



Latitude:35.38494, Longitude:-91.23030

Route:17 Section:06 Log:1.929

Arnold Road ID:34x17x6xA, Arnold Log mile:1.913

District 05, Jackson County

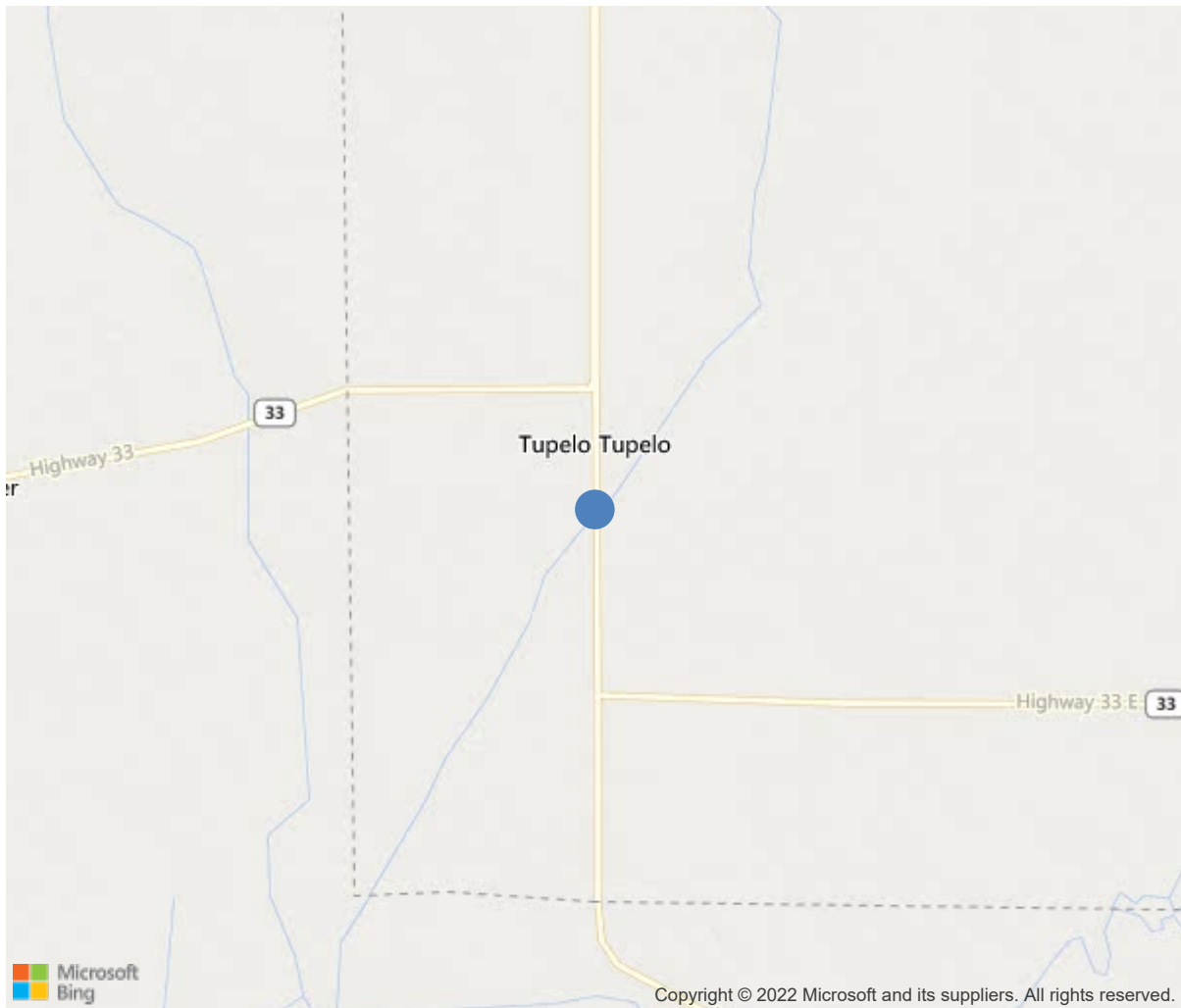
Owner: 1-State Highway Agency



Bridge #02528(Routine)
SH 17/Jackson Co. over OVERCUP DITCH
Location: SOUTH EDGE OF TUPELO

Team Lead: Kerry Little **Inspection Date:** December 13, 2021

SOUTH EDGE OF TUPELO



35.38494, -91.23030

Inspection Direction : S to N



Bridge #02528(Routine)
SH 17/Jackson Co. over OVERCUP DITCH
Location: SOUTH EDGE OF TUPELO

