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|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | GOVERNMENT OF<br>NEWFOUNDLAND<br>AND LABRADOR<br>Department of Transportation and Infrastructure |                   | <b>BRIDGE INSPECTION REPORT</b><br><b>B02112025-5</b> |  |
| Date: 2/6/2025                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Inspected By: T Upshall / M Button                                                               |                   | Category: Eng. - Engineering                          |  |
| <b>BRIDGE INFORMATION</b>                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                   |                                                       |  |
| Site:                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1-369 - NEW MELBOURNE BRIDGE - R80                                                               |                   |                                                       |  |
| <b>SUBSTRUCTURE</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                   |                                                       |  |
| Condition:                                                                        | P3 - Poor                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Bearings:                                                                                        | I - Inapplicable  |                                                       |  |
|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Bearing Seat:                                                                                    | I - Inapplicable  |                                                       |  |
| Comments:                                                                         | Structure built in two sections with construction joint in the center. It appears the footings have been rehabbed due to previous scour issues. Unable to check for scour during inspection as ice was present. Severe erosion and honeycombing in original footings. Wide vertical crack in SW wingwall.                                                                                                                                                                     |                                                                                                  |                   |                                                       |  |
| <b>SUPERSTRUCTURE</b>                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                   |                                                       |  |
| Condition:                                                                        | F1 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Expansion Joints:                                                                                | I - Inapplicable  |                                                       |  |
| Comments:                                                                         | Large boulders and honeycombing are visible in deck soffit. Medium vertical crack with severe honeycombing and erosion to NW corner of frame leg. Construction joint in soffit is deteriorating from leakage causing the joint to open slightly. Joint between frame legs and footings also deteriorating. Narrow vertical cracks with light efflorescence in faces of frame legs. Narrow transverse/longitudinal cracks in south deck soffit with deposits of efflorescence. |                                                                                                  |                   |                                                       |  |
| <b>DECK</b>                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                   |                                                       |  |
| Condition:                                                                        | P3 - Poor                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Curbs:                                                                                           | U - Uninspectable |                                                       |  |
| Hand Rail:                                                                        | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Roadway Condition:                                                                               | F2 - Fair         |                                                       |  |
| Approach Rail:                                                                    | F2 - Fair                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |                   |                                                       |  |
| Comments:                                                                         | *Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. Very severe spalling, delamination, and disintegration to upstream deck fascia that continue into frame legs P3. Structure does not have end blocks. Hazard marker missing on the NW corner. Approach/exit guiderail in fair condition. Route 80 recently paved so no observed defects to asphalt.                                                                               |                                                                                                  |                   |                                                       |  |
| <b>HYDROLOGY</b>                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                   |                                                       |  |
| Water Velocity:                                                                   | 0 m/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ice Problem:                                                                                     | N - No Problem    |                                                       |  |
| Water Depth:                                                                      | 0 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Scour Problem:                                                                                   | K - Known Problem |                                                       |  |
| Waterway:                                                                         | 01 - Adequate                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Debris Problem:                                                                                  | N - No Problem    |                                                       |  |
| Comments:                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                   |                                                       |  |
| <b>REPLACEMENT/REHABILITATION</b>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                   |                                                       |  |
| Next Rehab. Date:                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Replacement Year:                                                                                | 2030              |                                                       |  |
| Antic. Rehab. Cost:                                                               | \$0                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Replacement Cost:                                                                                | \$0               |                                                       |  |
| Recommendations:                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                   |                                                       |  |
| <b>OBSERVATIONS</b>                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                   |                                                       |  |
| Overall Condition:                                                                | P3 - Poor                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Requires Further Inspection:                                                                     | No                |                                                       |  |
| Additional Observations:                                                          | Soffit and frame legs remain in fair condition. Substructure certainly showing signs of aging and deterioration.                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |                   |                                                       |  |