GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

# BRIDGE INSPECTION REPORT
# B03232026-2

**Date:** 3/19/2026 **Inspected By:** T Upshall / M Button **Category:** Eng. - Engineering

## BRIDGE INFORMATION

**Site:** 1-391 - RUBY LINE OVERPASS WEST - R2

## SUBSTRUCTURE

**Condition:** P3 - Poor
**Bearings:** I - Inapplicable
**Bearing Seat:** I - Inapplicable

**Comments:** Very severe erosion/deterioration with exposed reinforcement to exterior corner of SW abutment. Hole ~1mx1m and varies in depth. There is significant section loss to the back of abutment undermining the concrete deck. Water runoff is washing backfill material through opening causing erosion issues to embankment beneath structure. Remaining SE, NE, and NW exterior abutment corners in fair condition with light spalling/disintegration. SE corner has vertical exposed reinforcement. NW wingwall appears to be migrating towards embankment and no longer flush with abutment. Numerous medium and wide vertical cracks in piers with light scaling to exterior piers. Light scaling to face of wing walls. West abutment face has rebar staining coming through a crack. Possible water route from above.

## SUPERSTRUCTURE

**Condition:** P3 - Poor
**Expansion Joints:** I - Inapplicable

**Comments:** Severe spalling and delamination exposing 35M reinforcement along north fascia/soffit corner in multiple locations. One is at mid-span and ~4.5m along and the other is a 1/4 span from the west abutment and ~2.0 m long. Numerous longitudinal hairline cracks in soffit between east piers. There are areas of corrosion staining, light spalling and delamination throughout the entire soffit, with some areas having exposed reinforcement.

## DECK

**Condition:** P3 - Poor
**Curbs:** P1 - Poor
**Hand Rail:** F1 - Fair
**Roadway Condition:** P3 - Poor
**Approach Rail:** P1 - Poor

**Comments:** *Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. Very severe spalling and disintegration to four isolated areas of north curb along TCH. Reinforcement completely exposed with light corrosion. Approach/exit rail consist of standard guiderail attached to barrier wall. Structure should have guiderail structures installed. Extensive severe spalling on north barrier wall with exposed reinforcement. All spalls appear to be under the handrail embedments. South barrier wall has a wide horizontal crack along top of barrier and extensive light spalling with corrosion surface staining throughout. Sand/salt build up along curbs. Medium abrasions along north and south curbs. Asphalt driving surface contains severe potholes, narrow alligator cracking, and medium raveling. Most potholes have already been patched. South & north exterior barrier fascia contain medium scaling/delamination and wide horizontal/vertical cracks with efflorescence. Aluminum handrail along top of barrier wall is in good condition. Missing hazard markers.

## HYDROLOGY

**Water Velocity:** n/a **m/s**
**Ice Problem:** NA - Not Applicable
**Water Depth:** n/a **m**
**Scour Problem:** NA - Not Applicable
**Waterway:** 03 - Not Applicable
**Debris Problem:** NA - Not Applicable
**Comments:**

## REPLACEMENT/REHABILITATION

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|---|---|---|---|
| **Next Rehab. Date:** | | **Replacement Year:** | |
| **Antic. Rehab. Cost:** | $ | **Replacement Cost:** | $ |
| **Recommendations:** | Repair all concrete defects including four abutment corners. Install approach/exit guiderail structures with hazard markers. Install netting on top of retaining wall to protect embankment material from washing onto Richard Nolan Drive. Waterproof bridge deck and place new asphalt surface. Remove sand/salt from curbs. | | |

**OBSERVATIONS**

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|---|---|---|---|
| **Overall Condition:** | P3 - Poor | **Requires Further Inspection:** | No |
| **Additional Observations:** | Spalling concrete along exterior soffit should be scaled to reducing falling debris onto Richard Nolan Drive. | | |