

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] Niagara County [063] Niagara Falls [51055] JCT RT 182 + NIAGARA R. 43-06-33 = 43.109167 079-03-28 = - 79.057778

5039547 Highway agency district 54 Owner Local Toll Authority [32] Maintenance responsibility Local Toll Authority [32]

Route 0 WHIRPOOL RAP BR Toll Toll bridge [1] Features intersected CANADIAN NAT RR, NIAGARA

Design - main Steel [3] Design - approach Steel [3] Kilometerpoint 16090 km = 9975.8 mi

1 Arch - Thru [12] 2 Truss - Thru [10] Year built 1899 Year reconstructed 1918

Skew angle 0 Structure Flared

Historical significance Bridge is eligible for the NRHP. [2]

Total length 240.7 m = 789.7 ft Length of maximum span 167.6 m = 549.9 ft Deck width, out-to-out 9.4 m = 30.8 ft Bridge roadway width, curb-to-curb 7.9 m = 25.9 ft

Inventory Route, Total Horizontal Clearance 7.9 m = 25.9 ft Curb or sidewalk width - left 3.2 m = 10.5 ft Curb or sidewalk width - right 3.2 m = 10.5 ft

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

Type of wearing surface Latex Concrete or similar additive [3]

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.4 km = 0.2 mi Method to determine inventory rating No rating analysis performed [5] Inventory rating 22 metric ton = 24.2 tons

Method to determine operating rating No rating analysis performed [5] Operating rating 71 metric ton = 78.1 tons

Bridge posting Equal to or above legal loads [5] Design Load

Functional Details

Average Daily Traffic Average daily truck traffi % Year Future average daily traffic Year

Road classification Lanes on structure Approach roadway width

Type of service on bridge Direction of traffic Bridge median

Parallel structure designation

Type of service under bridge Lanes under structure Navigation control

Navigation vertical clearanc Navigation horizontal clearance

Minimum navigation vertical clearance, vertical lift bridge Minimum vertical clearance over bridge roadway

Minimum lateral underclearance reference feature

Minimum lateral underclearance on right Minimum lateral underclearance on left

Minimum Vertical Underclearance Minimum vertical underclearance reference feature

Appraisal ratings - underclearances

Repair and Replacement Plans

Type of work to be performed

Work done by

Bridge improvement cost Roadway improvement cost

Length of structure improvement Total project cost

Year of improvement cost estimate

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	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of corrective action [3]
Condition ratings - deck	Fair [5]		
Scour	Bridge foundations (including piles) on dry land well above flood water elevations. [9]		
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 minimum criteria [6]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	27.1
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions	Not applicable or a safety feature is not required. [N]		
Traffic safety features - approach guardrail			
Traffic safety features - approach guardrail ends			
Inspection date	October 2008 [1008]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	October 2008 [1008]
Other special inspection	Not needed [N]	Other special inspection date	