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|     | GOVERNMENT OF<br>NEWFOUNDLAND<br>AND LABRADOR<br>Department of Transportation and Infrastructure            | <b>BRIDGE INSPECTION REPORT</b><br><b>B05192022-24</b> |                             |
| <b>Date:</b> 5/11/2021   | <b>Inspected By:</b> Butler   | <b>Category:</b> Eng. - Engineering                    |                             |
| <b>BRIDGE INFORMATION</b>  |   |  |                             |
| <b>Site:</b>   | 2-012 - LITTLE LAWN RIVER BRIDGE  |  |                             |
| <b>Route:</b>  | 220   | <b>Overall Length:</b>                                 | 18 m                        |
| <b>Year Built:</b>   | 1950  | <b>Est:</b> No   | <b>Overall Width:</b> 7 m   |
| <b>Year Last Rehab.:</b>   |   | <b>Est:</b> No   | <b>Roadway Width:</b> 6.5 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>                    | 3 m                         |
| <b>Type of Structure:</b>  | 06 - Concrete Arch/TechSpan   | <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>   | 02 - Concrete Rail  | <b>Span No.:</b>                                       | <b>Length</b>               |
| <b>Roadway Surface:</b>  | 01 - Concrete   | 1  | 15                          |
| <b>Alignment Vertical:</b>   | 01 - Good   | 2  | 0                           |
| <b>Alignment Horizontal:</b>   | 01 - Good   | 3  | 0                           |
| <b>Restrictions:</b>   | No  | 4  | 0                           |
|  |   | 5  | 0                           |
|  |   | 6  | 0                           |
| <b>BRIDGE PHOTOS</b>   |   |  |                             |
|  |   |  |                             |
|   |   |  |                             |
| <b>SUBSTRUCTURE</b>  |   |  |                             |
| <b>Condition:</b>  | P - Poor  | <b>Bearings:</b>                                       | I - Inapplicable            |
|  |   | <b>Bearing Seat:</b>                                   | I - Inapplicable            |
| <b>Comments:</b>   | Concrete abutments and wingwalls. Cracking with efflorescence over all, some disintegration of footing one. |  |                             |

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| Wingwalls at abutment two are separating from the abutment - large cracks forming. Minor scour and concrete erosion. |   |                                     |                   |
| <b>SUPERSTRUCTURE</b>  |   |                                     |                   |
| <b>Condition:</b>  | P3 - Poor   | <b>Expansion Joints:</b>            | I - Inapplicable  |
| <b>Comments:</b>   | Concrete arched deck slab. Underside of deck has some spalls, delaminations and exposed steel, cracking with efflorescence throughout.  |                                     |                   |
| <b>DECK</b>  |   |                                     |                   |
| <b>Condition:</b>  | P3 - Poor   | <b>Curbs:</b>                       | I - Inapplicable  |
| <b>Hand Rail:</b>  | P - Poor  | <b>Roadway Condition:</b>           | I - Inapplicable  |
| <b>Approach Rail:</b>  | I - Inapplicable  |                                     |                   |
| <b>Comments:</b>   | Exposed concrete deck with gravel approaches. Deck edges are cracked, disintegrated and have heavy efflorescence. Some cracks, spalls and missing sections on concrete hand rail, anchorages are suspect.   |                                     |                   |
| <b>HYDROLOGY</b>   |   |                                     |                   |
| <b>Water Velocity:</b>   | 0.5 m/s   | <b>Ice Problem:</b>                 | N - No Problem    |
| <b>Water Depth:</b>  | .5 m  | <b>Scour Problem:</b>               | K - Known Problem |
| <b>Waterway:</b>   | 01 - Adequate   | <b>Debris Problem:</b>              | N - No Problem    |
| <b>Comments:</b>   | Minor scour under all footings. Footings are on bedrock, no issues.   |                                     |                   |
| <b>REPLACEMENT/REHABILITATION</b>  |   |                                     |                   |
| <b>Next Rehab. Date:</b>   |   | <b>Replacement Year:</b>            |                   |
| <b>Antic. Rehab. Cost:</b>   | \$0   | <b>Replacement Cost:</b>            | \$0               |
| <b>Recommendations:</b>  | Structure is on old road between St. Lawrence and Lawn and is used by cabin owners and hunters. Bridge is suitable for this and can be left in place. Load limits should be posted.   |                                     |                   |
| <b>OBSERVATIONS</b>  |   |                                     |                   |
| <b>Overall Condition:</b>  | P3 - Poor   | <b>Requires Further Inspection:</b> | No                |
| <b>Additional Observations:</b>  | Located on the old road between St. Lawrence and Lawn. Access from R220 1.5km south of St. Lawrence and travel 3.4km on the gravel road. Bridge is also accessible from Lawn (gravel road near old school). Old bridge abutments located upstream (1925). bridge located on unmaintained road, bridge unmaintained, use at own risk. should have load limit posted. |                                     |                   |