Oklahoma Dept. of Transportation - Bridge Inspection Report

		ept. of Transporta	ocal ID:	lago ii	-	-		
<u>NBI No.:</u> 15555	<u>Structur</u> 5568 11		-1		<u>Suff. R</u> 84	.80		ND
Pridge Description: IDEN	TIFICATION				INSPI	ECTION		
Bridge Description: 55ft70ft55ft. I-BM. SPANS SK. 38 D	FG 47ft 43ft		<u>Type</u>	Insp. Req.			Insp. Date	Next Insp.
Colt. Fold. Colt. I Blvi. Cl 741C Ort. Co B	20.1716.1016.		NBI:	N.		nonths	9/27/2018	09/27/2020
. a Oldahama I		40 M/D	FC: UW:	N N	0		NA NA	NA NA
1. State: Oklahoma 7. Fa 2. Division: Division 4 6. Fa	acility Carried: I-	40 WEST UNDER	OS:	N	0		NA	NA NA
3. County: OKLAHOMA	9. Location: 11	.3 MI E OF JCT I35			CLASSI	FICATION		
4. City: OKLA. CITY	11. Mile Post:	11.457 mi	12.Base Hw	v Net.: On	Base Network	101. Paralle	el Str.: Left o	of bridge
Admin Area: Unknown		Sub Rte: 5568 N000(/ 07	20. Toll Fac	_	free road	102. Traffic		y traffic
5a. On/Under: Route On Structure 5b. Kind of Hwy: Interstate Hwy	16. Latitude: 17. Longitude:	35° 24' 15.76" 097° 17' 29.34"	21. Custodia			103. Temp.		Applicable (P)
5c. Lvl of Srvc: Mainline	98. Border Brdg		22. Owner:	State	I lab on late antata	104. Hwy S		ne NHS
5d. Route No.: 00040	% Responsible:				Urban Interstate eligible for NRHP	1	and Hwy: N/A (เหยา) terstate STRAHI
5e. Dir. Sufx: N/A (NBI)	99. Border Brdg				terstate STRAHNE	1	•	
STRUCTURE TY	<u>PE AND MATER</u>	IALS	100. 201. 11			DITION	-Origin 5	
43a/b. Main Span:	,	tringer/Girder	58.Deck:	6 Satisfacto	ory 59.Sup.: 7	Good	60.Sub:5 F	air
44a/b. Appr. Span:	N/A / N	lot Applicable (P)	62.Culvert:		61.Chan./C	han. Prot.:	N/A (NBI)	
45. # of Main Spans: 3			Flowline N	Notes				
46. # of Appr. Spans: 0 107 Deck Type: Concrete-Ca	ast-in-Place							
107. Deck Type: Concrete-Ca 108a. Wearing Surface: Monolithic C								
108b. Membrane: None					LOAD RATING	AND POST	<u>ING</u>	
108c. Deck protection: Epoxy Coate	ed Reinforci		31. Design I		S 18 (HS 20)	Da	te Rated: 1	1/24/2003
AGF A	ND SERVICE		 41. Post. St 70. Posting: 		Open, no restriction At/Above Legal Loa			
19. Detour Length: 0.1 mi	106. Year Reco	nst.: 1989	63.Op / 65.I		•	ad Factor	/ 1 LF Lo	ad Factor
27. Year Built: 1962	109. Truck ADT	: 36%				HS	3-3 EV3	
28a/b. Lanes on/und: 2 / 2			64. Operatir	ng Rating (t			45.29 -1.00	
29. ADT: 18,200 30. Year of ADT: 2016			66. Inventor	ry Rating (to	ons): 45.97	60.19	37.19 -1.00	<u>ט</u>
30. Year of ADT: 2016 42a/b. Type of Svc on/und: Highway	! / /	Highway			APPE	RAISAL		
71			36a. Brdg R		Meets Standards	68. Deck G		ual Min Criteria
	ETRIC DATA	k Width L: 0.00 ft	36b. Transit 36c. Appr. F		Meets Standards Meets Standards	69. Vert./H	oriz. Undclr: ² vay Adeq: N	Not applicable
10. Vert. Clearance: 99.99 ft 32. Appr Rwy Width: 38.00 ft	50a. Curb/Sdwll 50b. Curb/Sdwll		36d. Appr. R		1 Meets Standard	71. Waterv	Alignment: 8 E	qual Desirable C
33. Median: No median	51. Width Curb		67. Str Eval		5 Above Min Tolera	113. Scour	Critical: N No	ot Over Waterwa
34. Skew: 51.00°	52. Width Out to				PROPOSED IN	/PROVEME	NTS	
35. Struct. Flared: No flare 47Horizontal Clr. 30.00 ft	Deck Area:		94. Bridge C	Cost:	\$4,444,286			epl-Load Capaci
47Horizontal Clr: 30.00 ft 48. Length Max Span: 70.00 ft	53. Min.Vert.Cl.	Ovi Big.	95. Roadwa	v Cost:	\$4,500,000	76. Lngth o	f Improvement	
49. Struct. Length: 183.00 ft	54b. Min. Vert. U	***************************************	96. Total Co		\$9,450,566	114. Future		29,120
3	55a. Min.Lat.Un	dclr.Ref: H Hwy beneath str	97. Yr.of Co	st Est.:	2015		uture ADT:	2036
	55. Min.Lat.Und		38. Nav. Co	ontrol: N	<u>NAVIGA</u> IA-no waterway	ION DATA		
	56. Min.Lat.Und		39. Vert. Cle		0.0 ft	111. Pier P	rotect.: No	ot Applicable (P)
200c. Temperature: 63	OKLAHOMA	<u>ITEMS</u>	40. Horiz. C	learance:	0.0 ft	116. Lift Br	idae Vert. Clr.:	0.0 ft
200d. Weather: Clear	-1 / -1	214a. Posted Weight Limit:	NR		244. Span Length	s:		
201. Struc.Stl. ASTM Desig.: 202. Waterprf.Membrane: -1	'' '	b. Posted Speed Limit:	55		>F= =0gu			
Date Installed: 01/01/190		c. Narrow/1way Brdg Sign:	No Yes		245. Girder Depth			
	ric Strip Seal	d. Vertical Clr. Sign:Adv. Warning Sign:	res No		246a. Type of Ove	elay: N	NA	
Pourable 204. Type of Railing: SFP-1		e. Navigation Lights?:	NA		b. Overlay Thick		0.00	
205. Material Quantity: 404.00		Working/Not Working:	NA		c. Overlay Date:d. Ovly Depth Ch		1/01/1901 N	
208a. Type of Abutment: Cantilever		· · · · · · · · ·	TERSTATE		247. Protective Sy	-	DPWR/Epoxy	/ Coated Ba
5 , po 5 5 a a	Natural Found. / No	221. Substr.Cond.(U/W): 222. Fill Over RCB:						
Loo. Type of Floir baria	Drilled Shaft	223. Appr.Slab/Rwy Cond.:	1					
210. Foundation Elev.: -1.00	-1.00	· · ·	oisturCure(SC-	MC-U)G	248. # Field Splice	s w/ Corrosi	on:	
-1.00 -1.00	-1.00	N/A			249. Scour Crit. Po	OA Exists?:	-	
211. Wear.Surf.Prot.Sys: Silane		226. Date Painted: 199			250. Headwall: 254. Thru Truss Tr	/pe:		
Date Installed: 01/01/1901		227. Paint Color: Gra 233. Deck Forming: Co	ay nventional For	mina	257a. OkiePROS	Truck Routin	•	
213. Utilities Attached:			rrent & Desire	~	258. Plans w/Four			
<u> </u>			phalt/Bitumino	us	259. Scour Eval. ir 263. Interchange a			
		243. Grdr Spacing/No.:	1		264. Interstate Mile		164.7	4
	I							

