

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09152022-13	
Date: 7/28/2022	Inspected By: M Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	4-067 - TRANSMISSION BROOK BRIDGE		
Route:		Overall Length:	4.6 m
Year Built:	1969	Est: Yes	Overall Width: 12.7 m
Year Last Rehab.:		Est: No	Roadway Width: 11.5 m
Region:	WEST COAST/NORTHERN		Sidewalk Width: 1 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	0.3 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	Span No.:	Length
Alignment Vertical:	01 - Good	1	4.6
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- East frame leg has two areas of light to moderate scour at the structure extension joints. Frame legs otherwise in fair to good condition. - Wingwalls in fair condition. - No bearings or bearing seat, rigid frame.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable
Comments:	- Deck soffit in fair to good condition. - No expansion joints, rigid frame. - South headwall has moderate to severe map cracking with light efflorescence throughout. - South deck fascia has very severe disintegration exposing reinforcement with very severe/corroded through reinforcement. Very severe efflorescent leachate seeping between deck fascia and headwall construction joint. - North headwall and fascia area in fair condition with isolated map cracking. Very small spall on the northeast corner where the deck ties into the wingwall. Small spall under the center structure rail post. Joint between headwall and deck disintegrating and leaking. Deck soffit F1		

overall, headwall areas P3.			
DECK			
Condition:	U - Uninspectable	Curbs:	P1 - Poor
Hand Rail:	P1 - Poor	Roadway Condition:	F2 - Fair
Approach Rail:	I - Inapplicable		
Comments:	- Asphalt in fair condition. - Curbs atop headwall on the south side has the entire surface delaminated with reinforcement visible in many areas. - Curbs have several spalls, holes and delaminations on the north side exposing reinforcement, replace. - Structure rail needs replacement, original concrete rail, P1. - No guiderail or end blocks. All hazard markers missing or severely damaged.		
HYDROLOGY			
Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem
Water Depth:	0.2 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Repair scour holes on east frame leg.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2025	Replacement Year:	2035
Antic. Rehab. Cost:	\$100,000	Replacement Cost:	\$1,000,000
Recommendations:	- Replace headwalls and curbs. Add end blocks. - Replace structure rails. - Install guiderail with regulation hazard markers. - Repair two areas of scour at structure joints in frame leg.		
OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Bridge overall in fair condition with P3 areas.		

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.