

HistoricBridges.org - National Bridge Inventory Data Sheet

2016 Inventor

The National Bridge Inventory contains data submitted by state transportation 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

New York [36]	St. Lawrence County [089]	Madrid [44490]	IN MADRID	44-44-50.21 = 44.747281	075-07-51.22 = -75.130894
1027310	Highway agency district 75	Owner State Highway Agency [01]	Maintenance responsibility	State Highway Agency [01]	
Route 345	RTE 345	Toll On free road [3]	Features intersected	GRASSE RIVER	
Design - main	Masonry [8]	Design - approach		Kilometerpoint	1409.5 km = 873.9 mi
9	Arch - Deck [11]	0	Other [00]	Year built	1882
				Year reconstructed	2009
				Skew angle	0
				Structure Flared	
				Historical significance	Bridge is eligible for the NRHP. [2]
Total length	122.8 m = 402.9 ft	Length of maximum span	13.7 m = 44.9 ft	Deck width, out-to-out	8.5 m = 27.9 ft
Inventory Route, Total Horizontal Clearanc	6.7 m = 22.0 ft	Curb or sidewalk width - left	1.5 m = 4.9 ft	Curb or sidewalk width - right	0 m = 0.0 ft
Deck structure type	Concrete Cast-in-Place [1]				
Type of wearing surface	Integral Concrete (separate non-modified layer of concrete added to structural deck) [2]				
Deck protection	Epoxy Coated Reinforcing [1]				
Type of membrane/wearing surface					

Weight Limits

Bypass, detour length	Method to determine inventory rating	No rating analysis or evaluation perfor	Inventory rating	40.8 metric ton = 44.9 tons
1.7 km = 1.1 mi	Method to determine operating rating	No rating analysis or evaluation perfor	Operating rating	81.5 metric ton = 89.7 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 22.5 / HS 25 or greater [9]

Functional Details

Average Daily Traffic	2229	Average daily truck traffi	10	%	Year	2013	Future average daily traffic	3121	Year	2033
Road classification	Major Collector (Rural) [07]		Lanes on structure	2		Approach roadway width	7.3 m = 24.0 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	2 - way traffic [2]		Bridge median				
Parallel structure designatio	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	Work done by	Work to be done by contract [1]		
Widening of existing bridge with deck rehabilitation or replacement. [34]	Bridge improvement cost	2167000	Roadway improvement cost	1269000
	Length of structure improvement	122.8 m = 402.9 ft	Total project cost	3436000
	Year of improvement cost estimate	2014		
	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 desirable criteria [8]
Condition ratings - superstructure	Very Good [8]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Very Good [8]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Not Applicable [N]		
Scour	Bridge foundations determined to be stable for assessed or calculated scour condition. [5]		
Channel and channel protection	There are no noticeable or noteworthy deficiencies which affect the condition of the channel. [9]		
Appraisal ratings - water adequacy	Equal to present minimum criteria [6]	Status evaluation	
Pier or abutment protection		Sufficiency rating	77.7
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends			
Inspection date	October 2015 [1015]	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	