

HistoricBridges.org - National Bridge Inventory Data Sheet

2011 Inventory

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

Massachusetts [25]	Suffolk County [025]	Boston [07000]	AT CHAS RIV NR BOS GARDEN	42-22-08 = 42.368889	071-03-37 = - 71.060278
B1601637KMUNNBI	Highway agency district 6	Owner City or Municipal Highway Agency [04]	Maintenance responsibility City or Municipal Highway Agency [04]		
Route 0		HWY N WSHNGTN ST	Toll On free road [3]	Features intersected WATER CHARLES RIVER	
Design - main	Steel continuous [4]	Design - approach		Kilometerpoint 66 km = 40.9 mi	
2	Truss - Thru [10]	0	Other [00]	Year built #Num!	Year reconstructed 1956
				Skew angle 0	Structure Flared
				Historical significance	Bridge is eligible for the NRHP. [2]
Total length	73.5 m = 241.2 ft	Length of maximum span	36.3 m = 119.1 ft	Deck width, out-to-out	30.8 m = 101.1 ft
Inventory Route, Total Horizontal Clearance	6.7 m = 22.0 ft	Curb or sidewalk width - left	3 m = 9.8 ft	Curb or sidewalk width - right	2.8 m = 9.2 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	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	21 metric ton = 23.1 tons
0.3 km = 0.2 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	35.1 metric ton = 38.6 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	38400	Average daily truck traffi	10	%	Year	2008	Future average daily traffic	60645	Year	2031
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	6		Approach roadway width	24.4 m = 80.1 ft			
Type of service on bridge	Highway-pedestrian [5]		Direction of traffic	2 - way traffic [2]		Bridge median	Closed median with non-mountable bar			
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	7 m = 23.0 ft			Navigation horizontal clearance	15.2 m = 49.9 ft					
Minimum navigation vertical clearance, vertical lift bridge	0 m = 0.0 ft			Minimum vertical clearance over bridge roadway	4.34 m = 14.2 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	10642000	Roadway improvement cost	1065000
	Length of structure improvement	84 m = 275.6 ft	Total project cost	15964000
	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, would be posted or closed except for temporary shoring [D]	Appraisal ratings - structural	Basically intolerable requiring high priority of replacement [2]
Condition ratings - superstructure	Critical [2]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]
Condition ratings - deck	Good [7]		
Scour	Bridge with "unknown" foundation that has not been evaluated for scour. [U]		
Channel and channel protection	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	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection	In place and functioning [2]	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	Inspected feature meets currently acceptable standards. [1]		
Inspection date	August 2010 [0810]	Designated inspection frequency	6 Months
Underwater inspection	Every year [Y12]	Underwater inspection date	September 2010 [0910]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Unknown [Y06]	Other special inspection date	March 2011 [0311]

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Basic Information

Massachusetts [25]	Suffolk County [025]	Boston [07000]	AT CHAS RIV NR BOS GARDEN	42-22-10 = 42.369444	071-03-39 = - 71.060833
B1601637HMUNNBI	Highway agency district 6	Owner City or Municipal Highway Agency [04]	Maintenance responsibility City or Municipal Highway Agency [04]		
Route 0		HWY N WSHNGTN ST	Toll On free road [3]	Features intersected WATER CHARLES RIVER	
Design - main 5	Steel [3]	Design - approach 0	Other [00]	Kilometerpoint 53.1 km = 32.9 mi	
	Girder and floorbeam system [03]			Year built #Num!	Year reconstructed 1956
				Skew angle 0	Structure Flared
				Historical significance	Bridge is eligible for the NRHP. [2]
Total length 129.2 m = 423.9 ft	Length of maximum span 25.9 m = 85.0 ft	Deck width, out-to-out 30.8 m = 101.1 ft	Bridge roadway width, curb-to-curb 22.6 m = 74.2 ft		
Inventory Route, Total Horizontal Clearance 12.2 m = 40.0 ft	Curb or sidewalk width - left 2.6 m = 8.5 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					
Type of membrane/wearing surface	Other [9]				

