



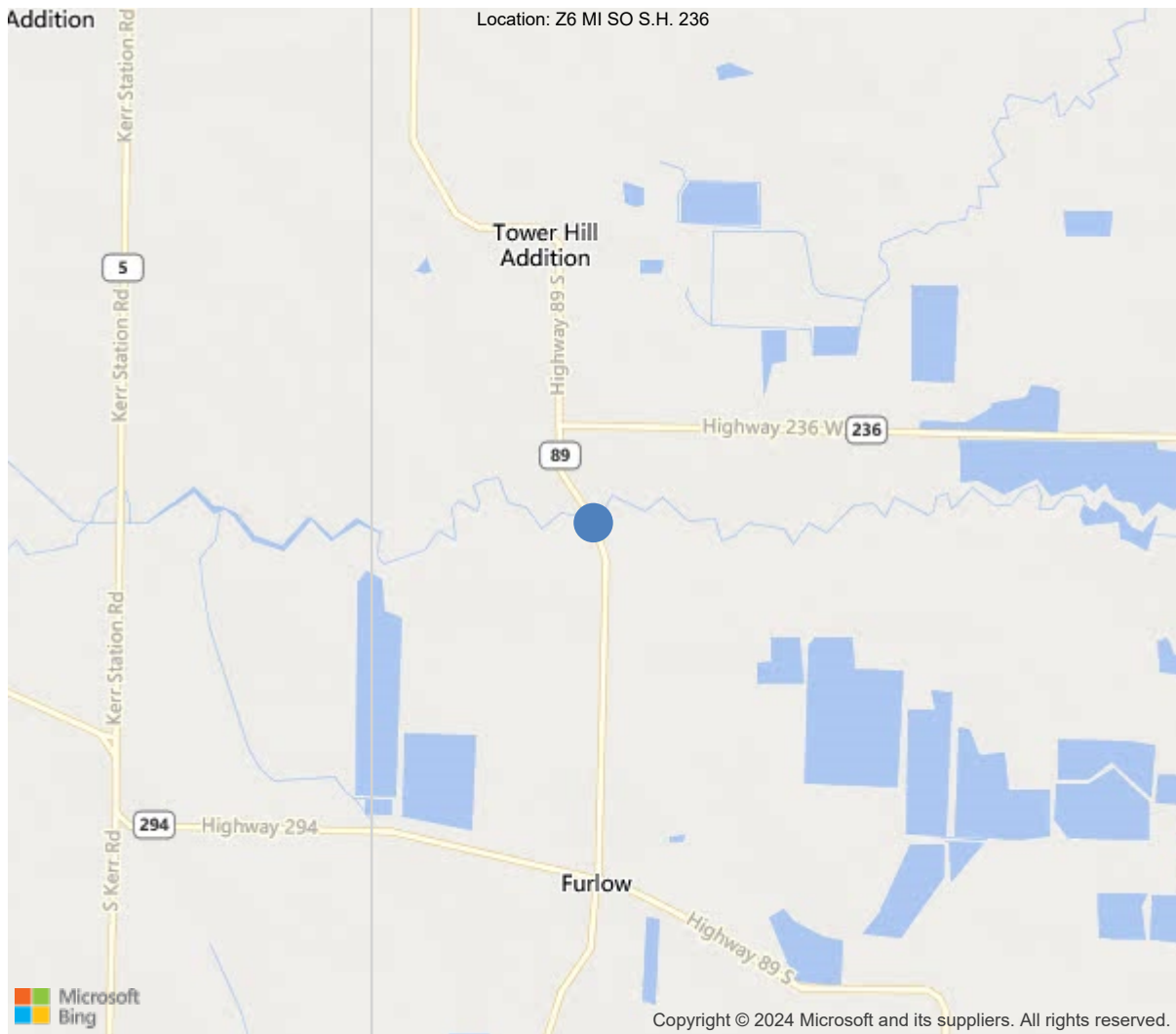
Latitude:34.85846, Longitude:-91.98049

Route:89 Section:01 Log:8.39

Arnold Road ID:43x89x1xA, Arnold Log mile:8.379

District 06, 85 - Lonoke County

Owner: 1 - State Highway Agency



34.85846, -91.98049



Asset #06463(Routine)

