

Bridge 03552 Inspection Report



Latitude:33.31945, Longitude:-91.83163

Route:425 Section:02 Log:6.67

Arnold Road ID:2x425x2xA, Arnold Log mile:6.659

District 02, 3 - Ashley County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

Bridge Posting Information

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

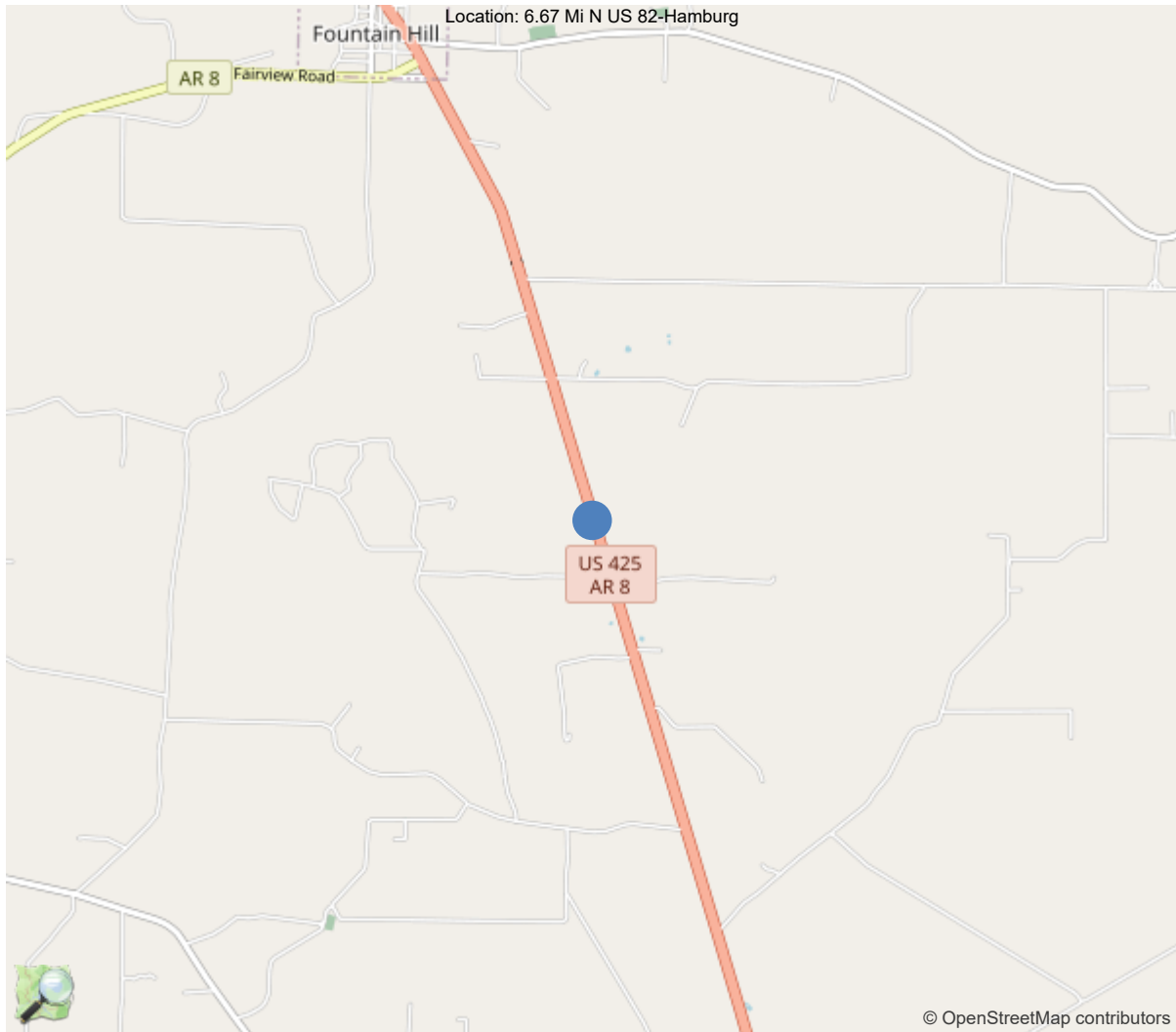
70 - Bridge Posting: 5 - Equal to or above legal loads

