

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] Rockingham County [015] Portsmouth [62900] NH-MAINE SL 43-04-47 = 43.079722 070-45-09 = - 70.752500

021702470008400 Highway agency district 6 Owner State Highway Agency [01] Maintenance responsibility State Highway Agency [01]

Route 1 US 1 Toll On free road [3] Features intersected PISCATAQUA RIVER

Design - main Steel [3] Design - approach Steel [3] Kilometerpoint 695.2 km = 431.0 mi

3 Movable - Lift [15] 10 Stringer/Multi-beam or girder [02] Year built 1921 Year reconstructed 1982

Skew angle 0 Structure Flared

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

Total length 366.1 m = 1201.2 ft Length of maximum span 92.1 m = 302.2 ft Deck width, out-to-out 8.8 m = 28.9 ft Bridge roadway width, curb-to-curb 8.5 m = 27.9 ft

Inventory Route, Total Horizontal Clearance 8.5 m = 27.9 ft Curb or sidewalk width - left 1.8 m = 5.9 ft Curb or sidewalk width - right 1.8 m = 5.9 ft

Deck structure type Open Grating [3]

Type of wearing surface Other [9]

Deck protection

Type of membrane/wearing surface

Weight Limits

Bypass, detour length 1 km = 0.6 mi Method to determine inventory rating Load Factor(LF) [1] Inventory rating 8.2 metric ton = 9.0 tons

Method to determine operating rating Load Factor(LF) [1] Operating rating 13.6 metric ton = 15.0 tons

Bridge posting Design Load M 18 / H 20 [4]

Functional Details

Average Daily Traffic	11000	Average daily truck traffi	5	%	Year	2009	Future average daily traffic	16280	Year	2032
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	2		Approach roadway width	8.5 m = 27.9 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 control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	40 m = 131.2 ft			Navigation horizontal clearance	84 m = 275.6 ft					
Minimum navigation vertical clearance, vertical lift bridge	6 m = 19.7 ft				Minimum vertical clearance over bridge roadway	5.39 m = 17.7 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	366.1 m = 1201.2 ft			Total project cost	2500000				
	Year of improvement cost estimate	2011								
	Border bridge - state	Unknown [231]				Border bridge - percent responsibility of other state	57			
	Border bridge - structure number	0								

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of replacement [2]
Condition ratings - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Better than present minimum criteria [7]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Poor [4]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	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	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place but in a deteriorated condition [3]	Sufficiency rating	6
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 2010 [1110]	Designated inspection frequency	16 Months
Underwater inspection	Unknown [Y60]	Underwater inspection date	September 2008 [0908]
Fracture critical inspection	Unknown [Y08]	Fracture critical inspection date	November 2010 [1110]
Other special inspection	Unknown [Y08]	Other special inspection date	March 2008 [0308]

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Basic Information	
Maine [23]	York County [031]
Kittery [37270]	MAINE-NEW HAMSPHIRE SL
43-04-54 = 43.081667	070-45-06 = - 70.751667
2546	Highway agency district 1
Owner State Highway Agency [01]	Maintenance responsibility State Highway Agency [01]
Route 1	US ROUTE 1
Toll On free road [3]	Features intersected PISCATAQUA RIVER NH ROAD
Design - main Steel [3]	Design - approach Steel [3]
Kilometerpoint 0 km = 0.0 mi	Year built 1923
Year reconstructed N/A [0000]	3
Movable - Lift [15]	10
Girder and floorbeam system [03]	Skew angle 0
Structure Flared	Historical significance Bridge is eligible for the NRHP. [2]
Total length 366.1 m = 1201.2 ft	Length of maximum span 91.4 m = 299.9 ft
Deck width, out-to-out 14.4 m = 47.2 ft	Bridge roadway width, curb-to-curb 8.5 m = 27.9 ft
Inventory Route, Total Horizontal Clearance 8.5 m = 27.9 ft	Curb or sidewalk width - left 1.8 m = 5.9 ft
Curb or sidewalk width - right 1.8 m = 5.9 ft	Deck structure type Concrete Cast-in-Place [1]
Type of wearing surface Bituminous [6]	Deck protection
Type of membrane/wearing surface Preformed Fabric [2]	

Weight Limits	
Bypass, detour length 1.3 km = 0.8 mi	Method to determine inventory rating Allowable Stress(AS) [2]
Inventory rating 9.1 metric ton = 10.0 tons	Method to determine operating rating Allowable Stress(AS) [2]
Operating rating 13.6 metric ton = 15.0 tons	Bridge posting 20.0 - 29.9 % below [2]
Design Load M 13.5 / H 15 [2]	

Functional Details

Average Daily Traffic	8650	Average daily truck traffi	5	%	Year	2010	Future average daily traffic	12110	Year	2030
Road classification	Minor Arterial (Urban) [16]		Lanes on structure	2		Approach roadway width	11 m = 36.1 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 control on waterway (bridge permit required). [1]			
Navigation vertical clearanc	45.7 m = 149.9 ft			Navigation horizontal clearance	79.2 m = 259.9 ft					
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft				Minimum vertical clearance over bridge roadway	5.39 m = 17.7 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]								
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	10713000	Roadway improvement cost	1071000						
	Length of structure improvement	372.5 m = 1222.2 ft			Total project cost	16070000				
	Year of improvement cost estimate	2004								
	Border bridge - state	Unknown [331]				Border bridge - percent responsibility of other state	43			
	Border bridge - structure number	2.1702470008e+013								

Inspection and Sufficiency

Structure status	Posted for load [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of replacement [2]
Condition ratings - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Equal to present desirable criteria [8]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Poor [4]		
Scour	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]		
Channel and channel protection	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	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place but re-evaluation of design suggested [4]	Sufficiency rating	6
Culverts	Not applicable. Used if structure is not a culvert. [N]		
Traffic safety features - railings			
Traffic safety features - transitions	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail	Inspected feature meets currently acceptable standards. [1]		
Traffic safety features - approach guardrail ends			
Inspection date	January 2011 [0111]	Designated inspection frequency	24 Months
Underwater inspection	Not needed [N]	Underwater inspection date	
Fracture critical inspection	Every two years [Y24]	Fracture critical inspection date	
Other special inspection	Not needed [N]	Other special inspection date	