

Bridge Inspection Report

01453

SH 367 Log 9.36

over

CYPRESS RELIEF



Inspection Date:

Inspected By:

Inspection Type(s):

Inspector:

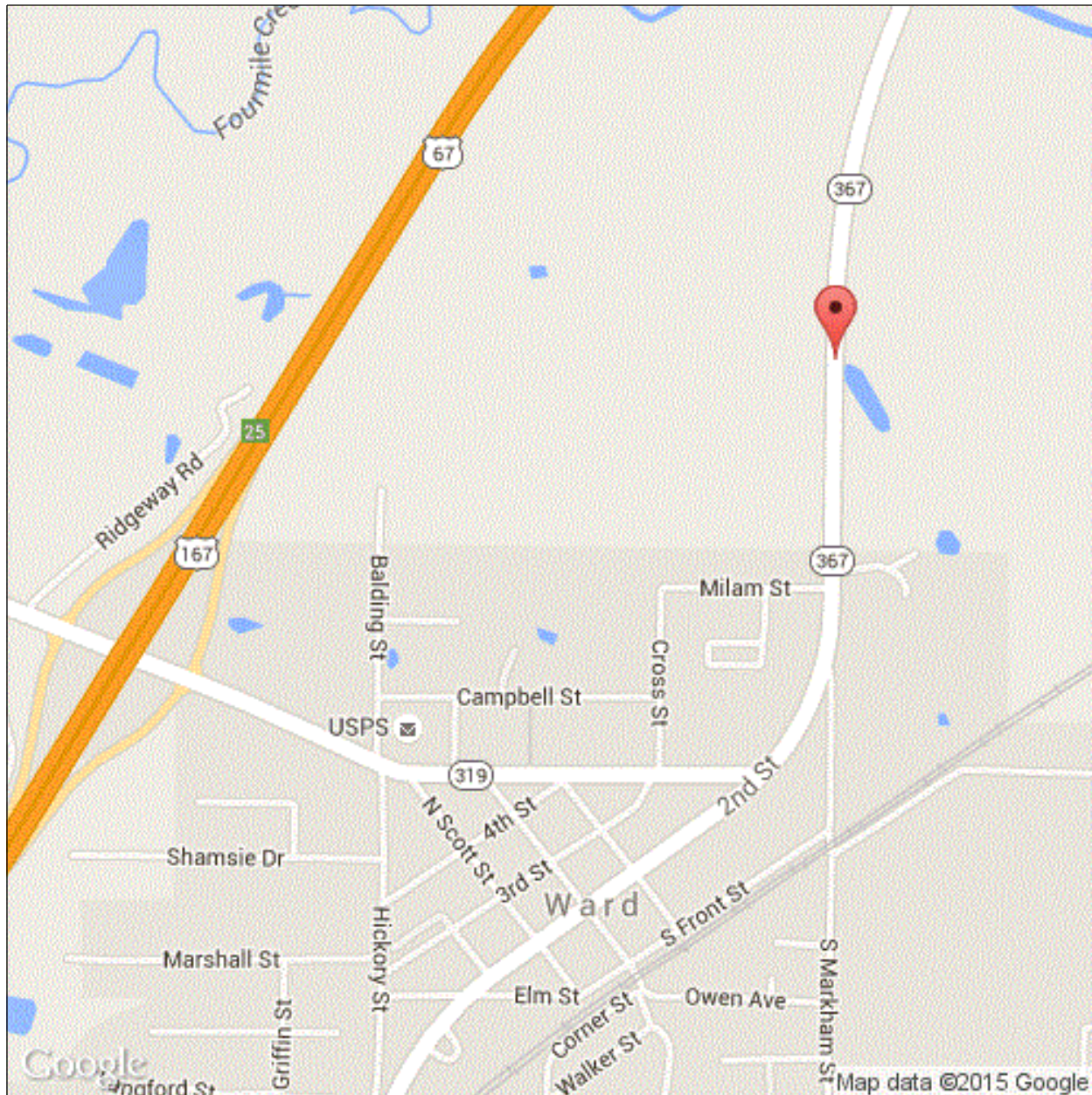
Structure Number: 01453

Inspection Date:

Facility Carried: SH 367 Log 9.36

Bridge Inspection Report

Location Map



Latitude: 35.03891

Longitude: -91.94564

Inspector:

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Bridge Inspection Report

Executive Summary

AHTD Job 6259, drawing 5727 for layout.

