

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B02052025-3	
Date: 1/29/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-253 - BRAZIL'S HILL BRIDGE #2 - R70			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	- Frame leg footing have severe concrete erosion, P3. - Isolated locations with mild/moderate scour between the bedrock and footings, P3. - Frame leg faces have numerous pockets of honeycombs and cold joints from original construction, P3. - 300mm culvert penetrating north frame leg towards the eastern side.				
SUPERSTRUCTURE					
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable		
Comments:	- East fascia in fair condition with light scaling throughout, F1. - West fascia has a local area of disintegration P3, F1 remainder. - Both the upstream and downstream exterior deck soffits have severe cracking with efflorescent deposits, P3. - The deck soffit at all structure joints/extensions have severe disintegration with wide spread delaminations exposing reinforcement with severe corrosion, P1. - Deck soffit has numerous pockets of honeycombs and cold joints from original construction throughout, P3.				
DECK					
Condition:	P1 - Poor	Curbs:	G - Good		
Hand Rail:	G - Good	Roadway Condition:	F1 - Fair		
Approach Rail:	G - Good				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - Missing two hazard markers. One on each approach. - End blocks and concrete barrier looks recently replaced. Local hairline cracks. Local spall on east barrier (contractor left a piece of 2x6 in the formwork at time of pouring), G. - Two (2) jersey barriers placed to extend barrier to protect residences house? - Approach recent replacement of both approach rails. Posts mounted to top of wingwalls - Asphalt has isolated transverse cracks but looks recently replaced, F2. - Relatively new curb under barrier, G. - Eastside also has an aluminum handrail for pedestrians. No defects observed.				
HYDROLOGY					
Water Velocity:	<1 m/s	Ice Problem:	N - No Problem		
Water Depth:	0.3 m	Scour Problem:	K - Known Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	- Local scour between footing and bedrock.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2026	Replacement Year:	2045		
Antic. Rehab. Cost:	\$150,000	Replacement Cost:	\$3,500,000		
Recommendations:	- Remove wood from east barrier and patch. - Repair all structure extension joints waterproof and repave structure. - Repair all honeycomb areas. - Repair scour pockets with tremie concrete. - Consider refacing the concrete footings. - Replacement year estimate – 2045 with rehabilitation. 2030 without a rehabilitation.				

OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations: - 300mm culvert penetrating north frame leg towards the eastern side.			

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