



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B08082024-2

Date: 8/2/2024

Inspected By: D. Burns/B. Grandy

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-084 - MARYSTOWN SOUTH BRIDGE			Overall Length:	26 m
Route:	220-10			Overall Width:	11.5 m
Year Built:	1984	Est: No		Roadway Width:	9 m
Year Last Rehab.:		Est: No		Sidewalk Width:	0.9 m
Region:	CENTRAL EAST			Clearance to R.D. or N.W.L.:	1.5 m
Jurisdiction:	Provincial			Max Depth of N.W.L.:	2 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab			Spans:	
Purpose of Structure:	03 - Over Navigable Waters				
Type of Handrail:	01 - Aluminum Rail			<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt			1	11
Alignment Vertical:	02 - Adequate			2	0
Alignment Horizontal:	01 - Good			3	0
Restrictions:	No			<u>Span No.:</u>	<u>Length</u>
				4	0
				5	0
				6	0

BRIDGE PHOTOS





SUBSTRUCTURE

Condition:	F2 - Fair	Bearings:	U - Uninspectable
		Bearing Seat:	U - Uninspectable
Comments:	Both abutments and wingwalls in fair condition with minor cracking. Both abutments stained green as high as the cold joint from construction with seaweed leaching on to the bottom of abutment 1. All wingwalls have noticeable cold joint with seeping efflorescence. Light scouring of abutment 1. Bearings and bearing seats uninspectable due to leftover polystyrene.		

SUPERSTRUCTURE

Condition:	F2 - Fair	Expansion Joints:	P1 - Poor
Comments:	Deck soffit has various areas of cracking, seeping efflorescence, and honeycombing. Some areas of minor spalling on concrete beams 1 and 6 near abutment 2. Expansion joints are leaking and causing damage to right side deck overhang and substructures.		

DECK

Condition:	F1 - Fair	Curbs:	P3 - Poor
Hand Rail:	P3 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	F1 - Fair		
Comments:	Deck has areas of large potholes that have been patched that are now deteriorating again and are usually in places where cracking and efflorescence is visible on deck soffit. Curb has locations of deterioration, especially near expansion joints(exterior curb). 45 degree drip bead; Large cracking near said drip bead on left side. Approach rail has improper rail post spacing. No hazard markers. Sand and salt build up on deck. Abutment 1 right wingwall bridge rail has recent vehicle impact and will likely be repaired upon the next inspection of this structure.		

HYDROLOGY

Water Velocity:	Tidal m/s	Ice Problem:	N - No Problem
Water Depth:	Tidal m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Minor scouring of abutment 1.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2026	Replacement Year:	2050
Antic. Rehab. Cost:	\$100,000	Replacement Cost:	\$2,500,000
Recommendations:	Upgrade Guiderail post spacing. Implement new hazard markers. Replace expansion joints and section of curbs. Patchwork of sidewalk/curb. Consider waterproofing and paving. Repair sections of leaking deck soffit.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
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Additional Observations: Bridge rated F1 due to concerns of leaking deck soffit, and expansion joint conditions potentially deteriorating girder ends and bearings(uninspectable).

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.