



Latitude:35.75646, Longitude:-90.13648

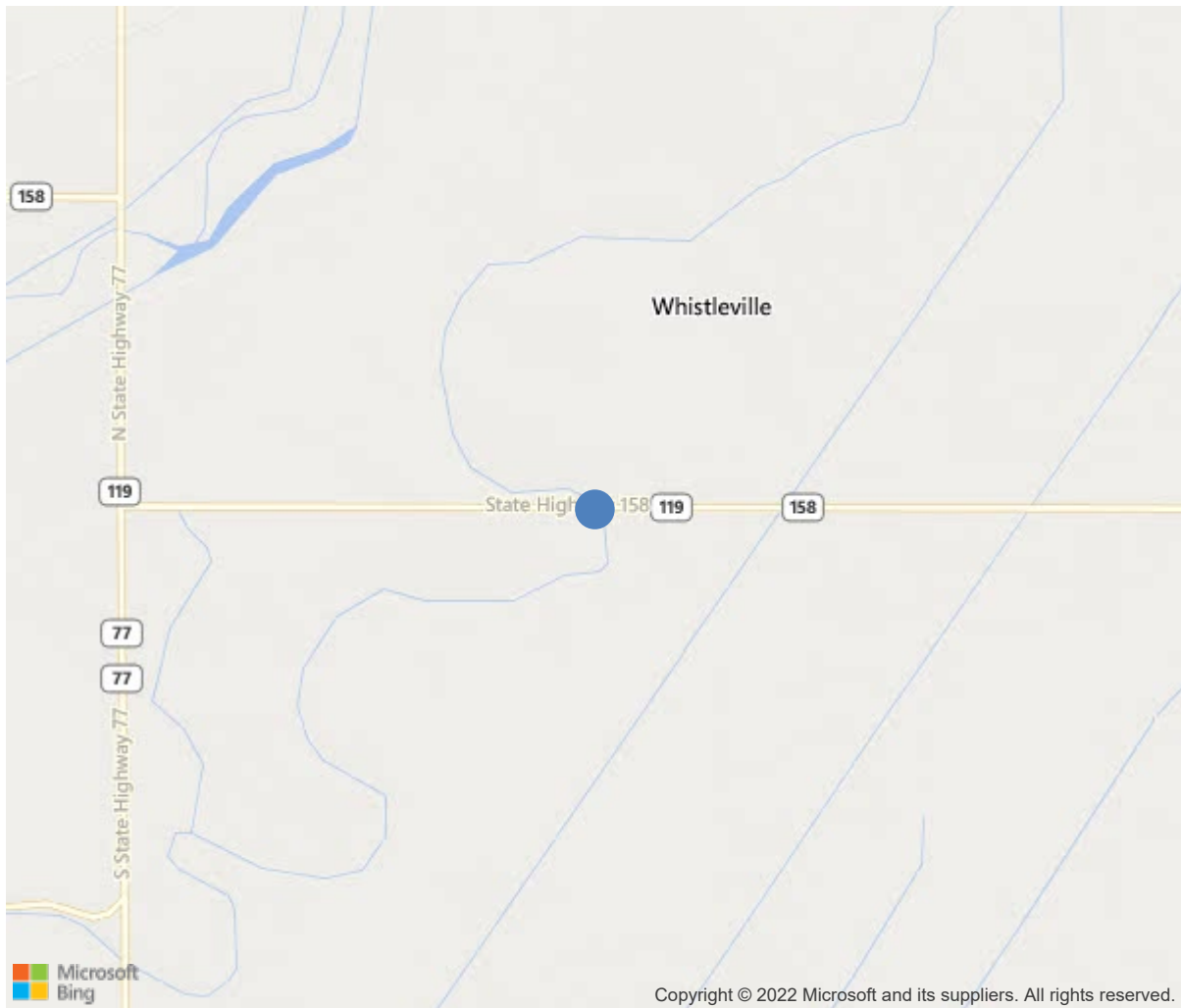
Route:158 Section:01 Log:12.48

Arnold Road ID:47x158x1xA, Arnold Log mile:12.501

District 10, Mississippi County

Owner: 1-State Highway Agency

2.32 M. E. Jct. S.H. 77



35.75646, -90.13648

Inspection Direction : E to W



Bridge #06833(Routine)

SH 158-01-LM 12.48 over L. H. Chute of Little R.

