NBI No.:	Structi	ıre No.: L	ocal ID:	Suff. Rating:	
17051		0000 X	-1	82.90	ND
IDENT	TIFICATION			INSPECTION	
bridge Description.		CIDDED SDANS	Type Insp. Rec		p. Date Next Insp.
3-125ft. P/S CONCRETE GIRDERS, 3 (200ft330ft200), 4-125ft., 3-125ft.			NBI:		7/2023 07/17/2025
(20010001200), 4-1201., 0-1201. 00	JIVI. I LAIL GI	INDER OF ANO	FC: Y		7/2023 7/17/2025
	acility Carried		UW: Y		9/2020 7/19/2025
2. Division: Division 1 6. Fe	-	RKANSAS RIVER	OS: Y		9/2024 7/17/2026
3. County: SEQUOYAH		SEQUOYAH-MUSKOGEE CC		CLASSIFICATION	
4. City: Unknown	11. Mile Post: 13. LRS	NA / Sub Rte: 6800022HX/ 00	12.Base Hwy Net.: C		11 0
Admin Area: Unknown 5a. On/Under: Route On Structure	16. Latitude:	35° 29' 16.49"	1	On free road 102. Traffic Dir.	•
5b. Kind of Hwy: Interstate Hwy	17. Longitude:		21. Custodian: State	103. Temp. Str.	,
5c. Lvl of Srvc: Mainline	98. Border	Unknown (P)	22. Owner: State	104. Hwy Syste	
5d. Route No.: 00040	% Řesponsible	• •	26. Function Class: (		Hwy: IRR-Indian Res Rd
5e. Dir. Sufx: N/A (NBI)		lg #: Unknown	37. Historical Sig.: No	nterstate STRAHNE 112. NBIS Leng	lwy: On Interstate STRA
STRUCTURE TY	I (PE AND MATE	RIALS	100. Del. Hwy. Oll I	CONDITION	Juli. Long Erlough
43a/b. Main Span:		Girder-Floorbeam	EQ Dools - C Catiofos		60 Cub 0 0 1 1 1
44a/b. Appr. Span:		Stringer/Girder	58.Deck: 6 Satisfaction 62.Culvert: N/A (NB	13	60.Sub: 6 Satisfactory
45. # of Main Spans: 10	,	<b>J</b>	Flowline Notes:	61.Chan./Chan. Prot.: 6 E	эанк эштріпд
46. # of Appr. Spans: 3			r	ovnoced up to 4"H v Ell class #	not food
107. Deck Type: Concrete-Ca	ast-in-Place		I	exposed up to 4"H x 5'L along the we annel Notes: The channel in the vici	
108a. Wearing Surface: Low Slump			Local Officer Water Of		
108b. Membrane: Unknown				LOAD RATING AND POSTING	<u>i</u>
108c. Deck protection: Unknown				MS 18 (HS 20)  Date F	Rated 10/01/2006
AGEA	ND SERVICE			A Open, no restriction  5 At/Above Legal Loads	
19. Detour Length: 5.0 mi	106. Year Rec	onst,: 1983	63.Op / 65.Inv. Rating	· ·	/ 1 LF Load Factor
27. Year Built: 1967	109. Truck AD	*	00.007 00.1111. 1144111	H HS 3-3	•
28a/b. Lanes on/und: 4 / 0	100: Hacking	6670	64. Operating Rating	(tons): 30.40 54.70 92.8	0.00 0.00
29. ADT: 15,900			66. Inventory Rating		
30. Year of ADT: 2022			- co. involtory realing	().	<u> </u>
42a/b. Type of Svc on/und: Highway	, ,	Waterway	20- Dada Daile 4	APPRAISAL	4 Talanahla
GEOM	ETRIC DATA		7 ~		m.: 4 Tolerable Undclr: Not applicable
10. Vert. Clearance: 99.99 ft	50a. Curb/Sdv	vlk Width L: 3.00 ft			. Ondon: Not applicable Adeq: 8 Equal Desirabl
32. Appr Rwy Width: 69.91 ft	50b. Curb/Sdv		36d. Appr.Rail Ends:		ment: 7 Above Min Crite
33. Median: Closed Med w/o Barri	51. Width Curl		67. Str Evaluation:	6 Equal Min Criteria 113. Scour Cri	
34. Skew: 0.00°	52. Width Out	to Out: 68.50 ft		•	
35. Struct. Flared: No flare	Deck Area	a: 136,247.76 sq. ft	04 Pridge Cost:	\$20,219,922 75. Type of Wo	ork: 31 Repl-Load Capa
47Horizontal Clr: 30.00 ft	53. Min.Vert.C	I.Ovr Brg: 99.99 ft	94. Bridge Cost: 95. Roadway Cost:	\$4,500,000 76. Lngth of Im	
48. Length Max Span: 330.00 ft	54a.Min.Vt.Un	•	96. Total Cost:	\$26,119,163 114. Future AD	•
49. Struct. Length: 2,003.16 ft	54b. Min. Vert		97. Yr.of Cost Est.:	2015 115. Yr.of Futu	
	55a. Min.Lat.U	•		NAVIGATION DATA	
	55. Min.Lat.Ur 56. Min.Lat.Ur		38. Nav. Control:	Permit Required	
			39. Vert. Clearance:	52.0 ft 111. Pier Prote	,
200c. Temperature: 91	OKLAHOMA	A ITEMS	40. Horiz. Clearance:	300.0 ft 116. Lift Bridge	e Vert. Clr.: 0.0 ft
200d. Weather: Clear		044a Daata - Mainte Line	ND	044 0000 1 0000	400 400
	36 / -1	214a. Posted Weight Limit: b. Posted Speed Limit:	NR 70	244. Span Lengths: 131	130 130
202. Waterprf.Membrane: -1	1	c. Narrow/1way Brdg Sign:	NA	201 330 201	125 125
Date Installed: 01/01/190 203. Type Exp. Device: Modular	ı	d. Vertical Clr. Sign:	NA	245. Girder Depth:	
* · · · · · · · · · · · · · · · · · · ·	pansion Joint	Adv. Warning Sign:	NA	246a. Type of Ovelay: NA b. Overlay Thickness: 0.00	
•	und hand rail)	e. Navigation Lights?:	Yes		1/1901
205. Material Quantity: -3.00	,	Working/Not Working:	No	d. Ovly Depth Changed >1":	_
208a. Type of Abutment: Skeleton			TERSTATE	247. Protective Systems:	
b. Type of Found.: Steel Pilin 209. Type of Pier/Found.: 2	g / Yes	218. Functionally Obsolete :	-	-	
209. Type of Pier/Found.: 2 Spread Fo	,	220. Bridge Redecked	- tiefactory Condition		
210. Foundation Elev.: 4,300.00	4,240.00	221. Substr.Cond.(U/W): Sa 222. Fill Over RCB:	tisfactory Condition	248. # Field Splices w/ Corrosion:	
-1.00 4,290.00	-1.00	223. Appr.Slab/Rwy Cond.:	6	249. Scour Crit. POA Exists?:	_
-1.00 4,290.00 211. Wear.Surf.Prot.Sys: Silane	-1.00	• • • • • • • • • • • • • • • • • • • •	organic Zinc 3Coat Sys	250. Headwall:	
Date Installed: 01/01/190	1	N/A	•	258. Plans w/Found.in ODOT File	_
211c. Silane Reapplied	•	226. Date Painted: 20		259. Scour Eval. in ODOT File:	
211d. Date :		227. Paint Color: Gra		263. Interchange at Intersection:	No 290.66
213. Utilities Attached: Communica	tion	233. Deck Forming:		264. Interstate Milepoint:	∠90.00
- · · · · · · · · · · · · · · · · · · ·	uon	238. School Bus Rte.: Cu	rrent & Desired route	1	
11					
			phalt/Bituminous		

