HistoricBridges.org - National Bridge Inventory Data Sheet

2019 Inventory

The National Bridge Inventory contains data submitted by state transportion departments to the Federal Highway Administration in coded format.
Form Interface Design: www.historicbridges.org. Data Conversion Assistance By www.bridgehunter.com. None of the involved parties make any guarantee of accuracy.

Basic Information

Oklahoma [40]	Canadian County [017]	Unknown [00000]	CADDO CANADIAN CL	35-32-25.00 = 35.540278	098-19-22.00 = -98.322778

40850000000000 | Highway agency district: 4 | Owner: State Highway Agency [01] | Maintenance responsibility: State Highway Agency [01]

Route: 281 | U.S. 281 | Toll: On free road [3] | Features intersected: S. CANADIAN RIVER

Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	0 km = 0.0 mi
38	Truss - Thru [10]	2	Stringer/Multi-beam or girder [02]	Year built: 1933	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance	Bridge is eligible for the NRHP. [2]

Total length: 1200 m = 3937.2 ft | Length of maximum span: 30.5 m = 100.1 ft | Deck width, out-to-out: 7.9 m = 25.9 ft | Bridge roadway width, curb-to-curb: 7.3 m = 24.0 ft

Inventory Route, Total Horizontal Clearance: 7.3 m = 24.0 ft | Curb or sidewalk width - left: 0.3 m = 1.0 ft | Curb or sidewalk width - right: 0.3 m = 1.0 ft

Deck structure type: Concrete Cast-in-Place [1]

Type of wearing surface: Bituminous [6]

Deck protection: Unknown [8]

Type of membrane/wearing surface: Unknown [8]

Weight Limits

Bypass, detour length: 1.9 km = 1.2 mi

Method to determine inventory rating: Load Factor(LF) [1] | Inventory rating: 12.8 metric ton = 14.1 tons

Method to determine operating rating: Load Factor(LF) [1] | Operating rating: 13.7 metric ton = 15.1 tons

Bridge posting: 20.0 - 29.9 % below [2] | Design Load: M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	1100	Average daily truck traffi	16 %	Year	2016	Future average daily traffic	1760	Year	2036

Road classification	Minor Arterial (Rural) [06]	Lanes on structure	2	Approach roadway width	9.1 m = 29.9 ft
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median	
Parallel structure designation	No parallel structure exists. [N]				
Type of service under bridge	Waterway [5]	Lanes under structure	0	Navigation control	
Navigation vertical clearanc	0 = N/A	Navigation horizontal clearance	0 = N/A		
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft	Minimum vertical clearance over bridge roadway	99.99 m = 328.1 ft		
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]				
Minimum lateral underclearance on right	99.9 = Unlimited	Minimum lateral underclearance on left	30.4 m = 99.7 ft		
Minimum Vertical Underclearance	0 = N/A	Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]		
Appraisal ratings - underclearances	N/A [N]				

Repair and Replacement Plans

Type of work to be performed

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	6782000	Roadway improvement cost	4500000
Length of structure improvement	1200 m = 3937.2 ft	Total project cost	11920000
Year of improvement cost estimate	2015		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number	_		

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		

Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]

Appraisal ratings - water adequacy	Somewhat better than minimum adequacy to tolerate being left in place as is [5]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	18

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	
Traffic safety features - approach guardrail	
Traffic safety features - approach guardrail ends	

Inspection date	October 2018 [1018]	Designated inspection frequency	12	Months

Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	October 2018 [1018]
Other special inspection	Every year [Y12]	Other special inspection date	April 2018 [0418]

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2015 Inventory

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Basic Information

Oklahoma [40]	Canadian County [017]	Unknown [00000]	CADDO CANADIAN CL	35-32-25.00 = 35.540278	098-19-22.00 = -98.322778

040850000000000 | Highway agency district: 4 | Owner: State Highway Agency [01] | Maintenance responsibility: State Highway Agency [01]

Route: 281 | U.S. 281 | Toll: On free road [3] | Features intersected: S. CANADIAN RIVER

Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	0 km = 0.0 mi
38	Truss - Thru [10]	2	Stringer/Multi-beam or girder [02]	Year built: 1933	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance	Bridge is eligible for the NRHP. [2]

Total length: 1200 m = 3937.2 ft | Length of maximum span: 30.5 m = 100.1 ft | Deck width, out-to-out: 7.9 m = 25.9 ft | Bridge roadway width, curb-to-curb: 7.3 m = 24.0 ft

Inventory Route, Total Horizontal Clearance: 7.3 m = 24.0 ft | Curb or sidewalk width - left: 0.3 m = 1.0 ft | Curb or sidewalk width - right: 0.3 m = 1.0 ft

Deck structure type: Concrete Cast-in-Place [1]

Type of wearing surface: Bituminous [6]

Deck protection: Unknown [8]

Type of membrane/wearing surface: Unknown [8]

Weight Limits

Bypass, detour length: 1.9 km = 1.2 mi

Method to determine inventory rating: Load Factor(LF) [1] | Inventory rating: 19.8 metric ton = 21.8 tons

Method to determine operating rating: Load Factor(LF) [1] | Operating rating: 32.9 metric ton = 36.2 tons

Bridge posting: Equal to or above legal loads [5] | Design Load: M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	1100	Average daily truck traffi	16 %	Year	2013	Future average daily traffic	1760	Year	2033

Road classification	Minor Arterial (Rural) [06]	Lanes on structure	2	Approach roadway width	9.1 m = 29.9 ft
Type of service on bridge	Highway [1]	Direction of traffic	2 - way traffic [2]	Bridge median	
Parallel structure designation	No parallel structure exists. [N]				
Type of service under bridge	Waterway [5]	Lanes under structure	0	Navigation control	
Navigation vertical clearanc	0 = N/A	Navigation horizontal clearance	0 = N/A		
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft	Minimum vertical clearance over bridge roadway	99.99 m = 328.1 ft		
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]				
Minimum lateral underclearance on right	99.9 = Unlimited	Minimum lateral underclearance on left	99.9 = Unlimited		
Minimum Vertical Underclearance	0 = N/A	Minimum vertical underclearance reference feature	Feature not a highway or railroad [N]		
Appraisal ratings - underclearances	N/A [N]				

Repair and Replacement Plans

Type of work to be performed

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	6782000	Roadway improvement cost	4500000
Length of structure improvement	1200 m = 3937.2 ft	Total project cost	11920000
Year of improvement cost estimate	2009		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number	_		

Inspection and Sufficiency

Structure status	Open, no restriction [A]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		

Scour	Countermeasures have been installed to mitigate an existing problem with scour. [7]
Channel and channel protection	Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]

Appraisal ratings - water adequacy	Meets minimum tolerable limits to be left in place as is [4]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	34.9

Culverts	Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings	
Traffic safety features - transitions	
Traffic safety features - approach guardrail	
Traffic safety features - approach guardrail ends	

Inspection date	November 2013 [1113]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	November 2013 [1113]
Other special inspection	Every two years [Y24]	Other special inspection date	November 2014 [1114]