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

Massachusetts [25]	Essex County [009]	Lawrence [34550]	.1MI E ST 28	42-41-50 = 42.697222	071-09-43 = -71.161944

L0402432EDOT634	Highway agency district: 4	Owner: State Highway Agency [01]	Maintenance responsibility: State Highway Agency [01]		
Route: 0		HWY SALEM ST	Toll: On free road [3]	Features intersected: RR MBTA/BMRR	
Design - main: Steel [3]		Design - approach:		Kilometerpoint: 61.2 km = 37.9 mi	
1	Truss - Thru [10]	0	Other [00]	Year built: 1928	Year reconstructed: 1997
				Skew angle: 25	Structure Flared:
				Historical significance: Bridge is possibly eligible for the NRHP. [3]	

Total length	44.5 m = 146.0 ft	Length of maximum span	43.6 m = 143.1 ft	Deck width, out-to-out	12.5 m = 41.0 ft	Bridge roadway width, curb-to-curb	11.4 m = 37.4 ft
Inventory Route, Total Horizontal Clearance	5.6 m = 18.4 ft	Curb or sidewalk width - left	2.4 m = 7.9 ft	Curb or sidewalk width - right	2.4 m = 7.9 ft		

Deck structure type	Wood or Timber [8]
Type of wearing surface	Bituminous [6]
Deck protection	
Type of membrane/wearing surface	

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	41.2 metric ton = 45.3 tons	
0.2 km = 0.1 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	68.9 metric ton = 75.8 tons	
	Bridge posting	Equal to or above legal loads [5]	Design Load		

Functional Details

Average Daily Traffic	9500	Average daily truck traffi	4 %	Year	2009	Future average daily traffic	15003
Year	2030						
Road classification	Minor Arterial (Urban) [16]	Lanes on structure	2	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	Closed median (no barriers) [2]		
Parallel structure designation	No parallel structure exists. [N]						
Type of service under bridge	Railroad [2]	Lanes under structure	0	Navigation control	Not applicable, no waterway. [N]		
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	4.52 m = 14.8 ft				
Minimum lateral underclearance reference feature	Railroad beneath structure [R]						
Minimum lateral underclearance on right	9.2 m = 30.2 ft	Minimum lateral underclearance on left	0 = N/A				
Minimum Vertical Underclearance	5.49 m = 18.0 ft	Minimum vertical underclearance reference feature	Railroad beneath structure [R]				
Appraisal ratings - underclearances	Basically intolerable requiring high priority of corrrective action [3]						

Repair and Replacement Plans

Type of work to be performed

Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]

Work done by	Work to be done by contract [1]		
Bridge improvement cost	1392000	Roadway improvement cost	140000
Length of structure improvement	45 m = 147.6 ft	Total project cost	2089000
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	Open, no restriction [A]	Appraisal ratings - structural	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - superstructur	Fair [5]	Appraisal ratings - roadway alignment	Equal to present minimum criteria [6]
Condition ratings - substructure	Satisfactory [6]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Fair [5]		
Scour	Bridge not over waterway. [N]		
Channel and channel protection	Not applicable. [N]		
Appraisal ratings - water adequacy	N/A [N]	Status evaluation	Functionally obsolete [2]
Pier or abutment protection		Sufficiency rating	67.8
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	March 2009 [0309]	Designated inspection frequency	12	Months	
Underwater inspection	Not needed [N]			Underwater inspection date	
Fracture critical inspection	Every two years [Y24]			Fracture critical inspection date	March 2009 [0309]
Other special inspection	Not needed [N]			Other special inspection date	