

# Bridge Inspection Report

**M2669**

**SH 282-Crawford Co**

**over**

**Trenna Creek**



**Inspection Date:**

**Inspected By:**

**Inspection Type(s):**

Inspector:

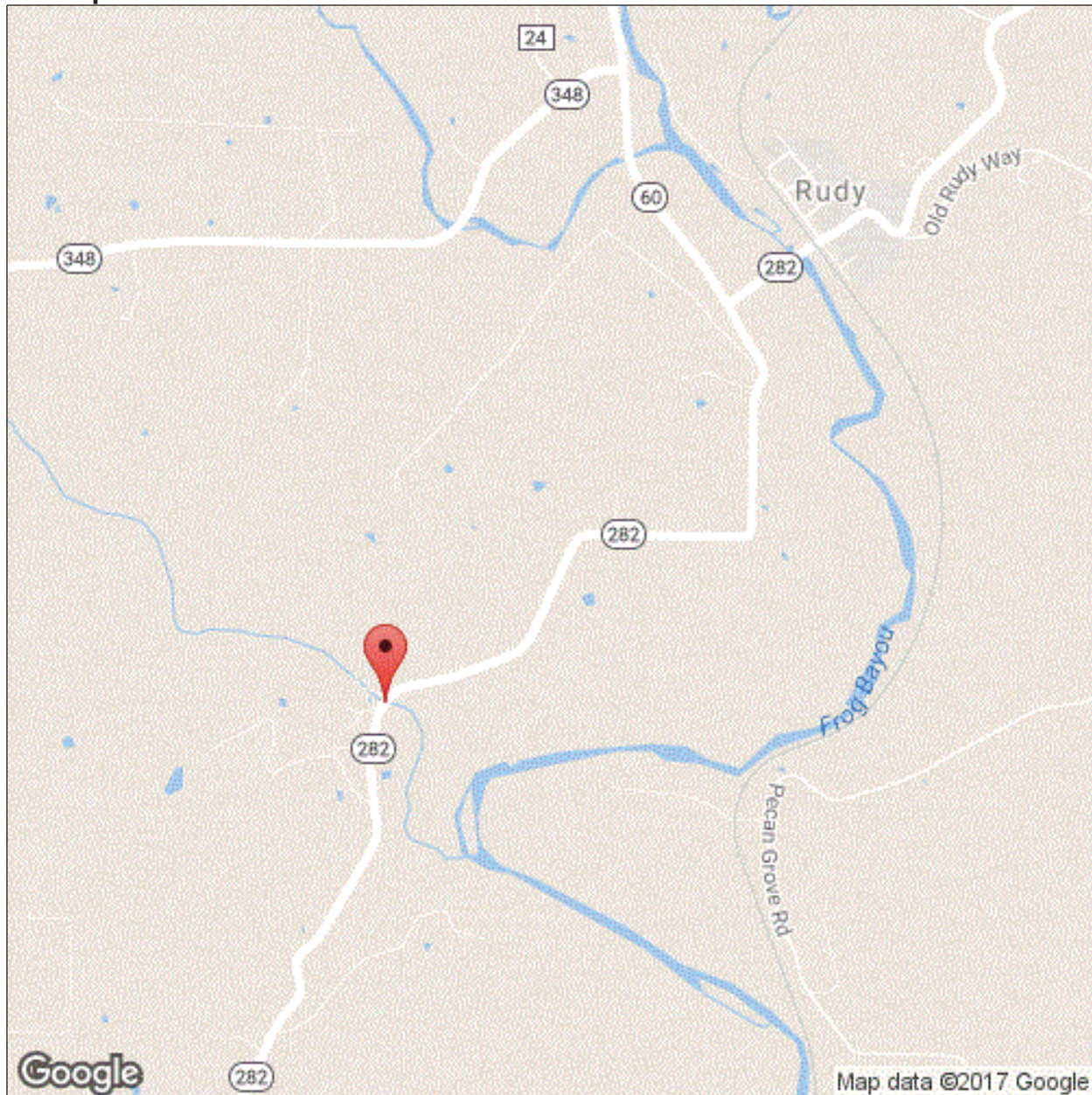
Inspection Date:

Structure Number: M2669

Facility Carried: SH 282-Crawford  
Co

## Bridge Inspection Report

### Location Map



Latitude: 35.511559684367086

Longitude: -94.28831053455667

Inspector:

