HistoricBridges.org - National Bridge Inventory Data Sheet

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 Informati	on										42-21-45.01 =	071-04-43.86
Massachusetts [25] Middlesex County [017]			Cambrid	Cambridge [11000] .16 KM N OF LONGFELLOW BI			LOW BR			42.362503	= -71.078850	
C010084DMDOTNBI Highway agency dist			cy district: 6	Owner	Owner State Highway Agency [01]			Maintena	nce respo	nsibility	State Highway Age	ency [01]
Route 3		HWY	FIRST ST		Toll On fre	ee road [3]	Fea	tures inter	rsected V	WATER BR	OAD CANAL	
Design - Steel main Girden		peam system [03]	approach	Steel [3] Stringer/Multi-ba	eam or girder [02]	Skew angle	1924	Structur	r reconstru re Flared	ucted 2000		
Total length 36 Inventory Route,	.6 m = 120 Total Hori			um span 12.2 m 3.1 ft C	n = 40.0 ft urb or sidewalk wi		nificance , out-to-out .1 m = 6.9 ft	16.9 m =	55.4 ft	Bridge road	for the NRHP. [3] dway width, curb-to-c ewalk width - right	2.1 m = 6.9 ft
Deck structure ty Type of wearing	•		pen Grating [: ther [9]	3]								
Deck protection												
Type of membra	ne/wearing	surface										
Weight Limits												
Bypass, detour length 0.2 km = 0.1 mi Method to determine inventory rating Method to determine operating rating Bridge posting				Load Factor(LF) [1]		Opera	12.9 metric ton = 14.2 tons 14.6 metric ton = 16.1 tons Design Load M 18 / H 20 [4]					
		singo posting					Desig	JII LOAU	IVI IØ/H.	20 [4]		

Functional Details										
Average Daily Traffic 17600 Average daily tr	ruck traffi 4 % Year 2018 Future average daily traffic 30007 Year 2031									
Road classification Other Principal Arterial (Urban)	[14] Lanes on structure 2 Approach roadway width 10.1 m = 33.1 ft									
Type of service on bridge Highway-pedestrian [5]	Direction of traffic 1 - way traffic [1] 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 clearance 1.2 m = 3.9 ft Navigation horizontal clearance 12.2 m = 40.0 ft										
Minimum navigation vertical clearance, vertical lift brid	dge 0 m = 0.0 ft Minimum vertical clearance over bridge roadway 4.88 m = 16.0 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 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 improvement cost 4053000 Roadway improvement cost 406000									
bridge roadway geometry. [31]	Length of structure improvement 46 m = 150.9 ft Total project cost 6080000									
	Year of improvement cost estimate 2019									
	Border bridge - state Border bridge - percent responsibility of other state									
	Border bridge - structure number									

Inspection and Sufficiency								
Structure status Posted for Ic	ad [P]	Appraisal ratings - structural	Basically intolerable requiring high priority of replacement [2]					
Condition ratings - superstructure	Appraisal ratings - roadway alignment	Somewhat b is [5]	cy to tolerate being left in	place as				
Condition ratings - substructure	Poor [4]	Appraisal ratings - deck geometry	Somewhat better than minimum adequacy to tolerate being left in place as					
Condition ratings - deck	Fair [5]		is [5]					
Scour	Bridge foundations determined	to be stable for the asse	essed or calcula	ated scour condition. [8]				
Channel and channel protection	Bank is beginning to slump. River minor stream bed movement ever the strea				ninor damage. There is			
Appraisal ratings - water adequate	Somewhat better than minimum in place as is [5]	Somewhat better than minimum adequacy to tolerate bein place as is [5]			Status evaluation Structurally deficient [1]			
Pier or abutment protection	In place but in a deteriorated co	ondition [3]	S	sufficiency rating 33.1				
Culverts Not applicable. Used	if structure is not a culvert. [N]							
Traffic safety features - railings								
Traffic safety features - transition	ns							
Traffic safety features - approac	n guardrail							
Traffic safety features - approac	n guardrail ends							
Inspection date June 2018 [Designated inspect	ion frequency 12	Mor	nths				
·	Every year [Y12]	Underwater inspec	tion date	July 2018 [0718]				
•	Every two years [Y24]	Fracture critical ins	•	June 2018 [0618]				
Other special inspection	Every year [Y12]	Other special inspe	ection date	June 2018 [0618]				