Weight Limits

Bypass, detour length 0.3 km = 0.2 mi	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating 22.7 metric ton = 25.0 tons
	Method to determine operating rating	Load Factor(LF) [1]	Operating rating 37.9 metric ton = 41.7 tons
Bridge posting	Equal to or above legal loads [5]	Design Load	MS 18 / HS 20 [5]

Functional Details

Average Daily Traffic	38400	Average daily truck traffi	10	%	Year	2010	Future average daily traffic	60645	Year	2031
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	6		Approach roadway width	24.4 m = 80.1 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	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]		
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	16344000	Roadway improvement cost	1635000
	Length of structure improvement	138 m = 452.8 ft	Total project cost	24517000
	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, would be posted or closed except for temporary shoring [D]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge with "unknown" foundation that has not been evaluated for scour. [U]		
Channel and channel protection	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	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	43.7
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	August 2010 [0810]	Designated inspection frequency	12 Months
Underwater inspection	Every year [Y12]	Underwater inspection date	September 2010 [0910]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Every year [Y12]	Other special inspection date	August 2010 [0810]

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Basic Information

Massachusetts [25]	Suffolk County [025]	Boston [07000]	AT CHAS RIV NR BOS GARDEN	42-22-06 = 42.368333	071-03-35 = - 71.059722
B1601637MMUNNBI	Highway agency district 6	Owner City or Municipal Highway Agency [04]	Maintenance responsibility	City or Municipal Highway Agency [04]	
Route 0		HWY N WSHNGTN ST	Toll On free road [3]	Features intersected WATER CHARLES RIVER	
Design - main	Steel [3]	Design - approach		Kilometerpoint 74 km = 45.9 mi	
5	Girder and floorbeam system [03]	0	Other [00]	Year built #Num!	Year reconstructed 1956
				Skew angle 0	Structure Flared
				Historical significance Bridge is eligible for the NRHP. [2]	
Total length	129.2 m = 423.9 ft	Length of maximum span	25.9 m = 85.0 ft	Deck width, out-to-out	30.8 m = 101.1 ft
Inventory Route, Total Horizontal Clearance	24.4 m = 80.1 ft	Curb or sidewalk width - left	2.6 m = 8.5 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					
Type of membrane/wearing surface	Other [9]				

Weight Limits

Bypass, detour length	Method to determine inventory rating	Load Factor(LF) [1]	Inventory rating	21.1 metric ton = 23.2 tons
0.3 km = 0.2 mi	Method to determine operating rating	Load Factor(LF) [1]	Operating rating	35.3 metric ton = 38.8 tons
	Bridge posting	Equal to or above legal loads [5]	Design Load	

Functional Details

Average Daily Traffic	38400	Average daily truck traffi	10	%	Year	2010	Future average daily traffic	60645	Year	2031
Road classification	Other Principal Arterial (Urban) [14]		Lanes on structure	6		Approach roadway width	24.4 m = 80.1 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 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]		
Replacement of bridge or other structure because of substandard load carrying capacity or substantial bridge roadway geometry. [31]	Bridge improvement cost	15525000	Roadway improvement cost	1553000
	Length of structure improvement	138 m = 452.8 ft	Total project cost	23288000
	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, would be posted or closed except for temporary shoring [D]	Appraisal ratings - structural	Meets minimum tolerable limits to be left in place as is [4]
Condition ratings - superstructure	Poor [4]	Appraisal ratings - roadway alignment	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - substructure	Fair [5]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as is [5]
Condition ratings - deck	Satisfactory [6]		
Scour	Bridge with "unknown" foundation that has not been evaluated for scour. [U]		
Channel and channel protection	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	Superior to present desirable criteria [9]	Status evaluation	Structurally deficient [1]
Pier or abutment protection		Sufficiency rating	48.1
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	August 2010 [0810]	Designated inspection frequency	12 Months
Underwater inspection	Every year [Y12]	Underwater inspection date	September 2010 [0910]
Fracture critical inspection	Not needed [N]	Fracture critical inspection date	
Other special inspection	Every year [Y12]	Other special inspection date	August 2010 [0810]