

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

Massachusetts [25] Middlesex County [017] Lowell [37000] 0.25 MI W FALLS & RT 110 42-38-52 = 42.647778 071-18-20 = - 71.305556

L150192FTDOTNBI Highway agency district 4 Owner State Highway Agency [01] Maintenance responsibility State Highway Agency [01]

Route 0 HWY BRIDGE ST Toll On free road [3] Features intersected WATER MERRIMACK RIVER

Design - main Steel [3] Design - approach Other [00] Kilometerpoint 0 km = 0.0 mi

3 Truss - Thru [10] 0 Other [00] Year built 1937 Year reconstructed N/A [0000]

Skew angle 0 Structure Flared

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

Total length 144.5 m = 474.1 ft Length of maximum span 60 m = 196.9 ft Deck width, out-to-out 21.5 m = 70.5 ft Bridge roadway width, curb-to-curb 12.2 m = 40.0 ft

Inventory Route, Total Horizontal Clearance 12.2 m = 40.0 ft Curb or sidewalk width - left 2.3 m = 7.5 ft Curb or sidewalk width - right 2.3 m = 7.5 ft

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

Type of wearing surface Bituminous [6]

Deck protection Unknown [8]

Type of membrane/wearing surface Unknown [8]

Weight Limits

Bypass, detour length 0.2 km = 0.1 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 35.3 metric ton = 38.8 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 58.9 metric ton = 64.8 tons

Bridge posting Equal to or above legal loads [5] Design Load M 18 / H 20 [4]

Functional Details

Average Daily Traffic	26500	Average daily truck traffi	6	%	Year	2008	Future average daily traffic	41851	Year	2031
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	4	Approach roadway width	12.2 m = 40.0 ft				
Type of service on bridge	Highway-pedestrian [5]		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	4.42 m = 14.5 ft				
Minimum lateral underclearance reference feature	Feature not a highway or railroad [N]									
Minimum lateral underclearance on right	0 = N/A				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]								
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost	7713000	Roadway improvement cost	772000						
	Length of structure improvement	145 m = 475.7 ft		Total project cost	11570000					
	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 replacement [2]"/>
Condition ratings - deck	<input type="text" value="Fair [5]"/>		
Scour	<input type="text" value="Bridge is scour critical; bridge foundations determined to be unstable. [3]"/>		
Channel and channel protection	<input type="text" value="Bank protection is being eroded. River control devices and/or embankment have major damage. Trees and rush restrict the channel. [5]"/>		
Appraisal ratings - water adequacy	<input type="text" value="Better than present minimum criteria [7]"/>	Status evaluation	<input type="text" value="Functionally obsolete [2]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="57.1"/>
Culverts	<input type="text" value="Not applicable. Used if structure is not a culvert. [N]"/>		
Traffic safety features - railings	<input type="text"/>		
Traffic safety features - transitions	<input type="text"/>		
Traffic safety features - approach guardrail	<input type="text"/>		
Traffic safety features - approach guardrail ends	<input type="text"/>		
Inspection date	<input type="text" value="May 2010 [0510]"/>	Designated inspection frequency	<input type="text" value="24"/> Months
Underwater inspection	<input type="text" value="Unknown [Y36]"/>	Underwater inspection date	<input type="text" value="October 2008 [1008]"/>
Fracture critical inspection	<input type="text" value="Every two years [Y24]"/>	Fracture critical inspection date	<input type="text" value="May 2010 [0510]"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>