

HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

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 Hampshire [33] | Merrimack County [013] | Concord [14200] | 0.3 MI JCT RTE 132 | 43-16-15 = 43.270833 | 071-33-53 = - 71.564722 |
| 005200700011700 | Highway agency district: 5 | Owner City or Municipal Highway Agency [04] | Maintenance responsibility City or Municipal Highway Agency [04] | | |
| Route 0 | | SEWALLS FALLS ROAD | Toll On free road [3] | Features intersected MERRIMACK RIVER | |
| Design - main 2 | Steel [3] Truss - Thru [10] | Design - approach 8 | Steel [3] Stringer/Multi-beam or girder [02] | Kilometerpoint 255.9 km = 158.7 mi | |
| | | | | Year built 1915 | Year reconstructed 1936 |
| | | | | Skew angle 0 | Structure Flared |
| | | | | Historical significance | Bridge is eligible for the NRHP. [2] |
| Total length | 201.2 m = 660.1 ft | Length of maximum span | 50.9 m = 167.0 ft | Deck width, out-to-out | 5.3 m = 17.4 ft |
| Inventory Route, Total Horizontal Clearance | 5 m = 16.4 ft | Curb or sidewalk width - left | 0.1 m = 0.3 ft | Curb or sidewalk width - right | 0.1 m = 0.3 ft |
| Deck structure type | Open Grating [3] | | | | |
| Type of wearing surface | | | | | |
| Deck protection | | | | | |
| Type of membrane/wearing surface | | | | | |

Weight Limits

| | | | | |
|--|--------------------------------------|---------------------|------------------|-----------------------------|
| Bypass, detour length 0.5 km = 0.3 mi | Method to determine inventory rating | Load Factor(LF) [1] | Inventory rating | 10 metric ton = 11.0 tons |
| | Method to determine operating rating | Load Factor(LF) [1] | Operating rating | 15.4 metric ton = 16.9 tons |
| Bridge posting | 30.0 - 39.9 % below [1] | | Design Load | M 9 / H 10 [1] |

Functional Details

| | | | | | | | | | | |
|---|---------------------------------------|----------------------------|---------------------|---|---|---------------------------------------|------------------------------|------|------|------|
| Average Daily Traffic | 3900 | Average daily truck traffi | 3 | % | Year | 2006 | Future average daily traffic | 5772 | Year | 2032 |
| Road classification | Collector (Urban) [17] | Lanes on structure | 2 | | Approach roadway width | 7 m = 23.0 ft | | | | |
| Type of service on bridge | Highway [1] | Direction of traffic | 2 - way traffic [2] | | | Bridge median | | | | |
| Parallel structure designation | 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 | 0 m = 0.0 ft | | | | Minimum vertical clearance over bridge roadway | 3.45 m = 11.3 ft | | | | |
| Minimum lateral underclearance reference feature | Feature not a highway or railroad [N] | | | | | | | | | |
| Minimum lateral underclearance on right | 99.9 = Unlimited | | | | 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] | | |
| Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31] | Bridge improvement cost | 2000000 | Roadway improvement cost | 200000 |
| | Length of structure improvement | 201.2 m = 660.1 ft | Total project cost | 2500000 |
| | 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 | Posted for load [P] | Appraisal ratings - structural | Basically intolerable requiring high priority of replacement [2] |
| Condition ratings - superstructure | Critical [2] | Appraisal ratings - roadway alignment | Meets minimum tolerable limits to be left in place as is [4] |
| Condition ratings - substructure | Serious [3] | Appraisal ratings - deck geometry | Basically intolerable requiring high priority of replacement [2] |
| Condition ratings - deck | Poor [4] | | |
| Scour | Countermeasures have been installed to mitigate an existing problem with scour. [7] | | |
| 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 | Equal to present desirable criteria [8] | Status evaluation | Structurally deficient [1] |
| Pier or abutment protection | | Sufficiency rating | 0 |
| 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 | October 2010 [1010] | Designated inspection frequency | 16 Months |
| Underwater inspection | Unknown [Y60] | Underwater inspection date | September 2006 [0906] |
| Fracture critical inspection | Unknown [Y16] | Fracture critical inspection date | October 2010 [1010] |
| Other special inspection | Every two years [Y24] | Other special inspection date | May 2008 [0508] |