



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B06012020-4

Date: 6/1/2020

Inspected By: Alex Ford

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-018 - LONG POND BROOK BRIDGE				
Route:	210	Overall Length:	18.3 m		
Year Built:	1970	Est: No	Overall Width:	13.7 m	
Year Last Rehab.:	1998	Est: No	Roadway Width:	12.3 m	
Region:	CENTRAL EAST	Sidewalk Width:	0 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3 m		
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Max Depth of N.W.L.:	1 m		
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:			
Type of Handrail:	04 - Steel Rail	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	13.2	4	0
Alignment Vertical:	01 - Good	2	0	5	0
Alignment Horizontal:	01 - Good	3	0	6	0
Restrictions:	No				

BRIDGE PHOTOS







SUBSTRUCTURE

Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Concrete abutments and wingwall. Structure was widened to the right. Concrete erosion at footings. Abutments and wingwalls have some cracking, disintegration and efflorescence throughout.		

SUPERSTRUCTURE

Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	6 reinforced concrete beams, 4,5,6 newer than 1,2,3. Some cracking all beams, exposed rebar beams 1 and 3, beam 6 has significant cracking, disintegration, efflorescence and exposed rebar. Asphalt plug joints ok.		

DECK

Condition:	F1 - Fair	Curbs:	P3 - Poor
Hand Rail:	P1 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	P3 - Poor		
Comments:	Concrete deck with asphalt wearing surface. Underside of deck has some large cracking with efflorescence, especially between beam 3 and 4 (where structure was joined) and beam 5 and 6. Exterior soffit and fascia has significant disintegration, cracking and efflorescence. 3 rail steel hand rail with concrete end blocks, significant rusting with holes. Curbs are severely deteriorated in several areas, especially the surfaces. Roadway has significant bumps at the approaches due to settlement - asphalt is cracked and potholes are forming. there is a significant pothole on deck (been patched multiple times). Approach 2 right hazard marker is missing.		

HYDROLOGY

Water Velocity:	1.0 m/s	Ice Problem:	N - No Problem
Water Depth:	1.0 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2020
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0

Recommendations: Rehab structure. Latex repairs, deck repairs, curb repairs, replace hand rail and end blocks, expansion joints, repave deck and approaches. Replace hazard marker.

OBSERVATIONS

Overall Condition: F1 - Fair **Requires Further Inspection:** No

Additional Observations:

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

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