Oklahoma Dept. of Transportation - Bridge Inspection Report

<u>NBI No.:</u> 15555		<u>Structure</u> 5568 114		Local ID: -1	<u>Suff. Rating:</u> 84.80	ND
Inspection Date:	9/27/18	Reported By:	Gary Hines			
Invoice No.:	GLH918	Inspected With:				

BRIDGE NOTES:

THE 'SX' STRUCTURE CONTROLS THE UNDER CLEARANCE FOR THIS PAIR OF BRIDGES.

- * ONLY ONE BEAM IS 20 KSI THE REST ARE 18 KSI*
- * THE ORIGINAL BRIDGE HAS SPREAD FOOTINGS ON 3 OF THE 4 COLUMNS AT THE BENTS*
- * THE WIDENING PROJECT HAS DRILLED SHAFTS ON THE ABUTMENTS & ONE COLUMN AT EACH BENT*

INSPECTION NOTES: 9/27/18

G Hines inspection comments - 9/27/2018

Good asphalt approach roadway (top & bottom) * Safety below = 1111 * Satisfactory side drains * Some repairs noted on the NE slopewall * There is West-bound traffic only under the structure * There isn't any trailing railing on the structure * Posting is now 17'-1" * Temporary rail for roadway project to the east reduces clearance to 30ft *

