

GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT B02032020-8

Date: 2/3/2020 Inspected By: Alex Ford Category: Eng. - Engineering

BRIDGE INFORMATION

Site: 2-010 - BIG SALMONIER RIVER BRIDGE

Route: 220

 Year Built:
 1970
 Est: No

 Year Last Rehab.:
 2006
 Est: No

Region: CENTRAL EAST

Jurisdiction: Provincial

Type of Structure: 04 - Rigid Frame

Purpose of Structure: 04 - Over Non-Navigable Waters

Type of Handrail: 01 - Aluminum Rail
Roadway Surface: 02 - Asphalt
Alignment Vertical: 01 - Good
Alignment Horizontal: 01 - Good

Restrictions: No

Overall Length:

25 **m**

Overall Width: Roadway Width: 13 **m**

Sidewalk Width:

12 **m** 0 **m**

Clearance to R.D. or

6 **m**

N.W.L.:

Max Depth of N.W.L.: 1

1 **m**

Spans:

Span No.:	<u>Length</u>	Span No.:	<u>Length</u>
1	20	4	0
2	0	5	0
3	0	6	0

BRIDGE PHOTOS



















Condition: F2 - Fair Bearings: I - Inapplicable

Bearing Seat: I - Inapplicable

Comments: Concrete abutments and wingwalls. Cracking throughout abutment walls, worse in old (left side) section.

Extensive cracking with efflorescence on all wingwalls, some separation at the corner connections to the abutments. Abutment two left wingwall top 1/3 tipped out, Abutment two right wingwall top 2/3 tipped out. Minor

erosion of concrete footings.

SUPERSTRUCTURE

Condition: P3 - Poor Expansion Joints: I - Inapplicable

Comments: Arched rigid frame deck. Significant cracking with efflorescence with significant disintegration along deck edges

and the centre joint between old and new sections with heavy efflorescence. Heavy leaking with active wet areas

around the centre longitudinal joint.

DECK

Condition: P3 - Poor **Curbs:** F2 - Fair

Hand Rail: F2 - Fair Roadway Condition: F2 - Fair

Approach Rail: P3 - Poor

Comments: Concrete deck with asphalt wearing surface. Significant leakage through deck at joints. Some asphalt cracking at

approaches, large potholes near road centreline at ends (patched). Approach rail is slightly low and has post rot. Minor cracking of curbs, small spalls right side. There is a buildup of sand under the rail with alders growing

around it.

HYDROLOGY

Water Velocity: 1.0 m/s Ice Problem: N - No Problem

Water Depth: 1.0 m Scour Problem: K - Known Problem

Waterway: 01 - Adequate Debris Problem: N - No Problem

Comments: Minor scour along right wingwall abutment one which extends under abutment one footing, approximately 0.4m

max depth. No issues now but needs repair/protection soon.

REPLACEMENT/REHABILITATION

Next Rehab. Date: Replacement Year:

Antic. Rehab. Cost: \$0 Replacement Cost: \$0

Recommendations: Rehab. Extensive latex repairs, deck repairs, asphalt repairs, scour repairs, replace approach rail.

OBSERVATIONS

Overall Condition: P3 - Poor Requires Further No

Inspection:

Additional Observations:

LEGEND:
Condition Definitions:
Problem Definitions:
Category 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.	N - No Problem. P - Possible Problem. K - Known Problem. NA - Not Applicable.	Maint Maintenance. Eng Engineering. Office - Bridge Office.			
F	HOTO GUIDELINES:							
Ŀ	Inspection Photos:							
Please provide photos using guidelines below:								
Any trem which inspector reels should be accumented by photograph All trems noted above as being P3, P1, P1, or C Any evidence of known ice, scour, debris, waterway problems								
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INSPECTION PHOTOS								

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