

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B12072021-5</b>	
<b>Date:</b> 10/28/2021	<b>Inspected By:</b> Mike Button	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	5-071 - DYKES RIVER BRIDGE		
<b>Route:</b>	510	<b>Overall Length:</b>	40.2 m
<b>Year Built:</b>	2002	<b>Est: No</b>	<b>Overall Width:</b> 12.3 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 11.1 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>	3.5 m
<b>Type of Structure:</b>	05 - Pre-stressed Concrete Slab	<b>Max Depth of N.W.L.:</b>	1.5 m
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	01 - Aluminum Rail	<b>Span No.:</b>	<b>Length</b>
<b>Roadway Surface:</b>	01 - Concrete	1	21
<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>	F2 - Fair	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	- Wingwalls, exterior bearings in good condition. Both bearing seats have heavy gravel build up at the mid-point, F2. Abutments have light erosion to waterline concrete. Interior bearings too high for inspection but condition assumed to be the same as exterior.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	G - Good	<b>Expansion Joints:</b>	F2 - Fair
<b>Comments:</b>	- Expansion joint seals full of gravel, no water seen on bearing seats. Embedded steel starting to show through surface concrete. Recommend replacing rubber seals with asphaltic plug joints as structure is on a gravel road. - Six girders have moderate corrosion to all surfaces. All interior braces are painted with light corrosion to bolts. Girders over abutments and have light paint chips likely caused from installation. Bottom of deck concrete in excellent condition. Superstructure G.		

<b>DECK</b>			
<b>Condition:</b>	G - Good	<b>Curbs:</b>	G - Good
<b>Hand Rail:</b>	P1 - Poor	<b>Roadway Condition:</b>	G - Good
<b>Approach Rail:</b>	F1 - Fair		
<b>Comments:</b>	- Approach/exit rails in fair condition and are overgrown by vegetation, are connected to end blocks, complete with hazard markers and do not have collision dampening posts prior to end blocks. - Approach/exits are gravel road and in good condition (Dynamic) road was just graded. - No asphalt, concrete deck in good condition. No deck drains. - Curbs in good condition. - Handrails have numerous joiners missing, P1. Other areas have twisted posts and severely dented rails, P3.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	0.5 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.5 m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Recommend the placement of rip-rap on riverside abutment faces.		
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2022	<b>Replacement Year:</b>	2070
<b>Antic. Rehab. Cost:</b>	\$20,000	<b>Replacement Cost:</b>	\$1,800,000
<b>Recommendations:</b>	- 2022 - Clean expansion joint seals and bearing seats, if possible (Maintenance). Correct handrail issues. Brush clear approaches. - 2026 - Recommend replacing rubber seals with asphaltic plug joints as structure is on a gravel road. Recommend the installation of deck drains. Place rip-rap on riverside abutment faces.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	G - Good	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- Hazards steep slopes, and mild traffic.		
<b>LEGEND:</b>			
<b>Condition Definitions:</b>		<b>Problem Definitions:</b>	
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.		
<b>Category Definitions:</b>			
Maint. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
<b>PHOTO GUIDELINES:</b>			
<b>Inspection Photos:</b>			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> <li>● Any item which inspector feels should be documented by photograph</li> <li>● All items noted above as being P3, P1, P, or C</li> <li>● Any evidence of known ice, scour, debris, waterway problems</li> </ul>			
<b>INSPECTION PHOTOS</b>			