

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.
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Basic Information

South Carolina [45]	Beaufort County [013]	Unknown [00000]	12.5 MI SE BEAUFORT	32-24-12.00 = 32.403333	080-27-18.00 = -80.455000		
925	Highway agency district	6	Owner	State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route	21	US 21	Toll	On free road [3]	Features intersected	HARBOR RIVER	
Design - main	Steel [3]	Design - approach	Steel continuous [4]	Kilometerpoint	183 km = 113.5 mi		
1	Movable - Swing [17]	67	Stringer/Multi-beam or girder [02]	Year built	1939	Year reconstructed	#Num!
				Skew angle	0	Structure Flared	
				Historical significance	Historical significance is not determinable at this time. [4]		
Total length	869 m = 2851.2 ft	Length of maximum span	52.4 m = 171.9 ft	Deck width, out-to-out	6.4 m = 21.0 ft	Bridge roadway width, curb-to-curb	6.1 m = 20.0 ft
Inventory Route, Total Horizontal Clearance	6.1 m = 20.0 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	Allowable Stress(AS) [2]	Inventory rating	18.9 metric ton = 20.8 tons
19.9 km = 12.3 mi	Method to determine operating rating	Allowable Stress(AS) [2]	Operating rating	18.9 metric ton = 20.8 tons
Bridge posting	30.0 - 39.9 % below [1]		Design Load	M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	4200	Average daily truck traffi	5	%	Year	2011	Future average daily traffic	6678	Year	2031
Road classification	Minor Arterial (Rural) [06]		Lanes on structure	2		Approach roadway width	11.6 m = 38.1 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 control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	4.6 m = 15.1 ft			Navigation horizontal clearance	18.3 m = 60.0 ft					
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft				Minimum vertical clearance over bridge roadway	4.57 m = 15.0 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	Work done by	Work to be done by contract [1]								
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	9512000	Roadway improvement cost	2378000						
	Length of structure improvement	869 m = 2851.2 ft			Total project cost	14268000				
	Year of improvement cost estimate	2013								
	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	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructure	Fair [5]	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 replacement [2]
Condition ratings - deck	Fair [5]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7]		
Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection	In place and functioning [2]	Sufficiency rating	37.9
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions			
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends			
Inspection date	November 2012 [1112]	Designated inspection frequency	24 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	November 2010 [1110]
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	November 2012 [1112]
Other special inspection	Unknown [N00]	Other special inspection date	