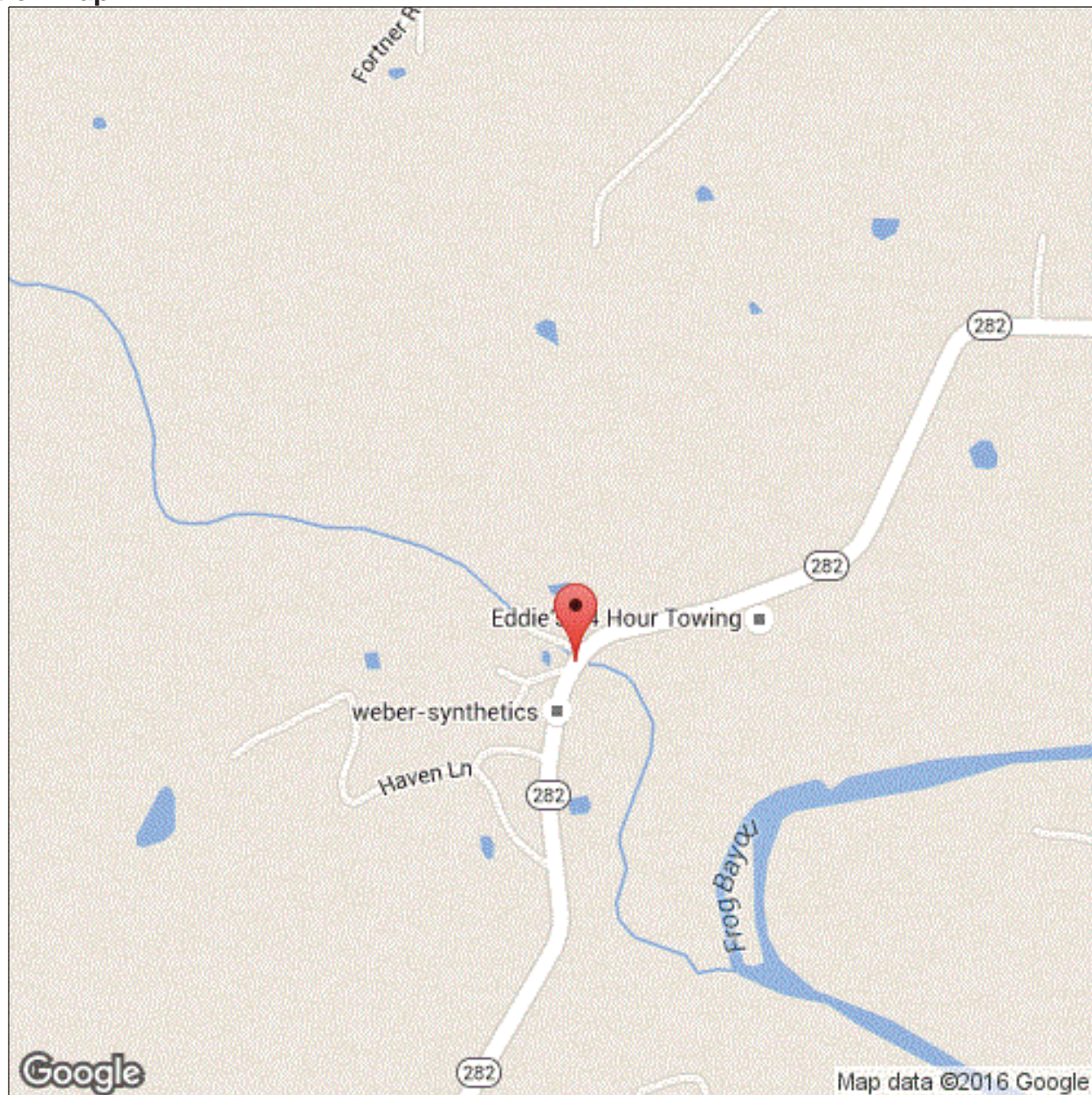
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### Bridge Inspection Report

### Location Map



Latitude: 35.511559684367086

Longitude: -94.28831053455667

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### **Bridge Inspection Report**

#### **Executive Summary**

02/02/2017 JPB, EJW & SPC-Routine Inspection conducted on this date.

02/01/2016 JPB-Underwater Inspection conducted on this date.

Underwater Inspection conducted on this date to monitor the previous repairs at Bent 2. Concrete slabs placed at the base of Bent 2 to control scour are in place and functioning as intended. No apparent scour or scour problems at this inspection. The base of the bents have minor grout deterioration at this inspection.

Changed to a 24 frequency for Underwater Type 2 Inspection with a 12 month offset from the Routine Inspection.

