OKLAHOMA DEPARTMENT OF TRANSPORTATION - Bridge Inspection Report

NBI No.: **05017** Structure No.: 5806 0256 X Local ID:-1 Suff. Rating: 29.9 SD Health Index : 59.7

IDENTIFICATION

Description:
40'-60'-40' I-BM. SPANS WITH 2-5' SIDEWALKS SK. 45 DEG.

1. State: Oklahoma
2. SHD District: Division 8
3. County Code: OTTAWA
4. Place Code: AFTON

Admin. Area: Unknown

5. Inventory Route (Route On Structure) : 1 - 2 - 1 - 00060 - 0
6. Feature Intersected: HORSE CREEK
7. Facility Carried: U.S. 60 U.S. 60
9. Location: 2.6 MI N DELAWARE
11. Mile Post: 2.559 mi
13. LRS Inv. Route./ Subroute.: 5806 0000 02
16. Latitude: 36 41 48.73
17. Longitude: 094 57 24.04
98. Border Br. Code: Unknown (P) % Resp. : 0
99. Border Br. #: Unknown

STRUCTURE TYPE AND MATERIALS

43. Main Span Material and Design Type
Steel Stringer/Girder
44. Approach Span Material and Design Type
Unknown (NBI) Unknown (P)
45. No. of Spans Main Unit: 3
46. No. of Approach Spans: 0
107. Deck Type: 1 Concrete-Cast-in-Place
108A. Wearing Surface: 1 Monolithic Concrete
108B. Membrane: 8 Unknown
108C. Deck Protection: 8 Unknown

AGE AND SERVICE

27. Year Built: 1936
106. Year Reconstructed: Unknown
28A. Lanes on: 2
28B. Lanes Under: 0
19. Detour Length: 19.9 mi
29. ADT: 6500
30. Year of ADT: 2013
109. Truck ADT %: 16
42A. Type of Service on: 5 Highway-pedestrian
42B. Type of Service under: 5 Waterway

GEOMETRIC DATA

10. Inv. Rte. Min. Vert. Clr.: 328.1 ft
32. Approach Roadway Width (W/ Shoulders): 24.0 ft
Deck Area: 5,575.7 sq. ft
33. Median: 0 No median
34. Skew: 45
35. Structure Flared: 0 No flare
47. Inv. Rte. Total Horiz. Clr.: 24.0 ft
48. Length Maximum Span: 60.0 ft
49. Structure Length: 143.0 ft
50A. Curb/Sdwlk Wdth L: 5.0 ft
50B. Curb/Sidewalk Width R: 5.0 ft
51. Width Curb to Curb: 24.0 ft
52. Width Out to Out: 39.0 ft
53. Minimum Vertical Clearance Over Bridge: 328.1 ft
54A/54B. Min. Vert. Underclearance : N Feature not hwy or RR 0.0 ft

	N/E			S/W		
Meas.	-1	-1	-1	-1	-1	-1
Post.	DO NOT U	DO NOT U	DO NOT U	DO NOT U	DO NOT U	DO NOT U

55A/55B. Minimum Lateral Undrclearance R: N Feature not hwy or RR 0.0 ft
56. Minimum Lateral Undrclearance L: 0.0 ft

INSPECTION

Type	Insp Req.	Insp Done	Freq:	Insp. Date:	Next Insp.:
NBI:		Y	24	4/6/2015	4/6/2017
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 : 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: 06 Rural Minor Arteri
37. Historical Sig.: 1 Br on Natl Reg Hist Pl
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: 3 Serious
59. Super.: 4 Poor
60. Sub.: 5 Fair
62. Culvert: N N/A (NBI)
61. Channel/Channel Protection: 7 Minor Damage

Flowline Notes:
Flowline/ high water = 24ft. Channel under ctr span.

LOAD RATING AND POSTING

31. Design Load: 4 M 18 (H 20)
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):	35.2	49.6	78.6
66. Inventory Rating (H / HS / 3-3) :	21.0	29.8	47.1

65. Inv. Rating Method: 1 LF Load Factor-Ton
Alt. Inv. Rating Meth.: 1 LF Load Factor-To
70. Posting: 5 At/Above Legal Loads
Date Rated : 8/1/2006

PROPOSED IMPROVEMENTS

94. Bridge Cost: $1,089,056
75. Type of Work: 31 Repl-Load Capacity
95. Roadway Cost: $1,796,942
76. Lgth. of Improvment: 247.1 ft
96. Total Cost: $3,049,356
114. Future ADT: 10400
97. Year of Cost Est.: 2009
115. Year of Future ADT: 2033

NAVIGATION DATA

38. Navigation Control: Permit Not Required
39. Vertical Clearance: 0.0 ft
40. Horizontal Clearance: 0.0 ft
111. Pier Protection: 1 Not Required
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: 4 Minimum Tolerable
68. Deck Geometry: 2 Intolerable - Replace
69. Underclearance, Vertical and Horizontal: N Not applicable (NBI)
71. Waterway Adequacy: 7 Above Minimum
72. Approach Alignment: 8 Equal Desirable Crit
113. Scour Critical: 8 Stable Above Footing

