



GOVERNMENT OF  
NEWFOUNDLAND  
AND LABRADOR  
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT  
B02032020-11**

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

**BRIDGE INFORMATION**

|                       |                                    |                              |                |                  |               |
|-----------------------|------------------------------------|------------------------------|----------------|------------------|---------------|
| Site:                 | 2-173 - GROUSE BROOK BRIDGE (OLD)  |                              |                |                  |               |
| Route:                | 210                                | Overall Length:              | 17 m           |                  |               |
| Year Built:           | 1945                               | Est: No                      | Overall Width: | 5.6 m            |               |
| Year Last Rehab.:     |                                    | Est: No                      | Roadway Width: | 5.2 m            |               |
| Region:               | CENTRAL EAST                       | Sidewalk Width:              | 0 m            |                  |               |
| Jurisdiction:         | Provincial                         | Clearance to R.D. or N.W.L.: | 1 m            |                  |               |
| Type of Structure:    | 03 - Reinforced Concrete Beam/Slab | Max Depth of N.W.L.:         | 0.5 m          |                  |               |
| Purpose of Structure: | 04 - Over Non-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                            | 6              | 4                | 0             |
| Alignment Vertical:   | 01 - Good                          | 2                            | 6              | 5                | 0             |
| Alignment Horizontal: | 01 - Good                          | 3                            | 0              | 6                | 0             |
| Restrictions:         | No                                 |                              |                |                  |               |

**BRIDGE PHOTOS**



**SUBSTRUCTURE**

Condition: P - Poor Bearings: I - Inapplicable  
 Bearing Seat: P - Poor

Comments: Concrete abutments, pier and wingwalls. Extensive cracking, spalling, deterioration and efflorescence. Top of wingwalls abutment two broken off. Pier is severely eroded along the waterline. Estimated that 50% of the

concrete is missing due to the erosion.

**SUPERSTRUCTURE**

**Condition:** P - Poor **Expansion Joints:** I - Inapplicable  
**Comments:** Reinforced concrete deck slabs. Severe cracking with efflorescence along edges. Possible shear cracking at bearing ends. Noticeable sag of deck slab one.

**DECK**

**Condition:** P - Poor **Curbs:** P - Poor  
**Hand Rail:** P - Poor **Roadway Condition:** P - Poor  
**Approach Rail:** I - Inapplicable  
**Comments:** Exposed concrete deck. Concrete handrail has missing/broken sections - some replaced with flex beam. No object markers.

**HYDROLOGY**

**Water Velocity:** 0.5 m/s **Ice Problem:** N - No Problem  
**Water Depth:** 0.3 m **Scour Problem:** P - Possible Problem  
**Waterway:** 01 - Adequate **Debris Problem:** N - No Problem  
**Comments:** Minor scour at both abutments, founded on bedrock, no issues.

**REPLACEMENT/REHABILITATION**

**Next Rehab. Date:** **Replacement Year:**  
**Antic. Rehab. Cost:** \$0 **Replacement Cost:** \$0  
**Recommendations:** Replace with culvert.

**OBSERVATIONS**

**Overall Condition:** P - Poor **Requires Further Inspection:** No  
**Additional Observations:** On cabin access road. 1.2km off of R210 on the old roadbed.

**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**