

The National Bridge Inventory contains data submitted by state transportation departments to the Federal Highway Administration in coded format.
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Basic Information

New York [36] New York County [061] New York [51000] OVER HARLEM RVR IN HARLEM 40-48-10 = 40.802778 073-55-49 = - 73.930278

2240059 Highway agency district #Num! Owner City or Municipal Highway Agency [04] Maintenance responsibility City or Municipal Highway Agency [04]

Route 0 WILLIS AVENUE Toll On free road [3] Features intersected HARLEM RVR DR S/B, BRUCK

Design - main Steel continuous [4] Design - approach Steel [3] Kilometerpoint 0 km = 0.0 mi

3 Movable - Swing [17] 23 Stringer/Multi-beam or girder [02] Year built 1901 Year reconstructed 1987

Skew angle 0 Structure Flared Yes, flared [1]

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

Total length 628.1 m = 2060.8 ft Length of maximum span 76.2 m = 250.0 ft Deck width, out-to-out 14 m = 45.9 ft Bridge roadway width, curb-to-curb 12.8 m = 42.0 ft

Inventory Route, Total Horizontal Clearance 6 m = 19.7 ft Curb or sidewalk width - left 2.5 m = 8.2 ft Curb or sidewalk width - right 2.5 m = 8.2 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

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 0.1 km = 0.1 mi Method to determine inventory rating No rating analysis performed [5] Inventory rating 14.6 metric ton = 16.1 tons

Method to determine operating rating No rating analysis performed [5] Operating rating 50.6 metric ton = 55.7 tons

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

Functional Details

| | | | | | | | | | | |
|---|--|----------------------------|---|---|-------------------------------|--|--|---------------------------------|------|------|
| Average Daily Traffic | 59315 | Average daily truck traffi | 9 | % | Year | 2008 | Future average daily traffic | 83041 | Year | 2028 |
| Road classification | Other Principal Arterial (Urban) [14] | | | Lanes on structure | 4 | Approach roadway width | 14.6 m = 47.9 ft | | | |
| Type of service on bridge | Highway-pedestrian [5] | | | Direction of traffic | 1 - way traffic [1] | | Bridge median | Closed median (no barriers) [2] | | |
| Parallel structure designation | No parallel structure exists. [N] | | | | | | | | | |
| Type of service under bridge | Highway-waterway-railroad [| | | Lanes under structure | 15 | Navigation control | Navigation control on waterway (bridge permit required). [1] | | | |
| Navigation vertical clearanc | 7.6 m = 24.9 ft | | | Navigation horizontal clearance | 32.9 m = 107.9 ft | | | | | |
| Minimum navigation vertical clearance, vertical lift bridge | | | | Minimum vertical clearance over bridge roadway | 4.41 m = 14.5 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 | 3.53 m = 11.6 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 | 28916000 | Roadway improvement cost | 16923000 | | | | | | |
| | Length of structure improvement | 628.1 m = 2060.8 ft | | Total project cost | 45839000 | | | | | |
| | 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 | Open, no restriction [A] | Appraisal ratings - structural | Basically intolerable requiring high priority of corrective action [3] |
| Condition ratings - superstructure | Serious [3] | Appraisal ratings - roadway alignment | Equal to present desirable criteria [8] |
| Condition ratings - substructure | Fair [5] | Appraisal ratings - deck geometry | Basically intolerable requiring high priority of replacement [2] |
| Condition ratings - deck | Serious [3] | | |
| Scour | Bridge foundations determined to be stable for assessed or calculated scour condition. [5] | | |
| Channel and channel protection | Bank protection is in need of minor repairs. River control devices and embankment protection have a little minor damage. Banks and/or channel have minor amounts of drift. [7] | | |
| Appraisal ratings - water adequacy | Somewhat better than minimum adequacy to tolerate being left in place as is [5] | Status evaluation | Structurally deficient [1] |
| Pier or abutment protection | In place but in a deteriorated condition [3] | Sufficiency rating | 2 |
| Culverts | Not applicable. Used if structure is not a culvert. [N] | | |
| Traffic safety features - railings | | | |
| Traffic safety features - transitions | | | |
| Traffic safety features - approach guardrail | | | |
| Traffic safety features - approach guardrail ends | | | |
| Inspection date | November 2009 [1109] | 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 | November 2009 [1109] |
| Other special inspection | Not needed [N] | Other special inspection date | |