Location: 2.32 M. E. Jct. S.H. 77

Team Lead: Tim Myrick Inspection Date: June 15, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	06833
(5) Inventory Route	158
(2) Highway Agency District	10
(3) County Code	93-Mississippi County, Arkansa
(4) Place Code	0
(6) Features Intersected	L. H. Chute of Little R.
(7) Facility Carried	SH 158-01-LM 12.48
(9) Location	2.32 M. E. Jct. S.H. 77
(11) Mile Point	12.48 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.75646
(17) Longitude	-90.13648
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1-Concrete
Type	22-Channel beam
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	4
(46) No. of Approach Spans	0
(107) Deck Structure Type	2-Concrete Precast Panels
(108) Wearing Surface/Protective System	
Type of Wearing Surface	1-Monolithic Concrete (concurrently placed
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	2001
(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	500
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	127 ft
(50) Curb or Sidewalk Width	
Left	0 ft
Right	0 ft
(51) Bridge Roadway Width Curb to Curb	31.5 ft
(52) Deck Width Out to Out	34.2 ft
(32) Approach Roadway Width (W/Shoulders)	34.1 ft
(33) Bridge Median	0-No median
(34) Skew	30 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	32.5 ft
(53) Min Vert Clear Over Bridge Rdwy	99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99 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	5
(60) Substructure	8
(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	4
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	6
(69) Clearances, Vertical/Horizontal	N
(71) Waterway Adequacy	8
(72) Approach Roadway Alignment	8
(36A) Bridge Railings	1-Inspected feature meets currently a
(36B) Transitions	1-Inspected feature meets currently a
(36C) Approach Guardrail	1-Inspected feature meets currently a
(36D) Approach Guardrail Ends	1-Inspected feature meets currently a
(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	598
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date	06/2021		
(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 #06833(Routine)

SH 158-01-LM 12.48 over L. H. Chute of Little R.

Location: 2.32 M. E. Jct. S.H. 77

Team Lead: Tim Myrick, Inspection Date: June 15, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	4344	4306	23	15	0
1080	Delamination/Spall/Patched Area	SF	38	0	23	15	0
110	Reinforced Concrete Open Girder/Beam	LF	1116	69	1020	27	0
1080	Delamination/Spall/Patched Area	LF	2	0	2	0	0
1090	Exposed Rebar	LF	1	0	1	0	0
1120	Efflorescence/Rust Staining	LF	744	0	744	0	0
1130	Cracking (RC and Other)	LF	300	0	273	27	0
215	Reinforced Concrete Abutment	LF	79	79	0	0	0
225	Steel Pile	EA	15	0	15	0	0
1000	Corrosion	EA	15	0	15	0	0
234	Reinforced Concrete Pier Cap	LF	126	126	0	0	0
321	Reinforced Concrete Approach Slab	SF	2008	1947	61	0	0
1130	Cracking (RC and Other)	SF	61	0	61	0	0
331	Reinforced Concrete Bridge Railing	LF	255	241	14	0	0
1090	Exposed Rebar	LF	2	0	2	0	0
1130	Cracking (RC and Other)	LF	12	0	12	0	0



E toW





Maintenance Needs

Date Reported: 08/04/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Top of deck units, mostly on ends over bents.
Several small popouts and/or shelled out areas

Remarks



Span 4 unit 4 over bent 4.

