HistoricBridges.org - National Bridge Inventory Data Sheet

2018 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

Texas [48]	Jim Hogg County [247]	Unknown [00000]	RAINBOW BRIDGE	29-58-48.44 = 29.980122	093-52-16.86 = -93.871350

201240030603015 | Highway agency district: 20 | Owner: State Highway Agency [01] | Maintenance responsibility: State Highway Agency [01]

Route: 87 | | SH 73/SH 87 WB | Toll: On free road [3] | Features intersected: NECHES RIVER

Design - main	Steel continuous [4]	Design - approach	Steel continuous [4]	Kilometerpoint	429 km = 266.0 mi
3	Truss - Thru [10]	58	Truss - Deck [09]	Year built: 1939	Year reconstructed: 1997
				Skew angle: 0	Structure Flared:
				Historical significance	Bridge is on the NRHP. [1]

Total length	2349.1 m = 7707.4 ft	Length of maximum span	207.3 m = 680.2 ft	Deck width, out-to-out	9.1 m = 29.9 ft	Bridge roadway width, curb-to-curb	8.5 m = 27.9 ft
Inventory Route, Total Horizontal Clearance	8.5 m = 27.9 ft	Curb or sidewalk width - left	0 m = 0.0 ft	Curb or sidewalk width - right	0 m = 0.0 ft		

Deck structure type	Concrete Cast-in-Place [1]
Type of wearing surface	Monolithic Concrete (concurrently placed with structural deck) [1]
Deck protection	Unknown [8]
Type of membrane/wearing surface	Unknown [8]

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis or evaluation perfor	Inventory rating	24.5 metric ton = 27.0 tons	
0.2 km = 0.1 mi	Method to determine operating rating	No rating analysis or evaluation perfor	Operating rating	32.7 metric ton = 36.0 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load	M 13.5 / H 15 [2]	

Functional Details

Average Daily Traffic	16000	Average daily truck traffi	8 %	Year	2016	Future average daily traffic	25600
Year	2036						
Road classification	Principal Arterial - Other (Rural) [02]	Lanes on structure	2	Approach roadway width	8.5 m = 27.9 ft		
Type of service on bridge	Highway [1]	Direction of traffic	1 - way traffic [1]	Bridge median			
Parallel structure designation	The left structure of parallel bridges. This structure carries traffic in the opposite direction. [L]						
Type of service under bridge	Waterway [5]	Lanes under structure	0	Navigation control	Navigation control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	54 m = 177.2 ft	Navigation horizontal clearance	182.9 m = 600.1 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	4.88 m = 16.0 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	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

Other structural work, including hydraulic replacements. [38]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	432000	Roadway improvement cost	108000
Length of structure improvement	2349.1 m = 7707.4 ft	Total project cost	540000
Year of improvement cost estimate	2010		
Border bridge - state		Border bridge - percent responsibility of other state	
Border bridge - structure number			

Inspection and Sufficiency

Structure status	New structure not yet open to traffic [G]	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 desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - deck	Satisfactory [6]		

Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]
Channel and channel protection	Bank is beginning to slump. River control devices and embankment protection have widespread minor damage. There is minor stream bed movement evident. Debris is restricting the channel slightly. [6]

Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	42.8

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 2016 [0716]	Designated inspection frequency	24	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	May 2014 [0514]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	October 2013 [1013]
Other special inspection	Not needed [N]	Other special inspection date	