


**THE COMMONWEALTH OF MASSACHUSETTS  
MASSDOT - HIGHWAY DIVISION  
INTEROFFICE MEMORANDUM**

**TO:** NBIS File

**FROM:** Alexander K. Bardow, P.E., State Bridge Engineer 

**DATE:** June 15, 2022

**RE:** BRIDGE RATING  
BEVERLY  
BRIDGE STREET OVER BASS RIVER  
BRIDGE NO. B-11-001 (306)  
STRUCTURE NO. B11001-306-DOT-NBI  
BIN = 306

Based upon the rating report prepared by WSP USA, Inc., dated June 2022, revised, it is recommended that Bridge No. B-11-001 (306) **BE CLOSED TO VEHICULAR TRAFFIC.**

The entire width of the existing roadway (through girder/curb to through girder/curb) shall be closed off to vehicular, bicycle, and pedestrian traffic through the use of means such as barriers and fencing to prevent access to areas other than the sidewalks.

The controlling elements of the structure at both the inventory and operating stress level requirements are 26 Stringers, in 6 different Units, in Spans 7 & 8, due variously to complete loss of shear capacity, Haunch Beam Failure, or Haunch Beam/Stub Failure, for all posting vehicles. Please see the table below for the rating values.

**THE BRIDGE SIDEWALKS MAY REMAIN OPEN TO PEDESTRIAN AND BICYCLE TRAFFIC ONLY.**

The bridge will remain closed to vehicular traffic until it is replaced (see Project Number 608514).

Upon receipt of a signed copy of this memorandum the following load rating data shall be entered into the 4D Database:

MS18 Load Factor Ratings (Metric Tons)				Rating Report – Red Cover						
Item 63	1 (Load Factor Method)	Item 64	0.0	Rating Report	Y	Report Date	06/01/2022			
Item 65	1 (Load Factor Method)	Item 66	0.0	Computer File	Y	Computer File Type	BrR			
Allowable Stress Ratings (English Tons)										
Vehicle	H20	Type 3	Type 3S2	HS20	SU4	SU5	SU6	SU7	EV2	EV3
INV	0.0	0.0	0.0	0.0	-	-	-	-	-	-
OPR	0.0	0.0	0.0	0.0	-	-	-	-	-	-

MJW/lkv

cc: Rating Report  
Paul Stedman, District 4 Highway Director  
Douglas Consentino, PE, Acting District 4 Bridge Engineer

Attach: Bridge Load Rating Consultant Performance Evaluation Sheet

## SUMMARY OF BRIDGE RATING

TOWN/CITY: **BEVERLY**

BRIDGE NO.: **B-11-001**

CARRIES: **BRIDGE STREET**

OVER: **BASS RIVER**

STRUCTURE NO. **B11001-306-DOT-NBI**

BIN NO.: **306**

### RATINGS (TONS)

Allowable Stress Ratings for Load Posting Purposes Load Ratings in English Tons		
VEHICLE TYPE	INVENTORY	OPERATING
H20	0.0	0.0
TYPE 3	0.0	0.0
TYPE 3S2	0.0	0.0
HS20	0.0	0.0

MS18 Load Factor Ratings in Metric Tons Provided in Compliance with the December 1995 FHWA NBIS Coding Guide			
INVENTORY		OPERATING	
Item 66	MS Equivalent	Item 64	MS Equivalent
0.0	MS 0.0	0.0	MS 0.0



*John P. Wicks*

6/7/2022

A posting recommendation has been made based on the results of this Rating Report. This recommendation is contained in the "Memorandum to the NBIS File" for this bridge, dated 06/15/2022.

*[Signature]*

State Bridge Engineer

06/15/2022

Date