NBI No.: 17051		<u>Structure No.:</u> 6822 0000 X	<u>Local ID:</u> -1	<u>Suff. Rating:</u> 82.90	ND
Inspection Date:	7/19/24	Ed Cina	dr		
Invoice No.:	1160667	Inspected With:			

#### **BRIDGE NOTES:**

Spans 1-3: Simple prestressed concrete girder approach spans (131.4 feet, 130 feet) Continuous variable-depth steel girder main spans (201 feet, 330 feet, 201 feet) Spans 7-10: Continuous steel girder approach spans (125 feet, 125 feet, 125 feet, 126 feet) Spans 11-13: Continuous steel girder approach spans (126 feet, 125 feet, 126.3 feet) w/ 18 inch safety curbs & 4ft median

- Other/Special inspection items include:
- Modular joints support boxes and support beams at piers 3, 6 and 10.
- Cracks in floor beam 4, span 4:
  - o Stringer 1 (1 5/8 and 1 1/2 inches).
  - o Stringer 2 (3/4 and 1 1/8 inches).
- · Cracks in lateral bracing gusset plates:
  - o Span 8, girder 3 at floor beam 4 (8 1/2-inch-long crack in gusset plate).
  - o Span 10, girder 2 at floor beam 2 (18-inch-long crack in gusset plate weld).
  - o Span 11, girder 2 at floor beam 1 (8-inch-long and 6-inch-long cracks in gusset plate weld).
- Horizontal web splice terminations in spans 4 near floor beam 5, span 5 near floor beams 3 and 11, and span 6 near floor beam 3. Cracks or cored hole noted at:
  - o Span 4, girder 2, near floor beam 5 (1-inch-long crack arrested by cored hole, 1 1/2-inch-long crack arrested by cored hole).
  - o Span 4, girder 4, near floor beam 5 (7/16-inch-long crack arrested by a cored hole).
  - o Span 5, girder 1, near floor beam 11 (3/4-inch-long crack stopping short of cored hole, 1 1/4-inch-long crack arrested by two cored holes).
  - o Span 5, girder 2, near floor beam 11 (2-inch-long crack arrested by a cored hole).
  - o Span 5, girder 3, near floor beam 11 (7/8-inch-long crack stopping short of cored hole).
  - o Span 5, girder 4, near floor beam 3 (1 1/8-inch-long crack arrested by a cored hole, 1-inch-long crack arrested by a cored hole).
  - o Span 5, girder 4, near floor beam 11 (1-inch-long crack arrested by a cored hole).
  - o Span 6, girder 1, near floor beam 3 (both cracks arrested by a cored hole).
  - o Span 6, girder 2, near floor beam 3 (1-inch-long crack arrested by a cored hole).
  - o Span 6, girder 3, near floor beam 3 (Paint crack originally noted, no cracks found during 2024 OS ins).
  - o Span 6, girder 4, near floor beam 3 (1 1/4-inch-long crack arrested by a cored hole).

