**Asset #06705**(Routine, Underwater type 2)
**SH 73 - 02 - 6.20 over Sandy Bois D'Arc Creek**
**Location: 1.5 MI W JCT SH73 & SH195**
**Team Lead:** Jared Kegley **Inspection Date:** 09/24/2026

# Bridge 06705 Inspection Report



Latitude:33.73827, Longitude:-93.75060

Route:73  Section:02  Log:6.2

Arnold Road ID:29x73x2xA

District 03, County 57 - Hempstead County

Owner: 1 - State Highway Agency

Inspection Direction: 4 - W to E

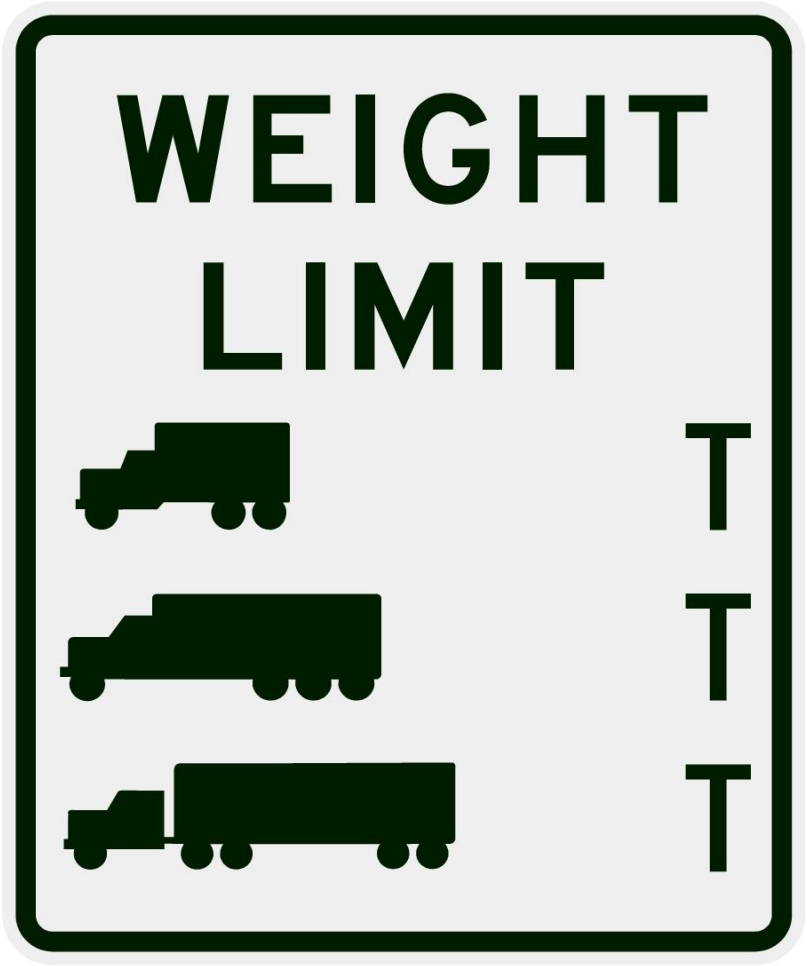
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## Bridge Posting Information