Team Lead: Kerry Little Inspection Date: December 13, 2021

IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	02528
(5) Inventory Route	17
(2) Highway Agency District	05
(3) County Code	67-Jackson County, Arkansas
(4) Place Code	0
(6) Features Intersected	OVERCUP DITCH
(7) Facility Carried	SH 17/Jackson Co.
(9) Location	SOUTH EDGE OF TUPELO
(11) Mile Point	1.929 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	35.38494
(17) Longitude	-91.2303
(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	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	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1948
(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	870
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	13 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	34 ft
(49) Structure Length	105 ft
(50) Curb or Sidewalk Width	
Left	1.6 ft
Right	1.6 ft
(51) Bridge Roadway Width Curb to Curb	24 ft
(52) Deck Width Out to Out	28 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	27.2 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	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	4
(60) Substructure	5
(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	44
(65) Inventory Rating Method	1-Load Factor(LF)
(66) Inventory Rating	
Type	3
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
(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	0-Inspected feature does not meet cur
(113) Scour Critical Bridges	5-Bridge foundations determined to be
PROPOSED IMPROVEMENTS	
(75) Type of Work	Replacement of bridge or other
(76) Length of Structure Improvement	132 ft
(94) Bridge Improvement Cost	\$ 0
(95) Roadway Improvement Cost	\$ 117
(96) Total Project Cost	\$ 350
(97) Year of Improvement Cost Estimate	2002
(114) Future ADT	1280
(115) Year of Future ADT	2028

INSPECTIONS *			
(90) Inspection Date			12/2021
(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.			

Team Lead: Kerry Little, **Inspection Date:** December 13, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
12	Reinforced Concrete Deck	SF	2678	2488	190	0	0
1120	Efflorescence/Rust Staining	SF	150	0	150	0	0
1130	Cracking (RC and Other)	SF	40	0	40	0	0
510	Wearing Surfaces	SF	2384	2264	90	30	0
3220	Crack (Wearing Surface)	SF	100	0	70	30	0
3210	Delam/Spall/Patched Area/Pothole	SF	20	0	20	0	0
(12)							
Transverse cracks to Left and Right curbs. Efflorescent cracks to Left & Right overhangs and to Concrete haunch between ends of girders. Asphalt overlay cracked at Joints and minor cracking to all spans. Asphalt overlay @ Span 2 is beginning to pothole.							
107	Steel Open Girder/Beam	LF	515	172	250	91	2
1000	Corrosion	LF	342	0	250	90	2
1900	Distortion	LF	1	0	0	1	0
515	Steel Protective Coating	SF	3157	1737	1000	200	220
3440	Effectiveness (Steel Protective Coatings)	SF	1420	0	1000	200	220
(107)							
Rust to ends of girders with moderate to severe section loss to webs @: Span 1 - Girder 1 & 5 @ beg. & end of span. Span 2 - Girder 1 & 5 @ beg. & end of span. Span 3 - Girder 1 & 5 @ beg. of span. Span 3 - Girders 2 & 4 have large holes in web below haunch @ beginning of span. Hole in diaphragm between Girders 1 & 2 @ beginning of Span 3.							
215	Reinforced Concrete Abutment	LF	80	68	12	0	0
6000	Scour	LF	12	0	12	0	0
(215)							
Erosion to slope at Spans 1 & 3.							
227	Reinforced Concrete Pile	EA	8	5	0	3	0
6000	Scour	EA	3	0	0	3	0
(227)							
Scour to Piles @ Bents 1 & 2.							
234	Reinforced Concrete Pier Cap	LF	56	53	0	3	0
1090	Exposed Rebar	LF	3	0	0	3	0
(234)							

Team Lead: Kerry Little, **Inspection Date:** December 13, 2021

ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
Bent 2 has Spalls with 2' of exposed rebar to the Right end of Cap and 6" to the bottom Left end.							
305	Assembly Joint without Seal	LF	122	0	0	122	0
2350	Debris Impaction	LF	122	0	0	122	0
(305)							
Joints are not visible due to asphalt overlay.							
311	Movable Bearing	EA	15	6	9	0	0
1000	Corrosion	EA	9	0	9	0	0
515	Steel Protective Coating	SF	30	0	10	10	10
3440	Effectiveness (Steel Protective Coatings)	SF	30	0	10	10	10
(311)							
Bearings are beginning to rust with minor section loss.							
313	Fixed Bearing	EA	15	0	11	4	0
1000	Corrosion	EA	15	0	11	4	0
515	Steel Protective Coating	SF	30	0	10	10	10
3440	Effectiveness (Steel Protective Coatings)	SF	30	0	10	10	10
(313)							
Bearings are beginning to rust with minor section loss.							
331	Reinforced Concrete Bridge Railing	LF	210	189	5	10	6
1080	Delamination/Spall/Patched Area	LF	10	0	0	10	0
1090	Exposed Rebar	LF	5	0	5	0	0
7000	Damage	LF	6	0	0	0	6
(331)							
Span 1 (Rt) End post & Posts 3, 4, 5 & 6 are spalled & cracked. Span 2 (Lt) Post 2 (Rt) Post 1, 2, 3, 5 & 6 are spalled & cracked. Span 3 (Lt) Post 1, 2, 5 & 6 Spalled & cracked. Top rail missing. Minor transverse cracking to curbs.							



Roadway with log mile looking north.



Overall deck.



Overall soffit @ span 2.



Efflorescent cracks to Left & Right overhangs and to Concrete haunch between ends of girders.



Typical cracks to soffit.



Typical cracks to wearing surface @ all joints.



Typical corrosion to girders @ all spans.



