



Latitude:33.97745, Longitude:-91.59739

Route:114 Section:02 Log:6.64

Arnold Road ID:40x114x2xA, Arnold Log mile:6.636

District 02, Lincoln County

Owner: 1-State Highway Agency



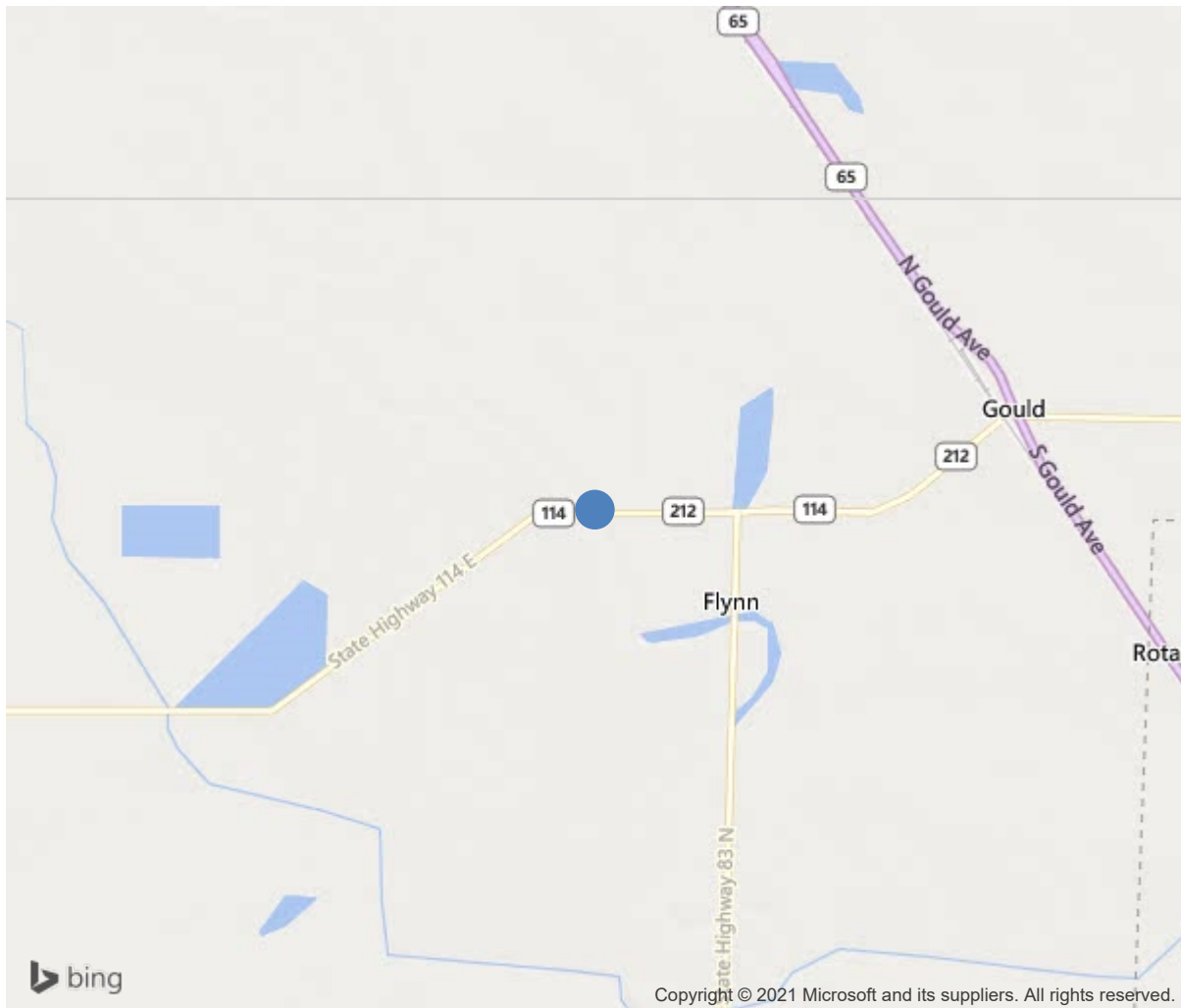
Bridge #02895(Routine, Underwater type 2)

