

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B12072021-2</b>	
<b>Date:</b> 10/27/2021	<b>Inspected By:</b> Mike Button	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	5-065 - GILBERT RIVER BRIDGE		
<b>Route:</b>	513	<b>Overall Length:</b>	0 m
<b>Year Built:</b>	2003	<b>Est: No</b>	<b>Overall Width:</b> 0 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 0 m
<b>Region:</b>	LABRADOR	<b>Sidewalk Width:</b>	0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	0 m
<b>Type of Structure:</b>	05 - Pre-stressed Concrete Slab	<b>Max Depth of N.W.L.:</b>	0 m
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
<b>Roadway Surface:</b>	01 - Concrete	1	25
<b>Alignment Vertical:</b>	01 - Good	2	0
<b>Alignment Horizontal:</b>	01 - Good	3	0
<b>Restrictions:</b>	No	<b>Span No.:</b>	<b>Length</b>
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	G - Good	<b>Bearings:</b>	G - Good
		<b>Bearing Seat:</b>	G - Good
<b>Comments:</b>	- Abutments, wingwalls, bearings and bearing seats in good condition.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	G - Good	<b>Expansion Joints:</b>	F1 - Fair
<b>Comments:</b>	- Expansion joint seals full of gravel, no water seen on bearing seats. Recommend replacing rubber seals with asphaltic plug joints as structure is on a gravel road. - Five girders have moderate corrosion to all surfaces and no missing bolts to full moment connections/splices. All interior braces also have moderate corrosion to members. Girders/braces painted over abutments and have light paint chipped likely caused from installation. Bottom of deck concrete in excellent condition. Superstructure G.		
<b>DECK</b>			

<b>Condition:</b>	G - Good	<b>Curbs:</b>	P3 - Poor
<b>Hand Rail:</b>	P3 - Poor	<b>Roadway Condition:</b>	G - Good
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	- Approach/exit rails in fair condition with isolated spilt and tipped posts, complete with hazard markers, connected to end blocks and do not have collision dampening posts prior to end blocks. - Approach/exit are gravel road and in good condition (Dynamic) road was just graded. - No asphalt, concrete deck in good condition. - Curbs in good condition along the roadway, for exterior see "Handrail" statement. - Handrails have moderate scraping/denting from flyer. Five handrail posts on the east side are tipped outwards towards the east and have caused relatively large spalls to the exterior curb concrete, P3.		

**HYDROLOGY**

<b>Water Velocity:</b>	0.3 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	Deep m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Structure at least 7m above the waterline with all rip-rap in good position.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2024	<b>Replacement Year:</b>	2070
<b>Antic. Rehab. Cost:</b>	\$25,000	<b>Replacement Cost:</b>	\$1,800,000
<b>Recommendations:</b>	- Replace sections of handrail (rail/posts) and associated curb concrete. Recommend replacing rubber seal expansion joints with asphaltic plug joints as structure is on a gravel road.		

**OBSERVATIONS**

<b>Overall Condition:</b>	G - Good	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- Hazards steep slopes, traffic and the bearing seats are totally covered in bat feces.		

**LEGEND:**

<b>Condition Definitions:</b>			<b>Problem Definitions:</b>	<b>Category Definitions:</b>
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**