Latest Load Posting Status: PO - Permanent and Open

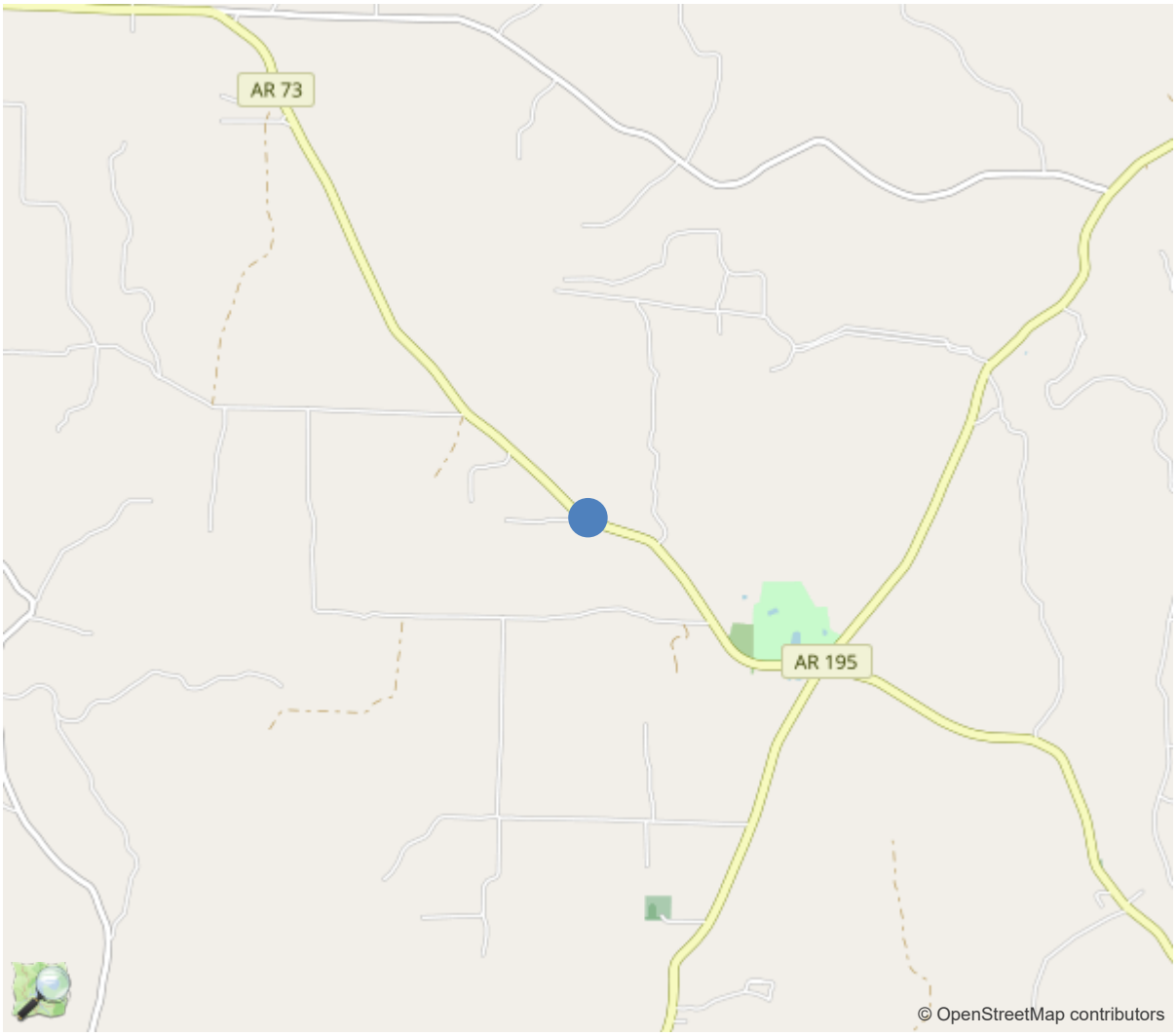
| Legal Load | Calculated Capacity | Beginning of Bridge Sign Current Value | End of Bridge Sign Current Value |
|---|---|---|---|
| Code 4 (22 Tons) | 37 | | |
| Code 9 (31 Tons) | 44 | | |
| Code 5 (40 Tons) | 57 | | |