SH 114-02 LM 6.64 over Chotaw Bayou

Location: 0.5 M W SH 83-Gould

Team Lead: Greg Loomis Inspection Date: December 29, 2020

0.5 M W SH 83-Gould



33.97745, -91.59739



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02895
(5) Inventory Route	114
(2) Highway Agency District	02
(3) County Code	79-Lincoln County, Arkansas
(4) Place Code	0
(6) Features Intersected	Chotaw Bayou
(7) Facility Carried	SH 114-02 LM 6.64
(9) Location	0.5 M W SH 83-Gould
(11) Mile Point	6.64 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.97745
(17) Longitude	-91.59739
(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	2
(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	1954
(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	930
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	20 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	28 ft
(49) Structure Length	56 ft
(50) Curb or Sidewalk Width	
Left	1.2 ft
Right	1.2 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	26.5 ft
(32) Approach Roadway Width (W/Shoulders)	22 ft
(33) Bridge Median	0-No median
(34) Skew	0 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24 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	5-None present but re-evaluation
(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 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	7
(59) Superstructure	7
(60) Substructure	6
(61) Channel & Channel Protection	7
(62) Culverts	N
LOAD RATING AND POSTING	
(31) Design Load	2-M 13.5 / H 15
(63) Operating Rating Method	1
(64) Operating Rating	
Type	1-Load Factor(LF)
Rating	45
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	2
Rating	27
(70) Bridge Posting	5-Equal to or above legal loads
(41) Structure Open/Posted/Closed	A-Open, no restriction
APPRAISAL	
(67) Structural Evaluation	6
(68) Deck Geometry	4
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36) Traffic Safety Features	0000
A) Bridge Railings	0-Inspected feature does not meet cur
B) Transitions	0-Inspected feature does not meet cur
C) Approach Guardrail	0-Inspected feature does not meet cur
D) Approach Guardrail Ends	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	5-Bridge foundations determined to be
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	919
(115) Year of Future ADT	2028
INSPECTIONS	
(90) Inspection Date	
(91) Frequency	24 Months
(92) Critical Feature Inspection	Done Freq. (Mon) Date
A: Fracture Critical Detail	No 24
B: Underwater Inspection	No 0
C: Other Special Inspection	No 0



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
38	RC Slab	SF	1484	1480	4	0	0
1080	Delamination/Spall/Patched Area	SF	4	0	4	0	0
510	Wearing Surfaces	SF	1232	924	308	0	0
3220	Crack (Wearing Surface)	SF	308	0	308	0	0
(38)							
Deck: 26'-6" wide x 56' long = 1484 sqft. Wearing surface: 22' wide x 56' long = 1232 sqft. Wearing surface - all spans: Some scattered minor- to moderate-sized cracking, mainly in wheel ruts. with some minor-sized transverse cracking at joints.							
Soffit - all spans: Some minor deterioration around drain holes.							
215	Reinforced Concrete Abutment	LF	69	52	17	0	0
1080	Delamination/Spall/Patched Area	LF	1	0	1	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
6000	Scour	LF	15	0	15	0	0
(215)							
Abutments: 27'-6" = 28' each (with 4'-3" wings each corner) / Bents 1 & 3. Bent 3: Very small spall with rebar exposed. End-slope - Bent 3: Some minor (4-6") of settlement under abutment cap, mainly from center to left side.							
227	Reinforced Concrete Pile	EA	4	4	0	0	0
(227)							
Piling: 4 per bent / Bent 2.							
234	Reinforced Concrete Pier Cap	LF	28	15	13	0	0
1080	Delamination/Spall/Patched Area	LF	7	0	7	0	0
1120	Efflorescence/Rust Staining	LF	6	0	6	0	0
(234)							
Cap: 27'-6" = 28' each / Bent 2. Bent 2: Some minor cracking/delaminations/spalling on back face of cap, with some efflorescence on ahead face.							
301	Pourable Joint Seal	LF	24	0	0	24	0
2350	Debris Impaction	LF	24	0	0	24	0
(301)							
Joints: 24' each / Bent 2. Entire joint is CS3 impacted due to asphalt overlay.							
330	Metal Bridge Railing	LF	112	112	0	0	0

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
515	Steel Protective Coating	SF	280	0	280	0	0
3410	Chalking (Steel Protective Coatings)	SF	280	0	280	0	0
(330)							
Railing: 56' each side.							
Coating/paint: 2.5 square feet per linear feet of railing.							
Metal railing on concrete posts.							
Paint is dull and faded and has a few places where primer or corrosion is showing through.							



Roadway view



Deck - Spans 1-2: Typical



Soffit - Span 2: Typical



Cap - Bent 2 back right: Cracking/delamination

Maintenance Needs

Date Reported: 01/26/2011
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: 234 - Reinforced Concrete Pier Cap

Deficiency Description

Caps –

Bent 2: Some minor cracking/delaminations/spalling on back face of cap, with some efflorescence on ahead face.

Bent 3: Very small spall with rebar exposed.

Remarks



Abutment bent 3 spall with exposed rebar



Cracks with with efflorescence on cap 2 behind



Bent 2 cap has spalls and Delams.

Date Reported: 12/29/2020
Priority: D- Routine
Type of Work: Repair
Status: Open
Component: Approach

Deficiency Description

Approach roadway - Bent 3: Some deterioration/cracking of asphalt wearing surface with some settlement in wheel ruts of left lane right at bridge end.

End-slope - Bent 3: Some minor (4-6") of settlement under abutment cap, mainly from center to left side.

Remarks



Abutment - Bent 3: Settlement of end-slope



Approach roadway - Bent 3:
Deterioration/settlement



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Inspection Comments

Bridge is logged from west to east.

Beginning of structure toward SH 11, Fresno, West End.