Date Reported: 08/04/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Superstructure

Deficiency Description

Several Girders have longitudinal cracking on bottoms and sides of girders 2" to 3" up from bottom of girders.
Span 1 units 1, 2, 3, 7, 8, & 9 have longitudinal cracks with rust stains.
Span 1 units 4, 5, & 6 have longitudinal cracks.
Span 1 unit 7 has a few vertical cracks with efflorescence stains.
Span 1 unit 9 has 1' of exposed rebar.
Span 2 units 1, 2, 3, 7, 8, & 9 have longitudinal cracks with rust stains.
Span 3 units 1, 2, 3, 7, 8, & 9 have longitudinal cracks with rust stains.
Span 3 unit 9 large crack mid span.
Span 4 unit 2 1' x 1' shell out with exposed rebar
Span 4 unit 1, 2, 3, 7, 8, & 9 have longitudinal crack with rust stains.
Span 4 Unit 6 Girder has a 6" diameter spall 1/2" deep, no rebar exposed.

Remarks



Span 1 unit 2.



S4 unit 2



S3 unit 9



S3 units 1 @ 2



S4 unit 1



S1 unit1



S1 unit 3 @ 4



S1 units 6 @ 7



S1 unit 9



S2 units 8 @ 9



Bridge #06833(Routine)

SH 158-01-LM 12.48 over L. H. Chute of Little R.

Location: 2.32 M. E. Jct. S.H. 77

Team Lead: Tim Myrick **Inspection Date:** June 15, 2021

Date Reported: 08/04/2011
Priority: C - Important
Type of Work: Repair
Status: Monitor
Component: Deck

Deficiency Description

Top of deck units.
A few areas of grout missing

Remarks

Date Reported: 06/04/2015
Priority: G - General/ Preventive maintenance
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Steel Shell Pile Encasements have some rust forming near ground line.

Remarks



Bent 2 pile 2 pile encasement.



Bridge #06833(Routine)

SH 158-01-LM 12.48 over L. H. Chute of Little R.

Location: 2.32 M. E. Jct. S.H. 77

Team Lead: Tim Myrick **Inspection Date:** June 15, 2021

Date Reported: 06/01/2017

Priority: D- Routine

Type of Work: Clean

Status: Assigned

Component: Channel

Deficiency Description

Tree lodged across span 3 with minor drift.
Trees & brush on channel banks.

Remarks

to Miss One Crew for review

Date Reported: 06/01/2017
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component: Substructure

Deficiency Description

Back wall portion of abutments exposed to traffic have spalls with no exposed rebar (see photo).

Remarks





Bridge #06833(Routine)

SH 158-01-LM 12.48 over L. H. Chute of Little R.

Location: 2.32 M. E. Jct. S.H. 77

Team Lead: Tim Myrick Inspection Date: June 15, 2021

Inspection Comments

Deck Notes

Concrete rails have a few moderate width cracks with a few small spalls with exposed rebar.

Concrete approach slabs have moderate width cracks.

Poured joint material missing over bents.

Top of Deck Units has several spalled or delaminated areas and a few areas of grout missing, mostly on ends over bents, some have been repaired with asphalt. Back wall portion of abutments exposed to traffic have spalls with no exposed rebar.

Superstructure Notes

Several Girders have longitudinal cracking on bottoms and sides of girders 2" to 3" up from bottom of girders.

Span 1 units 1, 2, 3, 7, 8, & 9 have longitudinal cracks with rust stains.

Span 1 units 4, 5, & 6 have longitudinal cracks.

Span 1 unit 7 has a few vertical cracks with efflorescence stains.

Span 1 unit 9 has 1' of exposed rebar.

Span 2 units 1, 2, 3, 7, 8, & 9 have longitudinal cracks with rust stains.

Span 3 units 1, 2, 3, 7, 8, & 9 have longitudinal cracks with rust stains.

Span 3 unit 9 large crack mid span.

Span 4 unit 2 1' x 1' shell out with exposed rebar

Span 4 unit 1, 2, 3, 7, 8, & 9 have longitudinal crack with rust stains.

Span 4 Unit 6 Girder has a 6" diameter spall 1/2" deep, no rebar exposed.

Substructure Notes

Steel shell pile encasements have some rust forming near ground line.

Tree lodged across span 3 with large drift. Especially Bents 3 & 4.

Trees & brush on channel banks.