



Latitude:35.22293, Longitude:-94.28302

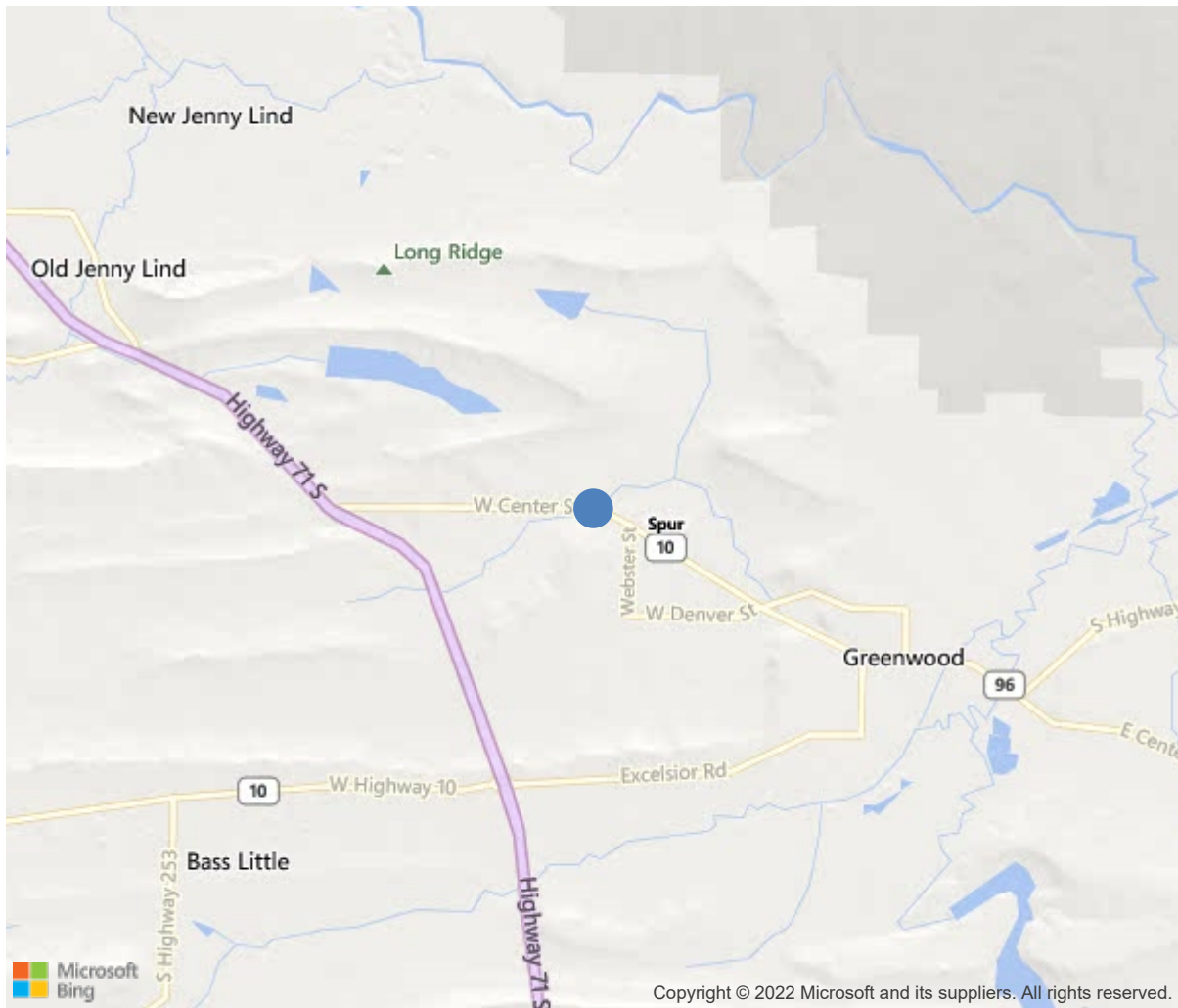
Route:10 Section:00 Log:1.3

Arnold Road ID:65x10x0SxA, Arnold Log mile:1.284

District 04, Sebastian County

Owner: 1-State Highway Agency

1.3 MI E OF JCT US 71



35.22293, -94.28302

Inspection Direction : W to E



Bridge #00332(Routine)

SH 10 Spur over Heartsill Creek-Seb. Co.

Location: 1.3 MI E OF JCT US 71

Team Lead: Eric West Inspection Date: January 06, 2022

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	00332
(5) Inventory Route	10
(2) Highway Agency District	04
(3) County Code	131-Sebastian County, Arkansas
(4) Place Code	0
(6) Features Intersected	Heartsill Creek-Seb. Co.
(7) Facility Carried	SH 10 Spur
(9) Location	1.3 MI E OF JCT US 71
(11) Mile Point	1.3 mi
(12) Base Highway Network	Yes
(13) LRS Inventory Rte & Subrte	000000100S
(16) Latitude	35.22293
(17) Longitude	-94.28302
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	14
Material	1-Concrete
Type	4-Tee beam
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	1
(46) No. of Approach Spans	0
(107) Deck Structure Type	1-Concrete Cast-in-Place
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1928
(106) Year Reconstructed	1963
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	15000
(30) Year of ADT	2018
(109) Truck ADT	2 %
(19) Bypass, Detour Length	4 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	33 ft
(49) Structure Length	35 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	36.1 ft
(52) Deck Width Out to Out	38 ft
(32) Approach Roadway Width (W/Shoulders)	36.1 ft
(33) Bridge Median	0-No median
(34) Skew	17 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	37.4 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 water
(111) Pier Protection	1-Navigation protection not requ
(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 a S
(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 part of
(20) Toll	3-On free road. The structure is toll-
(21) Maintain	1-State Highway Agency
(22) Owner	1-State Highway Agency
(37) Historical Significance	5-Bridge is not eligible for the NRHP
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	1
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	7
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	7
(36A) Bridge Railings	0-Inspected feature does not meet cur
(36B) Transitions	0-Inspected feature does not meet cur
(36C) Approach Guardrail	0-Inspected feature does not meet cur
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(113) Scour Critical Bridges	8-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	58 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 148
(96) Total Project Cost	\$ 302
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	19000
(115) Year of Future ADT	2038

INSPECTIONS *			
(90) Inspection Date			01/2022
(91) Frequency			24 Months
(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.			



