

Bridge 06163 Inspection Report



Latitude:34.87186, Longitude:-91.75709

Route:13 Section:10 Log:6.76

Arnold Road ID:43x13x10xA, Arnold Log mile:6.749

District 06, 85 - Lonoke County

Owner: 1 - State Highway Agency

Inspection Direction: 2 - S to N

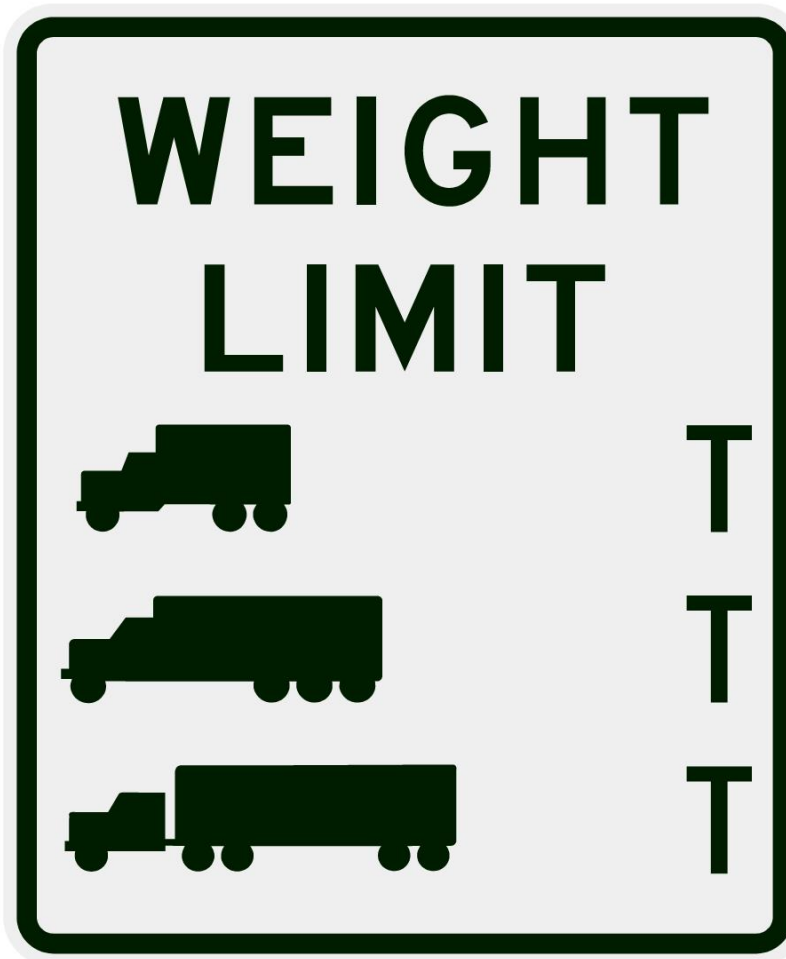
Bridge Posting Information

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

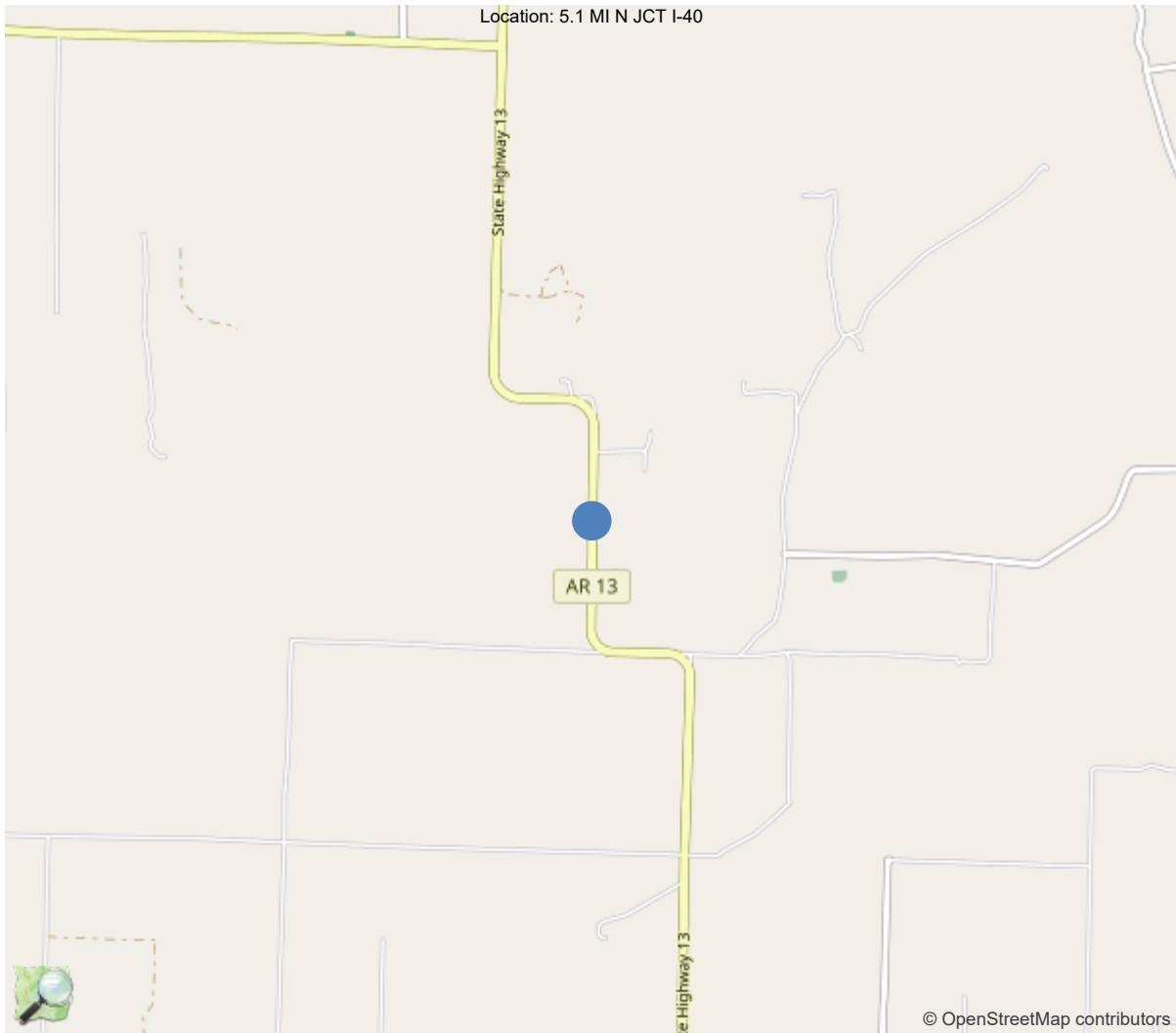
70 - Bridge Posting: 5 - Equal to or above legal loads

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)	46		
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



34.87186, -91.75709

National Bridge Inventory Data Sheet

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06163
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	85 - Lonoke County
(4) Place Code	0
(6) Features Intersected	WATTENSAW BAYOU
(7) Facility Carried	SH 13 10/0Log 6.76
(9) Location	5.1 MI N JCT I-40
(11) Mile Point	6.76 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.87186
(17) Longitude	-91.75709
(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	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	1987
(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	1000
(30) Year of ADT	2024
(109) Truck ADT	%
(19) Bypass, Detour Length	7 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	30 ft
(49) Structure Length	150 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	29.9 ft
(52) Deck Width Out to Out	33 ft
(32) Approach Roadway Width (W/Shoulders)	29.9 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	31.8 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	8
(59) Superstructure	8
(60) Substructure	7
(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	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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(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	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	1326
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	08/27/2025		
(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: Joseph Rapier, Inspection Date: 08/28/2025