Logged North bound.

Section loss sketch linked.

Snooper needed.

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Bridge Inspection Report

National Bridge Inventory

IDENTIFICATION		INSPECTIONS	
(1) STATE CODE	056 - Arkansas	(90) INSPECTION DATE	09/15/2015
(8) STRUCTURE NUMBER	01453	(91) DESIGNATED INSPECTION FREQUENCY	24
(5) INV. ROUTE (ON/UNDER)	1 3 1 367 0	(92) CRITICAL FEATURE INSPECTION	(93) CFI DATE
(2) HIGHWAY AGENCY	06 (3) COUNTY CODE 085	A. FRACTURE CRITICAL DETAIL	N
(4) PLACE CODE	00000	B. UNDERWATER INSPECTION	N
(6) FEATURES INTERSECTED	CYPRESS RELIEF	C. OTHER SPECIAL	Y 24 09/27/2016
(7) FACILITY CARRIED	SH 367 Log 9.36		
(9) LOCATION	.51 MI SW OF WHITE CO LIN		
(11) MILEPOINT 9.358	(12) BASE HIGHWAY NETWORK 0		
(13A) LRS INVENTORY ROUTE	0000000000 (13B) SUBROUTE NUMBER 00		
(16) LATITUDE 35.03891	(17) LONGITUDE -91.94564		
(98A) BORDER BRIDGE CODE			
PERCENT RESPONSIBILITY	(99) BORDER BRIDGE STRUCT		
STRUCTURE TYPE AND MATERIAL		CONDITION	
(43) STRUCTURE TYPE, MAIN		(58) DECK	5
A) KIND OF MATERIAL/DESIGN: 3 - Steel		(59) SUPERSTRUCTURE	4 (60) SUBSTRUCTURE 6
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder		(61) CHANNEL & CHANNEL PROTECTION	7 (62) CULVERT N
(44) STRUCTURE TYPE, APPROACH SPANS			
A) KIND OF MATERIAL/DESIGN: 0 - Other			
B) TYPE OF DESIGN/CONSTR: 00 - Other			
(45) NUMBER OF SPANS IN MAIN 4	(46) NUMBER OF APPROACH 0		
(107) DECK STRUCTURE TYPE 1	(108A) WEARING SURFACE 1		
(108B) DECK MEMBRANE 0	(108C) DECK PROTECTION 0		
AGE OF SERVICE		LOAD RATING AND POSTING	
(27) YEAR BUILT 1939	(106) YEAR RECONSTRUCTED 0000	(31) DESIGN LOAD	2
(42) TYPE OF SERVICE ON 1 UNDER 5		(63) METHOD USED TO DETERMINE OPERATING RATING	1
(28) LANES ON 02 UNDER 00		(64) OPERATING RATING	47.0
(29) AVERAGE DAILY TRAFFIC 3300	(19) BYPASS DETOUR LENGTH 1	(65) METHOD USED TO DETERMINE INVENTORY RATING	1
(30) YEAR OF AVERAGE DAILY TRAFFIC 2014		(66) INVENTORY RATING	28.0
(109) AVERAGE DAILY TRUCK TRAFFIC 1		(70) BRIDGE POSTING	5
		(41) STRUCTURE OPEN/POSTED/CLOSED	A
GEOMETRIC DATA		APPRAISAL	
(48) LENGTH OF MAX SPAN (ft.) 32	(49) STRUCTURE LENGTH (ft.) 128	(67) STRUCTURAL EVALUATION	4
(50) CURB/SIDEWALK WIDTHS (ft.) LEFT 2 RIGHT 2		(68) DECK GEOMETRY	3
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.) 25.9		(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL	N
(52) DECK WIDTH, OUT-TO-OUT (ft.) 32.4		(71) WATERWAY ADEQUACY	8
(32) APPROACH ROADWAY WIDTH (ft.) 40.0		(72) APPROACH ROADWAY ALIGNMENT	8
(33) BRIDGE MEDIAN 0	(34) SKEW (DEG.) 0	(36) TRAFFIC SAFETY FEATURE	
(35) STRUCTURE FLARED 0	(10) INV RTE, MIN VERT CLEAR (ft.) 99.99	36A) BRIDGE RAILINGS:	0
(47) TOTAL HORIZONTAL CLEARANCE (ft.) 30.2		36B) TRANSITIONS:	0
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.) 99.99		36C) APPROACH GUARDRAIL:	0
(54) VERTICAL UNDER CLEARANCE (ft.) N 0		36D) APPROACH GUARDRAIL ENDS:	0
(55) LATERAL UNDER CLEARANCE RIGHT (ft.) N 99.9		(113) SCOUR CRITICAL BRIDGES	5
(56) MIN LATERAL UNDER CLEARANCE (ft.) 0		SUFFICIENCY RATING	1 STATUS 46.2
PROPOSED IMPROVEMENTS		CLASSIFICATION	
(75A) TYPE OF WORK PROPOSED 31	(75B) WORK DONE BY 1	(112) NBIS BRIDGE LENGTH	Y
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.) 156.0		(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE	0
(94) BRIDGE IMPROVEMENT COST (\$) 0		(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE	07
(95) ROADWAY IMPROVEMENT COST (\$) 126		(100) STRAHNET HIGHWAY DESIGNATION	0
(96) TOTAL PROJECT COST 420		(101) PARALLEL STRUCTURE DESIGNATION	N
(97) YEAR OF IMPROVEMENT COST ESTIMATE 2003		(102) DIRECTION OF TRAFFIC	2
(114) FUTURE ADT 4419	(115) YEAR OF FUTURE ADT 2028	(103) TEMP STRUCTURE	
		(105) FEDERAL LANDS HIGHWAYS	0
		(110) DESIGNATED NATIONAL NETWORK	0
		(20) TOLL	3
		(21) MAINTENANCE RESPONSIBILITY	01
		(22) OWNER	01
		(37) HISTORICAL	5
		NAVIGATION DATA	
		(38) NAVIGATION CONTROL	0
		(111) PIER OR ABUTMENT PROTECTION	1
		(39) NAV VERT CLEARANCE (ft.)	0
		(116) MIN NAVIGATION VERT CLEARANCE, VERT LIFT BRIDGE (ft.)	0
		(40) NAV HORIZONTAL CLEARANCE (ft.)	0

