

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01162025-3	
Date: 12/20/2024		Inspected By: M Button/S Walsh		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-261 - POUCH COVE BROOK BRIDGE - R20			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	- All wingwall/abutment construction joints have light disintegration. Various areas with light to moderate width cracks with light efflorescent deposits. - Majority of abutment face map cracked with visible rust staining. Suspect widespread delamination's to the concrete. - Old concrete repairs leaching efflorescent material with widespread cracking.				
SUPERSTRUCTURE					
Condition:	P - Poor	Expansion Joints:	I - Inapplicable		
Comments:	- Deck soffit in very poor condition on center/original structure. This section of the bridge is closed to the motoring public and is restricted by jersey barriers above. Deck has through slab defects after hammer testing in summer 2024. - Upstream and downstream structure extensions have sound concrete except for the first meter on each side adjacent to the deteriorated center span.				
DECK					
Condition:	P - Poor	Curbs:	F1 - Fair		
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair		
Approach Rail:	P3 - Poor				
Comments:	- Damaged structure rail sections replaced under contract 28-23 in summer 2024. Rails, F2 - Approach rail in poor condition. Too low near structure P3 to P1. - Curb tops in fair condition. Large concrete defects repaired under 28-23 in summer 2024, F1. - Deck top not visible due to asphalt but confirmed to be leaking through slab given the condition of the deck soffit below, P1 to P under jersey barrier area. F1 to P3 remainder. - Town of Pouch Cove paved bridge shoulders summer 2024 when jersey barriers were installed by TI. Structure asphalt mostly new and in good condition.				
HYDROLOGY					
Water Velocity:	1 m/s	Ice Problem:	P - Possible Problem		
Water Depth:	1 m	Scour Problem:	P - Possible Problem		
Waterway:	02 - InAdequate	Debris Problem:	P - Possible Problem		
Comments:	- Water flow from the river impacting upstream wingwall with majority of momentum prior to turning to go under the bridge. Ensure proper alignment between river/new structure. - All 4 structure corners have drainage/runoff issues along structure wingwalls. - River channel is a moderately deep ravine like geological feature (~4m below deck level) with a bedrock foundation.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:		Replacement Year:	2027		
Antic. Rehab. Cost:	\$N/A	Replacement Cost:	\$2,500,000		
Recommendations:	- Current structure needs replacement within a couple of years. - Recommended to replace with a multi-plate. -				

Replacement year is an estimate only.

OBSERVATIONS

Overall Condition: P - Poor

**Requires Further
Inspection:** Yes

Additional Observations: - Replace the structure. - Center of bridge restricted by jersey barriers due to poor condition of the concrete deck. Two-way traffic still maintained. - Numerous drainage issues around the structure. Ensure runoff ditches installed along new wingwalls. - Powerlines run longitudinally over the upstream side with poles adjacent to wingwalls. - 300mm CSP culvert under Butlers Road in poor condition with perforations adjacent to the southwest wingwall of this structure. - Butler's Road, private property, and a lookout area surround the structure. - Town of Pouch Cove's sewer pipe offset ~2m from downstream fascia and is located on a separate support system.

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