

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

BRIDGE INSPECTION REPORT

Date: 10/28/2021 Inspected By: Mike Button Category: Office - Bridge Office

BRIDGE INFORMATION

Site: 5-070 - SOUTHWEST BROOK BRIDGE

Route: 510

2002 Year Built: Est: No Year Last Rehab.: Est: No

Region: **LABRADOR**

Jurisdiction: Provincial

Type of Structure: 05 - Pre-stressed Concrete Slab

Purpose of Structure: 04 - Over Non-Navigable Waters

No

01 - Aluminum Rail Type of Handrail: 01 - Concrete Roadway Surface: 01 - Good Alignment Vertical:

01 - Good Alignment Horizontal:

B12072021-4

36 m **Overall Length:**

Overall Width: 12 m

Roadway Width: 11.1 m Sidewalk Width: 0 **m**

Clearance to R.D. or

N.W.L.:

Max Depth of N.W.L.: 1.5 m

3.3 m

Spans:

Span No.: Length Span No.: Length 1 21 2 0 5 0 3 0 6 0

BRIDGE PHOTOS

Restrictions:





SUBSTRUCTURE

F2 - Fair G - Good Condition: Bearings:

> G - Good **Bearing Seat:**

- Wingwalls, bearings and bearing seats in good condition. Abutments have light erosion to waterline concrete. Comments:

SUPERSTRUCTURE

G - Good F2 - Fair Condition: **Expansion Joints:**

- Expansion joint seals full of gravel, no water seen on bearing seats. Embedded steel starting to show through Comments:

surface concrete. Recommend replacing rubber seals with asphaltic plug joints as structure is on a gravel road. -Six girders have moderate corrosion to all surfaces. All interior braces are painted with moderate corrosion to bolts. Girders over abutments and have light paint chipped likely caused from installation. Bottom of deck

concrete in excellent condition. Superstructure G.

DECK

Condition: G - Good G - Good Curbs: Hand Rail: F2 - Fair **Roadway Condition:** G - Good Approach Rail: F2 - Fair - Approach/exit rails in fair condition and are beginning to be overgrown by vegetation, connected to end blocks, Comments: complete with hazard markers and do not have collision dampening posts prior to end blocks. - Approach/exits are gravel road and in good condition (Dynamic) road was just graded. - No asphalt, concrete deck in good condition. Water/ice buildup along the south curb. No deck drains. - Curbs in good condition. - Handrails in have minor dents/scrapes from the flyer. **HYDROLOGY** 0.6 m/s N - No Problem Water Velocity: Ice Problem: 0.5 m Water Depth: Scour Problem: N - No Problem 01 - Adequate Waterway: **Debris Problem:** N - No Problem - Recommend the replacement of rip-rap on riverside abutment faces. Comments: REPLACEMENT/REHABILITATION 2026 2070 Next Rehab. Date: Replacement Year: Antic. Rehab. Cost: \$35,000 **Replacement Cost:** \$1,800,000 - Recommend replacing rubber seals with asphaltic plug joints as structure is on a gravel road. Recommend the Recommendations: installation of deck drains. Brush clear approach rails. Replace rip-rap on riverside abutment faces. Clean expansion joint seals (2022) **OBSERVATIONS** G - Good Requires Further No **Overall Condition:** Inspection: - Hazards steep slopes, and mild traffic. Additional Observations: LEGEND: Condition Definitions: Problem Definitions: N - No Problem. Category Definitions: Maint. - Maintenance. 1 - *Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. C - Unsafe (Closed to Public). U - Uninspectable. I - Inapplicable. P - Possible Problem. K - Known Problem. NA - Not Applicable. F1 - Fair. P3 - Poor. P1 - Poor. P - Poor. Eng. - Engineering. Office - Bridge Office. PHOTO GUIDELINES: Inspection Photos: Please provide photos using guidelines below:

Any trem which inspector teels spould be accumented by photograph
All trems noted above as being P3, P1, P1, or C
Any evidence of known ice, scour, debris, waterway problems **INSPECTION PHOTOS**

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