Inspector:

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## Bridge Inspection Report

## National Bridge Inventory

IDENTIFICATION						INSPECTIONS							
(1) STATE CODE		056 - Arkansas				(90) INSPECTION DATE		02/02/2017					
(8) STRUCTURE NUMBER		M2669				(91) DESIGNATED INSPECTION FREQUENCY		24					
(5) INV. ROUTE (ON/UNDER)		1	3	1	282	0	(92) CRITICAL FEATURE INSPECTION		(93) CFI DATE				
(2) HIGHWAY AGENCY		04	(3) COUNTY CODE		033		A. FRACTURE CRITICAL DETAIL		N				
(4) PLACE CODE		00000				B. UNDERWATER INSPECTION		N					
(6) FEATURES INTERSECTED		Trenna Creek				C. OTHER SPECIAL		Y	24	02/01/2016			
CONDITION													
(58) DECK		6											
(59) SUPERSTRUCTURE		5	(60) SUBSTRUCTURE		6								
(61) CHANNEL & CHANNEL PROTECTION		6	(62) CULVERT		N								
LOAD RATING AND POSTING													
(31) DESIGN LOAD		1											
(63) METHOD USED TO DETERMINE OPERATING RATING		1											
(64) OPERATING RATING		43.0											
(65) METHOD USED TO DETERMINE INVENTORY RATING		1											
(66) INVENTORY RATING		26.0											
(70) BRIDGE POSTING		5											
(41) STRUCTURE OPEN/POSTED/CLOSED		A											
APPRAISAL													
(67) STRUCTURAL EVALUATION		5											
(68) DECK GEOMETRY		3											
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL		N											
(71) WATERWAY ADEQUACY		6											
(72) APPROACH ROADWAY ALIGNMENT		5											
(36) TRAFFIC SAFETY FEATURE													
36A) BRIDGE RAILINGS:		0											
36B) TRANSITIONS:		0											
36C) APPROACH GUARDRAIL:		0											
36D) APPROACH GUARDRAIL ENDS:		0											
(113) SCOUR CRITICAL BRIDGES		5											
SUFFICIENCY RATING		2	STATUS		56.7								
CLASSIFICATION													
(112) NBIS BRIDGE LENGTH		Y											
(104) HIGHWAY SYSTEM OF THE INVENTORY ROUTE		0											
(26) FUNCTIONAL CLASSIFICATION OF INVENTORY ROUTE		07											
(100) STRAHNET HIGHWAY DESIGNATION		0											
(101) PARALLEL STRUCTURE DESIGNATION		N											
(102) DIRECTION OF TRAFFIC		2											
(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		1											
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											

IDENTIFICATION					
(1) STATE CODE		056 - Arkansas			
(8) STRUCTURE NUMBER		M2669			
(5) INV. ROUTE (ON/UNDER)		1	3	1	282 0
(2) HIGHWAY AGENCY		04	(3) COUNTY CODE		033
(4) PLACE CODE		00000			
(6) FEATURES INTERSECTED		Trenna Creek			
(7) FACILITY CARRIED		SH 282-Crawford Co			
(9) LOCATION		2.6 MI S JCT SH 348 & 282			
(11) MILEPOINT		4.989	(12) BASE HIGHWAY NETWORK		0
(13A) LRS INVENTORY ROUTE		0000000000	(13B) SUBROUTE NUMBER		00
(16) LATITUDE		35.511559684367086	(17) LONGITUDE		-94.28831053455667
(98A) BORDER BRIDGE CODE					
PERCENT RESPONSIBILITY		(99) BORDER BRIDGE STRUCT			
STRUCTURE TYPE AND MATERIAL					
(43) STRUCTURE TYPE, MAIN					
A) KIND OF MATERIAL/DESIGN: 3 - Steel					
B) TYPE OF DESIGN/CONSTR: 02 - Stringer/Multi-beam or Girder					
(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		1	(46) NUMBER OF APPROACH		0
(107) DECK STRUCTURE TYPE		1	(108A) WEARING SURFACE		6
(108B) DECK MEMBRANE		0	(108C) DECK PROTECTION		0
AGE OF SERVICE					
(27) YEAR BUILT		1940	(106) YEAR RECONSTRUCTED		0000
(42) TYPE OF SERVICE		ON 1	UNDER		5
(28) LANES		ON 02	UNDER		00
(29) AVERAGE DAILY TRAFFIC		950	(19) BYPASS DETOUR LENGTH		6
(30) YEAR OF AVERAGE DAILY TRAFFIC		2014			
(109) AVERAGE DAILY TRUCK TRAFFIC		1			
GEOMETRIC DATA					
(48) LENGTH OF MAX SPAN (ft.)		20	(49) STRUCTURE LENGTH (ft.)		23
(50) CURB/SIDEWALK WIDTHS (ft.)		LEFT 0.5	RIGHT		0.5
(51) BRDG RDWY WIDTH CURB-TO-CURB (ft.)		20.3			
(52) DECK WIDTH, OUT-TO-OUT (ft.)		23.2			
(32) APPROACH ROADWAY WIDTH (ft.)		22.0			
(33) BRIDGE MEDIAN		0	(34) SKEW (DEG.)		0
(35) STRUCTURE FLARED		0	(10) INV RTE, MIN VERT CLEAR (ft.)		99.99
(47) TOTAL HORIZONTAL CLEARANCE (ft.)		21.3			
(53) VERTICAL CLEARANCE OVER BRIDGE ROADWAY (ft.)		99.99			
(54) VERTICAL UNDER CLEARANCE (ft.)		N	0		
(55) LATERAL UNDER CLEARANCE RIGHT (ft.)		N	99.9		
(56) MIN LATERAL UNDER CLEARANCE (ft.)		0			
PROPOSED IMPROVEMENTS					
(75A) TYPE OF WORK PROPOSED		31	(75B) WORK DONE BY		1
(76) LENGTH OF STRUCTURE IMPROVEMENT (ft.)		46.0			
(94) BRIDGE IMPROVEMENT COST (\$)		0			
(95) ROADWAY IMPROVEMENT COST (\$)		117			
(96) TOTAL PROJECT COST		219			
(97) YEAR OF IMPROVEMENT COST ESTIMATE		2002			