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

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33.73827, -93.75060

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# Specifications for National Bridge Inventory Sheets

| IDENTIFICATION | |
|---|---|
| B.ID.01 Bridge Number | 06705 |
| B.ID.02 Bridge Name | |
| B.ID.03 Previous Bridge No. | M1393 |
| B.W.01 Year Built | 1998 |

| LOCATION | |
|---|---|
| B.L.01 State Code | 5 - Arkansas |
| B.L.02 County Code | 57 - Hempstead County |
| B.L.03 Place Code | 00000 - N/A |
| B.L.04 Highway Agency District | 03 - District 03 |
| B.L.05 Latitude | 33.738266 |
| B.L.06 Longitude | -93.750595 |
| B.L.07 Border Bridge Number | N |
| 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 | 1.5 MI W JCT SH73 & SH195 |
| 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 | 76.1 |
| B.G.02 Total Bridge Length | 78.7 |
| B.G.03 Max Span Length | 26.2 |
| B.G.04 Min Span Length | 26.2 |
| B.G.05 Bridge Width Out-to-Out | 32.2 |
| B.G.06 Bridge Width Curb-to-Curb | 29.5 |
| B.G.07 Left Curb or Sidewalk Width | 0 |
| B.G.08 Right Curb or Sidewalk Width | 0 |
| B.G.09 Approach Roadway Width | 32.2 |
| 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 | 13 |
| B.G.14 Sidehill Bridge | N - Not a sidehill bridge |
| B.G.15 Irregular Deck Area | |
| B.G.16 Calculated Deck Area | 2534.1 |

| LOADS AND LOAD RATING | |
|---|---|
| B.LR.01 Design Load | HS20M - HS-20 and Military |
| B.LR.02 Design Method | |
| B.LR.03 Load Rating Date | 03/30/2020 |
| 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 | Bridge does not carry routine permi |

| INSPECTION REQUIREMENTS | |
|---|---|
| B.IR.01 NSTM Inspection Required | N - NSTM inspection not required. |
| B.IR.02 Fatigue 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 | 7 - GOOD - Widespread inherent |
| B.C.02 Superstructure Condition | 7 - GOOD - Widespread inherent |
| B.C.03 Substructure Condition | 7 - GOOD - Widespread inherent |
| B.C.04 Culvert Condition | N - NOT APPLICABLE - Component |
| B.C.05 Bridge Railing Condition | 7 - GOOD - Widespread inherent |
| B.C.06 Bridge Railing Transitions Condition | 7 - GOOD - Widespread inherent |
| B.C.07 Bridge Bearings Cond. | N - NOT APPLICABLE - Component |
| B.C.08 Bridge Joints Condition | 5 - FAIR - Some moderate defec |
| B.C.09 Channel Condition Rating | 8 - VERY GOOD - Inherent defec |
| B.C.10 Channel Protection Condition | 8 - VERY GOOD - Some inherent |
| B.C.11 Scour Condition Rating | 7 - Some minor scour. |
| B.C.12 Bridge Condition Classification | G - Good |
| B.C.13 Lowest Condition Rating | 7 - GOOD - Some minor defects. |
| B.C.14 NSTM Insp. Condition | |
| B.C.15 UW Inspection Condition | |

| APPRAISAL | |
|---|---|
| B.AP.01 Approach Roadway Alignment | G - Good |
| B.AP.02 Overtopping Likelihood | 2 - Very low - once every 51 to 99 |
| B.AP.03 Scour Vulnerability | 0 - Scour appraisal has not been co |
| B.AP.04 Scour Plan of Action | 0 - A scour POA is not required. |
| B.AP.05 Seismic Vulnerability | N - Bridge does not require seismic |

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## SPAN SETS

**M1**

| | | | |
|---|---|---|---|
| B.SP.02 # of Spans | 3 | 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 | 0 - None |
| 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 | C01 - Coating - epoxy coated |
| B.SP.07 Span Protective System | 0 - None | B.SP.13 Deck Stay-In-Place Forms | 0 - None |

## SUBSTRUCTURE SETS

**A1**

| | | | |
|---|---|---|---|
| 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 |

**P1**

| | | | |
|---|---|---|---|
| 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 | B03 - Bent - pile or shaft | B.SB.07 Foundation Protective System | 0 - None |