Legal Load	Calculated Capacity	Beginning of Bridge Sign Current Value	End of Bridge Sign Current Value
Code 4 (22 Tons)	39		
Code 9 (31 Tons)	46		
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



33.31945, -91.83163



Asset #03552(Routine, Underwater type 2)
US 425-02 LM 6.67 over S Fork Fountain Creek
Location: 6.67 Mi N US 82-Hamburg
Team Lead: Sharon Hooks Inspection Date: 04/28/2025

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	03552
(5) Inventory Route	1
(2) Highway Agency District	02 - District 02
(3) County Code	3 - Ashley County
(4) Place Code	0
(6) Features Intersected	S Fork Fountain Creek
(7) Facility Carried	US 425-02 LM 6.67
(9) Location	6.67 Mi N US 82-Hamburg
(11) Mile Point	6.67 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000425020
(16) Latitude	33.3194532654456
(17) Longitude	-91.831627774636
(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	4
(46) No. of Approach Spans	0
(107) Deck Structure Type	1 - Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	0 - None (no additional concrete thickne
Type of Membrane	0 - None
Type of Deck Protection	0 - None
AGE AND SERVICE	
(27) Year Built	1962
(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	3500
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	25 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	25 ft
(49) Structure Length	100 ft
(50) Curb or Sidewalk Width	
Left	1.2 ft
Right	1.2 ft
(51) Bridge Roadway Width Curb to Curb	28 ft
(52) Deck Width Out to Out	33.5 ft
(32) Approach Roadway Width (W/Shoulders)	36.1 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	27.9 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	5 - None present but re-evalua
(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	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	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	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	4 - M 18 / H 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	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(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	1 - Inspected feature meets current
(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	3158
(115) Year of Future ADT	2027

INSPECTIONS *			
(90) Inspection Date	04/28/2025		
(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.			

Team Lead: Sharon Hooks, Inspection Date: 04/28/2025

Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	03552
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	
B.W.01 Year Built	1962

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	3 - Ashley County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	02 - District 02
B.L.05 Latitude	33.3194532654456
B.L.06 Longitude	-91.831627774636
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	6.67 Mi N US 82-Hamburg
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	98
B.G.02 Total Bridge Length	100.1
B.G.03 Max Span Length	24.9
B.G.04 Min Span Length	25
B.G.05 Bridge Width Out-to-Out	33.5
B.G.06 Bridge Width Curb-to-Curb	27.9
B.G.07 Left Curb or Sidewalk Width	1.3
B.G.08 Right Curb or Sidewalk Width	1.3
B.G.09 Approach Roadway Width	36.1

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	5
B.G.14 Sidehill Bridge	N - Not a sidehill bridge
B.G.15 Irregular Deck Area	
B.G.16 Calculated Deck Area	3348.7

LOADS AND LOAD RATING	
B.LR.01 Design Load	H20 - H-20
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	
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	5 - FAIR - Some moderate defec
B.C.03 Substructure Condition	6 - SATISFACTORY - Widespread
B.C.04 Culvert Condition	N - NOT APPLICABLE - Component
B.C.05 Bridge Railing Condition	7 - GOOD - Some minor defects.
B.C.06 Bridge Railing Transitions Condition	7 - GOOD - Some minor defects.
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	N - NOT APPLICABLE - Bridge do
B.C.11 Scour Condition Rating	7 - Some minor scour.
B.C.12 Bridge Condition Classification	F - Fair
B.C.13 Lowest Condition Rating	5 - FAIR - Some moderate defec
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	1 - Remote - once every 100 years o
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	0 - Seismic evaluation not complete

