HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

The National Bridge Inventory contains data submitted by state transportion 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]	MAINE SL	43-05-09 = 43.085833	070-45-37 = -70.760278

021702510010800	Highway agency district: 6	Owner: Local Toll Authority [32]	Maintenance responsibility: Local Toll Authority [32]		
Route: 1		US 1 BYPASS	Toll: On free road [3]	Features intersected: PISCATAQUA RIVER & RR	
Design - main: Steel [3]	Design - approach: Steel [3]	Kilometerpoint: 431.3 km = 267.4 mi			
5	Movable - Lift [15]	22	Girder and floorbeam system [03]	Year built: 1940	Year reconstructed: 1991
				Skew angle: 0	Structure Flared:
				Historical significance: Bridge is eligible for the NRHP. [2]	

Total length: 854.7 m = 2804.3 ft	Length of maximum span: 69.2 m = 227.0 ft	Deck width, out-to-out: 11 m = 36.1 ft	Bridge roadway width, curb-to-curb: 9.1 m = 29.9 ft				
Inventory Route, Total Horizontal Clearance: 9.1 m = 29.9 ft	Curb or sidewalk width - left: 0.8 m = 2.6 ft	Curb or sidewalk width - right: 0.8 m = 2.6 ft					
Deck structure type: Concrete Cast-in-Place [1]							
Type of wearing surface: Monolithic Concrete (concurrently placed with structural deck) [1]							
Deck protection:							
Type of membrane/wearing surface:							

Weight Limits

Bypass, detour length: 1.3 km = 0.8 mi	Method to determine inventory rating: Load Factor(LF) [1]	Inventory rating: 10.1 metric ton = 11.1 tons			
	Method to determine operating rating: Load Factor(LF) [1]	Operating rating: 17 metric ton = 18.7 tons			
	Bridge posting: Equal to or above legal loads [5]	Design Load: M 18 / H 20 [4]			

Functional Details

Average Daily Traffic	15000	Average daily truck traffi	5 %	Year	2006	Future average daily traffic	22200	Year	2032
Road classification	Principal Arterial - Other Freeways or Exp	Lanes on structure	2	Approach roadway width	9.8 m = 32.2 ft				
Type of service on bridge	Highway-railroad [4]	Direction of traffic	2 - way traffic [2]	Bridge median					
Parallel structure designation	No parallel structure exists. [N]								
Type of service under bridge	Highway-waterway-railroad [	Lanes under structure	4	Navigation control	Navigation control on waterway (bridge permit required). [1]				
Navigation vertical clearanc	41 m = 134.5 ft	Navigation horizontal clearance	61 m = 200.1 ft						
Minimum navigation vertical clearance, vertical lift bridge	3 m = 9.8 ft	Minimum vertical clearance over bridge roadway	4.9 m = 16.1 ft						
Minimum lateral underclearance reference feature	Highway beneath structure [H]								
Minimum lateral underclearance on right	2.7 m = 8.9 ft	Minimum lateral underclearance on left	2 m = 6.6 ft						
Minimum Vertical Underclearance	5.09 m = 16.7 ft	Minimum vertical underclearance reference feature	Highway beneath structure [H]						
Appraisal ratings - underclearances	Somewhat better than minimum adequacy to tolerate being left in place as is [5]								

Repair and Replacement Plans

Type of work to be performed

Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	2000000	Roadway improvement cost	200000
Length of structure improvement	854.7 m = 2804.3 ft	Total project cost	2500000
Year of improvement cost estimate	2011		
Border bridge - state	Unknown [231]	Border bridge - percent responsibility of other state	45
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 - superstructur	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 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	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	Navigation protection not required [1]	Sufficiency rating	5

Culverts	Not applicable. Used if structure is not a culvert. [N]

Traffic safety features - railings	
Traffic safety features - transitions	
Traffic safety features - approach guardrail	Inpected feature meets currently acceptable standards. [1]
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	November 2007 [1107]