

OKLAHOMA DEPARTMENT OF TRANSPORTATION - Bridge Inspection Report

Suff. Rating: 73.1
ND

Health Index :
83.1

NBI No.: 14437

Structure No.: 3625 0900 X

Local ID:-1

IDENTIFICATION
Description: 30'-55'-55'-30' CONT. CONC SLAB SPANS W/ 1.5' SAFETY CURBS
1. State: Oklahoma 2. SHD District: Division 4
3. County Code: KAY 4. Place Code: Unknown
Admin. Area: Unknown
5. Inventory Route (Route On Structure) : 1 - 4 - 1 - E0200 - 0
6. Feature Intersected: I-35 UNDER
7. Facility Carried: CO. RD. E0200 CO. RD. E0200
9. Location: 9. MI N NOBLE C/L 11. Mile Post: 8.998 mi
13. LRS Inv. Route./ Subroute.: -1 -1
16. Latitude: 36 43 27.57 17. Longitude: 097 20 46.02
98. Border Br. Code: Not Applicab % Resp.: 0 99. Border Br. #: Unknown

STRUCTURE TYPE AND MATERIALS
43. Main Span Material and Design Type
Concrete Continuous Slab
44. Approach Span Material and Design Type
Not Applicable (P) Not Applicable (P)
45. No. of Spans Main Unit: 4 46. No. of Approach Spans: 0
107. Deck Type: 1 Concrete-Cast-in-Place
108A. Wearing Surface: 0 None
108B. Membrane: 0 None
108C. Deck Protection: None

AGE AND SERVICE
27. Year Built: 1959 106. Year Reconstructed: -4
28A. Lanes on: 2 28B. Lanes Under: 4 19. Detour Length: 2.0 mi
29. ADT: 50 30. Year of ADT: 2015 109. Truck ADT %: 10
42A. Type of Service on: 1 Highway
42B. Type of Service under: 1 Highway

GEOMETRIC DATA
10. Inv. Rte. Min. Vert. Clr.: 328.1 ft
32. Approach Roadway Width (W/ Shoulders): 20.3 ft
Deck Area: 4,983.7 sq. ft 33. Median: 0 No median
34. Skew: 0 35. Structure Flared: 0 No flare
47. Inv. Rte. Total Horiz. Clr.: 24.0 ft
48. Length Maximum Span: 55.1 ft 49. Structure Length: 171.9 ft
50A. Curb/Sdwk Wth L: 1.5 ft 50B. Curb/Sidewalk Width R: 1.5 ft
51. Width Curb to Curb: 24.0 ft 52. Width Out to Out: 29.0 ft
53. Minimum Vertical Clearance Over Bridge: 328.1 ft
54A/54B. Min. Vert. Underclearance: H Hwy beneath struct 16.8 ft

Meas.	N/E	N1700	-1	S/W	S1702	-1
Post.	DO NOT U	DO NOT U	DO NOT U	DO NOT U	DIV. 4	-1

55A/55B. Minimum Lateral Underclearance R: H Hwy beneath struct 9.7 ft
56. Minimum Lateral Underclearance L: 18.9 ft

200c. Temperature: 54
200d. Weather: CLOUDY
201. Structural Steel ASTM Desig.: -1 -1
202. Waterproof Membrane : -1
Date Installed : 1/1/1901
203. Type Exp. Dev. : -
204. Type of Handrail: BC
205. Material and Quantity : -1.0
208. Type of Abutment : Skeleton
Type of Foundation : Concrete Piling
209. Type of Pier / Found.: 1 Pier -
No Piling or Drilled Shaft
210. Foundation Elev. -1.0 -1.0
9680.0 9655.0 -1.0
211. Wear. Surf. Prot. System : None
Date Installed : 1/1/1901
213. Utilities Attached : -1
-1 -1 -1
-1 -1 -1

214a. Posted Weight Limit: NR
b. Posted Speed Limit : NR
c. Narrow/One Lane Bridge sign : NO
d. Vertical Clearance Sign: YES
Advanced Warning Sign : NO
e. Navigation Lights : -
Working/Not Working : -
215. Overpass : A - Interstate
221. Substructure Cond. (U/W) : -
222. Fill over RCB: -1
223. Appr. Slab/Rdwy Cond.: Good
225. Paint Type : Not Applicable
Overcoat : Not Applicable
226. Date Painted: -1
227. Paint Coloring: -1
233. Deck Forming: Conventional Forming
238. School Bus Rte: Current and Desired Route
240. Appr. Roadway Type: Gravel