## HIGHWAY FEATURES

**H1**

| | | | |
|---|---|---|---|
| B.F.02 Feature Location | C - Carried on bridge | B.H.09 Annual ADT | 1000 |
| B.F.03 Feature Name | SH 73 - 02 - 6.20 | B.H.10 Annual ADTT | 50 |
| 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 | 73 | B.H.16 Highway Max Usable Surface Width | 30.1 |
| B.H.07 LRS Mile Point | 6.2 | B.H.17 Bypass Detour Length | 22 |
| 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 | 73 | EW - Eastbound and Westbound | 3 - State route | 1 - Mainline |

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| 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 | Sandy Bois D'Arc Creek | | 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 | 12/24/2025 |

| 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 |

## Inspection Notes

**General Observation**

9/24/2026 - Routine and Underwater Type 2 inspection performed by J. Kegley and T. Cook.

Inspection Procedure

_____

Tools Needed:
Hip boots/snake chaps and a sounding rod were used for this inspection.

Depth of Water:
The water depth at the time of this inspection was approximately 2' deep.

Notes:
No lane closure was needed for this inspection.

---

**B.C.01 Deck Condition Rating** (7 - GOOD - Widespread inherent or some minor defects.)

The deck is rated a 7 this inspection due to various locations of cracking present to the driving surface of the slab. These cracks are longitudinal and measure up to 0.025" in width. The pourable joint seals are losing adhesion along all joint lines. The undersurface of the slab has various locations of efflorescence that is present throughout all spans 1 through 3.

---

**B.C.02 Superstructure Condition Rating** (7 - GOOD - Widespread inherent or some minor defects.)

The superstructure is rated a 7 this inspection due to the undersurface of the slab has various locations of efflorescence that is present throughout all spans 1 through 3.

---

**B.C.03 Substructure Condition Rating** (7 - GOOD - Widespread inherent or some minor defects. )

The substructure is rated a 7 this inspection due to minor efflorescence located to the bent 1 & 4 abutments.

---

**B.C.04 Culvert Condition Rating** (N - NOT APPLICABLE - Component does not exist.)

---

**B.C.05 Bridge Railing Condition Rating** (7 - GOOD - Widespread inherent or some minor defects. )

The bridge railings are rated a 7 this inspection due to minor defects found to the concrete parapet walls along both the right and left sides of the bridge.

---

**B.C.06 Bridge Railing Transitions Condition Rating** (7 - GOOD - Widespread inherent or some minor defects. )

The bridge railing transitions are rated a 7 this inspection due to minor damage found to the metal approach guardrails at both the beginning and ends of the bridge.

---

*For additional details and justification into the condition ratings of this structure, refer to the elements section, photo log and any applicable follow up maintenance items in this report.

**B.C.07 Bridge Bearings Condition Rating** (N - NOT APPLICABLE - Component does not exist.)

---

**B.C.08 Bridge Joints Condition Rating** (5 - FAIR - Some moderate defects.)

The joints are rated a 5 this inspection due to the pourable joint seal at all joint lines is showing signs of loss of seal adhesion.

---

**B.C.14 - NSTM Inspection Condition**

---

**B.C.15 Underwater Inspection Condition**

---

**B.C.09 Channel Condition Rating** (8 - VERY GOOD - Inherent defects only.)

The channel is rated an 8 this inspection due to the streambanks being well vegetated and in stable condition. Soundings were taken this inspection and linked to the report and asset files.

---

**B.C.10 Channel Protection Condition Rating** (8 - VERY GOOD - Some inherent or isolated minor defects. )

The channel protection is rated an 8 this inspection due to some minor deficiencies located to the rip rap used for abutment protection in spans 1 & 3.

---

**B.C.11 Scour Condition Rating** (7 - Some minor scour.)

The scour is rated a 7 this inspection due to some minor scour located around the concrete piles at intermediate bent 3.

---

*For additional details and justification into the condition ratings of this structure, refer to the elements section, photo log and any applicable follow up maintenance items in this report.