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	6,945.20	39%	2,725.20	60%	4,170.00	1%	50.00	0%	0.00	
There are several small to moderate spalls along the joints over bents #1 & 2. Light wear present in the wheel lanes. Also see SF #958.												
107 / 4	Steel Opn Girder/Beam	ft	900.00	98%	880.00	2%	20.00	0%	0.00	0%	0.00	
Goo	od paint overall. Some old minor inactiv	e pitting	noted in a fev	v scattere	ed areas. Tir	y chippe	d areas note	ed on flanç	ge edges in	a few are	eas.	
Mino	or fading on scattered areas.								_			
515 / 4	Steel Protective Coating	sq.ft	10,076.00	100%	10,076.00	0%	0.00	0%	0.00	0%	0.00	
	Good paint overall. Some old minor in	active pit	tting noted in a	a few sca	ttered areas	. Tiny chi	pped areas	noted on	flange edge	es in a		
	few areas. Minor fading on scattered a	areas.									_	
205 / 4	Re Conc Column	each	8.00	63%	5.00	38%	3.00	0%	0.00	0%	0.00	
Mod	derate cracking noted on #1 in bent #2	& light c	racking on #3	in bent #	1. Minor sca	ling on #	1 in bent #1	. All colum	nns have so	me deteri	oration	
of th	ne protective coating (25%).										_	
215 / 4	Re Conc Abutment	ft	186.00	32%	59.00	56%	105.00	12%	22.00	0%	0.00	
PX -	- Lots of light to heavy horizontal crack	ing & cru	umbling along	the edge	of the seat	on the Ea	st abutmen	t below ea	ach bay (20	06 photo)	. The	
prot	tective coating has failed in all areas of	each ab	utment due to	joint see	page. There	e are also	some horiz	ontal crac	ks present	on the So	uth	
half	of the West abutment. Some deep cru	mbling 8	k spalling alon	g the edg	e of the Eas	st seat be	tween 3-4 8	& 5-6 pede	stals. The p	orotective		
	ting is failed 98%.				-				•		-	
923 / 4	Conc Substr Prot Coa	(SF)	3,652.00	100%	0.00	0%	3,652.00	0%	0.00	0%	0.00	
	FX - The substructure coating is fair or	n the ber	nts & poor on	the abutn	nents.				_			
234 / 4	Re Conc Pier Cap	ft	126.00	100%	126.00	0%	0.00	0%	0.00	0%	0.00	
Som	ne water staining noted on outer ends t	from join	t seepage. Th	e protecti	ive coating i	s deterior	ated at the	north end	of bent #1 ((100 sq ft)		
300 / 4	Strip Seal Exp Joint	ft	126.00	0%	0.00	100%	126.00	0%	0.00	0%	0.00	
FX -	- Cracking & spalling of the nosing mat	erial in s	everal areas a	along eac	h joint. Soil	needs cle	eaned out. S	Spalling of	the deck al	ong the n	osing at	
each	h joint is present as well.								_		_	
310 / 4	Elastomeric Bearing	each	36.00	100%	36.00	0%	0.00	0%	0.00	0%	0.00	
-1												
321 / 4	Re Conc Approach Slab	sq.ft	2.00	0%	0.00	100%	2.00	0%	0.00	0%	0.00	
PX -	- The end armor is damaged on the ea	st slab. E	Each approacl	h has son	ne minor to	moderate	cracking - 1	there is als	so a modera	ate crack	on the	
	t. One void needs filled on the East wh								-		_	
331 / 4	Re Conc Bridge Railing	ft	367.50	69%	254.50	30%	110.00	0%	0.00	1%	3.00	
	 Several light vertical cracking noted in 						• "	<u> </u>	-		_	
924 / 4	Conc Rail Prot Coat	(SF)	1,835.00	100%	0.00	0%	0.00	0%	0.00	0%	1,835.00	
	FX - The rail coating is poor overall.										_	
859 / 4	Soffit	(EA)	1.00	0%	0.00	100%	1.00	0%	0.00	0%	0.00	
Lots	s of light transverse cracks with minor e	effloresce	ence in each s	pan. Son	ne are every	3ft. to 4f	t. in span #2	2 (2006 ph	oto).		_	
865 / 4	St.Open Gird End(5Ft	(LF)	180.40	94%	170.40	6%	10.00	0%	0.00	0%	0.00	
Good paint overall. Some old minor inactive pitting noted in a few scattered areas. Tiny chipped areas noted on flange edges in a few areas.												
Mino	or fading on scattered areas.											
870 / 4	Concrete Wingwall	(EA)	4.00	100%	4.00	0%	0.00	0%	0.00	0%	0.00	
909 / 4	Pourable Fix Jt.Seal	(LF)	126.00	0%	0.00	0%	0.00	0%	0.00	100%	126.00	
PX ·	- The sealant has failed in the wheel la	nes over		ent with se	eepage evid	ent below						
										0.01	0.00	
916 / 4	St.Bearing Assembly	(LF)	36.00	81%	29.00	19%	7.00	0%	0.00	0%	0.00	
	St.Bearing Assembly ne surface rust is developing on a few					19%	7.00	0%	0.00	0%	0.00	

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_		ucture No.: 8 1146NX	<u>Local ID:</u> -1	<u>Suff. Rating:</u> 84.80	ND				
1	PX - There appears to be a hairline crack in the web of the 5th beam in span #1 at the diaphragm connection (2010 photo). Needs to be								
	checked with dye penetrate. No change (2014) - may not be a crack. 2016 - The absence of staining lends credence that this is probably a defect in the paint only - remove next inspection if no change.								
958 / 4	Concrete Cracking SF	(EA) 1.00	0.00 0%	0.00 0% 0.00 100%	1.00				
	PX - LOTS of light to moderate transverse & longitudal cracks in each span. Some cracks are every 2ft. to 4ft. in span #2. Needs sealed soon-approximately 60% of the total area is affected.								