



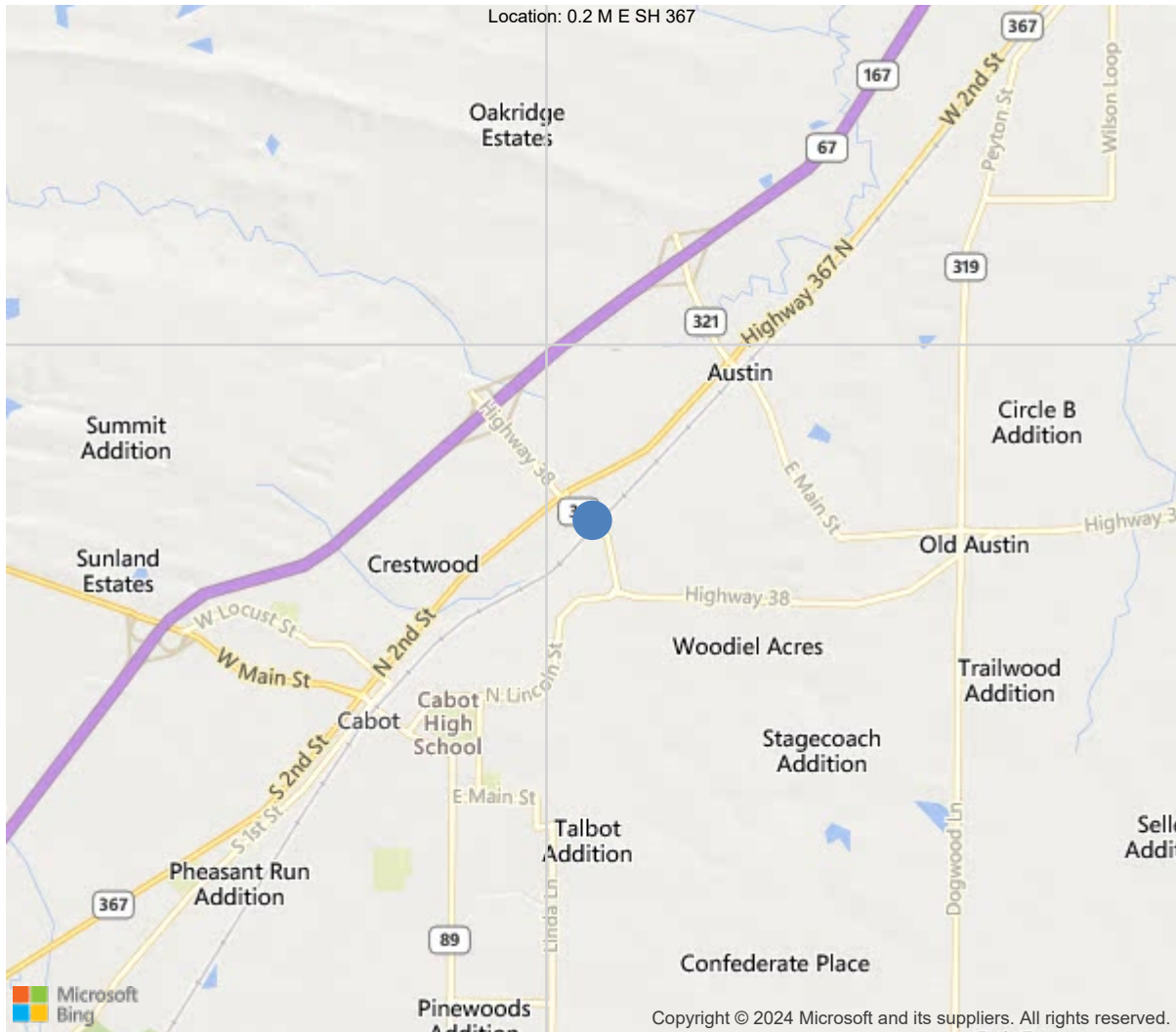
Latitude:34.98736, Longitude:-91.99597

Route:38 Section:00 Log:0.2

Arnold Road ID:43x38x0xA, Arnold Log mile:0.947

District 06, 85 - Lonoke County

Owner: 1 - State Highway Agency



34.98736, -91.99597





Asset #04845(Routine)

SH 38 over U.P.R.R.