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## National Bridge Element Quantities and Notes

| ELEMENTS | DESCRIPTION | UNITS | TOTAL | CS1 | CS2 | CS3 | CS4 |
|---|---|---|---|---|---|---|---|
| 38 | RC Slab | SF | 2551 | 2351 | 200 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | SF | 100 | 0 | 100 | 0 | 0 |
| 1130 | Cracking (RC and Other) | SF | 100 | 0 | 100 | 0 | 0 |
| (38) RC Slab:<br>Driving surface, Various locations throughout all spans, Cracking, 100 Sq Ft, CS2<br>Undersurface, Various locations throughout all spans, Efflorescence, 100 Sq Ft, CS2 | | | | | | | |
| 215 | Reinforced Concrete Abutment | LF | 98 | 93 | 5 | 0 | 0 |
| 1120 | Efflorescence/Rust Staining | LF | 5 | 0 | 5 | 0 | 0 |
| (215) Reinforced Concrete Abutment:<br>Bents 1 & 4 in various locations, Minor efflorescence, 5 LF, CS2 | | | | | | | |
| 227 | Reinforced Concrete Pile | EA | 10 | 10 | 0 | 0 | 0 |
| 234 | Reinforced Concrete Pier Cap | LF | 66 | 66 | 0 | 0 | 0 |
| 301 | Pourable Joint Seal | LF | 60 | 0 | 0 | 60 | 0 |
| 2320 | Seal Adhesion | LF | 60 | 0 | 0 | 60 | 0 |
| (301) Pourable Joint Seal:<br>All joint lines, Loss of seal adhesion, 60 LF, CS3 | | | | | | | |
| 331 | Reinforced Concrete Bridge Railing | LF | 158 | 158 | 0 | 0 | 0 |

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## Inspection Photos and Notes




Elevation




Name plate




Deck photo, Undersurface




Deck photo, Driving surface

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Undersurface of slab photo




Abutment photo




Intermediate bent photo




Bridge railing photo

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Bridge railing transition photo




Joint photo




Downstream channel




Upstream channel

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Upstream channel




Downstream channel

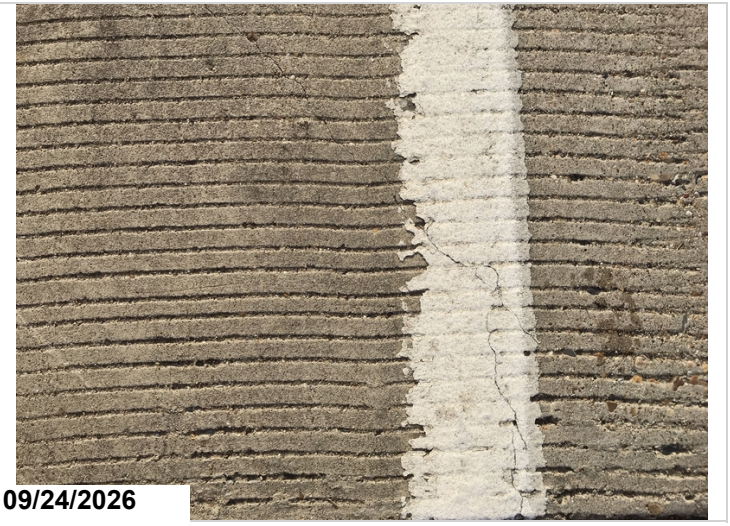



Rip rap used for channel protection




Bent 3 scour

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Sealable deck cracks




Trees and vegetation growing under and along both sides of the bridge.




Trees and vegetation growing under and along both sides of the bridge.




Inventory

**Asset #06705**(Routine, Underwater type 2)
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Deck, Undersurface span 2, Efflorescence, CS2




Deck, Undersurface in span 2, Efflorescence, CS2




Deck, Undersurface in span 1, Efflorescence, CS2




Deck, Undersurface in span 1, Efflorescence, CS2

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Deck, Driving surface, Cracking, CS2




