

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09102021-14	
Date: 2/27/2020	Inspected By: Chris Lyver	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-170 - HODGE RIVER BRIDGE		
Route:	81	Overall Length:	23 m
Year Built:	1990	Est: No	Overall Width: 10 m
Year Last Rehab.:		Est: No	Roadway Width: 7.7 m
Region:	AVALON PENINSULA	Sidewalk Width:	1.5 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.7 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	0.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters		
Type of Handrail:	01 - Aluminum Rail	Spans:	
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	<u>Span No.:</u>	<u>Length</u>
Alignment Horizontal:	02 - Adequate	<u>Span No.:</u>	<u>Length</u>
Restrictions:	No	1	13
		2	0
		3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- Assumed condition of buried/submerged reinf. conc. frame leg footings.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	I - Inapplicable
Comments:	- Narrow vert. cracks in faces of frame legs. - Narrow horiz./vert. cracks in U/S wingwalls. - Extensive narrow/medium alligator cracking in D/S wings (A.A.R)? - Narrow/medium horiz./vert./alligator cracks and impact spalls to endblocks		
DECK			
Condition:	F2 - Fair	Curbs:	F1 - Fair

Hand Rail:	P3 - Poor	Roadway Condition:	F1 - Fair
Approach Rail:	P1 - Poor		
Comments:	- Narrow long. cracks with light efflor. deposits in deck soffit. - Narrow vert./trans. cracks in curb surfaces and interior fascia. - Medium/wide horiz./alligator cracks in exterior curb fascias (A.R.R.) - App./exit guiderail remains in poor condition - Scrapes, dents, endcaps missing on alumn. handrails (impact damage at NE endpost and rails)		

HYDROLOGY

Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem
Water Depth:	0.8 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Slope erosion continues along wingwalls - Asphalt and slope erosion continues at NE/SE ends of structure. - Rip-rap at NE corner of structure migrating into channel.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2040
Antic. Rehab. Cost:	\$100	Replacement Cost:	\$850
Recommendations:	- Repair all concrete defects - Re-surface deck and approaches - Repair alumn. handrails - Install new app./exit guiderail c/s regulation haz. markers - Repair asphalt/slope erosion and place additional rip-rap at NE end of structure		

OBSERVATIONS

Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	P1 - app. rail and surface P3 - Handrails F1 - Remainder Unchanged from 2011 inspection		

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 sees 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