

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01162025-1	
Date: 12/20/2024		Inspected By: M Button/S Walsh		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-160 - PICCO'S BROOK BRIDGE - R20			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	I - Inapplicable		
		Bearing Seat:	F1 - Fair		
Comments:	- Abutment corners and wingwalls have widespread mild to moderate efflorescence leachate through cracks. - Abutment/deck bearing area saturated with light disintegration at the edges.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable		
Comments:	- Suspect leaking along the approach slab/deck connection detail given the amount of efflorescence on the abutment corners and dampness on the deck/abutment bearing area. - Deck soffit has an isolated area with visible efflorescent deposits (area less than 0.3x0.3m).				
DECK					
Condition:	F1 - Fair	Curbs:	P3 - Poor		
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor		
Approach Rail:	P3 - Poor				
Comments:	- Approach asphalt has no observed defects, F2. Bridge deck/approach slab joints have wide transverse cracks in the asphalt with various potholes scattered throughout. Evidence of continuous patching on bridge deck, P3. - Curbs buried in road gravels and overgrown with vegetation. Visible areas have light to moderate disintegration, F1 to P3. - End blocks narrow map racks throughout with isolated spalls. - Local damage (plough dents) to structure railing, F1. - Approach guiderail in fair condition. Missing all hazard markers. Guiderail is not of type "guiderail structures".				
HYDROLOGY					
Water Velocity:	0 m/s	Ice Problem:	N - No Problem		
Water Depth:	0 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- Slow moving deep channel under bridge. ~1.5m free board under normal flow conditions.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2028	Replacement Year:	2050		
Antic. Rehab. Cost:	\$400,000	Replacement Cost:	\$3,000,000		
Recommendations:	- Likely concrete deck repairs prior to waterproof/paving. - Waterproof & resurface the bridge deck. - Concrete repairs at approach slab/bridge deck joints + waterproof. - Concrete repairs to abutment exterior corners & concrete deck exterior bearing areas on the abutments + waterproof/seal. - Replace end blocks complete with new guide rail structures. Property adjacent to structure that will have to be considered for guiderail extents. - Remove all gravels from the bridge deck & curbs. - Brush clearing around bridge.				
OBSERVATIONS					

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Bridge in fair condition overall with some P3 areas. A rehabilitation within 5 years will drastically extend the life of this structure. - Deep water limits inspection.		

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