Deck, Driving surface, Cracking, CS2

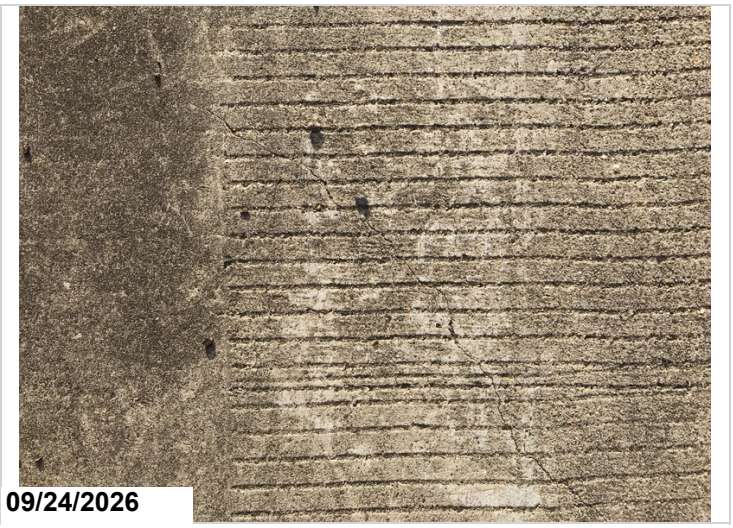



Deck, Driving surface, Cracking, CS2




Deck, Driving surface, Cracking, CS2

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Deck, Driving surface, Cracking, CS2




Abutment, Various locations, Minor efflorescence, CS2




Pourable joint seal, Loss of seal adhesion, CS3

# Routine Maintenance

Check Box Maintenance Items

| Type of Maintenance | Is Recommended? |
|---|---|
| A-54 - Sealable Deck Cracks | Yes |
| 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 | Yes |
| A-65 - Clogged deck drains? | No |
| A-66 - Approach minor pothole/leveling needed | No |

**A-54 - Sealable Deck Cracks** (Yes)
Sealable deck cracks are present throughout all spans of the driving surface.



Sealable deck cracks

**A-64 - Vegetation Removal Requested** (Yes)
Trees and vegetation growing under and along both sides of the bridge.



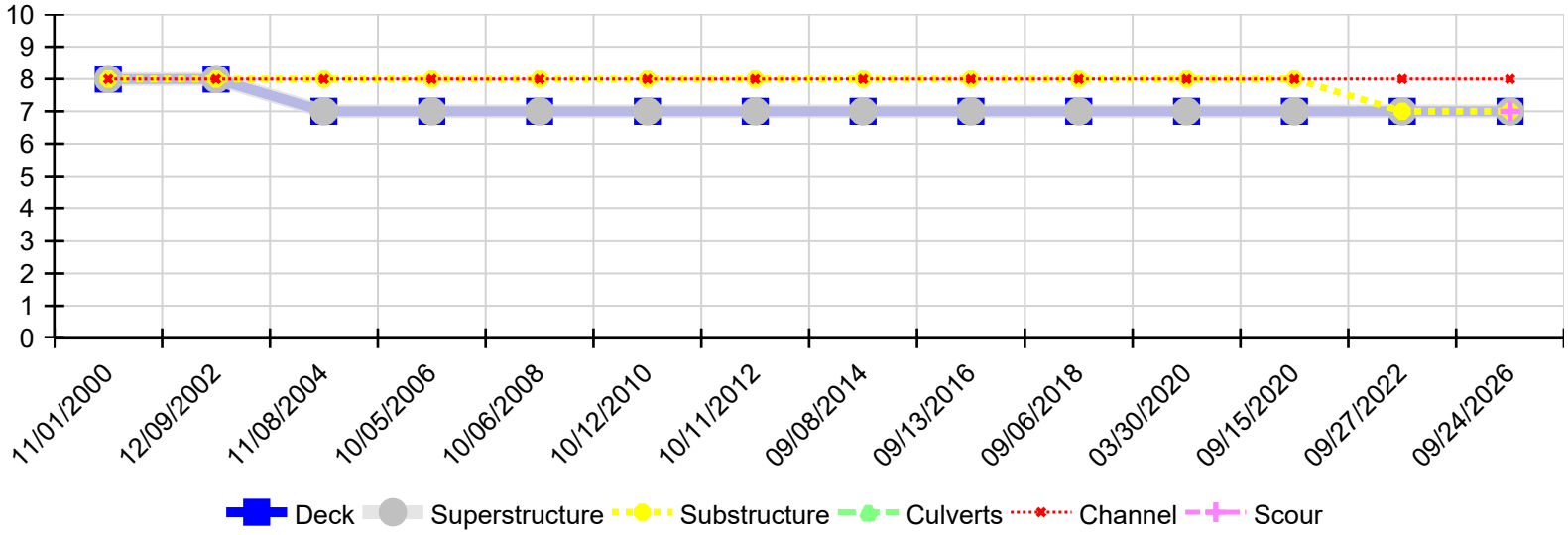
Trees and vegetation growing under and along both sides of the bridge.



