



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR  
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT**  
**B05292020-19**

Date: 5/29/2020

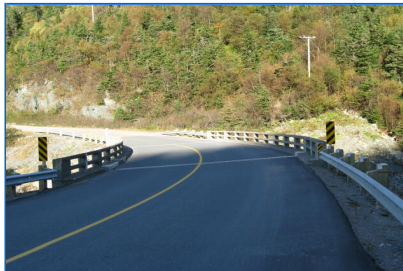
Inspected By: Alex Ford

Category: Eng. - Engineering

**BRIDGE INFORMATION**

Site:	2-054 - SUGAR LOAF BROOK BRIDGE				
Route:	212	Overall Length:	27.4 m		
Year Built:	1972	Est: No	Overall Width:	10 m	
Year Last Rehab.:	2008	Est: No	Roadway Width:	8.6 m	
Region:	CENTRAL EAST	Sidewalk Width:	0 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.6 m		
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	1.5 m		
Purpose of Structure:	03 - Over Navigable Waters	Spans:			
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	01 - Concrete	1	19	4	0
Alignment Vertical:	01 - Good	2	0	5	0
Alignment Horizontal:	01 - Good	3	0	6	0
Restrictions:	No				

**BRIDGE PHOTOS**





**SUBSTRUCTURE**

<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	Concrete abutments and wingwalls. Some erosion and disintegration of the footings. Some cracks in the abutment walls, some disintegration abutment two corner right side. Cracking with efflorescence throughout wingwalls. Some minor squatting of bearing pads.		

**SUPERSTRUCTURE**

<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	F2 - Fair
<b>Comments:</b>	5 AASHTO girders, some light cracking and a few exposed rebar, staining on girder five from previous deck drains. Outer curb sections of expansion joints have disintegrated concrete.		

**DECK**

<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	F2 - Fair
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	Concrete deck with asphalt wearing surface, some small potholes from foreign material in the asphalt mix, a few cracks underside of deck with efflorescence. Concrete hand rail, light cracking. Curbs have some disintegration around the old drain areas and curb joint sections, light cracking with efflorescence elsewhere. Abutment 1 left hazard marker is missing. Expansion joints are leaking through the Styrofoam seals on both sides. Abutment 1 corner on left side of deck is spalled. Dymeric seal is missing on left side of expansion joint 1.		

**HYDROLOGY**

<b>Water Velocity:</b>	Varies m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	Varies m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Tidal. Some minor scour of footings behind rip rap protection.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2020	<b>Replacement Year:</b>	2020
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	Rehab structure. Latex repairs, isolated curb repairs, patch potholes.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
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**Additional Observations:**

**LEGEND:**

**Condition Definitions:**

- 1 - \*Good - [discontinued code].
- 2 - \*Fair - [discontinued code].
- 3 - \*Poor - [discontinued code].

- F2 - Fair.
- F1 - Fair.
- P3 - Poor.

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

**Problem Definitions:**

- N - No Problem.
- P - Possible Problem.
- K - Known Problem.

**Category Definitions:**

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

4 - \*Unsafe - [discontinued code].  
G - Good.

P1 - Poor.  
P - Poor.

NA - Not Applicable.

**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**

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.