

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01172025-2	
Date: 12/20/2024		Inspected By: M Button/S Walsh		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-283 - NORTH POND BROOK BRIDGE - R20			
SUBSTRUCTURE					
Condition:	P1 - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	- Downstream (older structure) abutment/frame legs, have widespread severe/wide map cracking with light efflorescence throughout, P3 to P1. - Upstream (newer structure) abutment/ frame legs have light erosion to riverine concrete but is in fair condition overall, F1. - Abutment/frame leg near the joint in structure has moderate to severe map cracking with light efflorescence. This is caused from leakage through the deck soffit above, P1.				
SUPERSTRUCTURE					
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable		
Comments:	- The deck soffit around the joint (first meter each side of the joint) in the structure has moderate/medium width map cracks with moderate to severe efflorescence. Widespread delaminations to the deck soffit around the joint, P3 to P1. - There is continuous longitudinal spalls/disintegration to the concrete in the joint area, P1. - Deck soffit away from the structure joint in relatively good condition but there are widespread honeycombs from original construction, F1. - Upstream deck soffit at the intersection with the deck fascia has a large spall with very severe corrosion to reinforcement. Large boulder visible from original construction, P1.				
DECK					
Condition:	P1 - Poor	Curbs:	I - Inapplicable		
Hand Rail:	P - Poor	Roadway Condition:	F2 - Fair		
Approach Rail:	I - Inapplicable				
Comments:	- Upstream structure rail is 3 rail aluminum system attached to buried 4x4 posts. Railing doesn't not meet current standards, P. - Downstream structure rail is original concrete railing. Railing cracked with widespread spalls and disintegration, P3 to P1. - No curbs, end blocks or hazard markers. - Asphalt has 1 longitudinal wide crack on the structure's exit towards St. John's and is otherwise in good condition.				
HYDROLOGY					
Water Velocity:	Slow m/s	Ice Problem:	N - No Problem		
Water Depth:	Shallow m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- No Comments				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:		Replacement Year:	2026		
Antic. Rehab. Cost:	\$N/A	Replacement Cost:	\$1,500,000		
Recommendations:	- Structure needs replacement within a couple years. Try and replace with 2 1500 CSP culvert or as the design permits.				
OBSERVATIONS					
Overall Condition:	P1 - Poor	Requires Further Inspection:	No		
Additional Observations:	- Structure in poor condition and needs replacement.				

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2026.