INSPECTION

Type	Insp Req.	Insp Done	Freq:	Insp. Date:	Next Insp.:
NBI:		Y	24	11/13/2017	11/13/2019
FC Freq.:	N	N	NA	NA	NA
UW Freq.:	N	N	NA	NA	NA
OS Freq.:	N	N	NA	NA	NA

CLASSIFICATION
12. Base Hwy Network : Not on Base Network 20. Toll Facility: 3 On free road
21. Custodian: 01 State Highway Agency 22. Owner: 01 State Highway Agency
26. Functional Class: 07 Rural Mjr Collecto 37. Historical Sig.: 5 Not eligible for NRHP
100. Defense Highway: 0 Not a STRAHNET h 101. Parallel Structure: No || bridge exists
102. Dir. of Traffic: 2 2-way traffic 103. Temp. Structure: Not Applicable (P)
104. Highway System: 0 Not on NHS 105. Fed. Land Hwy 0 N/A (NBI)
110. National Truck Network: 0 Not part of na 112. NBIS Length: Long Enough

CONDITION
58. Deck: 5 Fair 59. Super.: 6 Satisfactory 60. Sub.: 6 Satisfactory
62. Culvert: N N/A (NBI) 61. Channel/Channel Protection: N N/A (NBI)
Flowline Notes:

LOAD RATING AND POSTING
31. Design Load: 2 M 13.5 (H 15) 41. Posting status: A Open, no restriction
63. Op. Rating Method: 1 LF Load Factor-Ton Alt. Op. Rating Meth.: 1 LF Load Factor-To
64. Operating Rating (H / HS / 3-3) : 30.0 41.0 69.2
66. Inventory Rating (H / HS / 3-3) : 14.9 18.6 -1.1
65. Inv. Rating Method: 1 LF Load Factor-Tor Alt. Inv. Rating Meth.: 1 LF Load Factor-Tor
70. Posting: 5 At/Above Legal Loads Date Rated : 12/11/2007

PROPOSED IMPROVEMENTS
94. Bridge Cost: \$688,846 75. Type of Work: 31 Repl-Load Capacit
95. Roadway Cost: \$1,136,596 76. Lgth. of Improvement: 275.6 ft
96. Total Cost: \$1,928,769 114. Future ADT: 80
97. Year of Cost Est.: 2015 115. Year of Future ADT: 2035

NAVIGATION DATA
38. Navigation Control: NA-no waterway
39. Vertical Clearance: 0.0 ft 40. Horizontal Clearance: 0.0 ft
111. Pier Protection: Not Applicable (P) 116. Lift Bridge Vert. Clear.: 0.0 ft

APPRAISAL
36A. Bridge Rail: 0 Substandard 36C. Approach Rail: 0 Substandard
36B. Transition: 0 Substandard 36D. Approach Rail Ends: 0 Substandard
67. Str. Evaluation: 5 Above Min Tolerable 68. Deck Geometry: 6 Equal Min Criteria
69. Underclearance, Vertical and Horizontal: 4 Tolerable
71. Waterway Adequacy: N Not applicable
72. Approach Alignment: 8 Equal Desirable Crit
113. Scour Critical: N Not Over Waterway

243. Girder Spacing/Number : -1.0 / -1
244. Span Lengths :
30 30 -1
55 -1 -1
55 -1
245. Girder Depth : -1.000
246. Type of Overlay : -
246. Overlay Thickness : 0
246. Overlay Date : 1/1/1901
246. Overlay Depth Changed > 1"? No
247. Protective Systems : 1: -
2: - 3: -
4: - 5: -
248. No. of Field Splices w/ Corrosion : -1
249. Scour Crit. POA exists?: -
250. Culvert Headwall Dist.: -1.0
256. Chan. Profile Up/Down Stream?: -
257a. OkiePROS Auto. Truck Routing No
258. Plans w/ found. are in file at ODOT:
259. Scour Eval. is in file at ODOT:
263. Interchange at Intersection: No Interchange
264. Interstate Milepoint: 216.73

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Health Index :
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NBI No.: 14437 Structure No.: 3625 0900 X Local ID:-1

Inspection Date: 11/13/2017 Reported By: GHINES
 Invoice No.: -1 Inspected With: Gary Richardson
 Agency :



Structure / Inspection Notes

Maximum horizontal clearance below: N.B.= 45.6', S.B.=44' due to cable barriers & crash barrels.