Location: 0.2 M E SH 367

Team Lead: Bryan Saunders, Inspection Date: 07/05/2023

IDENTIFICATION	
(1) State Names	5 - Arkansas
(8) Structure Number	04845
(5) Inventory Route	1
(2) Highway Agency District	06 - District 06
(3) County Code	85 - Lonoke County
(4) Place Code	10300
(6) Features Intersected	U.P.R.R.
(7) Facility Carried	SH 38
(9) Location	0.2 M E SH 367
(11) Mile Point	0.2 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	34.98736
(17) Longitude	-91.99597
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	42
Material	4 - Steel continuous
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	3
(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	2009
(106) Year Reconstructed	0
(42) Type of Service	52
On	5 - Highway-pedestrian
Under	2 - Railroad
(28) Lane	
On	4
Under	0
(29) Average Daily Traffic	9100
(30) Year of ADT	2018
(109) Truck ADT	2 %
(19) Bypass, Detour Length	3 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	130 ft
(49) Structure Length	342 ft
(50) Curb or Sidewalk Width	
Left	6.5 ft
Right	6.5 ft
(51) Bridge Roadway Width Curb to Curb	46 ft
(52) Deck Width Out to Out	62.1 ft
(32) Approach Roadway Width (W/Shoulders)	45.9 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	59.1 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	23.33 ft
Ref:	
(55) Min Lat Underclear RT	66.6 ft
Ref:	
(56) Min Lat Underclear LT	47.1 ft
NAVIGATION DATA	
(38) Navigation Control	N - Not applicable, no waterwa
(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	16 - Urban Minor Arterial
(100) Defense Highway	0 - The inventory route is not
(101) Parallel Structure	N - No parallel structure exis
(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	8
(59) Superstructure	8
(60) Substructure	8
(61) Channel & Channel Protection	N
(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	52
(65) Inventory Rating Method	1 - Load Factor(LF)
(66) Inventory Rating	
Type	
Rating	31
(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	7
(69) Clearances, Vertical/Horizontal	9
(71) Waterway Adequacy	N
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1 - Inspected feature meets current
(36B) Transitions	N - Not applicable or a safety feat
(36C) Approach Guardrail	N - Not applicable or a safety feat
(36D) Approach Guardrail Ends	N - Not applicable or a safety feat
(113) Scour Critical Bridges	N - Bridge not over waterway.
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	10100
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date	07/05/2023		
(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		
<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>			



Asset #04845(Routine)

District: 06, County: 85 - Lonoke County

Team Lead: Bryan Saunders, Inspection Date: 07/05/2023

#### General Observation

Job # 060878, drawing # 41674 for layout.

Logged east bound.

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

deck is in overall good condition

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

super in in good condition with the exception of girder 8 at bent 4 has corrosion to lower flange up to 1' from beam end

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#### 60 - Substructure (8 - VERY GOOD CONDITION - no problems noted.)

overall in good condition except bent 4 masonry plate under beam 8  
graffiti under bridge but not in public view

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

debris are starting to accumulate

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**Team Lead:** Bryan Saunders, **Inspection Date:** 07/05/2023