Bridge #00332(Routine)
SH 10 Spur over Heartsill Creek-Seb. Co.
Location: 1.3 MI E OF JCT US 71

Team Lead: Eric West, **Inspection Date:** January 06, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	1330	1266	41	23	0
1120	Efflorescence/Rust Staining	SF	25	0	2	23	0
1130	Cracking (RC and Other)	SF	39	0	39	0	0
510	Wearing Surfaces	SF	1263	1114	0	149	0
3220	Crack (Wearing Surface)	SF	149	0	0	149	0
(16)							
-Bay # 1 undersurface has discoloration with a hairline longitudinal crack in center of bay that extends approximately 25' from abutment # 1 towards mid-span. The undersurface of bay # 1 has transverse cracking without efflorescence in the Northeast corner adjacent to abutment # 2. -Bay #6 undersurface at abutment # 1 has discoloration with leaching and several transverse cracks with efflorescence. Two of the transverse cracks propagate vertically down girder # 7.							
110	Reinforced Concrete Open Girder/Beam	LF	245	218	24	3	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1120	Efflorescence/Rust Staining	LF	5	0	2	3	0
1130	Cracking (RC and Other)	LF	21	0	21	0	0
(110)							
-Beam #4 bottom edge has a softball sized spall with no exposed reinforcing steel located approximately 2' from abutment # 1. -Tee beams have vertical hairline cracks that are on approximately 2' centers near mid-span. -Beam #6 has a vertical crack with efflorescence buildup adjacent to abutment #1. -Beam #7 adjacent to abutment # 1 has an area of light scaling to interior and exterior sides that is approximately 9' in length with two full height hairline cracks with efflorescence. The cracks propagate into the slab undersurface. The area of scaling is captured in the Delamination/Spall/Patched Area defect.							
215	Reinforced Concrete Abutment	LF	130	15	112	3	0
1120	Efflorescence/Rust Staining	LF	4	0	2	2	0
1130	Cracking (RC and Other)	LF	22	0	22	0	0
1190	Abrasion/Wear (PSC/RC)	LF	89	0	88	1	0
(215)							
-Abutment # 1 cracks have moderate efflorescence. -Abutment # 1 Rt and monolithic Southwest wing wall has a few diagonal and vertical cracks. The cracks have staining and efflorescence in locations. -Abutment #2 cracks have light efflorescence. -The base of abutments # 1 and # 2 have light abrasion.							
330	Metal Bridge Railing	LF	70	46	24	0	0
1000	Corrosion	LF	24	0	24	0	0
515	Steel Protective Coating	SF	282	211	28	28	15
3440	Effectiveness (Steel Protective Coatings)	SF	71	0	28	28	15

Bridge #00332(Routine)
SH 10 Spur over Heartsill Creek-Seb. Co.
Location: 1.3 MI E OF JCT US 71

Team Lead: Eric West, **Inspection Date:** January 06, 2022

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
(330)							
-The majority of the right bridge railing has a failing protective coating with rust forming. -The right concrete curb has a softball sized spall with exposed reinforcing steel at abutment # 1. -The left concrete curb has areas of concrete deterioration / spalling adjacent to bridge railing posts # 1 and # 2.							



Abutment #1 beam #1 vertical crack with efflorescence buildup.



Abutment #2 typical.



Beam #7 scaling and cracking.



Bay #6 cracking with efflorescence buildup.



Typical undersurface of the deck.



Typical driving surface of the deck.



Roadway

Maintenance Needs

Date Reported: 03/05/2012
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Inspection Direction W to E
Component: Approach

Deficiency Description

Approach Roadways -

There is minor asphalt settlement adjacent to the bridge ends with failing asphalt repairs.

Remarks



Asphalt settlement at the approaches



The East and West approach roadways have settlement with failing asphalt repairs at the bridge ends. East approach pictured.



The East and West approach roadways have settlement with failing asphalt repairs at the bridge ends. West approach pictured.

Date Reported: 12/04/2019
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Inspection Direction W to E
Component: 330 - Metal Bridge Railing

Deficiency Description

R.C. Concrete curbs-

The right concrete curb has a softball sized spall with exposed reinforcing steel at abutment # 1.

The left concrete curb has areas of concrete deterioration / spalling adjacent to bridge railing posts # 1 and # 2.

Remarks



The right concrete curb has a softball sized spall with exposed reinforcing steel. The left concrete curb has areas of concrete deterioration / spalling adjacent to bridge railing posts # 1 and # 2.



Bridge #00332(Routine)
SH 10 Spur over Heartsill Creek-Seb. Co.
Location: 1.3 MI E OF JCT US 71

Team Lead: Eric West **Inspection Date:** January 06, 2022

Inspection Comments

12/19/2017 JPB & SPC-Routine Inspection conducted on this date.

01/14/2016 - JCJ & JML - Type 2 Underwater Inspection - Wading and probing during deep and clear water conditions indicate that portions of the Bent # 2 footing are exposed with no apparent scour problems at this inspection. Solid rock channel is exposed in areas adjacent to the footing at this inspection.