Agency Inventory

Structural

BRIDGE GROUP

WEARING SURFACE THICKNESS IN

WEATHERING STEEL No

PIN / HANGER No

STAY IN PLACE FORMS No

STEEL TONS Tons(41) STRUCTURE
OPEN/POSTED/CLOSED A**Location**

ROAD / ROUTE NAME SH 367

SECTION ZONE **Seismic**

SEISMIC

SEISMIC YEAR / ZONE **Notification**SCHOOL DISTRICT EMAIL OWNER EMAIL

LATE REASON N/A

Load Po**Calculated**

CODE 4 VEHICLE (22 tons)

CODE 9 VEHICLE (31 tons)

CODE 5 VEHICLE (40 tons)

Posted

Bridge Beginning

CODE 4 TonsCODE 9 TonsCODE 5 Tons**Stip**

APHN

STIP

JOB NUMBER

PROG. JOB NUMBER

OLD BRIDGE NUMBER

NEW BRIDGE NUMBER

BRIDGE CONDITION INDEX

Notes

Inspector:

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Bridge Inspection Report

Element Inspection

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12 - Reinforced Concrete Deck	1- Ben.	4187	sq. ft.	3452	0	0	735
	Spalls filled with asphalt and spall with exposed rebar are present in the deck and at the joints. All spans have transverse cracks on 4 to 6 foot centers. 0.060 inch avg.						
1090 - Exposed Rebar		110					110
1130 - Cracking (RC and Other)		625					625
107 - Steel Open Girder/Beam	1- Ben.	651	ft.	366	157	104	24
	Beam ends at bents 2,3 & 4 have active rust with pitting and section loss. See photos and section loss and repair sketch for locations and measurements. Beam ends at bents 1 and 5 have section loss repair in the past. See section loss and repair sketch.						
1000 - Corrosion		285			157	104	24
515 - Steel Protective Coating		3985	sq. ft.	0	0	2285	1700
3410 - Chalking (Steel Protective Coatings)		2285				2285	
3420 - Peeling/Bubbling/Cracking (Steel Protective Coatings)		1500					1500
3440 - Effectiveness (Steel Protective Coatings)		200					200
215 - Reinforced Concrete Abutment	1- Ben.	72	ft.	38	0	14	20
	Both wing walls are cracked and broked at Bents 1 and 5. There are vertical cracks in the face of the beam seat of both abutments. The back walls at both abutments are broken and leaning on the beam ends.						
1090 - Exposed Rebar		4				4	
1130 - Cracking (RC and Other)		30				10	20
227 - Reinforced Concrete Pile	1- Ben.	12	each	0	0	12	0
	All of the pile at bents 2,3 & 4 have moderate surface abrasion on the lower 1/3 of the piles.						
1190 - Abrasion/Wear (PSC/RC)		12				12	
234 - Reinforced Concrete Pier Cap	1- Ben.	86	ft.	86			
303 - Assembly Joint with Seal	1- Ben.	161	ft.	35	0	0	126
	Section of the assembly joints are missing at Bents 1,3 & 4. Photos linked. Spalls are present at all of the joints.						
2360 - Adjacent Deck or Header		86					86
2370 - Metal Deterioration or Damage		40					40
311 - Movable Bearing	1- Ben.	20	each	0	0	0	20
	All of the bearings have heavy corrosion.						
1000 - Corrosion		20					20
313 - Fixed Bearing	1- Ben.	20	each	0	0	0	20
	All of the bearings have heavy corrosion.						
1000 - Corrosion		20					20

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Bridge Inspection Report

Element Inspection

331 - Reinforced Concrete Bridge Railing	1- Ben.	260	ft.	260			