G Hines inspection comments - 11/13/2017

PX - Each side drain is settled & broken at the top with a cavity developing under the SW slopewall edge & at the NW * PX - The West slopewall is settled with an abutment cavity & exposed piles - the East slopewall is separated at the center joint with undermining * Safety below = 1111 * Good gravel roadway above * FX - All OM-3's are in place but lean out *

Elm.	Env.	Description	Un.	Qty.	Qty.St. 1	% 1	Qty.St. 2	% 2	Qty.St. 3	% 3	Qty.St. 4	% 4	Qty.St. 5	% 5
38	4	Reinforced Concrete Slab	(SF)	4,126	0	0 %	4,126	100 %	0	0 %	0	0 %	0	0 %
205	4	Reinforced Conc Column or Pile Extension	(EA)	11	9	82 %	2	18 %	0	0 %	0	0 %	0	0 %
215	4	Reinforced Conc Abutment	(LF)	62	57	92 %	5	8 %	0	0 %	0	0 %	0	0 %
234	4	Reinforced Conc Cap	(LF)	81	45	56 %	36	44 %	0	0 %	0	0 %	0	0 %
310	4	Elastomeric Bearing	(EA)	5	5	100 %	0	0 %	0	0 %	0	0 %	0	0 %
331	4	Reinforced Conc Bridge Railing	(LF)	344	326	95 %	5	1 %	13	4 %	0	0 %	0	0 %
859	4	Soffit of Concrete Decks and Slabs	(EA)	1	0	0 %	1	100 %	0	0 %	0	0 %	0	0 %
958	4	Concrete Cracking	(EA)	1	0	0 %	0	0 %	0	0 %	1	100 %	0	0 %
967	4	Substructure Traffic Impact	(EA)	1	0	0 %	1	100 %	0	0 %	0	0 %	0	0 %
968	4	Erosion	(EA)	1	1	100 %	0	0 %	0	0 %	0	0 %	0	0 %

Additional Elements

Elem.	Element Notes (Include Size and Location of Deterioration)
38	PX - Some minor wear & grader scrapes noted in the wheel lanes. Light to moderate pattern & longitudinal cracks of medium density are present in the wheel lanes - most are less than 1 foot apart. The soffit has cracking & discoloration in each span from 10% to 70% (35% avg). Soil & gravel need cleaned from the curb & gutter area.
205	One moderate chipped area noted on the lower NE area of the 1st column. Moderate scaling at the ground line on the 2nd column. The total quantity includes 7 exposed piles under the West abutment and one under the East abutment.
215	Minor defects & stains noted on each abutment.
234	Some minor staining & popouts from rebar chairs on the bottom of each cap on each end. Minor defects noted at the South end of bent #2. Good condition overall
310	< none >
331	Superficial weathering overall. There are two posts with spalling on the very tops. Some exposed rebar noted in scattered areas due to insufficient cover.
859	Some light to moderate pattern cracking & discoloration is present in each span. 10% of span #1, 35% of span #2, 70% of span #3 (2009 photo), & 25% of span #4 has distress. No spalling noted.
958	PX - Light to moderate pattern & longitudinal cracks of medium density are present in the wheel lanes - most are less than 1 foot apart.
967	One moderate chipped area noted on the lower NE area of the 1st column.
968	PX - The West slopewall has settled full width exposing 7 piles up to 6 inches (including wing piles). One pile is barely visible on the East. Needs attention soon.

Roadway Name : I-35 UNDER		NBI Information Applicable To The Route Under The Structure	
5. Inventory Route (Route Under Structure :	2 - 1 - 1 - 00035 - 0	102. Traffic Dir.:	2 2-way traffic
10. Min. Vert. Clr.(ft.):	16.8	104. Highway System :	1 On the NHS
12. Base Hwy Network :	On Base Network	105. Fed Land Hwy :	0 N/A (NBI)
13. LRS Inv. Rt./ Subroute :	3625 W0000 / 02	109. Truck ADT% :	36
19. Detour Len.(Mi.):	0.0	110. Natl. Truck Network :	1 Part of natl network
20. Toll Facility :	3 On free road	114. Future ADT :	25120
26. Function Class.:	01 Rural Interstate	100. Defense Highway :	1 On Interstate STRAHNET
Agency Field: 1.(Under Rte.):	<input type="text" value="U"/>	2.(Vert. X-Ref.):	<input type="text" value="-1"/>
		3.(Compass Dir.):	<input type="text" value="N"/>
		4.(Vert. Post. Inc.):	<input type="text" value="1608"/>
		5.(Vert. Post. Dec.):	<input type="text" value="1609"/>