Trees and vegetation growing under and along both sides of the bridge.

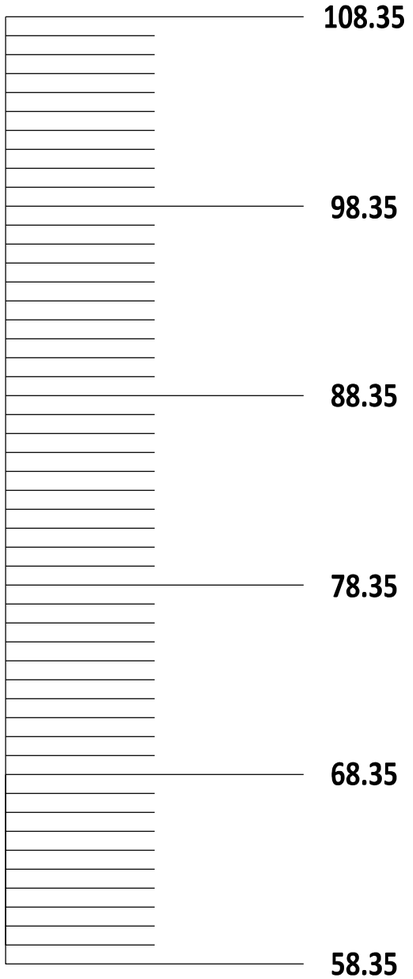
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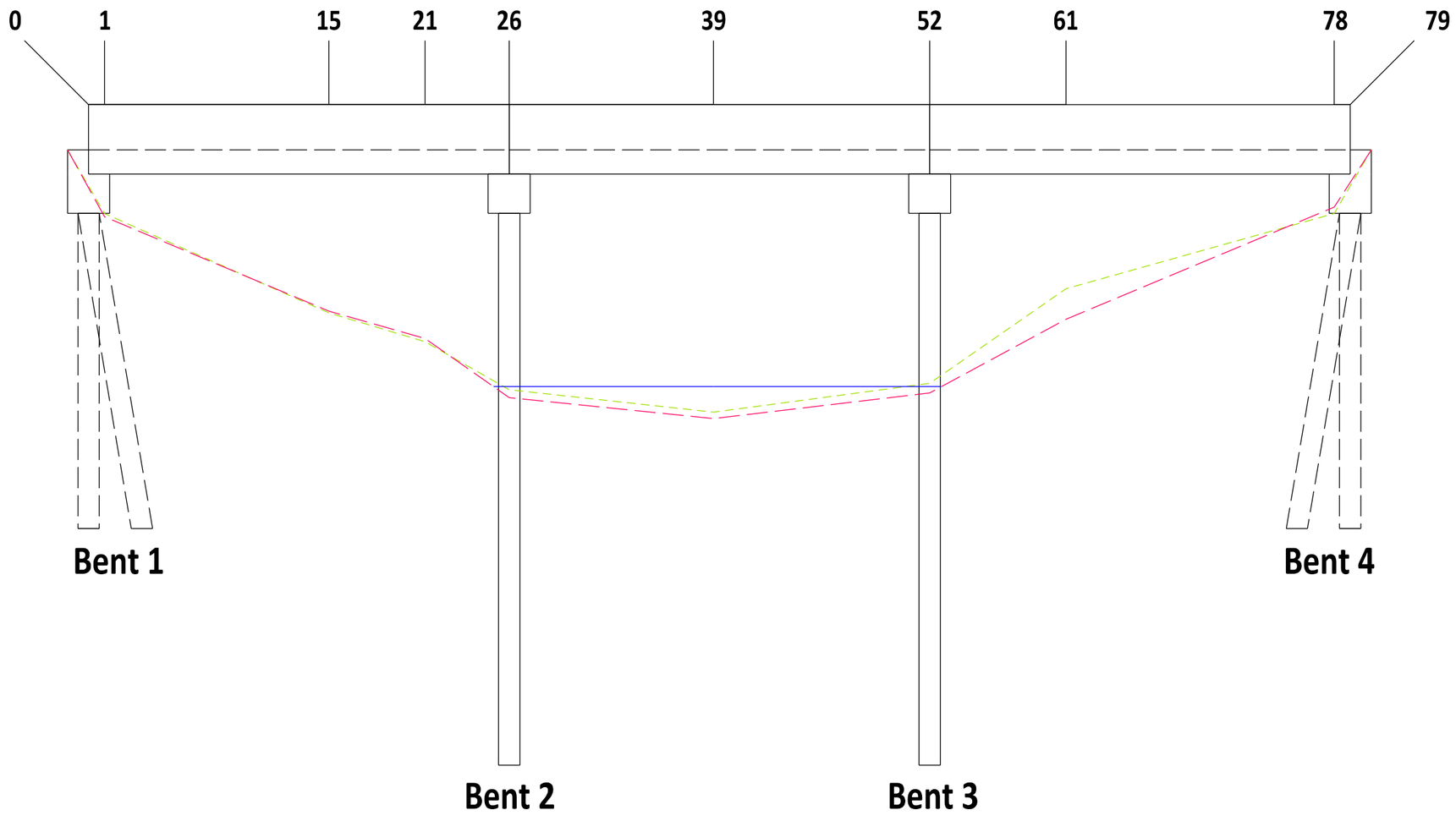
Condition History