ſ	NBI No.:	Structure No.:	Local ID:	Suff. Rating:	ND
l	17051	6822 0000 X	-1	82.90	ND

#### INSPECTION NOTES: 7/19/24

2024/07/19 Other/Special inspection notes (no significant changes to OS items as noted in the Structure Notes)

#### PX – Recommendations

- Replace missing north railing posts in span 8 and near pier 12.
- Splice gaps in metal rail of north railing in spans 5 and 9, and south railing in spans 1, 6 and 7.
- · Patch spalls in driving surface.
- Repair cracks in bearing boxes at modular joint supports at pier 3. Also, install shim plates or additional support below bearing blocks to prevent future cracking.
- Replace modular joints at pier 3, 6 and 10.
- · Replace pourable joint seals at west abutments and fixed joints and deck control joints.
- · Replace strip seal expansion joint at east abutment.
- · Replace missing or loose bolts at stringer connections.
- · Arrest ends of cracks at:
  - o Floor beam 4, span 4 under stringer 1.
  - o Floor beam 4, span 4 under stringer 3.
  - o Stringer diaphragm over floor beam 5, span 6, between stringers 3 and 4.
- · Repair cracks in lateral bracing gusset plates:
  - o Span 8, girder 3 at floor beam 4 8 1/2-inch-long crack in gusset plate.
  - o Span 10, girder 2 at floor beam 2 18-inch-long crack in gusset plate weld.
  - o Span 11, girder 2 at floor beam 1 8-inch-long and 6-inch-long cracks in gusset plate weld.
- · Reattach lateral bracing vibration dampeners at:
  - o Span 4, between girders 1 and 2, between floor beams 5 and.
  - o Span 4, between girders 1 and 2 and between floor beams 8 and pier.
  - o Span 4, between girders 3 and 4 and between floor beam 7 and pier.
  - o Span 6, between girders 1 and 2 and between floor beams 2 and 3.
  - o Span 6, between girders 3 and 4 and between floor beam 0 and 1 fractured spring not functioning as intended.
- o Span 6, between girders 3 and 4 and between floor beam 6 and pier 6.
- Patch corrosion hole through lateral bracing gusset plate at girder 4, span 6 at pier 6
- Install crushed aggregate slope protection on east approach embankment.
- · Remove debris from east abutment seat.
- · Patching spall in pier 6, column 2 at top of web wall.
- · Repair broken seismic cables at piers 6 and 10.
- · Reset elastomeric bearings for girder 1 for span 4 at pier 3.
- Remove paint from stainless-steel sliding surfaces of elastomeric bearings at pier.

### FX – Monitor:

- Terminations of horizontal web splices for crack propagation or initiation in spans 4 through 6.
- Lateral bracing gusset plate connections to web of girders at:
  - o Span 10, girder 1 at floor beam 4
  - o Span 11, girder 1 at floor beam 1
  - o Span 11, girder 2 at floor beam 3
  - o Span 12, girder 2 at floor beam 1
- o Span 12, girder 2 at floor beam 2
- Ends of prestressed concrete beams for deterioration associated with exposed strands.

#### **ELEMENT CONDITION STATE DATA**

Elem. / Env	Description	Unit	Total Qty	% 1	Qty. 1	% 2	Qty. 2	% 3	Qty. 3	% 4	Qty. 4	
12 / 4	Re Concrete Deck	sq.ft	119,340.00	70%	83,518.00	30%	35,802.00	0%	20.00	0%	0.00	
PX	PX – Small spalls and patches are typical along control joints.											
De	Deck offset 1in relative to east approach railing. Deck in new portion (spans 1 through 3 and 70ft in span 4) has transverse cracks of 0.020in											

 pavement markers is missing.

 107 / 4
 Steel Opn Girder/Beam
 ft
 5,540.00
 91%
 5,036.00
 9%
 500.00
 0%
 4.00
 0%
 0.00

FX – Cracks at horizontal web splice terminations in spans 4 near floor beam 5, and span 6 near floor beam 3 (Item 872 has splice terminations for span 5 near floor beams 3 and 11). Cracks or cored hole noted at:

spaced at 3ft to 5ft, span 3 has 0.030in diagonal cracking. Deck in original portion has transverse cracks of 0.050in spaced at 5ft to 10ft. Raised

- Span 4, girder 2, near floor beam 5 (1-inch-long crack arrested by cored hole, 1 1/2-inch-long crack arrested by cored hole).
- Span 4, girder 4, near floor beam 5 (7/16-inch-long crack arrested by a cored hole).
- Span 6, girder 1, near floor beam 3 (both cracks arrested by a cored hole).
- Span 6, girder 2, near floor beam 3 (1-inch-long crack arrested by a cored hole).
- Span 6, girder 3, near floor beam 3 (Paint crack originally noted).
- Span 6, girder 4, near floor beam 3 (1 1/4-inch-long crack arrested by a cored hole).

