

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B01142021-17	
Date: 11/7/2020	Inspected By: Mike Fleming	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	4-077 - BOUND BROOK BRIDGE		
Route:		Overall Length:	31.9 m
Year Built:	1970	Est: No	Overall Width: 10.8 m
Year Last Rehab.:		Est: No	Roadway Width: 10 m
Region:	WEST COAST/NORTHERN		Sidewalk Width: 0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.9 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	01 - Aluminum Rail		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
Roadway Surface:	02 - Asphalt	1	19.1 4 0
Alignment Vertical:	01 - Good	2	0 5 0
Alignment Horizontal:	01 - Good	3	0 6 0
Restrictions:	No		
BRIDGE PHOTOS			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	G - Good
		Bearing Seat:	G - Good
Comments:	Vertical cracking noted on abutments. Abutments and sidewalls have moderate spalling and corroded reinforcement. Hairline cracking observed on abutment sidewalls.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	P3 - Poor
Comments:	Expansion joints paved over and cannot assess; however, evidence of leaking expansion joints can be seen on the wet abutment walls. Moderate spalling and delamination with moderate to severe corrosion of reinforcement noted on underside of deck and all over the girders. Hairline cracking observed on outside of the fascia girders.		
DECK			
Condition:	F2 - Fair	Curbs:	I - Inapplicable
Hand Rail:	P3 - Poor	Roadway Condition:	I - Inapplicable
Approach Rail:	G - Good		
Comments:	No end-blocks and no curb. Handrail has three horizontals and is low in height; handrails extend out from approach rail creating a hazard. Transverse cracking in asphalt over expansion joints. Moderate deterioration and spalling on deck fascia and soffit and exposed reinforcement moderately corroded.		
HYDROLOGY			
Water Velocity:	0 m/s	Ice Problem:	N - No Problem

Water Depth:	0 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2021	Replacement Year:	2021
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Repair abutments, girders, deck soffit and fascia, install curb, new handrail, and end-blocks, and replace expansion joints.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	Multiple layers of asphalt present on deck. Significant accumulation of winter sand and vegetation under approach rails. Inspection pictures are on file.		
LEGEND:			
Condition Definitions:		Problem Definitions:	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		
Category Definitions:			
		Maint. - Maintenance.	
		Eng. - Engineering.	
		Office - Bridge Office.	
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● Any item which inspector feels 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			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.