

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] Franklin County [011] Northfield [47835] .3 MI NW OF RTE 63 42-42-42 = 42.711667 072-27-12 = - 72.453333

MUN236002100 Highway agency district 2 Owner Town or Township Highway Agency [03] Maintenance responsibility Town or Township Highway Agency [03]

Route 0 HWY E NRTHFLD RD Toll On free road [3] Features intersected WATER CONNECTICUT RIVER

Design - main Steel [3] Design - approach Other [00] Kilometerpoint Year built 1901 Year reconstructed N/A [0000]

3 Truss - Thru [10] 0 Other [00] Skew angle 0 Structure Flared Historical significance Bridge is eligible for the NRHP. [2]

Total length 157 m = 515.1 ft Length of maximum span 107.3 m = 352.1 ft Deck width, out-to-out 5.8 m = 19.0 ft Bridge roadway width, curb-to-curb 5.3 m = 17.4 ft

Inventory Route, Total Horizontal Clearance 5.3 m = 17.4 ft Curb or sidewalk width - left 0 m = 0.0 ft Curb or sidewalk width - right 0 m = 0.0 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 1.1 km = 0.7 mi Method to determine inventory rating Inventory rating 0 metric ton = 0.0 tons

Method to determine operating rating Operating rating 0 metric ton = 0.0 tons

Bridge posting 00.1 - 09.9 % below [4] Design Load

Functional Details

Average Daily Traffic	7654	Average daily truck traffi	6	%	Year	1990	Future average daily traffic	10715	Year	2010
Road classification	Major Collector (Rural) [07]	Lanes on structure	2	Approach roadway width	5.8 m = 19.0 ft					
Type of service on bridge	Highway [1]	Direction of traffic			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	4.16 m = 13.6 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	2446000	Roadway improvement cost	245000						
	Length of structure improvement	157 m = 515.1 ft		Total project cost	3669000					
	Year of improvement cost estimate									
	Border bridge - state				Border bridge - percent responsibility of other state					
	Border bridge - structure number									

Inspection and Sufficiency

Structure status

Bridge closed to all traffic [K]

Appraisal ratings -
structural

Condition ratings - superstructure

Appraisal ratings -
roadway alignment

Condition ratings - substructure

Satisfactory [6]

Appraisal ratings -
deck geometry

Condition ratings - deck

Serious [3]

Scour

Scour calculation/evaluation has not been made. [6]

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

Better than present minimum criteria [7]

Status evaluation

Structurally deficient [1]

Pier or abutment protection

Sufficiency rating

0

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

April 1991 [0491]

Designated inspection frequency

6

Months

Underwater inspection

Unknown [Y36]

Underwater inspection date

October 1990 [1090]

Fracture critical inspection

Every two years [Y24]

Fracture critical inspection date

Other special inspection

Unknown [N00]

Other special inspection date