FX - Lateral bracing gusset plates welded to girders web using backing bars. Cored holes through web with no visible crack at:

- Span 10 (girder 1, FB 4).
- Span 11 (girder 1, FB 1 and girder 2, FB 3).
- Span 12 (girder 2, FB 1 and girder 2, FB 2).

Lateral bracing gusset plates at FBs 3, 4, 5 in spans 4 and 6, and FBs 3 and 11 in span 5 have been flame-cut and reattached to the girder webs.

Pack rust exists at isolated locations in the main girders between horizontal splices, FB connections, bolted bottom splice plates.

Paint cracks at stiffener to girder bottom flange at span 6 (girder 3 at FB4 and girder 4 at FB7) and span 8 (girder 3 at FB 2 and girder 4 at FB 2).

Welded nut or open hole on inboard web splice plate at span 5 (girder 1 near FB 9, and girder 3 near FBs 3, 5, and 9). Loose bolts in web splice plate at span 7 (girder 3 near FB 4) and span 11 (girder 4 near FB 4).

515 / 4 Steel Protective Coating sq.ft 330,000.00 0% 0.00 100% 330,000.00 0% 0.00 0.00 0.00

		ioina Dept. oi	Transportation - Brid	lge Inspection Report	
	NBI No.:	Structure No.:	<u>Local ID:</u>	Suff. Rating:	ND
	17051	6822 0000 X	-1	82.90	
109 / 4	Paint is sound with corrosion r  Pre Opn Conc Girder/Be		0.00 100% 4,140.00 0%	0.00 0% 0.00 0% 0.00	
10374	No significant deficiencies were ob			0.00 0.00 0.00	
113 / 4	Steel Stringer	ft 5,54		100.00 0% 3.00 0% 0.00	
	PX – Bolts and/or nuts are missing	in the stringer to floor b	eam connections at the following loo	cations:	
	<ul> <li>Span 6, west side of floor beam</li> </ul>	. •	•		
	Span 6, east side of floor beam     Span 7, floor beam 2, etringer 6		<u> </u>		
	<ul> <li>Span 7, floor beam 2, stringer 4</li> <li>Span 8, west face of floor beam</li> </ul>	•			
	Span 10, floor beam 0, stringer	-	_		
	PX – Stringer diaphragm between	•	6 over FB 5 has an 8 1/2in crack.		
	Deck is lifting off stringers at sever Stringer 2 diaphragm connection to		7 connection holts not fully seated		
			-	is missing all 4 anchor bolts. Stringer 4 connection	
	to FB 2, span 8 has all 4 bolts not	•			
450 / 4		span 13 near the east a	abutment have a partial length welde 3.00 0% 0.00 95%	ed cover plates.  3,346.00	
152 / 4			6.00 0% 0.00 95% ener below stringer 1 (1 5/8in and 1		
	Member Alignment – Span 6 FB 4	•	• ,	1/2iii) and below sumger 3 (2 3/3iii)	
	Span 6 FB 2 between G3 and G4 I	has 11/16in local kink in	•		
	Span 9 FB 0 at G4 has slight bow	• .	ok control and expension initiate		
	Painted over pack rust between FE Loose bolts or oversized bolt holes	•	·	3 G2, span 9 FB4 G2, span 11 FB 3 at G2 and	
	Span 12 FB 2 at G2.				
205 / 4		each 23.		2.00 4% 1.00 0% 0.00	
		•	xposed and corroding reinforcing ste	el at the top of the web wall and a vertical crack	
210 / 4	extending the full height of the colu Re Conc Pier Wall	ımn. ft 94.	00 68% 64.00 32%	30.00 0% 0.00 0% 0.00	
,	Minor hairline cracking exists in the		02/0		
	Pier 4 exhibits some water staining	and vertical cracks to t			
215 / 4	Re Conc Abutment	ft 152		4.00 1% 1.00 0% 0.00	
	PX – E abutment breastwall has un leaking joint.	ndermining with 20in of	penetration beneath flowable fill (201	13 repair) and no exposure of piles. Erosion is from	
	PX – Debris and ponding on E abu	ıtment seat (9in deep ur	ider median).		
			with no affect to the replaced abutm	ent.	
22111	Both abutments exhibit random ha			550.00 <b>10</b> 0	
234 / 4		ft 837		550.00 1% 7.00 0% 0.00 anges and the pier caps, exist at piers 6 and 10.	
			d 10 are broken and are no longer f		
	-	-	he bottom east edge of the south ca		
	•		nibits 1/16-inch-wide x 20-foot-long c	•	
300 / 4	Strip Seal Exp Joint	ft 69.	pottom west edge between girders 3	0.00 0% 0.00 100% 69.00	
00074	Joint at east abutment.		0.00		
				et in the westbound lanes and throughout the	
222 / /	southern lane of the eastbound lar			0.00 00/ 0.00 14000/ 207.00	
303 / 4	Assem Jnt With Seal	ft 207	.00 0% 0.00 0% 5, joint seals bulging/torn, joints close	0.00	
	Joint 3	or missing components	, joint seals bulging/tom, joints Close	ou.	
	Box 2 – W box unsupported.				
	•	ctured and missing und	er W end of support bar 1. Bearing	blocks dislodged. Support bar 2 partially	
	unsupported.  Box 4 – Both box bottom plates fra	ctured			
	Boxes 5 and 6 – E bearing block for				
	Box 7 – W box bottom plate fractu	• • •			
	Box 8 – W box supported by 6 3/4	-	1. Composite reinfereing above has	m 10 expected and hex uncurported	
	•		<ol> <li>Composite reinforcing above bea</li> <li>unsupported. E box bottom plate f</li> </ol>	m 10 exposed and box unsupported. ractured.	
	Box 17 – W box not fully supported	*			
		-	nsverse separation beam sagging.	and has been force force force of	
	Box 2 – Transverse separation bea dislodged.	am and repair plate tract	urea , sagging 1in. Longitudinal supp	port bar broken free from transverse beam,	
	Box 3 – Longitudinal support bar b	roken free from transve	rse beam, dislodged.		
	Joint 10 – equidistant bars brok	en/dislodged/missing.	-		
240 / 4	Box 3 – Longitudinal support bar b			0.00 39/ 2.00 09/	
310 / 4	Elastomeric Bearing PX – Span 4 bearings at pier 3, sli	each 76.	00 97% 74.00 0%	0.00 3% 2.00 0% 0.00	
			ebonded from sole plate at S end of	E face, rotated with S end 3 1/2in E and N end 1	
	5/8in E, PTFE pad distorted, near				
	G 2 – Bulging along E edge, botton	• • •			
	G 3 – Bearing assembly not paralle	a with airder ( offset 5/1)	ain over 16 b/Uin Ionath)		
311 / 4	Moveable Bearing	each 24.		15.00 38% 9.00 0% 0.00	

