HistoricBridges.org - National Bridge Inventory Data Sheet

1992 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

Florida [12]	Nassau County [089]	Unknown [00000]	SR-105 10 MI.S.FERNANDINA	30-30-48.00 = 30.513333	081-27-00.00 = -81.450000

740055 | Highway agency district: 2 | Owner: State Highway Agency [01] | Maintenance responsibility: State Highway Agency [01]

Route: 105 | | SR-105 BUCCANEER T | Toll: On free road [3] | Features intersected: NASSAU SOUND

Design - main	Steel [3]	Design - approach	Steel [3]	Kilometerpoint	
2	Movable - Swing [17]	81	Stringer/Multi-beam or girder [02]	Year built: 1948	Year reconstructed: N/A [0000]
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is not eligible for the NRHP. [5]	

Total length: 1040.3 m = 3413.2 ft | Length of maximum span: 26.5 m = 86.9 ft | Deck width, out-to-out: 9.8 m = 32.2 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: 0.5 m = 1.6 ft | Curb or sidewalk width - right: 0.5 m = 1.6 ft

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

Type of wearing surface: Monolithic Concrete (concurrently placed with structural deck) [1]

Deck protection:

Type of membrane/wearing surface:

Weight Limits

Bypass, detour length: 3.7 km = 2.3 mi

Method to determine inventory rating: | Inventory rating: 16.2 metric ton = 17.8 tons

Method to determine operating rating: | Operating rating: 27 metric ton = 29.7 tons

Bridge posting: 30.0 - 39.9 % below [1] | Design Load: M 13.5 / H 15 [2]

Functional Details

Average Daily Traffic	1769	Average daily truck traffi	10 %	Year	1990	Future average daily traffic	4000	Year	2009

Road classification	Principal Arterial - Other (Rural) [02]	Lanes on structure	2	Approach roadway width	12.2 m = 40.0 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	4.5 m = 14.8 ft	Navigation horizontal clearance	18.2 m = 59.7 ft		
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

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	$3,500,000	Roadway improvement cost	$1,000,000
Length of structure improvement	1040.6 m = 3414.2 ft	Total project cost	5517000
Year of improvement cost estimate			
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	Fair [5]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Satisfactory [6]		

Scour	Scour calculation/evaluation has not been made. [6]
Channel and channel protection	Bank and embankment protection is severely undermined. River control devices have severe damage. Large deposits of debris are in the channel. [4]

Appraisal ratings - water adequacy	Equal to present desirable criteria [8]	Status evaluation	
Pier or abutment protection	In place but in a deteriorated condition [3]	Sufficiency rating	40.3

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	
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	October 1991 [1091]	Designated inspection frequency	24	Months

Underwater inspection	Every year [Y12]	Underwater inspection date	September 1991 [0991]
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	October 1991 [1091]
Other special inspection	Every year [Y12]	Other special inspection date	October 1991 [1091]