

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B05312018-5	
Date: 2/22/2018	Inspected By: Chris Lyver	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-043 - BECKFORD RIVER BRIDGE, N HBR-BRANCH		
Route:	92	Overall Length:	59.4 m
Year Built:	1974	Est: No	Overall Width: 9.6 m
Year Last Rehab.:		Est: No	Roadway Width: 8 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.8 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.6 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	1 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	01 - Concrete	1	47
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	- Assumed condition of buried reinf. concrete north abut. footing. - Narrow horiz./vert. cracks in partially exposed south abutment, footing. - Numerous medium/wide map/alligator cracks with medium efflor. deposits in 4 wingwalls (A.A.R.)? - Medium vert. cracks in abutment faces. - Wide horiz. cracks along tops of wingwalls under curbs.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	- Narrow pattern cracks at ends and along bottom flanges of both exterior girders. - Const. joints continue to open up at girder stressing box-outs. - Medium/wide, vert./horiz. cracks with light rusting to exposed reinf in diaphragms. - Narrow long. cracks in expansion joint dams with medium abrasion.		
DECK			

Condition:	F1 - Fair	Curbs:	F1 - Fair
Hand Rail:	P - Poor	Roadway Condition:	F1 - Fair
Approach Rail:	F2 - Fair		
Comments:	- Handrail - P (NE), F1 (remainder). - Some concrete handrails and end blocks repaired. Spalling to tops of some end blocks. - Medium horiz. cracks and medium spalling to concrete handrails and end blocks. - Wide horiz./vert. cracks in deck/curb fascia. Narrow trans. cracks in deck soffit. - Top concrete handrail missing at NE end and east side D/S center. - Very wide horiz./vert. cracks in deck/curb fascia at exposed girder locations. - Numerous narrow long./trans. cracks in exposed deck surface. - Medium abrasion to exposed deck. Small potholes in asphalt at approaches.		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.4 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Some hydraulic rip-rap at NW corner of structure migrating into channel. - Rip-rap at SW corner of structure in good condition.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2018	Replacement Year:	2030
Antic. Rehab. Cost:	\$75	Replacement Cost:	\$2500
Recommendations:	- Repair all concrete defects. - Repair concrete handrail. - Re-surface approaches. - Clean out exp. joint seals (maint).		

OBSERVATIONS

Overall Condition:	P - Poor	Requires Further Inspection:	No
Additional Observations:	- P (concrete handrails). - F2 (rehab sections). - F1 (remainder). - Unchanged from '04/'07 inspections, except delete guiderail/rip-rap notes.		

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