Team Lead: Sharon Hooks, Inspection Date: 04/28/2025

SPAN SETS			
M1			
B.SP.02 # of Spans	4	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	S02 - Slab - voided	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			
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	3	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			
H1			
B.F.02 Feature Location	C - Carried on bridge	B.H.09 Annual ADT	3500
B.F.03 Feature Name	US 425-02 LM 6.67	B.H.10 Annual ADTT	35
B.H.01 Functional Classification	3 - Principal Arterial - Other	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	Y - NHS	B.H.13 Highway Min Vertical Clearance	99.9
B.H.04 National Highway Freight Network	1-T - TEMP - NHFN - 1 or 2 or	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	425020	B.H.16 Highway Max Usable Surface Width	27.8
B.H.07 LRS Mile Point	6.67	B.H.17 Bypass Detour Length	25
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	425	2-T - TEMP - Two-way traffic - NS or EW	2 - U.S. 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	S Fork Fountain 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	

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 #03552(Routine, Underwater type 2)

US 425-02 LM 6.67 over S Fork Fountain Creek

Location: 6.67 Mi N US 82-Hamburg

Team Lead: Sharon Hooks Inspection Date: 04/28/2025

Inspection Notes

General Observation

Bridge is logged from south to north.
Beginning of structure toward US 82E, Hamburg, South End.

Waders needed for inspection of structure.

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

Deck is in satisfactory condition with cracking/ scaling on top and large delaminations to undersurface.

59 - Superstructure (6 - SATISFACTORY CONDITION - structural elements show some minor deterioration.)

Superstructure-Undersurface of slab has large delaminations with rust staining due to leakage from top side of slab.
Voided Slab.

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

Substructure is in satisfactory condition with some spalling, exposed rebar and abrasion.

61 - Channel/Channel Protection (7 - Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift.)

Channel is in good condition with some minor bank erosion and debris.

A-54 - Sealable Deck Cracks (Y)

Deck - all spans: Several unsealed, minor- to large-sized longitudinal cracks with reflective cracking, efflorescence, and rust staining on undersurface, especially along centerline and heaviest on Spans 3 & 4 - Several unsealed, minor- to moderate-sized transverse cracks, heaviest on Spans 3 & 4 on right side.

A-59 - Joint Repair Needed (Y)

Joints - Bents 2-4: Pourable material has deteriorated and or missing allowing storm-water to leak onto cap - joints are filled with dirt, sand, and other debris.

A-61 - Polymer Overlay Advised (Y)

Travel lanes have abrasion with loss of mortar on surface with large unsealed cracks.

A-B.C.11 - B.C.11 Scour Condition Rating (New NBIS) (7 - Some minor scour.)

Scour condition is good with minor erosion at end slopes.