Girder 1 @ beginning of span 3 has out of plane bending & severe sections loss.



Spalls with rebar exposed to Lt & Rt ends of bent 2.



Typical corrosion to bearings @ all bents.



Span 3 - Girders 2 & 4 have large holes in web below haunch @ beginning of span.
Girders 4



Span 3 - Girders 2 & 4 have large holes in web below haunch @ beginning of span.
Girder 2.

Maintenance Needs

Date Reported: 01/10/2012
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component:

Deficiency Description

Girder Ends over Bent 1
Rust with minor to moderate section loss.

Remarks



Girder Ends over Bent 1
Rust with minor to moderate section loss.



Girder Ends over Bent 1
Rust with minor to moderate section loss.

Date Reported: 01/10/2012
Priority: D- Routine
Type of Work: Repair
Status: Monitor
Component:

Deficiency Description

Bent 2 Cap
Spall with 2' of exposed rebar to Right end & 6" to Left end.

Remarks



Bent 2 Right end.



Bent 2 Cap
Spall with 2' of exposed rebar to Right end & 6" to Left end.

Date Reported: 01/03/2014
Priority: C - Important
Type of Work: Repair
Status: Assigned
Component:

Deficiency Description

Girders over Bent 2 near paving haunch have Rust with moderate to severe section loss.

Remarks



Girder 2 @ Bent 2.



Girders over Bent 2 near paving haunch have Rust with moderate to severe section loss.



Bridge #02528(Routine)
SH 17/Jackson Co. over OVERCUP DITCH
Location: SOUTH EDGE OF TUPELO

Team Lead: Kerry Little Inspection Date: December 13, 2021

Date Reported: 12/18/2017

Priority: D- Routine

Type of Work: None

Status: Monitor

Component:

Deficiency Description

Typical spalls to concrete post @:
Span 1 (Rt) Post 3, 4, 5 & 6
Span 2 (Lt) Post 2 (Rt) Post 1, 2, 3, 5 & 6.
Span 3 (Lt) Post 1 & 2

Remarks



Typical spalls to concrete post at :
Span 1 (Rt) Post 3, 4, 5 & 6
Span 2 (Lt) Post 2 (Rt) Post 1, 2, 3, 5 & 6.
Span 3 (Lt) Post 1 & 2



Typical spalls to concrete post @:
Span 1 (Rt) Post 3, 4, 5 & 6
Span 2 (Lt) Post 2 (Rt) Post 1, 2, 3, 5 & 6.
Span 3 (Lt) Post 1 & 2



Bridge #02528(Routine)
SH 17/Jackson Co. over OVERCUP DITCH
Location: SOUTH EDGE OF TUPELO

Team Lead: Kerry Little **Inspection Date:** December 13, 2021

Date Reported: 12/19/2017
Priority: D- Routine
Type of Work: None
Status: Assigned
Component:

Deficiency Description

Erosion to slope at Spans 1 & 3.

Remarks



Erosion to slope at Span 1.



Erosion at Abutment 2 Left side.



Erosion to slope at Spans 1 & 3.
Span 1.



Erosion to slope at Spans 1 & 3.
Span 3.



Bridge #02528(Routine)
SH 17/Jackson Co. over OVERCUP DITCH
Location: SOUTH EDGE OF TUPELO

Team Lead: Kerry Little Inspection Date: December 13, 2021

Date Reported: 12/09/2019
Priority: D- Routine
Type of Work: N/A
Status: Assigned
Component:

Deficiency Description

Log Mile sign is missing @ Abutment 2. Should read 1.93.
Repaired.

Remarks



Log Mile sign is missing @ Abutment 2. Should read 1.93.



Log Mile sign is missing @ Abutment 2. Should read 1.93.
Repaired.

Date Reported: 12/18/2017
Priority: C - Important
Type of Work: None
Status: Assigned
Component:

Deficiency Description

Span 3 - Top concrete guard rail is missing & Post 5 & 6 on Left side at Abutment 2 are broke due to collision damage.

Remarks



Span 3 - Top concrete guard rail & Post 5 & 6 on Left side at Abutment 2 are broke or missing from collision damage.



Span 3 - Top concrete guard rail is missing & Post 5 & 6 on Left side at Abutment 2 are broke due to collision damage.

Date Reported: 12/13/2021
Priority: B - Pressing; 6 month completion goal
Type of Work: Repair
Status: Open
Component: Bridge

Deficiency Description

Span 3 - Girders 2 & 4 have large holes in web below haunch @ beginning of span.
Hole in diaphragm between Girders 1 & 2 @ beginning of Span 3.

Remarks



Hole in diaphragm between Girders 1 & 2 @
beginning of Span 3.



Span 3 - Girders 2 & 4 have large holes in web
below haunch @ beginning of span.
Girders 4



Span 3 - Girders 2 & 4 have large holes in web
below haunch @ beginning of span.
Girder 2.



Bridge #02528(Routine)

SH 17/Jackson Co. over OVERCUP DITCH

Location: SOUTH EDGE OF TUPELO

Team Lead: Kerry Little **Inspection Date:** December 13, 2021

Inspection Comments

Log Mile running North.