

OKLAHOMA DEPARTMENT OF TRANSPORTATION - Bridge Inspection Report

Suff. Rating: 66.6
FO

Health Index :
82.2

NBI No.: 14429

Structure No.: 3625 0599 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 - 00000 - 0
6. Feature Intersected: I-35 UNDER
7. Facility Carried: CO. RD. E0230 CO. RD. E0230
9. Location: 1 MIS US60 JCT 11. Mile Post: 5.989 mi
13. LRS Inv. Route./ Subroute.: -1 -1
16. Latitude: 36 40 50.90 17. Longitude: 097 20 46.05
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: 101 30. Year of ADT: 2015 109. Truck ADT %: 15
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): 20.5 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 16.1 ft
N/E S/W
Meas. N1604 N1605 -1 S1605 S1606 -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 6.1 ft
56. Minimum Lateral Underclearance L: 19.0 ft

200c. Temperature: 53
200d. Weather: CLEAR
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 -
Concrete Piling
210. Foundation Elev. -1.0 -1.0
9405.0 9127.0 -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 | 11/20/2017 | 11/20/2019 |
| 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: 6 Satisfactory 59. Super.: 7 Good 60. Sub.: 7 Good
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: 162
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: 5 Above Tolerable
69. Underclearance, Vertical and Horizontal: 2 Intolerable - Replace
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: 213.72

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Health Index :
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NBI No.: **14429** Structure No.: 3625 0599 X Local ID:-1

Inspection Date: 11/20/2017 Reported By: GHINES
 Invoice No.: -1 Inspected With: Gary Richardson
 Agency :



Structure / Inspection Notes

Maximum horizontal clearance below is 47.1' (S.B.) & 43' (N.B.) due to the Briffen Cable Barrier system & crash barrels.

G Hines inspection comments - 11/20/2017

Safety below = 1111 * New concrete roadway (S.B.) & new asphalt roadway (N.B.) below in 2009 * Satisfactory side drains; the SW has been redone since 2013 * PX - The NE & SW OM-3's are down/missing (top) - the others lean & need reset * PX - The SE OM-3 below needs refastened *

| 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 | 412 | 10 % | 3,714 | 90 % | 0 | 0 % | 0 | 0 % | 0 | 0 % |
| 205 | 4 | Reinforced Conc Column or Pile Extension | (EA) | 3 | 3 | 100 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % |
| 215 | 4 | Reinforced Conc Abutment | (LF) | 62 | 60 | 97 % | 0 | 0 % | 2 | 3 % | 0 | 0 % | 0 | 0 % |
| 234 | 4 | Reinforced Conc Cap | (LF) | 81 | 48 | 59 % | 32 | 40 % | 1 | 1 % | 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 | 332 | 97 % | 8 | 2 % | 4 | 1 % | 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 % |

Additional
Elements

| Elem. | Element Notes (Include Size and Location of Deterioration) |
|-------|---|
| 38 | PX - Some minor wear & grader scrapes noted. Some light scaling noted in spans #1 & #3 near the South curb. Light pattern cracking is present almost every two inches with moderate cracks every one foot except for 18 inches along each curb. Approximately 90% of the area has distress. |
| 205 | < none > |
| 215 | One minor spall is present on the East abutment near the center along the bottom & one near the South end. Some water staining noted. |
| 234 | Some minor staining & popouts from rebar chairs on the bottom of each cap. One tiny delamination noted at the SE area of the 3rd cap. Not serious. |
| 310 | < none > |
| 331 | Superficial weathering overall - some rebar visible from insufficient cover noted (not serious).Some light cracks noted on a few posts. |
| 859 | Some light cracking noted in a few areas of each fascia & span #1 & #4. Some popout type spalls are present (snap ties?). No leaching or efflorescence noted. No discoloration on the underside of any spans. All defects are really superficial at this time. |
| 958 | PX - Light pattern cracking is present almost every two inches with moderate cracks every one foot except for 18 inches along each curb (90%). |

| 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.): | 16.1 | 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 / 01 | 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 : | 28000 |
| 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="1510"/> |
| | | 5.(Vert. Post. Dec.): | <input type="text" value="1603"/> |