	NBI No.:		ructure No.	_		Local I	<u>D:</u>		<u>s</u>	uff. Rati			ND
	17051		22 0000 X			-1				82.90		0 15	
	Bearings at piers 4, abutment worst.	6, 10 and E abutmer	nt have pack	rust betwe	een rocker	and masor	iry plate. S	Several bea	aring bolts	broken/m	issing, pier	6 and E	
		s have corrosion with	n 1/16in paint	ted over pi	itting, anch	or bolts bei	nt/broken f	rom over e	xpansion.				
		G2 bearings shifted			•								
		ngs rocked up to 14	degree in exp	pansion at	91F, bear	ngs at pier	10 rocked	up to 9 de	grees exp	ansion. P	ier 4 G3 ro	cked	
313 / 4	more than other gird	ed Bearing	each	24.00	0%	0.00	100%	24.00	0%	0.00	0%	0.00	
313/4	No significant deficie		Guoii	21.00	070	0.00	10070	21.00	070	0.00	0,0	0.00	
321 / 4		Approach Slab	sq.ft	4.00	0%	0.00	75%	3.00	25%	1.00	0%	0.00	
<del></del>		ently overlaid with as											
		nd map cracks in W											
330 / 4		Bridge Railing		3,978.00		3,973.00		0.00	0%	5.00	0%	0.00	
	•	ge railing missing adj N railing in spans 5 a	•	•			ls with exp	osed reinfo	orcing at po	ost locatio	n at pier 12	<u>.</u> .	
919/4		ail) Prot. Coat		7,500.00	0%	0.00	100%	7,500.00	0%	0.00	0%	0.00	
0.07	aluminum railing		- 4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 0.1		1 1 1 1 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	L 411				
331 / 4	`	Bridge Railing	ft	5,967.00	0%	0.00	100%	5,939.00	0%	28.00	0%	0.00	
00174		ing and curb typically				_							
	staining and isolated	d locations of spalling	g with expose	ed reinforc	ing steel. T	he worst s	palling exis	sts to the so	outh curb i	n span 6 v	with a 20-fo	ot-long	
	x up to 6-inch-deep	•		:41- 1			li		. <b></b>	1.			
	-North railing in spar	ons exhibit minor imp	act damage	with neavy	y cracking a	and/or spai	ling with ex	kposea reir	norcemen	t:			
	• .	edian railing over pie	ers 10 and 12	2.									
819 / 4	PS Con	c.Gird.End(5Ft	ft	360.00	99%	356.00	1%	4.00	0%	0.00	0%	0.00	
		spalling with expose											
		er 1 - crack extending				flange exp	osing 9 str	ands.					
		ier 2 - spall in bottom er 2 – crack extendin				all evnosin	a 3 etrando						
		ier 2 – Clack exteriori	-		web and sp	ali expositi	y o siranus	o.					
		er 3 - spall in bottom			nds.								
		ier 3 - spall in botton	• .	•		in web exp	osing 4 str	ands.					
	Span 3, B6 at pier 3	bottom flange has the	ne ends of the		el anchors	for sole pla	to ovnoco	i .					
859 / 4		Soffit								_		_	
			each	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
	• .	oits full depth x full wi				0.00	100%	1.00	_				
	heavier over piers.	oits full depth x full wi	idth transvers	se cracking	g up to 0.0	0.00 30-inch-wic	100% le spaced a	1.00	_				
	heavier over piers. Shallow spalls exist		idth transvers	se crackino p flanges t	g up to 0.0	0.00 30-inch-wic the main s	100% le spaced a	1.00 at 2 to 6 fe	_				
	heavier over piers. Shallow spalls exist Isolated areas of the Soffit between girde	oits full depth x full wi sporadically adjacen e soffit overhangs ext rs 2 and 3 exhibits ru	idth transvers  It to girder to  hibit spalling  ust staining a	se cracking p flanges t with expos nd small p	g up to 0.00 throughout sed reinfor pop-outs du	0.00 30-inch-wich the main secement adjuste to shallo	100% le spaced a pans. acent to the w cover of	1.00 at 2 to 6 fe e joints . reinforcing	eet with mi	nor efflore			
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NBI No.: Structure No.: Local ID: Suff. Rating: ND 6822 0000 X -1 17051 82.90 Fixed poured seal joints at west abutment, pier 2, and deck control joints. PX - The compression joint seal at the east abutment has pushed through the full length and the joint is closed . The seal in the westbound lanes is impacted with soil and gravel in the inside shoulders and partially covered in a light amount of worn asphalt. The joint header in the westbound lanes exhibits a 24-inch-wide x 9-inch-long x 2-inch-deep spall in the northern lane. The seal in the eastbound lanes is missing causing the joint to leak and allowing drainage to pass onto the bearing seat at the east abutment. The joint armor in the eastbound lanes exhibits a 1/2-inch vertical offset with the bridge side joint armor lower than the approach joint armor . Several of the deck control joints exhibit minor spalling adjacent to the joints and missing joint seals. each 76.00 3% 2 00 0% 0.00 916 / 4 St.Bearing Assembly 97% Bearings showed some surface corrosion and some pack rust between assemblies. 