| Inspection Date | Deck | Superstructure | Substructure | Culverts | Channel | Scour |
|---|---|---|---|---|---|---|
| 09/24/2026 | 7 | 7 | 7 | N | 8 | 7 |
| 09/27/2022 | 7 | 7 | 7 | N | 8 | N |
| 09/15/2020 | 7 | 7 | 8 | N | 8 | N |
| 03/30/2020 | 7 | 7 | 8 | N | 8 | N |
| 09/06/2018 | 7 | 7 | 8 | N | 8 | N |
| 09/13/2016 | 7 | 7 | 8 | N | 8 | N |
| 09/08/2014 | 7 | 7 | 8 | N | 8 | N |
| 10/11/2012 | 7 | 7 | 8 | N | 8 | N |
| 10/12/2010 | 7 | 7 | 8 | N | 8 | N |
| 10/06/2008 | 7 | 7 | 8 | N | 8 | N |
| 10/05/2006 | 7 | 7 | 8 | N | 8 | N |
| 11/08/2004 | 7 | 7 | 8 | N | 8 | N |
| 12/09/2002 | 8 | 8 | 8 | N | 8 | N |
| 11/01/2000 | 8 | 8 | 8 | N | 8 | N |

# Soundings taken at top of parapet wall




Bent 1 & 4 - 6.0M Concrete Piles

Bent 2 & 3 - 10.5M Concrete Piles

Right Side Sounding

Left Side Sounding

ARKANSAS STATE HIGHWAY COMMISSION

Little Rock, ARK.

0' 8' 16'

Scale: 1"=8'

Inspection Dir: W to E

Channel Flow: N to S

BRIDGE NO.

06705

Drawn By: T. Cook

Project: Soundings

Checked By: J. King

Date: 20260924

ARDOT BRIDGE OPERATIONS