National Bridge Element Quantities and Notes

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	3000	195	2050	755	0
1080	Delamination/Spall/Patched Area	SF	75	0	0	75	0
1120	Efflorescence/Rust Staining	SF	275	0	0	275	0
1130	Cracking (RC and Other)	SF	405	0	0	405	0
1190	Abrasion/Wear (PSC/RC)	SF	2050	0	2050	0	0
(38) Deck (with voids): 30' wide (1'-9" STEP-UP each side) x 100' long = 3000 SF							
All spans: Several unsealed, minor- to large-sized longitudinal cracks (with reflective cracking, efflorescence, and rust-staining on soffit, especially along centerline and heaviest on Spans 3 & 4). Several unsealed, minor- to moderate-sized transverse cracks, heaviest on Spans 3 & 4 on right side. Cracking = 16' wide (half deck) x 25' (Span 2) = 400 SF CS3 Cracking. Travel lanes have abrasive wear with loss of mortar on surface, but aggregates and remaining mortar is intact and fully bonded. Abrasion/ Wear = 28' wide x 100' (Spans 1-4) = 2800 SF less other defects. 2050 SF CS2 Abrasion. Side of slab – Span 1 at Bent 2 right: Vertical crack efflorescence on side of slab with spalling. 5 SF CS3 Cracking; 75 SF CS3 Efflorescence Undersurface - Span 3: Area of delamination/efflorescence/rust-staining along centerline from 1/3 to end of span. Span 4 left: Large delamination with efflorescence/rust-staining. 75 SF CS3 Delaminations; 200 SF CS3 Efflorescence;							
215	Reinforced Concrete Abutment	LF	78	76	2	0	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
(215) Abutments-Bents 1 & 5: 30'-6" x 2= 31' each (with 4' wings each corner) = 78 LF total Bent 1 & 5: Small spalls on face. 2 LF CS2 Spalling.							
227	Reinforced Concrete Pile	EA	15	5	10	0	0
1190	Abrasion/Wear (PSC/RC)	EA	10	0	10	0	0
(227) Piling-Bents 2-4: 5 per bent =15 EA Bent 2 Piles 3-5; Bent 3 Piles 1-5, & Bent 4 Piles 4-5: Light abrasive wear. 10 EA CS2 Abrasion. Bent 3 Piles 4-5: Some minor localized scour.							
234	Reinforced Concrete Pier Cap	LF	93	80	3	10	0
1010	Cracking	LF	1	0	0	1	0
1080	Delamination/Spall/Patched Area	LF	3	0	3	0	0
1090	Exposed Rebar	LF	9	0	0	9	0
(234) Caps-Bents 2-4.: 30'-6" = 31' each x 3=93 LF Total Bents 2-4 bottom face: Small spalls with exposed rebar. 10 LF CS3 Exposed Rebar. Bent 4 back: Large delamination right end. 3 LF CS2 Delamination							
301	Pourable Joint Seal	LF	140	0	29	111	0
2320	Seal Adhesion	LF	70	0	29	41	0

Inspection Photos and Notes



Elevation: Right side



Approach: Inventory



Deck Overview



Undersurface view.



04/28/2025

Channel: Left side view.



04/28/2025

Channel: Right side view.



04/28/2025

Undersurface Span 3: Large delamination with staining.



04/28/2025

Undersurface Span 2: Large unsealed cracks with staining.



Undersurface Span 4: Large delamination with staining.



Deck Span 1: Large unsealed cracks.



Cap Bent 4 Back: Large delamination on right end.



Cap Bent 3: Spalls with exposed rebar on bottom.



Cap Bent 2: Spalls with exposed rebar on bottom.

Maintenance Needs

Date Reported: 04/26/2011

Priority: C - Important

Type of Work: Deck Repair

Status: Monitor

Component: Deck

Deficiency Description

Undersurface - Span 3: Area of delamination/efflorescence/rust staining along centerline from 1/3 to end of span.

Undersurface -Span 4 left lane : Large delamination with staining near mid span.

Changed from "D" to "C" 2021. SDH.

Remarks

Repair as you can fit in your schedule



Span soffit Delams.



Span 3 longitudinal cracking reflecting thru to soffit with efflorescence.



Span 3 soffit delam with staining.



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	Yes
A-60 - Full Beam Painting Needed	No
A-61 - Polymer Overlay Advised	Yes
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 (Yes)

Deck - all spans: Several unsealed, minor- to large-sized longitudinal cracks with reflective cracking, efflorescence, and rust staining on undersurface, especially along centerline and heaviest on Spans 3 & 4 - Several unsealed, minor- to moderate-sized transverse cracks, heaviest on Spans 3 & 4 on right side.

A-55 - Deck Washing Needed (No)

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



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A-57 - Girder End and Bearing Painting Needed (No)

A-58 - Cap Cleaning/Flushing Needed (No)

A-59 - Joint Repair Needed (Yes)

Joints - Bents 2-4: Pourable material has deteriorated and or missing allowing storm-water to leak onto cap - joints are filled with dirt, sand, and other debris.

