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

Tennessee [47]	Carter County [019]	Elizabethton [23500]	IN CITY OF ELIZBETHTON	36-12-00.00 = 36.200000	082-12-48.00 = -82.213333

10SR0670029	Highway agency district: 1	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 321	East [2]	FAP 67	Toll: On free road [3]	Features intersected: DOE RIVER	

Design - main	Concrete continuous [2]	Design - approach		Kilometerpoint: 1142.6 km = 708.4 mi	
5	Arch - Deck [11]	0	Other [00]	Year built: 1929	Year reconstructed: 2005
				Skew angle: 0	Structure Flared:
				Historical significance: Historical significance is not determinable at this time. [4]	

Total length: 91 m = 298.6 ft	Length of maximum span: 20.4 m = 66.9 ft	Deck width, out-to-out: 24.5 m = 80.4 ft	Bridge roadway width, curb-to-curb: 17.9 m = 58.7 ft				
Inventory Route, Total Horizontal Clearance: 17.9 m = 58.7 ft	Curb or sidewalk width - left: 3 m = 9.8 ft	Curb or sidewalk width - right: 3 m = 9.8 ft					
Deck structure type: Concrete Cast-in-Place [1]							
Type of wearing surface: Bituminous [6]							
Deck protection:							
Type of membrane/wearing surface:							

Weight Limits

Bypass, detour length	Method to determine inventory rating: Load Factor(LF) [1]		Inventory rating: 32.4 metric ton = 35.6 tons		
0.3 km = 0.2 mi	Method to determine operating rating: Load Factor(LF) [1]		Operating rating: 44.1 metric ton = 48.5 tons		
	Bridge posting: Equal to or above legal loads [5]		Design Load: MS 18 / HS 20 [5]		

Functional Details

Average Daily Traffic	26800	Average daily truck traffi	5 %	Year	2017	Future average daily traffic	42880	Year	2038

Road classification	Other Principal Arterial (Urban) [14]	Lanes on structure	5	Approach roadway width	17.7 m = 58.1 ft
Type of service on bridge	Highway-pedestrian [5]	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		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	0 = N/A	Minimum lateral underclearance on left	0 = N/A		
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

Widening of existing bridge or other major structure without deck rehabilitation or replacement [33]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	911000	Roadway improvement cost	92000
Length of structure improvement	91 m = 298.6 ft	Total project cost	1367000
Year of improvement cost estimate	2018		
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	Equal to present minimum criteria [6]
Condition ratings - superstructure	Satisfactory [6]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Good [7]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	Banks are protected or well vegetated. River control devices such as spur dikes and embankment protection are not required or are in a stable condition. [8]		
Appraisal ratings - water adequacy	Better than present minimum criteria [7]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	76.2
Culverts	Not applicable. Used if structure is not a culvert. [N]		

Traffic safety features - railings	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]

Inspection date	July 2017 [0717]	Designated inspection frequency	24	Months
Underwater inspection	Not needed [N]	Underwater inspection date		
Fracture critical inspection	Not needed [N]	Fracture critical inspection date		
Other special inspection	Not needed [N]	Other special inspection date		