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|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GOVERNMENT OF<br>NEWFOUNDLAND<br>AND LABRADOR<br>Department of Transportation and Infrastructure |                | <b>BRIDGE INSPECTION REPORT</b><br><b>B02042025-3</b> |  |
| <b>Date:</b> 1/30/2025                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Inspected By:</b> T Upshall / M Button                                                        |                | <b>Category:</b> Eng. - Engineering                   |  |
| <b>BRIDGE INFORMATION</b>                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                |                                                       |  |
| <b>Site:</b>                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1-248 - SHEARSTOWN BROOK BRIDGE - R70                                                            |                |                                                       |  |
| <b>SUBSTRUCTURE</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                |                                                       |  |
| <b>Condition:</b>                                                                 | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Bearings:</b>                                                                                 | F2 - Fair      |                                                       |  |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Bearing Seat:</b>                                                                             | F2 - Fair      |                                                       |  |
| <b>Comments:</b>                                                                  | Assumed condition of buried reinforced abutment footings. Medium to wide vertical/angular/pattern cracks with light efflorescence in abutments and wing walls. Algae growth along abutment faces. Bearings and bearing seat not visible for inspection.                                                                                                                                                                                                                                                                                                                             |                                                                                                  |                |                                                       |  |
| <b>SUPERSTRUCTURE</b>                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                |                                                       |  |
| <b>Condition:</b>                                                                 | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Expansion Joints:</b>                                                                         | P3 - Poor      |                                                       |  |
| <b>Comments:</b>                                                                  | Medium shear cracking in reinforced concrete beams within 1.5 meters from bearing seat P3. Narrow vertical/horizontal cracks in beams and diaphragms. Medium pattern cracking in downstream exterior beam. Medium longitudinal and transverse cracks with light efflorescence in deck soffit. Light rusting around formwork ties left in beams. Expansion joints not visible however leaking efflorescence onto abutments P3.                                                                                                                                                       |                                                                                                  |                |                                                       |  |
| <b>DECK</b>                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                |                                                       |  |
| <b>Condition:</b>                                                                 | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Curbs:</b>                                                                                    | F2 - Fair      |                                                       |  |
| <b>Hand Rail:</b>                                                                 | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Roadway Condition:</b>                                                                        | P3 - Poor      |                                                       |  |
| <b>Approach Rail:</b>                                                             | F1 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                  |                |                                                       |  |
| <b>Comments:</b>                                                                  | *Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. Severe potholes and loss of bond between asphalt layers on deck and approaches P3. Wide horizontal cracks and narrow pattern cracks in fascia. Medium transverse cracks with light efflorescence in soffit overhang. No hazard markers or guiderail for structures installed. Standard guiderail attached to end blocks. Medium abrasion to curbs. Narrow vertical/transverse cracks in sidewalk. Minor damage to buried ends on approach rail. Narrow pattern cracking in end blocks. |                                                                                                  |                |                                                       |  |
| <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>                                                          | 2026                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Replacement Year:</b>                                                                         | 2045           |                                                       |  |
| <b>Antic. Rehab. Cost:</b>                                                        | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Replacement Cost:</b>                                                                         | \$0            |                                                       |  |
| <b>Recommendations:</b>                                                           | Install waterproofing and asphalt over deck and approaches.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                  |                |                                                       |  |
| <b>OBSERVATIONS</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                |                                                       |  |
| <b>Overall Condition:</b>                                                         | P3 - Poor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Requires Further Inspection:</b>                                                              | Yes            |                                                       |  |
| <b>Additional Observations:</b>                                                   | Town utilities attached to structure downstream. Pipe in good condition with no observed defects. Bridge office should investigate shear cracking in reinforced beams.                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |                |                                                       |  |