

GOVERNMENT OF **NEWFOUNDLAND** AND LABRADOR Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT B02032020-3

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

BRIDGE INFORMATION

Site: 2-030 - GRAND BANK BROOK BRIDGE (NO.1)

Route: 210

1968 Year Built: Est: No Year Last Rehab.: Est: No

Region: **CENTRAL EAST**

Jurisdiction: Provincial

Type of Structure: 01 - AASH to Girder

04 - Over Non-Navigable Waters Purpose of Structure:

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

No Restrictions:

31.8 m **Overall Length:** 11.5 m **Overall Width:**

Roadway Width: 8.5 m Sidewalk Width: 1.1 m

Clearance to R.D. or

N.W.L.:

Max Depth of N.W.L.: 1 m

Spans:

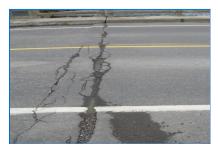
Span No.:	<u>Length</u>	Span No.:	<u>Length</u>
1	24	4	0
2	0	5	0
3	0	6	0

3.3 m

BRIDGE PHOTOS











SUBSTRUCTURE

F2 - Fair Condition: F2 - Fair Bearings:

> **Bearing Seat:** F2 - Fair

Comments: Concrete abutments and wingwalls. Small to medium cracking with efflorescence in abutments. Cracking with

some deterioration of the wingwalls. Deterioration and exposed rebar with rust staining on backwall one from

	leaking joint. Bearing pads are partly squat and there is significant debris on the beam seat. Some deterioration of the beam seat abutment two. Concrete erosion on abutment #1 at water line level.				
SUPERSTRUCTURE					
Condition:	F2 - Fair	Expansion Joints:	P3 - Poor		
Comments:	AASHTO girders. Girder six toward abutment two end has large piece of concrete delaminating/spalled off due to exposed rebar, 1.5m long. Some minor deterioration of the outside faces of the outside girders. Expansion joints paved over and leaking, seals in curb missing.				
DECK					
Condition:	P3 - Poor	Curbs:	P3 - Poor		
Hand Rail:	P3 - Poor	Roadway Condition:	P3 - Poor		
Approach Rail:	G - Good				
Comments:	Concrete deck with asphalt wearing surface. Active wet areas on underside of deck around drains with som cracking and spalling with efflorescence - deterioration most likely on top as well. Concrete rail and end bloc some minor cracks. Curbs are deteriorated with exposed rebar, spalls and cracking throughout - left side we condition. Sidewalk both sides, no ramps at ends, too narrow. Asphalt replaced 2019, guide rail installed 20 The expansion joints have been paved over. Concrete rail posts have vertical cracks.				
HYDROLOGY					
Water Velocity:	0.5 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:	nments: Dam located 30m upstream.				
REPLACEMENT/REHAB	ILITATION				
Next Rehab. Date:		Replacement Year:			
Antic. Rehab. Cost:	\$0	Replacement Cost: \$0			
Recommendations:	Rehab structure. Latex repairs, deck repairail.	rs, expansion joints, resurfa	ce curbs, add sidewalk ramps, new hand		
OBSERVATIONS					
Overall Condition:	F2 - Fair	Requires Further Inspection:	No		
Additional Observations:	Waterline attached to left side.				
LEGEND: Condition Definitions: 1 - *Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. PHOTO GUIDELINES: Inspection Photos: Please provide photos using guidelir Any rem which inspector in All tems noted above as beautiful and evidence of known ice	F2 - Fair. C - Unsafe (Closed to F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P1 - Poor. P - Poor. nes below: eeis snouig pe gocumenteg by pnotograpn eing P3, P1, P1, or C, scour, debris, waterway problems	Public). N - No Pro P - Possib K - Knowr	Definitions: Sublem. Je Problem. Le Problem. Problem. Applicable. Category Definitions: Maint Maintenance. Eng Engineering. Office - Bridge Office.		
INSPECTION PHOTOS					

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