956 / 4 St. Cracking/Fatigue each 1.00 0% 0.00 0% 0.00 100% 1.00 0% 0.00 FX - Cracks at horizontal web splice terminations in spans 4 near floor beam 5, span 5 near floor beams 3 and 11, and span 6 near floor beam 3. Cracks or cored hole noted at: · Span 4, girder 2, near floor beam 5 (1-inch-long crack arrested by cored hole, 1 1/2-inch-long crack arrested by cored hole). Span 4, girder 4, near floor beam 5 (7/16-inch-long crack arrested by a cored hole). Span 5, girder 1, near floor beam 11 (3/4-inch-long crack stopping short of the cored hole, 1 1/4-inch-long crack arrested by two cored holes). • Span 5, girder 2, near floor beam 11 (2-inch-long crack arrested by a cored hole). • Span 5, girder 3, near floor beam 11 (7/8-inch-long crack stopping short of the cored hole). • Span 5, girder 4, near floor beam 3 (1 1/8-inch-long crack arrested by a cored hole, 1-inch-long crack arrested by a cored hole). • Span 5, girder 4, near floor beam 11 (1-inch-long crack arrested by a cored hole). · Span 6, girder 1, near floor beam 3 (both cracks arrested by a cored hole). • Span 6, girder 2, near floor beam 3 (1-inch-long crack arrested by a cored hole). · Span 6, girder 3, near floor beam 3 (Paint crack originally noted). • Span 6, girder 4, near floor beam 3 (1 1/4-inch-long crack arrested by a cored hole). 957 / 4 Pack Rust Smart Flag each 1.00 0% Pack rust up to 1/2-in thick exists between some girder vertical web stiffeners and floor beam truss lower chord gusset plates and between horizontal splice flanges. Minor pack rust up to 1/4-in thick is developing at girder bottom flange splice plates where girder ends butt up against each other. Pack rust is active in many locations and worse at expansion joints. At floor beam 6 in span 4 between girders 3 and 4; 1/2-thick painted over pack rust exists between the floor beam web and the connection plate at girder 4. Similar condition at floor beam 8 at girder 4 over pier 6; in span 6. Similar conditions occur sporadically but with less severity. Floor beam 8 between girders 3 and 4 over pier 6; span 6; the floor beam truss lower chord exhibits pack rust up to 1/2 inch between the center gusset plate and the lower chord angle with 1/16-inch deep section loss to the gusset plate. Similar condition in span 7 over pier 6. FX - Pack rust is typically developing between the diaphragm top flange and the deck soffits; up to 1/16-inch at random locations Concrete Cracking SF 0% 0.00 958 / 4 each 1.00 100% 1.00 Deck in new portion (spans 1 through 3 and 70ft in span 4) has transverse cracks of 0.020in spaced at 3ft to 5ft, span 3 has 0.030in diagonal cracking. Deck in original portion has transverse cracks of 0.050in spaced at 5ft to 10ft. 0% 963 / 4 Steel Section Loss SF each 0% 0.00 100% 1.00 0.00 0.00 1.00 Areas of painted over pitting are present throughout the bridge primary members. Minor section loss is active at areas of pack rust, generally at deck joints. 100% Erosion SF 0% 0% 968 / 4 each 1.00 1.00 0.00 0.00 0% PX - E abutment breastwall has undermining with 20in of penetration beneath flowable fill (2013 repair) and no exposure of piles. Erosion is from Erosion exists under remnants of the original W abutment with no affect to the replaced abutment each OutOfPlane Dist./Load 0% 0.00 0% 0.00 969 / 4 1.00 0% Member Alignment - Span 6 FB 4 has 1/4in sweep between girders 1 and 2. each Straight Gird.Diaphr 1.00 0% 100% 1.00 0% 0% 0.00 974 / 4 0.00 0.00 PX – Stringer diaphragm between stringers 3 and 4, span 6 over FB 5 has an 8 1/2in crack. Pack rust exists between diaphragm top flange and deck soffit

