29/2012

**Priority:** D- Routine

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

**Status:** Monitor

**Component:**

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**Deficiency Description**

Spalls to cap with rebar exposed at Bents 1, 2, 3, 4, & 5.

**Remarks**

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Spalls to cap with rebar exposed at Bents 1, 2, 3, 4, & 5.  
Bent 3, between piles 3 & 4



Spalls to cap with rebar exposed at Bents 1, 2, 3, 4, & 5.



### Maintenance Needs

**Date Reported:** 06/05/2020

**Priority:** D- Routine

**Type of Work:** Repair (General)

**Status:** Monitor

**Component:** Bridge

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### Deficiency Description

Vegetation to Lt & Rt sides @ spans 4-7.

### Remarks

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Vegetation to Lt & Rt sides @ spans 4-7.



Vegetation to Lt & Rt sides @ spans 4-7.



Vegetation to Lt & Rt sides @ spans 4-7.



## 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	No
A-65 - Clogged deck drains?	
A-66 - Approach minor pothole/leveling needed	

**A-54 - Sealable Deck Cracks (No)**

**A-55 - Deck Washing Needed (No)**

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



**Asset #05671**(Routine)

**SH 13 White County over CYPRESS CREEK RELIEF**

**Location: 1.9 MI SE OF SH 267**

**Team Lead: Seth Foreman Inspection Date: 06/18/2024**

**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 (No)**

**A-65 - Clogged deck drains?**





**Asset #05671**(Routine)

**SH 13 White County over CYPRESS CREEK RELIEF**

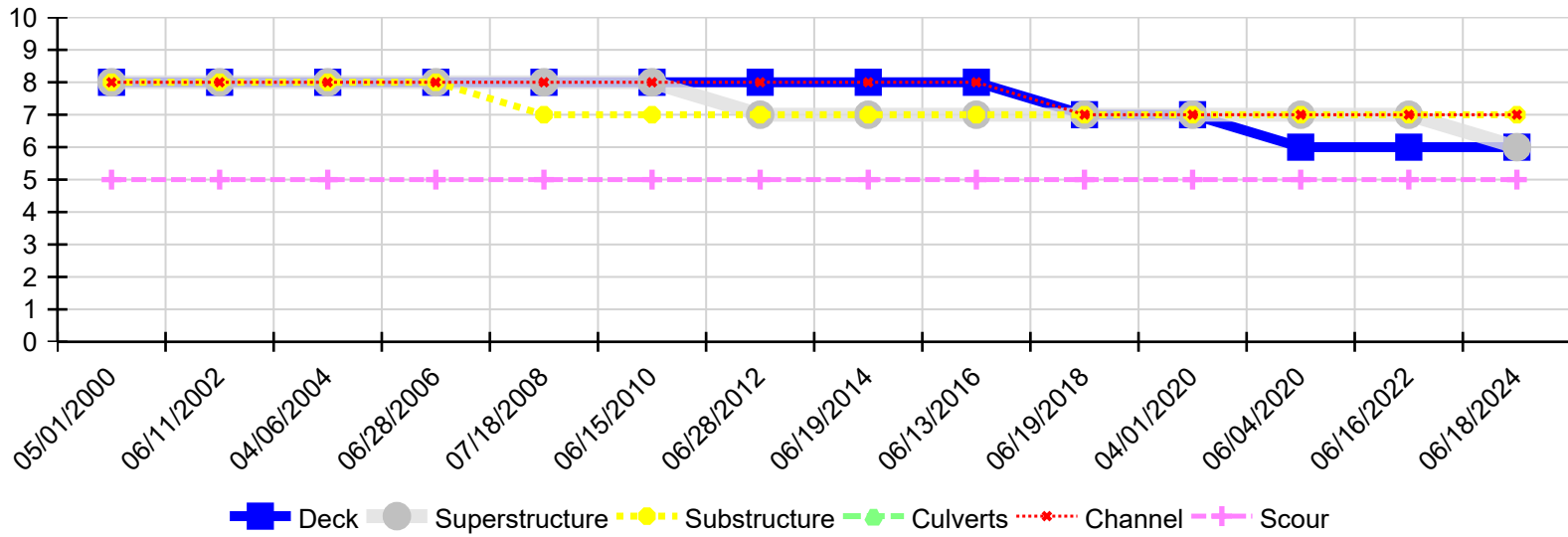
**Location: 1.9 MI SE OF SH 267**

**Team Lead: Seth Foreman Inspection Date: 06/18/2024**

**A-66 - Approach minor pothole/leveling needed**



Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
06/18/2024	6	6	7	N	7	5
06/16/2022	6	7	7	N	7	5
06/04/2020	6	7	7	N	7	5
04/01/2020	7	7	7	N	7	5
06/19/2018	7	7	7	N	7	5
06/13/2016	8	7	7	N	8	5
06/19/2014	8	7	7	N	8	5
06/28/2012	8	7	7	N	8	5
06/15/2010	8	8	7	N	8	5
07/18/2008	8	8	7	N	8	5
06/28/2006	8	8	8	N	8	5
04/06/2004	8	8	8	N	8	5
06/11/2002	8	8	8	N	8	5
05/01/2000	8	8	8	N	8	5