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Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 09/15/2015

Priority: C - Important

Work Code:

Deficiency Description:

Beam ends at Bent s2,3 and 4 have active corrosion and pitting to 1/4" deep at the deck haunches and on the lower webs and bottom flanges.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Date Reported: 09/15/2015

Priority: C - Important

Work Code:

Deficiency Description:

Deck surface in all spans. Unsealed transverse cracks up to 0.060 inch wide on 4 to 6 foot centers.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Inspector:

Structure Number: 01453

Inspection Date:

Facility Carried: SH 367 Log 9.36

Bridge Inspection Report

Maintenance Needs

Date Reported: 09/15/2015

Priority: C - Important

Work Code:

Deficiency Description:

The deck joint at bent 3 has the joint armor missing and spalls with exposed rebar. Previous patching with asphalt material has not work here because this is a double expansion joint. Asphalt patching falls through the joint and piles up on the cap.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1	Description	Bent 3, 14 feet of sliding plate is missing and the deck head steel is missing in span 2. Previous asphalt patching has failed due to joint movement. Do not use a asphalt to repair this joint.
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Inspector:

Structure Number: 01453

Inspection Date:

Facility Carried: SH 367 Log 9.36

Bridge Inspection Report

Maintenance Needs

Date Reported: 09/15/2015

Priority: D - Routine

Work Code:

Deficiency Description:

Sections of the sliding plates and joint armor are missing at Bent 1,2,3,4 and 5.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Bent 1, all of the sliding plate has been removed.

Stage: Open



PHOTO 2 Description Bent 2, Spalls in the deck along the joint.

Inspector:

Inspection Date:

Structure Number: 01453

Facility Carried: SH 367 Log 9.36

Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description Bent 3, 14 feet of sliding plate is missing and the deck head steel is missing in span 2. Previous asphalt patching has failed due to joint movement. Do not use a asphalt to repair this joint.

Stage: Open



PHOTO 4 Description Assembly joint with repair at bent 4

Inspector:

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Bridge Inspection Report

Maintenance Needs

Date Reported: 09/15/2015

Priority: B - Pressing; 6 month completion goal

Work Code:

Deficiency Description:

Span 1 at bent 2, Beams 1,2 & 4

Span 2 at bent 2 Beams 1,3,4 & 5

Span 2 at bent 3 Beams 1,2,3,4 & 5

Span 3 at bent 3 Beams 1, 3 & 4

Span 3 at bent 4 Beams 1,2,3,4 & 5

Span 4 at bent 4 Beams 1,2,3 & 5

Beam ends have severe section loss to the webs and lower flanges and holes in webs. See photos.

Work Description:

Date Repairs Completed:

Maintenance Comments:

Stage: Open



PHOTO 1 Description Span 1, beam 1, at Bent 2.
Holes in the web at the deck haunch.