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 1 - Looking west at the bridge end view.



Photograph 2 - Looking north at the bridge elevation.



Photograph 3 - Looking northwest at the underside of the pier 3 modular joint at support box 2. Note: bottom plate of the support box is unsupported along the end of span 3. Equidistant spring between support bars is missing (typical).





Photograph 4 - Looking south at the underside of the pier 3 modular joint at support box 3. Note: bottom plate of support box has fractured and west end of support bar 1 is unsupported. Bearing block for support bar 2 is dislodged. Stainless steel sliding surface is painted.

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 5 - Looking south at the underside of the pier 3 modular joint at support box 4. Note: the bottom plate of support box has fractured and support bar 2 is unsupported.





Photograph 6 - Looking east at the underside of the pier 3 modular joint at support box 5. Note: bearing block for support bar 1 is missing at the east support box. Stainless steel sliding surface is painted (typical).

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 7 - Looking west at the underside of the pier 3 modular joint at support box 7. Note: bottom plate of bearing support box is fractured adjacent to vertical plate.



Photograph 8 - Looking south at the underside of the pier 3 modular joint at support box 14. Note: stainless steel plate welded to support bar 1 at the east bearing box has fractured near the west weld.

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 9 - Looking west at the underside of the pier 3 modular joint at support box 15. Note: bottom plate of the west support box is fractured beneath the bearing block for support bar 1. Composite reinforcing extending up from beam 10 is exposed with no concrete under support box.



Photograph 10 - Looking north at the underside of the pier 3 modular joint at support box 16. Note: bottom plate of the west support box has fractured away and the west end of support bar 1 is unsupported.



Photograph 11 - Looking south at the underside of the pier 6 modular joint at support box 3. Note: support bar has broken away from the transverse separation beam.



Photograph 12 - Looking north at the underside of the pier 6 modular joint at support box 10. Note: support bar has broken away from the transverse separation beam.

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 13 - Looking south at the underside of the pier 10 modular joint at support box 4. Note: support beam is no longer attached to the transverse support beam and has slid east. South equidistant bar has broken and is wedged in place.





Photograph 14 - Looking northwest at span 4, floor beam 4, stringer 1. Note: no change to 1 1/2-inch-long horizontal crack.

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 15 - Looking southwest at span 4, floor beam 4, stringer 1. Note: no change to 1 5/8-inch-long horizontal crack.

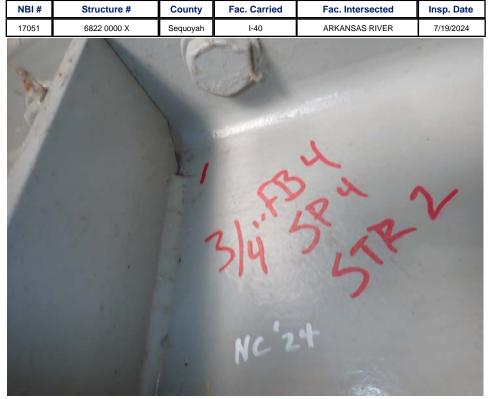


Photograph 16 - Looking east at span 4, floor beam 4, stringer 1. Note: cracks have now daylighted through to west face of web.

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 17 - Looking northwest at span 4, floor beam 4, stringer 2. Note: no change to 1 1/8-inch-long horizontal crack.



Photograph 18 - Looking southwest at span 4, floor beam 4, stringer 2. Note: no change to 3/4-inchlong horizontal crack.



Photograph 19 - Looking east at span 4, floor beam 4, stringer 2. Note: cracks have now daylighted through to west face of web.



Photograph 20 - Looking southwest at span 8, girder 3 at floor beam 4. Note: no change to 8 1/2-inch-long crack in gusset plate.

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 21 - Looking north at span 10, girder 2 at floor beam 2. Note: no change to 18-inch-long crack in gusset plate weld.



Photograph 22 - Looking east at span 11, girder 2 at floor beam 1. Note: no change to 6-inch-long crack at the lower lateral bracing gusset plate.



