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 Information							41-44-36 =	070-35-18 = -	
Massachusetts [25] Barnstable County [001]			Cape Cod National Seas JUNCT MA RTES 25,28, & 6				41.743333	70.588333	
CEPNEDMA2510001 Highway agency district: 1			Owner Corps of Engineers (Civil) [70] Maintenance responsibility			Corps of Engineer	s (Civil) [70]		
Route 28 MA ROUTE 28 Toll On free road [3] Features intersected CAPE COD CANAL									
Design - Steel [3] Design - approach Steel 3 Arch - Thru [12] 4 Truss			[3] Kilometerpoint Year built 1935		0.1 km = 0.1 mi Year reconstructed 1981				
	•			Skew angle 0 Historical significance	Structure FI Historica		not determinable at t	his time. [4]	
Total length 726.6 m = 2384.0 ft Length of maximum span 187.7 m = 615.8 ft Deck width, out-to-out 14.8 m = 48.6 ft Bridge roadway width, curb-to-curb 12.1 m = 39.7 ft									
Inventory Route, Total Ho	dth - left $2 m = 6.6 f$	t	Curb or side	ewalk width - right	0.6 m = 2.0 ft				
Deck structure type Closed Grating [4]									
Type of wearing surface Bituminous [6]									
Deck protection									
Type of membrane/wearing surface Preformed Fabric [2]									
Weight Limits									
Bypass, detour length	Method to detern	nine inventory rating	Load and Resistance	Factor(LRFR) [3] Inv	entory rating	31.6 metric ton	= 34.8 tons		
1.6 km = 1.0 mi Method to determine operating rating			g Load and Resistance	Factor(LRFR) [3] Op	erating rating	31.6 metric ton	= 34.8 tons		
Bridge posting Equal to or above legal loads [5]				Des	sign Load MS	18 / HS 20 [5]			

Functional Details									
Average Daily Traffic 60000 Average daily tr	uck traffi 20 % Year 2004 Future average daily traffic 79000 Year 2030								
Road classification	[02] Lanes on structure 4 Approach roadway width 14.8 m = 48.6 ft								
Type of service on bridge Highway-pedestrian [5]	Direction of traffic 2 - way traffic [2] Bridge median								
Parallel structure designation No parallel structure	e 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 41 m = 134.5 ft	Navigation horizontal clearance 146.3 m = 480.0 ft								
Minimum navigation vertical clearance, vertical lift bridge 0 m = 0.0 ft Minimum vertical clearance over bridge roadway 4.56 m = 15.0 ft									
Minimum lateral underclearance reference feature F	eature not a highway or railroad [N]								
Minimum lateral underclearance on right 0 = N/A Minimum lateral underclearance on left 99.9 = Unlimited									
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]								
Bridge rehabilitation because of general structure deterioration or inadequate strength. [35]	Bridge improvement cost 5651000 Roadway improvement cost 565000								
4	Length of structure improvement 762.9 m = 2503.1 ft Total project cost 8477000								
	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 res	triction [A]	Appraisal ratings - structural	Basically intolerable requiring high priority of corrrective action [3]							
Condition ratings - superstructure	Serious [3]	Appraisal ratings - roadway alignment	Somewhat b is [5]	n adequacy to tolerate being left in place as						
Condition ratings - substructure	Good [7]	Appraisal ratings - deck geometry	Basically intolerable requiring high priority of replacement [2]							
Condition ratings - deck	Good [7]									
Scour	Bridge foundations determine	Bridge foundations determined to be stable for the assessed or calculated scour condition. [8]								
Channel and channel protection	Bank protection is in need of r Banks and/or channel have m	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 adequac	y Equal to present desirable cri	Equal to present desirable criteria [8]			Structurally deficient [1]					
Pier or abutment protection	In place and functioning [2]	In place and functioning [2]			fficiency rating 20.8					
Culverts Not applicable. Used in	f structure is not a culvert. [N]									
Traffic safety features - railings										
Traffic safety features - transition	S									
Traffic safety features - approach	guardrail									
Traffic safety features - approach guardrail ends										
Inspection date October 2010 [1010] Designated inspection frequency 24 Months										
Underwater inspection	Unknown [Y60]	Underwater inspec	ction date	August 2006 [08	806]					
	Every two years [Y24]	Fracture critical in:	spection date	October 2010 [1	[010]					
Other special inspection	Not needed [N]	Other special insp	ection date							