



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

**BRIDGE INSPECTION REPORT
B01302020-5**

Date: 1/30/2020

Inspected By: Alex Ford

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-003 - MARYSTOWN HARBOUR (CANNING) BRIDGE		
Route:	220A	Overall Length:	121.9 m
Year Built:	1957	Est: No	Overall Width: 8.5 m
Year Last Rehab.:	2010	Est: No	Roadway Width: 6.2 m
Region:	CENTRAL EAST	Sidewalk Width:	1.3 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2 m
Type of Structure:	08 - Steel Bridge	Max Depth of N.W.L.:	10 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	Span No.:	Length
Roadway Surface:	01 - Concrete	1	24.4
Alignment Vertical:	01 - Good	2	30.5
Alignment Horizontal:	01 - Good	3	24.4
Restrictions:	No	Span No.:	Length
		4	19.8
		5	19.8
		6	0

BRIDGE PHOTOS





SUBSTRUCTURE

Condition:	P3 - Poor	Bearings:	P3 - Poor
		Bearing Seat:	F2 - Fair
Comments:	Concrete abutments, piers and wingwalls. Moderate to severe cracking with efflorescence, some delaminations and some severe disintegration over all components. 3 fixed piers and one pier (#4) was previously for the rotating bridge section but has been fixed for many years. Some bearings are heavily rusted with delamination and section loss. Widened section left side abutment sections outside old wingwalls are significantly undermined at both ends.		

SUPERSTRUCTURE

Condition:	P3 - Poor	Expansion Joints:	F2 - Fair
Comments:	2 steel girders with steel cross bracing, moderate rusting of all parts, some heavy rusting in bottom flange connections. Significant backwall damage from previously leaking expansion joints, cracking, efflorescence, delamination, disintegration.		

DECK

Condition:	P3 - Poor	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	Exposed concrete deck, 3-4 potholes with exposed rebar, significant weathering/abrasion. 4 rail aluminum hand rail with concrete end blocks, some impact damage to end blocks and hand rail - minor. Curbs have light cracking, disintegration around curb joint sections - fascia and soffit from previous leaking. Roadway is too narrow. Approach 1 left and right rail missing posts closest to the endblocks. Asphalt is potholed at the concrete/joint interface. Deck drains and approaches have a buildup of sand.		

HYDROLOGY

Water Velocity:	m/s	Ice Problem:	N - No Problem
Water Depth:	m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Tidal. Depth and Velocity vary. No known scour issues, inspection requires diving.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Rehab structure. Latex repairs (extensive), deck repairs, girder repairs, hand rail repairs. Full inspection of girders and piers to determine if replacement is required. Clean drains and sand from approaches.		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	Several utilities attached to bridge.		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- Any item which inspector feels should be documented by photograph
- All items noted above as being P3, P1, P, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS

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