Photograph 23 - Looking northeast at span 4, girder 2, near floor beam 5 at end of longitudinal bolted web splice. Note: no change to upper web 1-inch-long crack or 1 1/2-inch-long crack.





Photograph 24 - Looking northeast at span 4, girder 4, near floor beam 5. Note: no change to 7/16-inch-long crack. No crack apparent in upper web, preventative arrestor hole drilled.



Photograph 25 - Looking south at span 5, girder 1, near floor beam 11. Note: no change to 3/4-inchlong crack or 1 1/4-inch-long crack.



Photograph 26 - Looking north at span 5, girder 2, near floor beam 11. Note: no change to 2-inchlong crack.

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 27 - Looking south at span 5, girder 3, near floor beam 11. Note: no change to 7/8-inchlong crack.

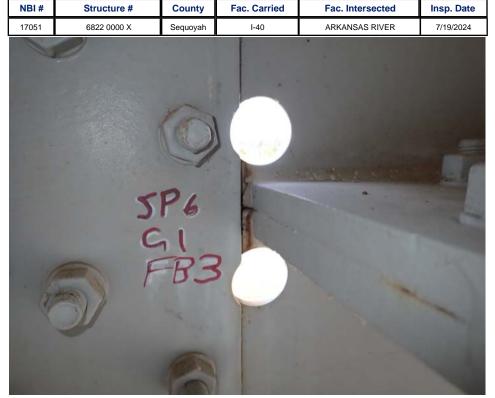


Photograph 28 - Looking north at span 5, girder 4, near floor beam 3. Note: no change to 1 1/8-inch-long crack or 1-inch-long crack.

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 29 - Looking northeast at span 5, girder 4, near floor beam 11. Note: no change to 1-inch-long crack.



Photograph 30 - Looking south at span 6, girder 1, near floor beam 3. Note: no change to both cracks arrested by a cored hole.



Photograph 31 - Looking north at span 6, girder 2, near floor beam 3. Note: no change to 1-inchlong crack.

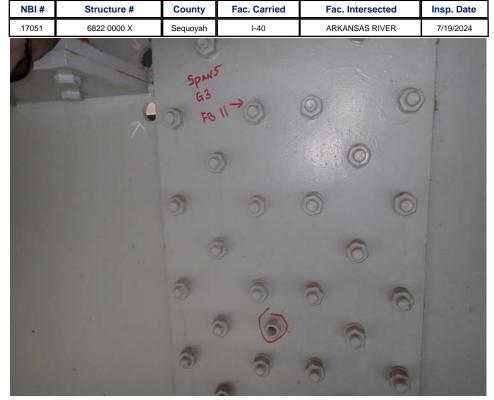


Photograph 32 - Looking south at span 6, girder 3 near floor beam 3. Note: paint cracks previously noted, no cracks found.

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



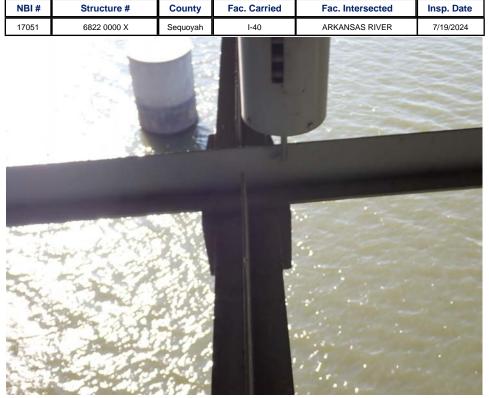
Photograph 33 - Looking north at span 6, girder 4, near floor beam 3. Note: no change to the 1 1/4-inch-long crack.



Photograph 34 - Looking south at span 6, girder 3 field splice near floor beam 11. Note: missing bolt.



Photograph 35 - Looking south at span 5, girder 3 field splice near floor beam 9. Note: missing bolt with localized deformation.



Photograph 36 - Looking southeast at span 4, girder bay 1-2 and floor beam bay 5-6. Note: fractured connection bolt at bottom of anti-vibration dampener (typical).



Photograph 37 - Looking north at span 6, girder 3 rocker bearing at pier 6. Note: outboard anchor rod is missing.



Photograph 38 - Looking north at beam 1 at the west abutment. Note: southern bolt is separated from abutment.



Photograph 39 - Looking northwest at beam 2 at the west abutment. Note: southern bolt is separated from abutment.



Photograph 40 - Looking west at beam 4 at the west abutment. Note: both bolts separated from abutment.



Photograph 41 - Looking west at beam 9 at the west abutment Note: both bolts disconnected from abutment.



Photograph 42 - Looking west at beam 12 at the west abutment. Note: both nuts separated from abutment.

NBI#	Structure #	County	Fac. Carried	Fac. Intersected	Insp. Date
17051	6822 0000 X	Sequoyah	I-40	ARKANSAS RIVER	7/19/2024



Photograph 43 - Looking north at beam 1 bearing at the east abutment. Note: bolts are disconnected at beam 1 bearing north, beam 2 both sides, beam 4 bearing south side.



Photograph 44 - Looking west at the west abutment beneath beam 5. Note: undermining up to 20 inches.