S.H. 89 Log 8.39 over BAYOU TWO PRAIRIE

Location: Z6 MI SO S.H. 236

Team Lead: Bryan Saunders, Inspection Date: 07/27/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	06463
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	85 - Lonoke County
(4) Place Code	0
(6) Features Intersected	BAYOU TWO PRAIRIE
(7) Facility Carried	S.H. 89 Log 8.39
(9) Location	Z6 MI SO S.H. 236
(11) Mile Point	8.39 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	0000089010
(16) Latitude	34.85846
(17) Longitude	-91.98049
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	32
Material	3 - Steel
Type	2 - Stringer/Multi-beam or girder
(44) Approach Structure Type	00
Material	0 - Other
Type	0 - Other
(45) No. of Spans in Main Unit	6
(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	1 - Epoxy Coated Reinforcing
AGE AND SERVICE	
(27) Year Built	1992
(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	6000
(30) Year of ADT	2018
(109) Truck ADT	1 %
(19) Bypass, Detour Length	6 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	50 ft
(49) Structure Length	302 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	32.2 ft
(52) Deck Width Out to Out	34.8 ft
(32) Approach Roadway Width (W/Shoulders)	40 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	33.1 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	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	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	4 - Historical significance is
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	6 - MS 18+Mod / HS 20+Mod
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1 - Load Factor(LF)
Rating	49
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	30
(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	7
(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	7596
(115) Year of Future ADT	2027

INSPECTIONS *			
(90) Inspection Date	07/27/2023		
(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.			



General Observation

AHTD Job 60534, 32832

Logged North bound.

Channel Profile added 07/20/2021

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

deck is in overall good shape

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

bent 1 beam 1 has corrosion at beam end

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

Both abutments backwalls have vertical cracks with efflorescence.
pile have abrasion at lower 5'.

A-54 - Sealable Deck Cracks (Y)

deck has map cracking at joints

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

joints have debris impaction

A-59 - Joint Repair Needed (Yes)

joint at bent 5 has lost bond



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ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	10523	10350	173	0	0
1120	Efflorescence/Rust Staining	SF	8	0	8	0	0
1130	Cracking (RC and Other)	SF	165	0	165	0	0
(12) Map cracking at most joints							
107	Steel Open Girder/Beam	LF	1500	1497	2	1	0
1000	Corrosion	LF	3	0	2	1	0
515	Steel Protective Coating	SF	10230	0	10227	3	0
3440	Effectiveness (Steel Protective Coatings)	LF	10230	0	10227	3	0
(107) Bent 1 beam 1 has 2' of flaking rust on bottom flange and lower web							
(515-107) Bent 1 beam 1 has 3' of flaking rust on bottom flange and lower web							
215	Reinforced Concrete Abutment	LF	70	54	16	0	0
1130	Cracking (RC and Other)	LF	16	0	16	0	0
(215) Scattered cracks in back wall of both abutment.							
227	Reinforced Concrete Pile	EA	25	0	25	0	0
1190	Abrasion/Wear (PSC/RC)	EA	25	0	25	0	0
(227) All of the pile have some minor abrasion on the bottom three feet above the channel bottom.							
234	Reinforced Concrete Pier Cap	LF	165	165	0	0	0
302	Compression Joint Seal	LF	244	132	112	0	0
2320	Seal Adhesion	LF	12	0	12	0	0
2350	Debris Impaction	LF	100	0	100	0	0
(302) Closed cell foam material, glued in place.							
Joint seal at bent 5 has lost adhesion							
311	Movable Bearing	EA	35	35	0	0	0
313	Fixed Bearing	EA	35	34	0	1	0
1000	Corrosion	EA	1	0	0	1	0
(313) Laminating rust on bearing 1 at bent 1							
331	Reinforced Concrete Bridge Railing	LF	604	576	28	0	0
1130	Cracking (RC and Other)	LF	28	0	28	0	0



Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL				
				CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	10523	10350	173	0	0
1120	Efflorescence/Rust Staining	SF	8	0	8	0	0
1130	Cracking (RC and Other)	SF	165	0	165	0	0
(12) Map cracking at most joints							

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

Comment: deck is in overall good shape



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Superstructure

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1000	Corrosion	LF	3	0	2	1	0
515	Steel Protective Coating	SF	10230	0	10227	3	0
3440	Effectiveness (Steel Protective Coatings)	LF	10230	0	10227	3	0
(107) Bent 1 beam 1 has 2' of flaking rust on bottom flange and lower web							
(515-107) Bent 1 beam 1 has 3' of flaking rust on bottom flange and lower web							

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

Comment: bent 1 beam 1 has corrosion at beam end



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Team Lead: Bryan Saunders, Inspection Date: 07/27/2023

Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
215	Reinforced Concrete Abutment	LF	70	54	16	0	0
1130	Cracking (RC and Other)	LF	16	0	16	0	0
(215) Scattered cracks in back wall of both abutment.							
227	Reinforced Concrete Pile	EA	25	0	25	0	0
1190	Abrasion/Wear (PSC/RC)	EA	25	0	25	0	0
(227) All of the pile have some minor abrasion on the bottom three feet above the channel bottom.							
234	Reinforced Concrete Pier Cap	LF	165	165	0	0	0

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

Comment: Both abutments backwalls have vertical cracks with efflorescence.
pile have abrasion at lower 5'.