Stage: Open



PHOTO 2 Description Span 1, beam 1, bottom flange at bent 2.

Inspector:

Inspection Date:

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Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 3 Description Span 1, Tee diaphragm between beam 1 & 2, at bent 2

Stage: Open



PHOTO 4 Description Spans 1 & 2 at Bent 2
Beam 2 span 1 holes in the web, span 2 beam 2, hole at the edge.

Stage: Open



PHOTO 5 Description Spans 1 & 2, beam 3 at Bent 2
Pitting to 3/16" deep on span 1
Hole in the web on span 2.

Stage: Open



PHOTO 6 Description Spans 1 & 2, beam 2 right side at bent 2.

Inspector:

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Maintenance Needs

Stage: Open



PHOTO 7 Description Span 1, beam 4 at Bent 2
Holes in the web at the haunch.
Span 2, beam 4 pitted to 3/16" at haunch.

Stage: Open



PHOTO 9 Description Span 2, beam 5 at bent 2.
Pitting to 7/16" deep on the lower web, left side.

Stage: Open



PHOTO 8 Description Span 1, beam 5, left side
Pitting to 3/16" deep at the deck haunch.



PHOTO 10 Description Span 2, beam 1 at bent 2
Pitting to the lower web 3/16" deep.

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Maintenance Needs

Stage: Open



PHOTO 11 Description Span 2, beam 1 at bent 3
Pitting to 3/16" at the deck haunch and
Lower web. Bottom flange pitted to 1/8"
x 4 feet right side.

Stage: Open



PHOTO 12 Description Span 2, beam 2 at bent 3
Hole in the web at the deck haunch and
pitting to
The lower web to 3/16".
Bottom flange pitted to 1/8" x 1 foot
back and
Narrowed x 3/8" at bearing.

Stage: Open



PHOTO 13 Description Span 2, beam 3 at bent 3.
Hole in the upper web at haunch,
Holes in the lower web back from
bearing
Bottom flange down to 1/2" thick x four
feet both sides and
Narrowed 1/2" each edge at bearing.

Stage: Open



PHOTO 14 Description Span 2, beam 3 right side
Closer view of holes in the web and
bottom flange.

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Bridge Inspection Report

Maintenance Needs

Stage: Open



PHOTO 15 Description Span 2, beam 4, left side
Hole in the web at the haunch and
Pitting to the bottom flange 1/8" to 3/16"
Along both sides x five feet long.

Stage: Open



PHOTO 16 Description Span 2, beam 5 at bent 3
Pitting to 3/16" deep at haunch and
The bottom flange has 1/2" remaining
at bearing.

Stage: Open



PHOTO 17 Description Spans 3 & 4 at bent 4
Beam 1 span 3 pitted at the deck
haunch
To 3/16" deep and lower web pitted to
1/8".
Beam 1 span 4 has a hole in the web at
the haunch.

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Maintenance Needs

Stage: Open



PHOTO 18 Description Spans 3 & 4, at bent 4
Beam 2 span 3 holes in the web at the haunch and
Pitting to the lower web 1/8" deep x 6" tall x 2 feet.
Beam 2 span 4 similar.

Stage: Open



PHOTO 19 Description Span 3, beam 3 at bent 4
Holes in the web at the deck haunch and
Pitting to 1/8" deep x four inches tall x two feet long
to the lower web and bottom flange.

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Maintenance Needs

Stage: Open



PHOTO 20 Description Span 3, beam 4 at bent 4
15" x 3/4" hole in the web at the bottom flange.
Bottom flange corroded down to 3/8 thick at bearing.
Repair plates at the top of the flange noted on section loss sketch.

Stage: Open



PHOTO 21 Description Spans 3 & 4 at bent 4
Beam 5 span 3 pitted to 1/4" deep at deck haunch and the bottom flange pitted to 3/16" x 1 foot back.
Span 4 beam 5 hole in the web at the deck haunch.

Stage: Assigned



PHOTO 22 Description Bent 2 span 2 beam 3, 4 1/2" x 1" hole in upper web.

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Maintenance Needs

Stage: Assigned



PHOTO 23 Description Span 2 at bent 3 beam 3 holes in the upper and lower webs and pitting to bottom flange up to 3/8 deep.

