

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] Richmond County [085] New York [51000] I278 OVER VERRAZ. NARROWS 40-36-23 = 40.606389 074-02-43 = - 74.045278

5521218 Highway agency district #Num! Owner Local Toll Authority [32] Maintenance responsibility Local Toll Authority [32]

Route 278 RTE I278 Toll Toll bridge [1] Features intersected RTE I278, THE NARROWS

Design - main Steel [3] Design - approach Steel [3] Kilometerpoint 0 km = 0.0 mi

13 Suspension [13] 6 Girder and floorbeam system [03] Year built 1961 Year reconstructed N/A [0000]

Skew angle 99 Structure Flared Yes, flared [1]

Historical significance Bridge is not eligible for the NRHP. [5]

Total length 2418.2 m = 7934.1 ft Length of maximum span 1281.6 m = 4204.9 ft Deck width, out-to-out 25.9 m = 85.0 ft Bridge roadway width, curb-to-curb 22.5 m = 73.8 ft

Inventory Route, Total Horizontal Clearance 11.2 m = 36.7 ft Curb or sidewalk width - left 0.7 m = 2.3 ft Curb or sidewalk width - right 0.7 m = 2.3 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 9.6 km = 6.0 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 32.7 metric ton = 36.0 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 45.4 metric ton = 49.9 tons

Bridge posting Equal to or above legal loads [5] Design Load MS 18+Mod / HS 20+Mod [6]

Functional Details

| | | | | | | | | | | |
|---|--|----------------------------|-----------------------|---|--|------------------------|--|--------|------|------|
| Average Daily Traffic | 182700 | Average daily truck traffi | 12 | % | Year | 2011 | Future average daily traffic | 255780 | Year | 2031 |
| Road classification | Principal Arterial - Interstate (Urban) [11] | | Lanes on structure | 6 | | Approach roadway width | 22.5 m = 73.8 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 | 6 | | Navigation control | Navigation control on waterway (bridge permit required). [1] | | | |
| Navigation vertical clearanc | 69.4 m = 227.7 ft | | | Navigation horizontal clearance | 7 m = 23.0 ft | | | | | |
| Minimum navigation vertical clearance, vertical lift bridge | | | | Minimum vertical clearance over bridge roadway | 4.26 m = 14.0 ft | | | | | |
| Minimum lateral underclearance reference feature | Highway beneath structure [H] | | | | | | | | | |
| Minimum lateral underclearance on right | 0.4 m = 1.3 ft | | | | Minimum lateral underclearance on left | 0.4 m = 1.3 ft | | | | |
| Minimum Vertical Underclearance | 4.26 m = 14.0 ft | | | Minimum vertical underclearance reference feature | Highway beneath structure [H] | | | | | |
| Appraisal ratings - underclearances | Basically intolerable requiring high priority of corrective action [3] | | | | | | | | | |

Repair and Replacement Plans

| | | | | | | | | | | |
|---|-----------------------------------|----------------------|--|--|---|---------------------------------|--|--|--|--|
| Type of work to be performed | Work done by | | | | | Work to be done by contract [1] | | | | |
| Bridge deck replacement with only incidental widening. [37] | Bridge improvement cost | 500000000 | | | Roadway improvement cost | 292800000 | | | | |
| | Length of structure improvement | 2418.2 m = 7934.1 ft | | | Total project cost | 792800000 | | | | |
| | Year of improvement cost estimate | 2011 | | | | | | | | |
| | Border bridge - state | | | | Border bridge - percent responsibility of other state | | | | | |
| | Border bridge - structure number | | | | | | | | | |

Inspection and Sufficiency

| | | | |
|---|--|---------------------------------------|--|
| Structure status | <input type="text" value="Open, no restriction [A]"/> | Appraisal ratings - structural | <input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/> |
| Condition ratings - superstructure | <input type="text" value="Fair [5]"/> | Appraisal ratings - roadway alignment | <input type="text" value="Equal to present desirable criteria [8]"/> |
| Condition ratings - substructure | <input type="text" value="Fair [5]"/> | Appraisal ratings - deck geometry | <input type="text" value="Basically intolerable requiring high priority of corrective action [3]"/> |
| Condition ratings - deck | <input type="text" value="Fair [5]"/> | | |
| Scour | <input type="text" value="Bridge foundations determined to be stable for assessed or calculated scour condition. [5]"/> | | |
| Channel and channel protection | <input type="text" value="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 | <input type="text" value="Equal to present minimum criteria [6]"/> | Status evaluation | <input type="text" value="Functionally obsolete [2]"/> |
| Pier or abutment protection | <input type="text" value="In place and functioning [2]"/> | Sufficiency rating | <input type="text" value="56.3"/> |
| Culverts | <input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/> | | |
| Traffic safety features - railings | <input type="text" value="Inspected feature meets currently acceptable standards. [1]"/> | | |
| Traffic safety features - transitions | <input type="text" value="Inspected feature meets currently acceptable standards. [1]"/> | | |
| Traffic safety features - approach guardrail | <input type="text"/> | | |
| Traffic safety features - approach guardrail ends | <input type="text"/> | | |
| Inspection date | <input type="text" value="October 2010 [1010]"/> | Designated inspection frequency | <input type="text" value="24"/> Months |
| Underwater inspection | <input type="text" value="Not needed [N]"/> | Underwater inspection date | <input type="text"/> |
| Fracture critical inspection | <input type="text" value="Every two years [Y24]"/> | Fracture critical inspection date | <input type="text" value="October 2010 [1010]"/> |
| Other special inspection | <input type="text" value="Not needed [N]"/> | Other special inspection date | <input type="text"/> |