Elevation



Approach looking north



Downstream



Upstream



Deck view



Soffit view



Bent 1 beam 1 bearing



Corrosion at bent 1 beam 1



Bent 1 abutment



Bent 1 joint



Bent 2 joint



Bent 3 joint



Bent 4 joint



Bent 5 joint



Bent 6 joint



Bent 7 joint



Abrasion to bottom of piles



Vines growing at abutments



Bent 7 abutment vertical cracks with efflorescence



Laminating rust on bearing 1 at bent 1



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



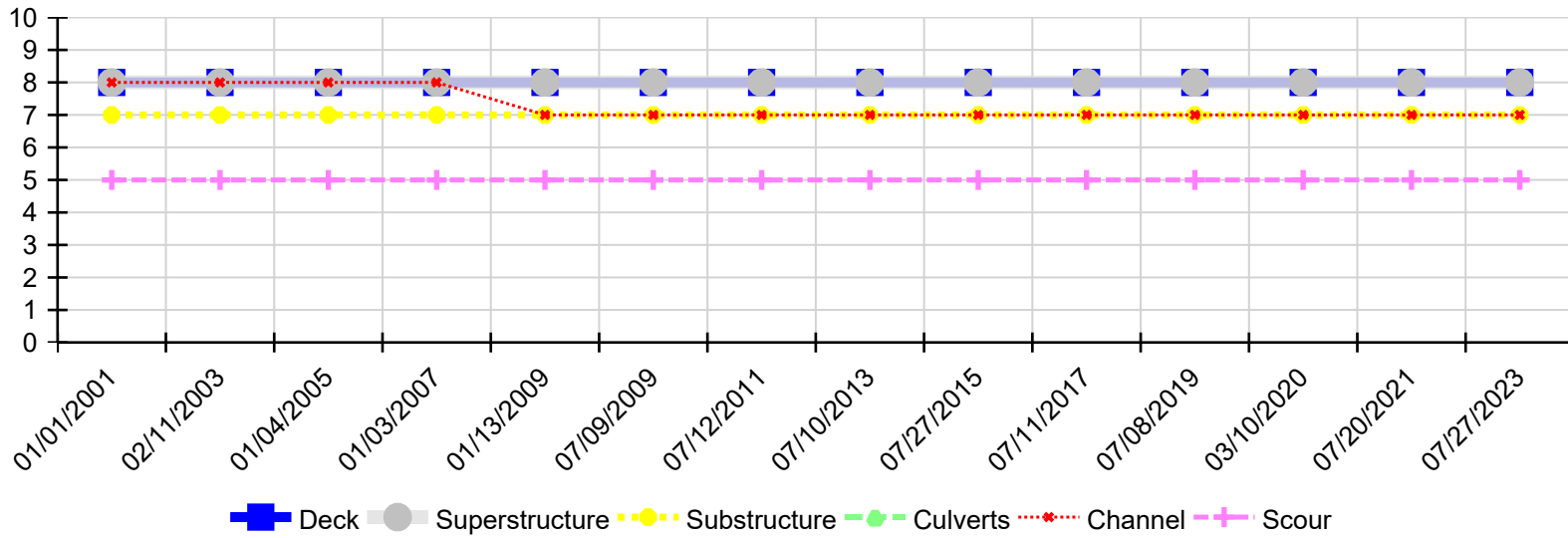
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Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/27/2023	8	8	7	N	7	5
07/20/2021	8	8	7	N	7	5
03/10/2020	8	8	7	N	7	5
07/08/2019	8	8	7	N	7	5
07/11/2017	8	8	7	N	7	5
07/27/2015	8	8	7	N	7	5
07/10/2013	8	8	7	N	7	5
07/12/2011	8	8	7	N	7	5
07/09/2009	8	8	7	N	7	5
01/13/2009	8	8	7	N	7	5
01/03/2007	8	8	7	N	8	5
01/04/2005	8	8	7	N	8	5
02/11/2003	8	8	7	N	8	5
01/01/2001	8	8	7	N	8	5