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Bridge Inspection Report

National Bridge Inventory

(114) FUTURE ADT 1423      (115) YEAR OF FUTURE ADT 2028      (40) NAV HORIZONTAL CLEARANCE (ft.) 0

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## Element Inspection

[illegible]

**Inspector:**

**Structure Number:** M2669

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Co

**Bridge Inspection Report**

**Element Inspection**

1080 - Delamination/Spall/Patched Area		1			1		
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## Bridge Inspection Report

### Pictures



Deck has 2 1/2 inches of asphalt overlay



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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 9/27/2011 12:00:00 AM

Priority: D - Routine

Work Code: Repair

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#### Deficiency Description:

Base of stone masonry abutments -  
Grout deterioration between stones at the base of the abutments.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

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Stage: Assigned



PHOTO 1      Description      Concrete slabs placed at the base of Bent 2 to control scour are in place and functioning as intended. No apparent scour or scour problems at this inspection.

Stage: Assigned



PHOTO 2      Description      Grout deterioration between the stones at the base of the walls is typical in both abutments.

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## Bridge Inspection Report

### Maintenance Needs

Stage: Assigned



PHOTO 3      Description      Rock masonry substructure with a horizontal hairline crack in grout approx. 18" below cap at Bent 2.

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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 9/27/2011 12:00:00 AM

Priority: D - Routine

Work Code: Repair

---

#### Deficiency Description:

Northwest, Northeast and Southeast wing walls -  
Tops of wing walls have stones displaced and/or missing.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Inventory 2 looking East.

Stage: Assigned



PHOTO 2      Description      A few of the stones have been  
displaced in the top of the Northwest  
wing wall.

Inspector:

Inspection Date:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Assigned



PHOTO 3      Description      A few of the stones have been displaced in the top of the Southeast wing wall.

Stage: Assigned



PHOTO 4      Description      A few of the stones have been displaced in the top of the Northeast wing wall.

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### Bridge Inspection Report

#### Maintenance Needs

Date Reported: 9/27/2011 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Deck -

Undersurface of the deck has spalling with exposed reinforcing steel in bays # 1 and # 9 adjacent to the exterior beams. The exposed reinforcing steel has active corrosion with initial section loss.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Map cracking with light efflorescence visible from the undersurface of the deck in Bays 8 & 9.

Stage: Assigned



PHOTO 2      Description      Bay 1 has 1 shallow baseball size spall with exposed reinforcing steel on the undersurface of the deck.

Inspector:

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## Bridge Inspection Report

### Maintenance Needs

Stage: Assigned



PHOTO 3	Description	Bay 9 has 3 shallow baseball size spalls. Spalls have exposed reinforcing steel that has active corrosion with initial section loss.
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#### Maintenance Needs

Date Reported: 9/27/2011 12:00:00 AM

Priority: D - Routine

Work Code:

---

#### Deficiency Description:

Superstructure -

There is active corrosion with flaking rust with up to 1/8" section loss in the top flanges of the beams. Some of the beams have active corrosion with up to 1/8" section loss to the flanges and portions of the webs adjacent to the abutments.

#### Work Description:

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Date Repairs Completed:

Maintenance Comments:

---

Stage: Assigned



PHOTO 1      Description      Beams 1,2,3, 8,9, & 10 have areas of active corrosion along the top flanges of the beams.

Stage: Assigned



PHOTO 2      Description      Beam 9 has active corrosion with initial section loss adjacent to the deck drain near mid-span.