200c. Temperature: 60
200d. Weather: CLOUDY
201. Structural Steel ASTM Desig.: -1 -1
202. Waterproof Membrane : -1
Date Installed : 1/1/1901
203. Type Exp. Dev. : Pourable
-
204. Type of Handrail: Concrete Post and Rails
205. Material and Quantity : 710.0
208. Type of Abutment : Cantilever
Type of Foundation : Natural Foundation Matl.
209. Type of Pier / Found.: 4 Yes
Concrete Piling
210. Foundation Elev. -1.0 7616.0
-1.0 -1.0 -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 : 35
c. Narrow/One Lane Bridge sign : N
d. Vertical Clearance Sign: NO
Advanced Warning Sign : NO
Min. Measured Clearance : -1
Max. Measured Clearance : -1
e. Navigation Lights : _
Working/Not Working : _
215. Overpass : C - US Highway
221. Substructure Cond. (U/W) : -
222. Fill over RCB: 0
223. Appr. Slab/Rdwy Cond.: Satisfactory
224. Critical Feature Type: -1
225. Paint Type : Red Lead Ready
Overcoat : 9
226. Date Painted: 2000
227. Paint Coloring: Red
233. Deck Forming: Conventional Forming
236. Deck Cleaning : -1
238. School Bus Rte: Current and Desired Route
240. Appr. Roadway Type: Asphalt/Bituminous

243. Girder Spacing/Number : -1.0 / -1
244. Span Lengths :
40 -1 -1
60 -1 -1
40 -1
245. Girder Depth : -1.000
246. Type of Overlay : _
246. Overlay Thickness : -1.0
246. Overlay Date : 1/1/1901
246. Overlay Depth Changed > 1"? _
247. Protective Systems : 1: _
2: _ 3: _
4: _ 5: _
248. No. of Field Splices w/ Corrosion : -1
249. Scour Crit. POA exists?: No
250. Culvert Headwall Dist.: -1.0
254. Thru Truss Type : _
256. Chan. Profile Up/Down Stream?: Up
257a. OkiePROS Auto. Truck Routing Yes
258. Plans w/ found. are in file at ODOT
259. Scour Eval. is in file at ODOT
263. Interchange at Intersection N
264. Interstate Milepoint -1.00

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Inspection Date: 4/6/2015 Reported By: UFD8003

Invoice No.: -1 Inspected With: -1

Agency :

Loyd Bivins

Digitally signed by Loyd Bivins
DN: cn=Loyd Bivins, o, ou=With ODOT Helper, email=LBivins@odot.org, c=US
Date: 2015.05.14 11:29:37 -05'00'

Structure / Inspection Notes

FX:SEVERAL DIAPHRAGMS SEVERE SECTION LOSS & SEVERAL COMPLETELY DETERIATED.

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
12	4	Reinforced Concrete Deck	(SF)	3,432	0	0 %	0	0 %	3,432	100 %	0	0 %	0	0 %
107	4	Steel Open Girder Beam	(LF)	771	0	0 %	771	100 %	0	0 %	0	0 %	0	0 %
205	4	Reinforced Conc Column or Pile Extension	(EA)	8	0	0 %	8	100 %	0	0 %	0	0 %	0	0 %
210	4	Reinforced Conc Pier Wall	(LF)	79	0	0 %	79	100 %	0	0 %	0	0 %	0	0 %
215	4	Reinforced Conc Abutment	(LF)	112	0	0 %	108	96 %	4	4 %	0	0 %	0	0 %
234	4	Reinforced Conc Cap	(LF)	112	0	0 %	110	98 %	2	2 %	0	0 %	0	0 %
301	4	Pourable Joint Seal	(LF)	187	0	0 %	0	0 %	0	0 %	187	100 %	0	0 %
311	4	Moveable Bearing (roller, sliding, etc.)	(EA)	14	0	0 %	12	86 %	0	0 %	2	14 %	0	0 %
313	4	Fixed Bearing	(EA)	14	0	0 %	11	79 %	0	0 %	3	21 %	0	0 %
515	4	Steel (Superstructure) Protective Coating	(SF)	3,362	0	0 %	3,362	100 %	0	0 %	0	0 %	0	0 %
859	4	Soffit of Concrete Decks and Slabs	(EA)	1	0	0 %	0	0 %	1	100 %	0	0 %	0	0 %
865	4	Steel Open Girder/Beam End (5 Ft.)	(LF)	210	0	0 %	60	29 %	150	71 %	0	0 %	0	0 %
958	4	Concrete Cracking	(EA)	1	0	0 %	1	100 %	0	0 %	0	0 %	0	0 %
963	4	Steel Section Loss	(EA)	1	0	0 %	1	100 %	0	0 %	0	0 %	0	0 %

Additional Elements

Elem.	Element Notes (Include Size and Location of Deterioration
12	FX:Several Patched areas,spalls & Impending potholes w/ exposed rebar.Note:Deck makes chatter noise upon Impact.
107	< none >
205	< none >
210	< none >
215	FX:E.ABUT. MODERATE DIAG.CRACKS W/EFFLORESCENCE S.E.COR. AND W.ABUT SPALLS W/ EXPOSED REBAR & CRACKS W/ EFFLOR.
234	< none >
301	PX:Exp.Jts.have failed sidewalk areas,others failing.
311	FX: BEARINGS HAVE MODERATE to HEAVY CORROSSION.
313	FX: BEARINGS HAVE MODERATE to HEAVY CORROSSION.
515	FX:PAINT FAILED @ BM.ENDS.
859	FX:SOFFIT FALSEWORK,SEVERAL SPALLS REBAR EXPOSED,CRACKS WITH EFFLOR.THROUGHOUT.
865	FX: BEAM ENDS HAVE MODERATE SECTION LOSS. NOTE: ENDS HAVE WELDED ANGLES.
958	FX:MOD.DECK CRACKS.
963	PX: SECTION LOSS AT BEAM ENDS AND BEARINGS.

Channel Profile

	Baseline	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Distance	0	70.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Profile		24.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
Event		Flowline	_	_	_	_	_	_	_	_	_	_	_	_	_	_