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	21386	17840	3546	0	0
1120	Efflorescence/Rust Staining	SF	146	0	146	0	0
1130	Cracking (RC and Other)	SF	3400	0	3400	0	0
(12) Scattered transverse cracks on 6 foot centers that have been sealed in the past but the seal is deteriorating in all three spans. (0.030 inch avg.) Cracks with efflorescence in overhang							
107	Steel Open Girder/Beam	LF	2720	2718	2	0	0
1000	Corrosion	LF	2	0	2	0	0
515	Steel Protective Coating	SF	32741	0	32739	2	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	32741	0	32739	2	0
(107) Bent 4 beam 8 laminating rust on inside beam end (515-107) Bent 4 beam 8 laminating rust on inside beam end							
205	Reinforced Concrete Column	EA	8	8	0	0	0
215	Reinforced Concrete Abutment	LF	217	183	34	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	33	0	33	0	0
(215) Scattered cracks in both back walls Bent 4 small spalls in top of backwall							
234	Reinforced Concrete Pier Cap	LF	122	122	0	0	0
300	Strip Seal Expansion Joint	LF	92	80	12	0	0
2350	Debris Impaction	LF	12	0	12	0	0
310	Elastomeric Bearing	EA	32	32	0	0	0
330	Metal Bridge Railing	LF	644	644	0	0	0
515	Steel Protective Coating	SF	644	644	0	0	0
(330) Galvanized metal hand railing.							
331	Reinforced Concrete Bridge Railing	LF	684	656	28	0	0
1130	Cracking (RC and Other)	LF	28	0	28	0	0
(331) Scattered cracks in both rails							



Asset #04845(Routine)

SH 38 over U.P.R.R.

Location: 0.2 M E SH 367

Team Lead: Bryan Saunders, Inspection Date: 07/05/2023

## Deck

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	21386	17840	3546	0	0
1120	Efflorescence/Rust Staining	SF	146	0	146	0	0
1130	Cracking (RC and Other)	SF	3400	0	3400	0	0
(12) Scattered transverse cracks on 6 foot centers that have been sealed in the past but the seal is deteriorating in all three spans. (0.030 inch avg.) Cracks with efflorescence in overhang							

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

Comment: deck is in overall good condition



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SH 38 over U.P.R.R.

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## Superstructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
107	Steel Open Girder/Beam	LF	2720	2718	2	0	0
1000	Corrosion	LF	2	0	2	0	0
515	Steel Protective Coating	SF	32741	0	32739	2	0
3430	Oxide Film Degradation Color/Texture Adherence(Steel Protective Coatings)	LF	32741	0	32739	2	0
(107) Bent 4 beam 8 laminating rust on inside beam end							
(515-107) Bent 4 beam 8 laminating rust on inside beam end							

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

Comment: super in in good condition with the exception of girder 8 at bent 4 has corrosion to lower flange up to 1' from beam end





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SH 38 over U.P.R.R.

Location: 0.2 M E SH 367

Team Lead: Bryan Saunders, Inspection Date: 07/05/2023

## Substructure

ELEMENTS	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
205	Reinforced Concrete Column	EA	8	8	0	0	0
215	Reinforced Concrete Abutment	LF	217	183	34	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1130	Cracking (RC and Other)	LF	33	0	33	0	0
(215) Scattered cracks in both back walls Bent 4 small spalls in top of backwall							
234	Reinforced Concrete Pier Cap	LF	122	122	0	0	0

**60 - Substructure** (8 - VERY GOOD CONDITION - no problems noted.)

Comment: overall in good condition except bent 4 masonry plate under beam 8  
graffiti under bridge but not in public view



Elevation



Approach looking east



Deck view



Soffit view





Cracking at bent 4 abutment



Bent 4 typical condition



Masonry plate at bent 4 beam 8



Corrosion/laminated rust at bent 4 beam 8





Trees and vines growing at bent 2 and 3



Joint at bent 1 has debris impaction



Joint at bent 1 needs cleaning



Deck has sealable transverse cracks





Transverse cracks in deck



Joint at bent 4 typical for all joints



Span 3 longitudinal crack up to 0.015"



Bent 4 beam 8 laminating rust on inside of beam end

**Maintenance Needs**

**Date Reported:** 07/06/2023

**Priority:** C - Important

**Type of Work:** Miscellaneous

**Status:** Open

**Component:** Miscellaneous

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**Deficiency Description**

Erosion at bent 4 sidewalk on southeast end

**Remarks**

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Erosion at bent 4 ride side



**Maintenance Needs**

**Date Reported:** 07/14/2021

**Priority:** D- Routine

**Type of Work:** (Inactive) (Inactive) 1 - Clean

**Status:** Forward State

**Component:**

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**Deficiency Description**

Trees growing against columns at bents 2&3.