A-60 - Full Girder Painting Needed (No)

A-61 - Polymer Overlay Advised (Yes)

Travel lanes have abrasion with loss of mortar on surface with large unsealed cracks.

A-62 - Hydro and LMC Advised (No)

A-63 - Missing/Incorrect Log Mile Signage (No)

A-64 - Vegetation Removal Requested (No)

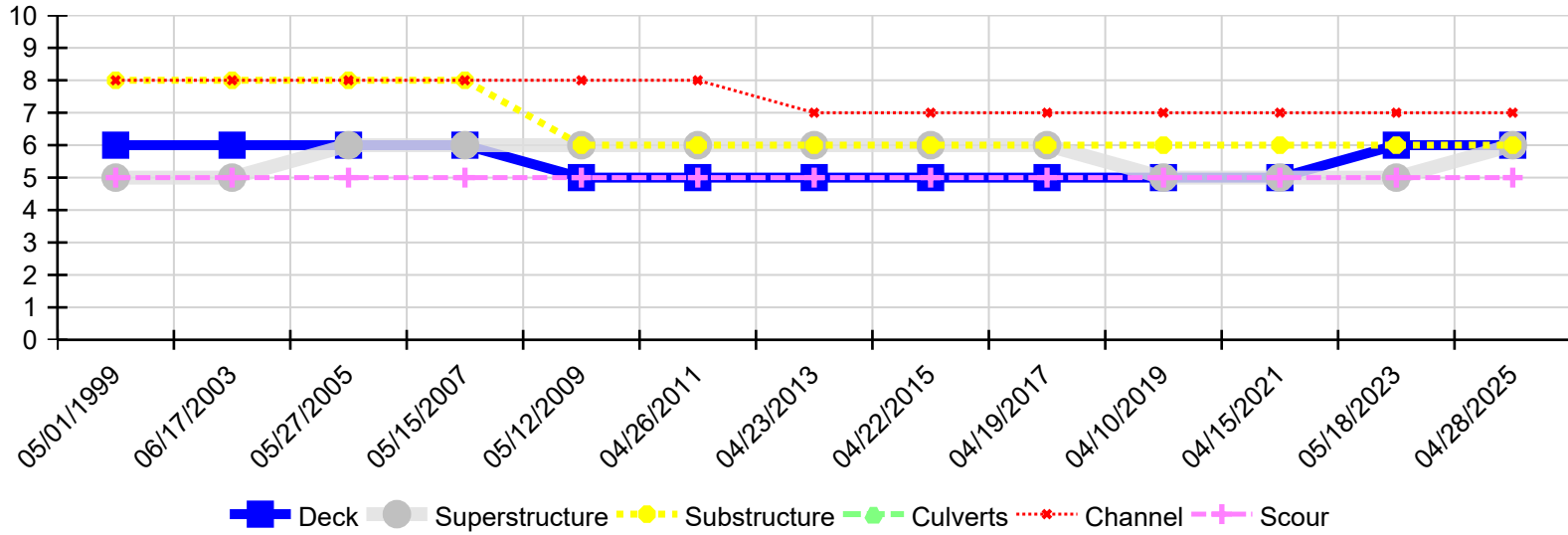
A-65 - Clogged deck drains?



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A-66 - Approach minor pothole/leveling needed

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
04/28/2025	6	6	6	N	7	5
05/18/2023	6	5	6	N	7	5
04/15/2021	5	5	6	N	7	5
04/10/2019	5	5	6	N	7	5
04/19/2017	5	6	6	N	7	5
04/22/2015	5	6	6	N	7	5
04/23/2013	5	6	6	N	7	5
04/26/2011	5	6	6	N	8	5
05/12/2009	5	6	6	N	8	5
05/15/2007	6	6	8	N	8	5
05/27/2005	6	6	8	N	8	5
06/17/2003	6	5	8	N	8	5
05/01/1999	6	5	8	N	8	5