HistoricBridges.org - National Bridge Inventory Data Sheet

2009 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

New York [36]	New York County [061]	New York [51000]	BROOKLYN BR OVER EAST RVR	40-42-20 = 40.705556	073-59-47 = -73.996389

2240019	Highway agency district	#Num!	Owner	City or Municipal Highway Agency [04]	Maintenance responsibility	City or Municipal Highway Agency [04]

Route	0	BROOKLYN BRIDGE	Toll	On free road [3]	Features intersected	I278 BKN-QNS EXP, EAST R

Design - main	Steel [3]	Design - approach	Masonry [8]	Kilometerpoint	0 km = 0.0 mi
3	Suspension [13]	72	Arch - Deck [11]	Year built	1883
				Year reconstructed	1994
				Skew angle	99
				Structure Flared	Yes, flared [1]
				Historical significance	Bridge is on the NRHP. [1]

Total length	1785.5 m = 5858.2 ft	Length of maximum span	486.4 m = 1595.9 ft	Deck width, out-to-out	26.2 m = 86.0 ft	Bridge roadway width, curb-to-curb	18.2 m = 59.7 ft
Inventory Route, Total Horizontal Clearance	9.1 m = 29.9 ft	Curb or sidewalk width - left	4.7 m = 15.4 ft	Curb or sidewalk width - right	0 m = 0.0 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	No rating analysis performed [5]	Inventory rating	3 metric ton = 3.3 tons
0.3 km = 0.2 mi	Method to determine operating rating	No rating analysis performed [5]	Operating rating	3 metric ton = 3.3 tons
	Bridge posting	20.0 - 29.9 % below [2]	Design Load	

Functional Details

Average Daily Traffic	106392	Average daily truck traffi	7 %	Year	2008	Future average daily traffic	148949
Year	2028						
Road classification	Principal Arterial - Other Freeways or Exp	Lanes on structure	6	Approach roadway width	21.3 m = 69.9 ft		
Type of service on bridge	Highway-pedestrian [5]	Direction of traffic	2 - way traffic [2]	Bridge median	Closed median (no barriers) [2]		
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Highway-waterway [6]	Lanes under structure	24	Navigation control	Navigation control on waterway (bridge permit required). [1]		
Navigation vertical clearanc	40.5 m = 132.9 ft	Navigation horizontal clearance	304.8 m = 1000.0 ft				
Minimum navigation vertical clearance, vertical lift bridge		Minimum vertical clearance over bridge roadway	3.35 m = 11.0 ft				
Minimum lateral underclearance reference feature	Highway beneath structure [H]						
Minimum lateral underclearance on right	0 = N/A	Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	4.01 m = 13.2 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]				
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrrective action [3]						

Repair and Replacement Plans

Type of work to be performed

Widening of existing bridge with deck rehabilitation or replacement. [34]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	25039000	Roadway improvement cost	14694000
Length of structure improvement	1785.5 m = 5858.2 ft	Total project cost	39733000
Year of improvement cost estimate	2009		
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	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - superstructur	Poor [4]	Appraisal ratings - roadway alignment	Basically intolerable requiring high priority of corrrective action [3]
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Poor [4]		

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 desirable criteria [8]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	None present but re-evaluation suggested [5]	Sufficiency rating	0

Culverts	Not applicable. Used if structure is not a culvert. [N]
Traffic safety features - railings	
Traffic safety features - transitions	Inpected feature meets currently acceptable standards. [1]
Traffic safety features - approach guardrail	
Traffic safety features - approach guardrail ends	Inpected feature meets currently acceptable standards. [1]

Inspection date	October 2008 [1008]	Designated inspection frequency	12	Months

Underwater inspection	Unknown [Y60]	Underwater inspection date	October 2008 [1008]
Fracture critical inspection	Every year [Y12]	Fracture critical inspection date	October 2008 [1008]
Other special inspection	Not needed [N]	Other special inspection date	