

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B05132015-7	
Date: 2/19/2015	Inspected By: Chris Lyver	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-026 - RENEWS HARBOUR BRIDGE		
Route:		Overall Length:	29.9 m
Year Built:	1968	Est: No	Overall Width: 8.8 m
Year Last Rehab.:		Est: No	Roadway Width: 7 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.75 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	0 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	22.7
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P1 - Poor	Bearings:	F1 - Fair
		Bearing Seat:	P - Poor
Comments:	- Assumed condition of buried/submerged reinforced concrete footings - Very severe delamination/spalling/disintegration with medium corrosion to exposed reinforcement on 4 abutment corners (possible AAR) - Severe delamination/spalling to exterior faces of NW/SW ballast wall - Numerous alligator cracks in abutment faces - Wide horizontal cracks at construction joints between wingwall tops and curb bottoms		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P1 - Poor
Comments:	- Both expansion joints are leaking. Joints are paved over on deck - No chaulking in expansion joint gaps in curbs - Narrow angular cracks in ends of exterior girders - Light spalling to girder webs under downspouts		
DECK			

Condition:	F1 - Fair	Curbs:	P1 - Poor
Hand Rail:	P3 - Poor	Roadway Condition:	P1 - Poor
Approach Rail:	I - Inapplicable		
Comments:	- All deck drain downspouts rusted off - Severe delamination/spalling/disintegration with medium corrosion to exposed reinforcement to exterior curb fascias (possible AAR) - Wide horiz. cracks between exterior deck/curb fascias construction joints - Narrow long cracks with light efflor deposits in deck soffits - Wide angular cracks with medium spalling to concrete handrails - Top of handrail missing at NE end. NE end lock has top missing - Road settlement at expansion joint - No hazard markers. All app/exit guiderail in poor to very poor condition		

HYDROLOGY

Water Velocity:	Tidal m/s	Ice Problem:	P - Possible Problem
Water Depth:	Tidal m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Some ice build up under structure - Medium to severe slope erosion at 4 corners of structure - Some rip-rap migrating into channel at 4 corners of structure		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2015	Replacement Year:	2015
Antic. Rehab. Cost:	\$300	Replacement Cost:	\$850
Recommendations:	- Re-had or replace structure ASAP. Bridge office should re-inspect - In the interim, replace rail, install hazard markers, fix asphalt on deck and place rock fill on slopes		

OBSERVATIONS

Overall Condition:	P - Poor	Requires Further Inspection:	Yes
Additional Observations:	- Bridge office should re-inspect bearing seats, abut. corners and deck fascias P: SW/SE bearing seats P1: Curb and deck fascias P3: Remainder - Unchanged from previous inspection in 2012 * Structure should be rehab'd or replaced very soon.		

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