Specifications for National Bridge Inventory Sheets

IDENTIFICATION	
B.ID.01 Bridge Number	06163
B.ID.02 Bridge Name	
B.ID.03 Previous Bridge No.	M0369
B.W.01 Year Built	1987

LOCATION	
B.L.01 State Code	5 - Arkansas
B.L.02 County Code	85 - Lonoke County
B.L.03 Place Code	00000 - N/A
B.L.04 Highway Agency District	06 - District 06
B.L.05 Latitude	34.87186
B.L.06 Longitude	-91.75709
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	5.1 MI N JCT I-40
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	149.9
B.G.02 Total Bridge Length	149.9
B.G.03 Max Span Length	29.9
B.G.04 Min Span Length	30
B.G.05 Bridge Width Out-to-Out	33.1
B.G.06 Bridge Width Curb-to-Curb	29.9
B.G.07 Left Curb or Sidewalk Width	0
B.G.08 Right Curb or Sidewalk Width	0
B.G.09 Approach Roadway Width	29.9

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	4961.6900000000005

LOADS AND LOAD RATING	
B.LR.01 Design Load	HS20 - HS-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	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	8 - VERY GOOD - Some inherent
B.C.02 Superstructure Condition	8 - VERY GOOD - Some inherent
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	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	7 - GOOD - Some minor defects.
B.C.11 Scour Condition Rating	8 - Insignificant 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	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	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: Joseph Rapier, Inspection Date: 08/28/2025

SPAN SETS			
M1			
B.SP.02 # of Spans	5	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	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	P04 - Pile - prestressed concr
B.SB.04 Substructure Type	A02 - Abutment - stub	B.SB.07 Foundation Protective System	0 - None
P1			
B.SB.02 No. of Substructure Units	4	B.SB.05 Substructure Protective System	0 - None
B.SB.03 Substructure Material	C01 - Reinforced concrete - ca	B.SB.06 Foundation Type	P04 - Pile - prestressed concr
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	1100
B.F.03 Feature Name	SH 13 10/0Log 6.76	B.H.10 Annual ADTT	11
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	31.4
B.H.07 LRS Mile Point	6.76	B.H.17 Bypass Detour Length	7
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	R01	13	2-T - TEMP - Two-way traffic - NS or EW	3 - State route	1 - Mainline



Team Lead: Joseph Rapier, Inspection Date: 08/28/2025

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	WATTENSAW BAYOU	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 - 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 #06163(Routine, Underwater type 2)

SH 13 10/0Log 6.76 over WATTENSAW BAYOU

Location: 5.1 MI N JCT I-40

Team Lead: Joseph Rapier Inspection Date: 08/28/2025

Inspection Notes

General Observation

Team Lead - Joseph Rapier
Advanced Inspector - Jason Edmison
Parked on the shoulder
Accessed by foot with waders
Job#60281 Drawing#27756 For layout
Logged Northbound
Channel profile added 8/2025

58 - Deck (8 - VERY GOOD CONDITION - no problems noted.)

Overall the deck is in very good condition. Minor longitudinal cracks in span 1,4 and 5

59 - Superstructure (8 - VERY GOOD CONDITION - no problems noted.)

Overall the superstructure is in very good condition. Scattered cracking in the undersurface.

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

Overall the substructure is in good condition. Abrasion to bottoms of piles in the channel. Minor spalls on the caps.

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.)

Overall the channel is in good condition.

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

Logged Northbound.

A-54 - Sealable Deck Cracks (Y)

Deck cracks in span 1,4 and 5

A-56 - Joint Cleaning/Flushing Needed (Y)

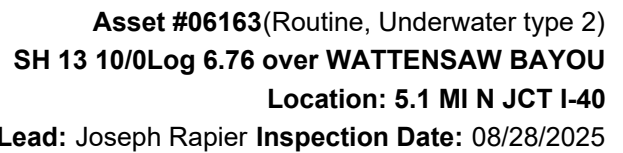
Debris in joints

A-59 - Joint Repair Needed (Y)

The pourable joint seal at all bents has lost adhesion. CS3-130'

A-64 - Vegetation Removal Requested (Y)

All 4 corners of bridge has debris making it hard to access.



ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	4925	4877	48	0	0
1120	Efflorescence/Rust Staining	SF	2	0	2	0	0
1130	Cracking (RC and Other)	SF	46	0	46	0	0
(38) Span 3, has hairline map cracking. Bent 4, span 4: cracking. CS2- 7' Span 4, at bent 4: cracking with efflorescence staining. CS2-2' Span 5, at bent 6: cracking. CS2- 6'							
215	Reinforced Concrete Abutment	LF	102	100	2	0	0
1130	Cracking (RC and Other)	LF	2	0	2	0	0
(215) Right end of bent 6 has small cracks.							
227	Reinforced Concrete Pile	EA	20	10	10	0	0
1190	Abrasion/Wear (PSC/RC)	EA	10	0	10	0	0
(227) The pile at bents 3 and 4 have surface abrasion.							
234	Reinforced Concrete Pier Cap	LF	134	133	1	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
(234) Bent 2, ahead side, between piles 1 & 2: spall. CS2-1'							
301	Pourable Joint Seal	LF	130	0	0	130	0
2320	Seal Adhesion	LF	130	0	0	130	0
(301) The pourable joint seal at all bents has lost adhesion. CS3-130'							
331	Reinforced Concrete Bridge Railing	LF	300	224	76	0	0
1130	Cracking (RC and Other)	LF	76	0	76	0	0
(331) Bridge rail has scattered cracks.							

Inspection Photos and Notes



Elevation.



Undersurface view.



Deck view.



General cap condition.



Channel looking upstream.



Channel looking downstream.



Inventory looking north.



Span 5, at bent 6: cracking. CS2- 6'



Bent 4, span 4: cracking. CS2- 7'



Bent 5, pourable joint seal: has lost adhesion. CS2-34'



Bent 3, pourable joint seal: has lost adhesion. CS2-34'



Bent 1, right side: vegetation growth restricting access.



Bent 1, left side: vegetation growth restricting access.



Bent 6, left side: vegetation growth restricting access.



Bent 6, right side: vegetation growth restricting access.



Span 4, at bent 4: cracking with efflorescence staining. CS2-2'



08/27/2025

Span 3: insignificant hairline map cracking throughout the entire span.



08/27/2025

Bent 4, span 4: longitudinal cracking. CS2- 7'



08/27/2025

Span 5, at bent 6: longitudinal cracking. CS2- 6'



08/27/2025

Bent 3: all pile have abrasion. CS2- 4 ea



Bent 2, ahead side, between piles 1 & 2: small spall. CS2-1'



Bent 3, pourable joint seal: has lost adhesion. CS2-34'



Bent 5, pourable joint seal: has lost adhesion. CS2-34'



General bridge rail condition.

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

A-54 - Sealable Deck Cracks (Yes)

Deck cracks in span 1,4 and 5



Span 5, at bent 6: cracking. CS2- 6'



Bent 4, span 4: cracking. CS2- 7'

A-55 - Deck Washing Needed (No)

A-56 - Joint Cleaning/Flushing Needed (Yes)

Debris in joints

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

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

A-59 - Joint Repair Needed (Yes)

The pourable joint seal at all bents has lost adhesion. CS3-130'



Bent 5, pourable joint seal: has lost adhesion. CS2-34'



Bent 3, pourable joint seal: has lost adhesion. CS2-34'

A-60 - Full Girder 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 (Yes)

All 4 corners of bridge has debris making it hard to access.



Bent 1, right side: vegetation growth restricting access.



Bent 1, left side: vegetation growth restricting access.



Bent 6, left side: vegetation growth restricting access.



