

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08092021-1	
Date: 3/10/2020	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-123 - GREAT BARASWAY RIVER BRIDGE		
Route:	100	Overall Length:	46.9 m
Year Built:	1977	Est: Yes	Overall Width: 10.9 m
Year Last Rehab.:		Est: No	Roadway Width: 10.1 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.4 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	1 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	33
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	- Assumed condition of buried & submerged reinforced concrete abutment footings. - Narrow horizontal-vertical cracks with light-medium efflorescence deposits on faces of abutments and wingwalls. - Medium spalling and delamination with medium-heavy corrosion to exposed reinforcement in face of southwest wingwall. Light erosion along bottom faces of abutments. - Bearing pads appear to be in good condition.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P3 - Poor
Comments:	- Narrow horizontal-vertical longitudinal cracks in bottom flanges of exterior girders. - Light delamination & spalling on south east girders. - No end blocks on structure. - Expansion joints are leaking. Concrete around expansion joints on deck fascia's are cracked and spalling off. - No chaulking in expansion joint gaps or curb facias.		
DECK			

Condition:	F2 - Fair	Curbs:	P3 - Poor
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor
Approach Rail:	P1 - Poor		
Comments:	- Some narrow transverse cracks in deck soffit. Wide transverse vertical cracks in section of deck curbs & facias and also cracks in flow lines. - Approach and exit rail has scrapes, dents and rotting posts. - Asphalt surface on deck & approaches have large potholes and rutting. - Some aluminum handrail damages with remainder having scrapes, dents and end caps missing. - Medium transverse cracks with light efflorescence deposits in deck soffit.		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0.8 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	P - Possible Problem
Comments:	Some slope erosion along wingwall.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2030
Antic. Rehab. Cost:	\$140000	Replacement Cost:	\$1700000
Recommendations:	- Repair concrete defects. - Re-surface deck & approaches. - Install new approach and exit rail complete with hazard markers. - Expansion joints should probably be replaced.		

OBSERVATIONS

Overall Condition:	P1 - Poor	Requires Further Inspection:	Yes
Additional Observations:	- P3 Expansion joint and Facias. - P1 Surface and Rails. - F2 remainder. - Re-inspect expansion joint.		

LEGEND:

Condition Definitions:

- 1 - *Good - [discontinued code].
- 2 - *Fair - [discontinued code].
- 3 - *Poor - [discontinued code].
- 4 - *Unsafe - [discontinued code].
- G - Good.

- F2 - Fair.
- F1 - Fair.
- P3 - Poor.
- P1 - Poor.
- P - Poor.

- C - Unsafe (Closed to Public).
- U - Uninspectable.
- I - Inapplicable.

Problem Definitions:

- N - No Problem.
- P - Possible Problem.
- K - Known Problem.
- NA - Not Applicable.

Category Definitions:

- Maint. - Maintenance.
- Eng. - Engineering.
- Office - Bridge Office.

PHOTO GUIDELINES:

Inspection Photos:

- Please provide photos using guidelines below:
- Any item which inspector sees should be documented by photograph
 - All items noted above as being P3, P1, P, or C
 - Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS