

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09132021-1	
Date: 9/1/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	3-029 - MIGUEL'S BROOK BRIDGE		
Route:	360	Overall Length:	39.5 m
Year Built:	1967	Est: No	Overall Width: 9.8 m
Year Last Rehab.:	2003	Est: No	Roadway Width: 7.5 m
Region:	CENTRAL WEST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.5 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	2 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	34.5
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	- Wingwalls have medium alligator cracking throughout. - Both abutments, bearing areas, and footings were rehabbed in 2020. - Poor construction/finishing methods used on bearing areas. Surface wavy and exterior northeast bearing left with an unfinished trough under the girder.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	P3 - Poor
Comments:	- New expansion joint seals from rehab in 2020. - Girders in fair condition, some girder stiffener block detached from top flange. Minor honeycombing from construction on northeast side. - Underside of deck in fair condition. Some light leakage between deck and girders, no efflorescence. - Diaphragms not in line, construction garage on their bottoms with honeycombing. Concrete on the underside of the deck behind the diaphragms (under expansion joints) has heavy cracking with efflorescence. Water visibly leaking through cracks and keeping the bearing seats wet. Leaking through construction joint as well. South abutment entirely affected. North abutment		

only affected on northwest corner. Expansion joint area P3, F2 remainder.

DECK

Condition:	F2 - Fair	Curbs:	G - Good
Hand Rail:	G - Good	Roadway Condition:	G - Good
Approach Rail:	G - Good		
Comments:	- New asphalt west side of structure and a couple meters away from each approach/exit. - New end blocks complete with hazard markers. - New approach/exit rails. - New curbs and soffit area.		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.3 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- No comment.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2024	Replacement Year:	2035
Antic. Rehab. Cost:	\$100000	Replacement Cost:	\$1500000
Recommendations:	- Bridge just rehabbed. However, expansion joint concrete missed. Expansion joint concrete and possibly concrete in the deck around the expansion joints need to be replaced. Wet environment will caused accelerated deteriorated to bearings, bearing seat and girder end blocks		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	- P3 expansion joint concrete, F2 remainder. Hazards, traffic and steep slopes.		

LEGEND:

Condition Definitions:

1 - *Good - [discontinued code].
 2 - *Fair - [discontinued code].
 3 - *Poor - [discontinued code].
 4 - *Unsafe - [discontinued code].
 G - Good.

F2 - Fair.
 F1 - Fair.
 P3 - Poor.
 P1 - Poor.
 P - Poor.

C - Unsafe (Closed to Public).
 U - Uninspectable.
 I - Inapplicable.

Problem Definitions:

N - No Problem.
 P - Possible Problem.
 K - Known Problem.
 NA - Not Applicable.

Category Definitions:

Maint. - Maintenance.
 Eng. - Engineering.
 Office - Bridge Office.

PHOTO GUIDELINES:

Inspection Photos:

- Please provide photos using guidelines below:
- Any item which inspector feels should be documented by photograph
 - All items noted above as being P3, P1, P, or C
 - Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS