

GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT B04282021-19

Date: 4/28/2021 Inspected By: Butler Category: Eng. - Engineering

BRIDGE INFORMATION

Site: 2-057 - MIDDLE BROOK BRIDGE

Route: 233-13

 Year Built:
 1972
 Est: No

 Year Last Rehab.:
 1998
 Est: No

Region: CENTRAL EAST

Jurisdiction: Provincial

Type of Structure: 01 - AASH to Girder

Purpose of Structure: 04 - Over Non-Navigable Waters

Type of Handrail: 01 - Aluminum Rail

Roadway Surface: 02 - Asphalt

Alignment Vertical: 01 - Good

Alignment Horizontal: 01 - Good

Restrictions: No

Catagory Eng. Engineering

Overall Length: 35 m
Overall Width: 12 m

Roadway Width: 9.7 m Sidewalk Width: 1.2 m

Clearance to R.D. or

N.W.L.:

Max Depth of N.W.L.:

Spans:

 Span No.:
 Length
 Span No.:
 Length

 1
 24
 4
 0

 2
 0
 5
 0

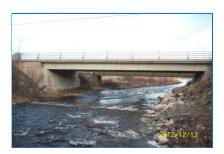
 3
 0
 6
 0

4 m

1 m

BRIDGE PHOTOS





SUBSTRUCTURE

Condition: F2 - Fair **Bearings:** F2 - Fair

Bearing Seat: F2 - Fair

Comments: Concrete abutments and wing walls. Light to medium cracking and some scaling throughout. Elastomeric

bearings.

SUPERSTRUCTURE

Condition: F2 - Fair **Expansion Joints:** F2 - Fair

Comments: Six AASHTO girders. Some spalling of girder ends. Asphalt plug joints. Dymeric through curbs poor condition.

DECK

 Condition:
 F2 - Fair
 Curbs:
 F2 - Fair

Hand Rail: F2 - Fair **Roadway Condition:** F2 - Fair

Approach Rail: F2 - Fair Asphalt wearing surface has large potholes, raveling and exposed concrete deck, some ACP patchwork has been Comments: done. Light cracking and scaling of curb and sidewalk, sidewalk has no ramps. Soffit has light cracking with several spalls. Aluminum bridge rail with concrete end blocks. Right abutment 2 has impact damage. Object marker abutment 2 left side is missing. Bottom of deck spalling in multiple places exposing rebar in places. The concrete curb is failing where it was poured during joint installation. **HYDROLOGY** 1 m/s N - No Problem Water Velocity: Ice Problem: Water Depth: .5 m Scour Problem: N - No Problem Waterway: 01 - Adequate **Debris Problem:** N - No Problem Comments: REPLACEMENT/REHABILITATION Next Rehab. Date: Replacement Year: \$0 Antic. Rehab. Cost: **Replacement Cost:** Repair asphalt wearing surface with repave. Repair dymeric at curbs. Replace hazard marker abutment 2 left Recommendations: side. monitor and repair spalling deck bottom, replace concrete around expansion joints. **OBSERVATIONS** F2 - Fair No Requires Further **Overall Condition:** Inspection: **Additional Observations:** LEGEND: Problem Definitions: N - No Problem. P - Possible Problem. K - Known Problem. NA - Not Applicable. Category Definitions: Maint. - Maintenance. Eng. - Engineering. Office - Bridge Office. Condition Definitions: 1 - "Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. F2 - Fair. F1 - Fair. P3 - Poor. P1 - Poor. P - Poor. C - Unsafe (Closed to Public). U - Uninspectable. I - Inapplicable. PHOTO GUIDELINES: Inspection Photos: Please provide photos using guidelines below:

Any trem which inspector reels should be accumented by photograph

All tems noted above as being P3, 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.