**Remarks**

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Trees and vines growing against columns at Bent 2



Bent 3 trees growing under bridge



**Asset #04845(Routine)**

**SH 38 over U.P.R.R.**

**Location: 0.2 M E SH 367**

**Team Lead: Bryan Saunders, Inspection Date: 07/05/2023**

## **Routine Maintenance**

Check Box Maintenance Items

<b>Type of Maintenance</b>	<b>Is recommended?</b>
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	No
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



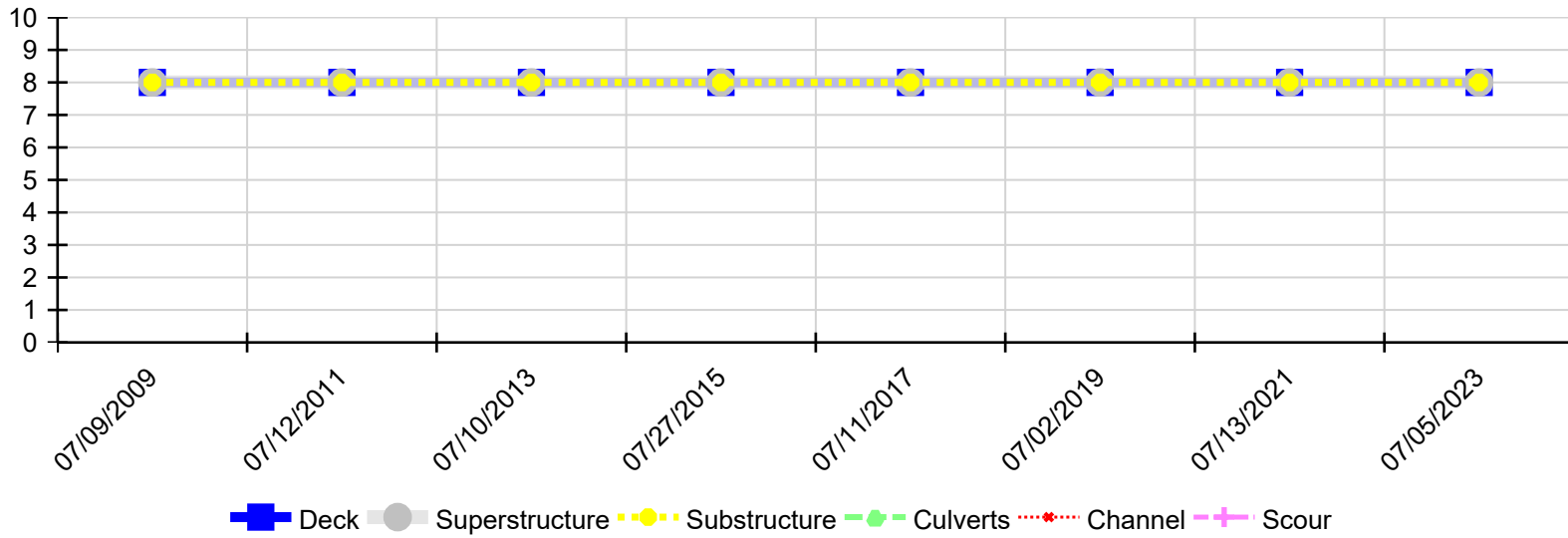
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Team Lead: Bryan Saunders, Inspection Date: 07/05/2023

### Condition History



Inspection Date	Deck	Superstructure	Substructure	Culverts	Channel	Scour
07/05/2023	8	8	8	N	N	N
07/13/2021	8	8	8	N	N	N
07/02/2019	8	8	8	N	N	N
07/11/2017	8	8	8	N	N	N
07/27/2015	8	8	8	N	N	N
07/10/2013	8	8	8	N	N	N
07/12/2011	8	8	8	N	N	N
07/09/2009	8	8	8	N	N	N