



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B08122024-4

Date: 8/9/2024

Inspected By: D. Burns/B. Grandy

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-068 - PIERCEY'S BROOK BRIDGE			Overall Length:	33 m
Route:	220			Overall Width:	11.2 m
Year Built:	1976	Est: No		Roadway Width:	10 m
Year Last Rehab.:		Est: No		Sidewalk Width:	0 m
Region:	CENTRAL EAST			Clearance to R.D. or N.W.L.:	2.5 m
Jurisdiction:	Provincial			Max Depth of N.W.L.:	1 m
Type of Structure:	01 - AASH to Girder			Spans:	
Purpose of Structure:	04 - Over Non-Navigable Waters			<u>Span No.:</u>	<u>Length</u>
Type of Handrail:	01 - Aluminum Rail			<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt			1	22
Alignment Vertical:	01 - Good			2	0
Alignment Horizontal:	01 - Good			3	0
Restrictions:	No			4	0
				5	0
				6	0

BRIDGE PHOTOS





SUBSTRUCTURE

Condition:	F1 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Abutment faces have large spalls due to leftover formwork, Hairline cracking throughout. Abutment corners have cracking and efflorescence.		

SUPERSTRUCTURE

Condition:	F1 - Fair	Expansion Joints:	P3 - Poor
Comments:	Girders have various instances of minor spalling with exposed rebar and rust staining. Deck soffit has Very large spall with exposed reinforcement between girders 2 and 3 near abutment 2.		

DECK

Condition:	F2 - Fair	Curbs:	I - Inapplicable
Hand Rail:	P1 - Poor	Roadway Condition:	F2 - Fair
Approach Rail:	F1 - Fair		
Comments:	Structure rail is very low (3 rail aluminum), with no curbs. Sand and salt build up on deck. No regulation hazard markers, id sign, and incorrect approach rail post spacing. No end blocks.		

HYDROLOGY

Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem
Water Depth:	0.5 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2025	Replacement Year:	2045
Antic. Rehab. Cost:	\$175,000	Replacement Cost:	\$2,500,000
Recommendations:	Replace deck/approach cosmetics as listed above. Latex repairs on large spall between girders 2 and 3. Replace expansion joints. Repair abutments as necessary.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Monitor large spall between girders 2 and 3, since it has deteriorated fairly significantly in a 2 year span.		