Bent 6, right side: vegetation growth restricting access.

A-65 - Clogged deck drains? (No)

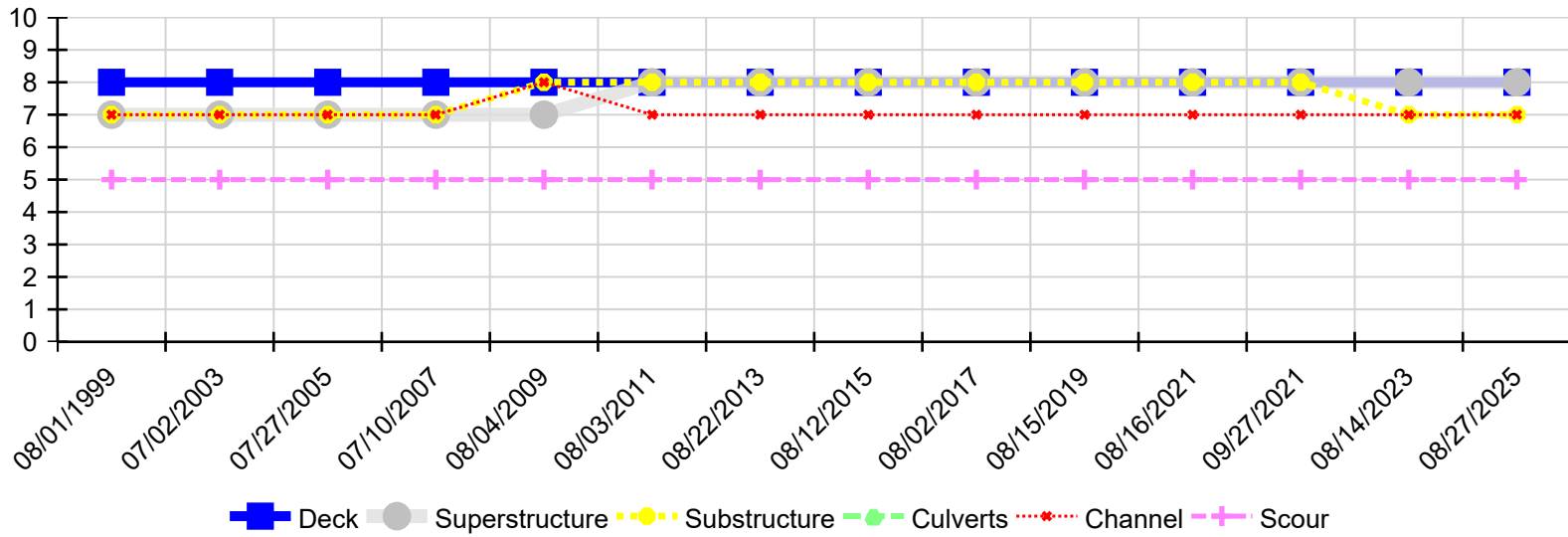


Asset #06163(Routine, Underwater type 2)
SH 13 10/0Log 6.76 over WATTENSAW BAYOU
Location: 5.1 MI N JCT I-40

Team Lead: Joseph Rapier **Inspection Date:** 08/28/2025

A-66 - Approach minor pothole/leveling needed (No)

Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
08/27/2025	8	8	7	N	7	5
08/14/2023	8	8	7	N	7	5
09/27/2021	8	8	8	N	7	5
08/16/2021	8	8	8	N	7	5
08/15/2019	8	8	8	N	7	5
08/02/2017	8	8	8	N	7	5
08/12/2015	8	8	8	N	7	5
08/22/2013	8	8	8	N	7	5
08/03/2011	8	8	8	N	7	5
08/04/2009	8	7	8	N	8	5
07/10/2007	8	7	7	N	7	5
07/27/2005	8	7	7	N	7	5
07/02/2003	8	7	7	N	7	5
08/01/1999	8	7	7	N	7	5