

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B10282021-1	
Date: 10/26/2021	Inspected By: Chantel Finn	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-081 - POINT VERDE BROOK BRIDGE, GLEN'S CV		
Route:	100	Overall Length:	28.2 m
Year Built:	1973	Est: No	Overall Width: 10.2 m
Year Last Rehab.:		Est: No	Roadway Width: 9.6 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.3 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.4 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	1.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	20.7
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:	F1 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	F2 - Fair
Comments:	- Assumed condition of buried reinforced concrete abutment footings - Medium horizontal/vertical cracks in abutment faces - Light bulging and narrow cracking in some bearing pads - Hairline narrow vertical cracks in all four wingwalls (AAR)		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	F1 - Fair
Comments:	- Medium/wide horizontal/longitudinal cracks in bottom flanges of most girders - Medium delamin/spalling with medium corrosion/rusting to exposed reinforcement to bottom and sides of most girders - Expansion joints are paved over with some cracking of concrete around joints to curbs fascia's - No chalking in expansion joint gaps in curb fascia's		
DECK			

Condition:	F1 - Fair	Curbs:	I - Inapplicable
Hand Rail:	F1 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	P3 - Poor		
Comments:	- No end blocks or hazard markers - Narrow transverse cracks with light to medium spalling with light efflor. deposits to other areas of deck soffit and fascia's - Approach and exit rail have damage, heaving rail and rotting posts - Narrow transverse cracks in asphalt at expansion joint locations Aluminum hand rail has some damaged sections with scrapes & dents and rotting posts - Medium to severe asphalt & slope erosion at northeast, northwest, & southeast ends. - Narrow trans. cracks with light efflor. deposits in cantilevered deck soffit. - Heavy spalling on some areas of deck soffit at North end		

HYDROLOGY

Water Velocity:	tidal m/s	Ice Problem:	N - No Problem
Water Depth:	tidal m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Rip-rap at corners of structure has migrated into channel. Area affected by tides. - Numerous scrapes/ dents/ damage (esp. at ends) and alum. hand rails and end posts		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2024	Replacement Year:	2030
Antic. Rehab. Cost:	\$200000	Replacement Cost:	\$2700000
Recommendations:	- Repair all concrete defects. - Repair/replace damaged aluminum handrails & posts. - Install new end blocks with new approach-exit guiderail complete with hazard markers. - Fix asphalt and slope erosion at structure corners. - Install new hydraulic rip-rap at structure corners		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- P1 asphalt and slope erosion. - P3 aluminum handrail & approach/exit Rails. - F1 remainder.		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

PHOTO GUIDELINES:
Inspection Photos:
 Please provide photos using guidelines below:
 ● 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