

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B06282019-5</b>	
<b>Date:</b> 6/28/2019	<b>Inspected By:</b> Hunt R	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	1-253 - BRAZIL'S HILL BRIDGE #2, SPANIARDS B		
<b>Route:</b>	70	<b>Overall Length:</b>	8.8 m
<b>Year Built:</b>	1965	<b>Est: Yes</b>	<b>Overall Width:</b> 28.8 m
<b>Year Last Rehab.:</b>		<b>Est: No</b>	<b>Roadway Width:</b> 22 m
<b>Region:</b>	AVALON PENINSULA	<b>Sidewalk Width:</b>	0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	2 m
<b>Type of Structure:</b>	04 - Rigid Frame	<b>Max Depth of N.W.L.:</b>	0.3 m
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
<b>Roadway Surface:</b>	02 - Asphalt	1	6.4
<b>Alignment Vertical:</b>	01 - Good	2	0
<b>Alignment Horizontal:</b>	01 - Good	3	0
<b>Restrictions:</b>	No	<b>Span No.:</b>	<b>Length</b>
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	P3 - Poor	<b>Bearings:</b>	I - Inapplicable
		<b>Bearing Seat:</b>	I - Inapplicable
<b>Comments:</b>	Medium erosion to faces, tops and ends of upstream footing. Severe scour under downstream retaining wall footing. Retaining wall runs alongside private property.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	P3 - Poor	<b>Expansion Joints:</b>	I - Inapplicable
<b>Comments:</b>	Severe spalling with efflor deposits and medium corrosion to exposed reinforced in frame legs at vertical construction joints between original structure and downstream extensions. Narrow vertical cracks in faces of frame legs and wingwalls retaining wall. Medium erosion at bases of upstream frame legs.		
<b>DECK</b>			
<b>Condition:</b>	P3 - Poor	<b>Curbs:</b>	P3 - Poor

<b>Hand Rail:</b>	P3 - Poor	<b>Roadway Condition:</b>	P3 - Poor
<b>Approach Rail:</b>	G - Good		
<b>Comments:</b>	Severe spalling with efflor deposits and medium severe corrosion to exposed reinforcement in deck soffit at construction joint between original structure and extensions. Medium delamination and spalling to upstream deck soffit severe spalling disintegration to tops of extension faces and curbs. Medium spalling/ wide vertical horizontal cracks with medium corrosion to exposed reinforcement on upstream concrete handrail. Downstream concrete handrail missing. New guiderail installed between structure 1 and structure 2.		

**HYDROLOGY**

<b>Water Velocity:</b>	0.5 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.3 m	<b>Scour Problem:</b>	K - Known Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>			

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2020	<b>Replacement Year:</b>	2030
<b>Antic. Rehab. Cost:</b>	\$150	<b>Replacement Cost:</b>	\$600
<b>Recommendations:</b>	Repair scour areas at construction joints. Fix slope erosion. Install approach and exit rail and hazard markers. Bridge office should reinspect scour under downstream retaining wall and construction joints.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F1 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>			

**LEGEND:**

<b>Condition Definitions:</b>			<b>Problem Definitions:</b>	<b>Category Definitions:</b>
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**