

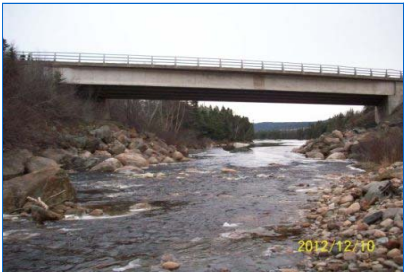


|   |   |  |                                       |
|---|---|--|---------------------------------------|
|    | GOVERNMENT OF<br>NEWFOUNDLAND<br>AND LABRADOR<br>Department of Transportation and Works   | <b>BRIDGE INSPECTION REPORT</b><br><b>B10162017-1</b><br>Printed: Wednesday, October 3, 2018 |                                       |
| <b>Date:</b> 10/12/2017   | <b>Inspected By:</b> AB   | <b>Category:</b> Eng. - Engineering  |                                       |
| <b>BRIDGE INFORMATION</b>   |   |  |                                       |
| <b>Site:</b>  | 2-070 - RYDER'S BROOK BRIDGE  |  |                                       |
| <b>Route:</b>   | 232   | <b>Overall Length:</b>   | 55 m                                  |
| <b>Year Built:</b>  | 1977  | <b>Overall Width:</b>  | 10 m                                  |
| <b>Year Last Rehab.:</b>  |   | <b>Roadway Width:</b>  | 9 m                                   |
| <b>Region:</b>  | CENTRAL EAST  | <b>Sidewalk Width:</b>   | 0 m                                   |
| <b>Jurisdiction:</b>  | Provincial  | <b>Clearance to R.D. or N.W.L.:</b>  | 6 m                                   |
| <b>Type of Structure:</b>   | 01 - AASH to Girder   | <b>Max Depth of N.W.L.:</b>  | 1 m                                   |
| <b>Purpose of Structure:</b>  | 04 - Over Non-Navigable Waters  | <b>Spans:</b>  |                                       |
| <b>Type of Handrail:</b>  | 01 - Aluminum Rail  | <b>Span No.:</b>   | <b>Length</b>                         |
| <b>Roadway Surface:</b>   | 02 - Asphalt  | <b>Span No.:</b>   | <b>Length</b>                         |
| <b>Alignment Vertical:</b>  | 02 - Adequate   | 1  | 38                                    |
| <b>Alignment Horizontal:</b>  | 02 - Adequate   | 2  | 0                                     |
| <b>Restrictions:</b>  | No  | 3  | 0                                     |
|   |   | 4  | 0                                     |
|   |   | 5  | 0                                     |
|   |   | 6  | 0                                     |
| <b>BRIDGE PHOTOS</b>  |   |  |                                       |
|  |   |          |                                       |
| <b>SUBSTRUCTURE</b>   |   |  |                                       |
| <b>Condition:</b>   | F2 - Fair (Inspection within 2 Years)   | <b>Bearings:</b>   | F2 - Fair (Inspection within 2 Years) |
|   |   | <b>Bearing Seat:</b>   | F2 - Fair (Inspection within 2 Years) |
| <b>Comments:</b>  | Concrete abutments and wing walls. Right side wing walls medium cracking with efflorescence and some delamination due to water pouring over side of bridge. Abutment one has light scaling and some medium cracking. Abutment two has medium cracking, rust staining, delaminations and efflorescence due to leaking expansion joint. |  |                                       |
| <b>SUPERSTRUCTURE</b>   |   |  |                                       |
| <b>Condition:</b>   | F2 - Fair (Inspection within 2 Years)   | <b>Expansion Joints:</b>   | P1 - Poor (Repair within 1 Year)      |
| <b>Comments:</b>  | AASHTO girders. Some spalling and exposed reinforcement due to lack of cover. Right side girder has staining due to water running off bridge. Expansion joints paved over, both joints leaking.   |  |                                       |
| <b>DECK</b>   |   |  |                                       |

|                       |  |                           |                  |
|-----------------------|--|---------------------------|------------------|
| <b>Condition:</b>     | P3 - Poor (Repair within 3 Years)  | <b>Curbs:</b>             | I - Inapplicable |
| <b>Hand Rail:</b>     | P3 - Poor (Repair within 3 Years)  | <b>Roadway Condition:</b> | I - Inapplicable |
| <b>Approach Rail:</b> | F2 - Fair (Inspection within 2 Years)  |                           |                  |
| <b>Comments:</b>      | Deck soffit and fascia right side has severe disintegration, spalling and exposed rebar. Aluminum bridge rail with no end blocks. Anchorages exposed several areas right side due to disintegrated concrete - some are broken out. Several areas of impact damage on rails. Asphalt wearing surface. No curbs. |                           |                  |

**HYDROLOGY**

|                        |               |                        |                |
|------------------------|---------------|------------------------|----------------|
| <b>Water Velocity:</b> | 0.5 m/s       | <b>Ice Problem:</b>    | N - No Problem |
| <b>Water Depth:</b>    | 1 m           | <b>Scour Problem:</b>  | N - No Problem |
| <b>Waterway:</b>       | 01 - Adequate | <b>Debris Problem:</b> | N - No Problem |
| <b>Comments:</b>       |               |                        |                |

**REPLACEMENT/REHABILITATION**

|                            |   |                          |        |
|----------------------------|---|--------------------------|--------|
| <b>Next Rehab. Date:</b>   | 2017  | <b>Replacement Year:</b> | 2017   |
| <b>Antic. Rehab. Cost:</b> | \$0.00  | <b>Replacement Cost:</b> | \$0.00 |
| <b>Recommendations:</b>    | Rehabilitate bridge including soffit, fascia, latex repairs and bridge rail. Consider adding curb with deck drains if possible. |                          |        |

**OBSERVATIONS**

|                                 |                                       |                                     |    |
|---------------------------------|---------------------------------------|-------------------------------------|----|
| <b>Overall Condition:</b>       | F2 - Fair (Inspection within 2 Years) | <b>Requires Further Inspection:</b> | No |
| <b>Additional Observations:</b> |                                       |                                     |    |

**LEGEND:**

|                                       |  |                                |                             |                              |
|---------------------------------------|--|--------------------------------|-----------------------------|------------------------------|
| <b>Condition Definitions:</b>         |  |                                | <b>Problem Definitions:</b> | <b>Category Definitions:</b> |
| 1 - *Good - [discontinued code].      | F2 - Fair (Inspection within 2 Years). | C - Unsafe (Closed to Public). | N - No Problem.             | Maint. - Maintenance.        |
| 2 - *Fair - [discontinued code].      | F1 - Fair (Inspection within 1 Year).  | U - Uninspectable.             | P - Possible Problem.       | Eng. - Engineering.          |
| 3 - *Poor - [discontinued code].      | P3 - Poor (Repair within 3 Years).     | I - Inapplicable.              | K - Known Problem.          | Office - Bridge Office.      |
| 4 - *Unsafe - [discontinued code].    | P1 - Poor (Repair within 1 Year).      |                                | NA - Not Applicable.        |                              |
| G - Good (Inspection within 2 Years). | P - Poor (Immediate Repair).           |                                |                             |                              |

**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**