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|---|--|---|------------------------------|
|    | GOVERNMENT OF<br>NEWFOUNDLAND<br>AND LABRADOR<br>Department of Transportation and Infrastructure   | <b>BRIDGE INSPECTION REPORT</b><br><b>B08152024-1</b> |                              |
| <b>Date:</b> 8/15/2024  | <b>Inspected By:</b> L. Christensen/D.Burns  | <b>Category:</b> Office - Bridge Office               |                              |
| <b>BRIDGE INFORMATION</b>   |  |   |                              |
| <b>Site:</b>  | 2-018 - LONG POND BROOK BRIDGE   |   |                              |
| <b>Route:</b>   | 210  | <b>Overall Length:</b>                                | 18.3 m                       |
| <b>Year Built:</b>  | 1970   | <b>Est:</b> No  | <b>Overall Width:</b> 13.7 m |
| <b>Year Last Rehab.:</b>  | 1998   | <b>Est:</b> No  | <b>Roadway Width:</b> 12.3 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>   | 03 - Reinforced Concrete Beam/Slab   | <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>  | 04 - Steel Rail  | <u>Span No.:</u>                                      | <u>Length</u>                |
| <b>Roadway Surface:</b>   | 02 - Asphalt   | 1   | 13.2                         |
| <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>   | P3 - Poor  | <b>Bearings:</b>                                      | U - Uninspectable            |
|   |  | <b>Bearing Seat:</b>                                  | U - Uninspectable            |
| <b>Comments:</b>  | Spalling and delamination on all 4 wing walls. Medium to large horizontal and vertical cracks on abutments and crack mapping throughout.   |   |                              |
| <b>SUPERSTRUCTURE</b>   |  |   |                              |
| <b>Condition:</b>   | P1 - Poor  | <b>Expansion Joints:</b>                              | U - Uninspectable            |
| <b>Comments:</b>  | North girder in P1 condition - longitudinal cracking in bottom of girder and severe efflorescence. Concrete deterioration on outside corner showing bottom reinforcement on both sides of outside girder (older structure). Expansion joints paved over. |   |                              |
| <b>DECK</b>   |  |   |                              |

|                                   |  |                                     |                |
|-----------------------------------|--|-------------------------------------|----------------|
| <b>Condition:</b>                 | P - Poor   | <b>Curbs:</b>                       | P3 - Poor      |
| <b>Hand Rail:</b>                 | P - Poor   | <b>Roadway Condition:</b>           | P3 - Poor      |
| <b>Approach Rail:</b>             | P3 - Poor  |                                     |                |
| <b>Comments:</b>                  | Extreme efflorescence in deck soffit in between girder 1 and 2 (north side of bridge). Longitudinal seam between older/newer sections of bridge (between girders 3 and 4) are leaking and causing efflorescence and crack mapping. Small deep potholes in roadway surface. Curb has severe deterioration on fascia. Handrail is in disrepair and not structurally sound. |                                     |                |
| <b>HYDROLOGY</b>                  |  |                                     |                |
| <b>Water Velocity:</b>            | 0 m/s  | <b>Ice Problem:</b>                 | N - No Problem |
| <b>Water Depth:</b>               | 0 m  | <b>Scour Problem:</b>               | N - No Problem |
| <b>Waterway:</b>                  | 01 - Adequate  | <b>Debris Problem:</b>              | N - No Problem |
| <b>Comments:</b>                  |  |                                     |                |
| <b>REPLACEMENT/REHABILITATION</b> |  |                                     |                |
| <b>Next Rehab. Date:</b>          |  | <b>Replacement Year:</b>            | 2026           |
| <b>Antic. Rehab. Cost:</b>        | \$0  | <b>Replacement Cost:</b>            | \$0            |
| <b>Recommendations:</b>           | Bridge should be replaced in the next 2-3 years. Should be aligned with future Sandy Harbour bridge replacement.   |                                     |                |
| <b>OBSERVATIONS</b>               |  |                                     |                |
| <b>Overall Condition:</b>         | P - Poor   | <b>Requires Further Inspection:</b> | Yes            |
| <b>Additional Observations:</b>   | Monitor extreme efflorescence in deck soffit regularly.  |                                     |                |

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.