

GOVERNMENT OF **NEWFOUNDLAND** AND LABRADOR Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT B12102021-5

Date: 10/30/2021 Inspected By: Mike Button

BRIDGE INFORMATION

Site: 5-043 - CACHE RIVER BRIDGE

Route: 500

1992 Year Built: Est: No

Year Last Rehab.: Est: No

Region: **LABRADOR**

Jurisdiction: Provincial

Type of Structure: 08 - Steel Bridge

04 - Over Non-Navigable Waters Purpose of Structure:

01 - Aluminum Rail Type of Handrail: 01 - Concrete Roadway Surface:

01 - Good Alignment Vertical: 01 - Good Alignment Horizontal:

No Restrictions:

Category: Office - Bridge Office

51.8 m **Overall Length:**

Overall Width: 11.8 m 10.8 m

Roadway Width: Sidewalk Width: 0 **m**

Clearance to R.D. or

N.W.L.:

Max Depth of N.W.L.:

0.9 m

3.6 m

Spans:

Span No.: Length Span No.: Length 1 40 2 0 5 0 3 0 6 0

BRIDGE PHOTOS







SUBSTRUCTURE

G - Good G - Good Condition: Bearings:

> G - Good **Bearing Seat:**

- Abutments, wingwalls, bearings and bearing seats in good condition. Comments:

SUPERSTRUCTURE

G - Good F1 - Fair Condition: **Expansion Joints:**

- Expansion joint seals possibly split and gap is full of gravel. - Exterior curb/soffit and bottom of deck concrete in Comments:

good condition. - Six girders and their braces have light to moderate surface corrosion. Bearing end of girders and

braces painted with small areas of flaking paint and light corrosion, G.

DECK

Condition: G - Good Curbs: G - Good Hand Rail: F1 - Fair **Roadway Condition:** F1 - Fair

Approach Rail: F1 - Fair

Comments: - Approach/exit rails have some damage rail sections with some damaged/split posts, all bolts missing (never

drilled) to connect rails to end blocks, all hazard markers damaged or missing, and have collision dampening posts. - End blocks in fair condition with light map cracking. - Asphalt in fair condition overall, moderate cracking/gap at the expansion joint termination, and a wide transverse crack at the entrance to each approach slab. No asphalt over structure. - Deck concrete in good condition with aggregate colors exposed throughout. No deck drains. - Curbs in good condition, chaulking starting to wear. - Structure handrail has scrapes and dents

throughout, F1. One post severely twisted and bent, separated from the rail, P3.

HYDROLOGY

1 m/s N - No Problem Water Velocity: Ice Problem:

N - No Problem Water Depth: 1 m Scour Problem: 01 - Adequate **Debris Problem:** N - No Problem Waterway:

- Abutment footings out of water. Fair rip-rap placement along footings with some loss into the channel on the Comments:

northeast corner.

REPLACEMENT/REHABILITATION

2024 2060 Next Rehab. Date: Replacement Year:

\$15,000 \$1,800,000 Antic. Rehab. Cost: Replacement Cost:

- 2022 - Replace hazard markers. Clean expansion joint and replace seals if required. Seal transverse cracks at Recommendations:

the entrance to each approach slab. - 2024 - Connect guide rail to end blocks. Rail has been extended and end block has the blockout to accommodate but was never secured in place. Replace one handrail post. Replace curb

chaulking.

OBSERVATIONS

Overall Condition: G - Good **Requires Further** No

Inspection:

Additional Observations: - Hazards, fast moving traffic, and moderate steep slopes.

LEGEND:

Condition Definitions:

1 - *Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good.

F1 - Fair. P3 - Poor. P1 - Poor. P - Poor.

C - Unsafe (Closed to Public). U - Uninspectable.

Problem Definitions: N - No Problem. P - Possible Problem. K - Known Problem. NA - Not Applicable.

Category Definitions: Maint. - Maintenance. Eng. - Engineering. Office - Bridge Office.

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

Any nem wnich inspector reels snould be accumented by photograph

All trems noted above as being 93, P1, P1 or C

Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021