

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] Essex County [009] Ipswich [32310] .48 KM NE. OF RT. 1A 42-40-46 = 42.679444 070-49-54 = 70.831667

I010012R6MUNNBI Highway agency district 4 Owner Town or Township Highway Agency [03] Maintenance responsibility Town or Township Highway Agency [03]

Route 0 HWY GREEN ST Toll On free road [3] Features intersected WATER IPSWICH RIVER

Design - main Masonry [8] Design - approach Other [00] Kilometerpoint 37 km = 22.9 mi

2 Arch - Deck [11] 0 Other [00] Year built 1894 Year reconstructed 1996

Skew angle 0 Structure Flared

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

Total length 31.1 m = 102.0 ft Length of maximum span 14.3 m = 46.9 ft Deck width, out-to-out 10.9 m = 35.8 ft Bridge roadway width, curb-to-curb 7 m = 23.0 ft

Inventory Route, Total Horizontal Clearance 7 m = 23.0 ft Curb or sidewalk width - left 1.4 m = 4.6 ft Curb or sidewalk width - right 1.7 m = 5.6 ft

Deck structure type Not applicable [N]

Type of wearing surface Not applicable (applies only to structures with no deck) [N]

Deck protection Not applicable (applies only to structures with no deck) [N]

Type of membrane/wearing surface Not applicable (applies only to structures with no deck) [N]

Weight Limits

Bypass, detour length 0.2 km = 0.1 mi Method to determine inventory rating Allowable Stress(AS) [2] Inventory rating 29.9 metric ton = 32.9 tons

Method to determine operating rating Allowable Stress(AS) [2] Operating rating 40.5 metric ton = 44.6 tons

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

Functional Details

Average Daily Traffic	2800	Average daily truck traffi	5	%	Year	2009	Future average daily traffic	4422	Year	2030
Road classification	Local (Urban) [19]	Lanes on structure	2	Approach roadway width	9.8 m = 32.2 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	99.99 m = 328.1 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	863000	Roadway improvement cost	87000						
	Length of structure improvement	32 m = 105.0 ft		Total project cost	1295000					
	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="Satisfactory [6]"/>	Appraisal ratings - roadway alignment	<input type="text" value="Somewhat better than minimum adequacy to tolerate being left in place as is [5]"/>
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="Not Applicable [N]"/>		
Scour	<input type="text" value="Bridge is scour critical; field review indicates that failure of piers/abutments is imminent. [1]"/>		
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="Equal to present desirable criteria [8]"/>	Status evaluation	<input type="text" value="Functionally obsolete [2]"/>
Pier or abutment protection	<input type="text"/>	Sufficiency rating	<input type="text" value="64.3"/>
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="July 2009 [0709]"/>	Designated inspection frequency	<input type="text" value="24"/> Months
Underwater inspection	<input type="text" value="Every two years [Y24]"/>	Underwater inspection date	<input type="text" value="April 2009 [0409]"/>
Fracture critical inspection	<input type="text" value="Not needed [N]"/>	Fracture critical inspection date	<input type="text"/>
Other special inspection	<input type="text" value="Not needed [N]"/>	Other special inspection date	<input type="text"/>