

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B09212021-4</b>	
<b>Date:</b> 2/15/2019	<b>Inspected By:</b> Hunt R	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	1-270 - LEES BROOK BRIDGE		
<b>Route:</b>		<b>Overall Length:</b>	9.4 m
<b>Year Built:</b>	1940	<b>Est:</b> Yes	<b>Overall Width:</b> 11.8 m
<b>Year Last Rehab.:</b>	1965	<b>Est:</b> Yes	<b>Roadway Width:</b> 9.7 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> 2.3 m
<b>Type of Structure:</b>	04 - Rigid Frame		<b>Max Depth of N.W.L.:</b> 0.2 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> <u>Span No.:</u> <u>Length</u>
<b>Roadway Surface:</b>	02 - Asphalt		1            4.6            4            0
<b>Alignment Vertical:</b>	01 - Good		2            0                5            0
<b>Alignment Horizontal:</b>	02 - Adequate		3            0                6            0
<b>Restrictions:</b>	No		
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	I - Inapplicable
		<b>Bearing Seat:</b>	I - Inapplicable
<b>Comments:</b>	- Assumed condition of submerged re-inf. concrete frame leg footings - Original structure extended approx. 2.0m upstream and 4.0m downstream - Light scour/erosion still exits at top of footing and bottom of frame leg at northwest corners		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Expansion Joints:</b>	I - Inapplicable
<b>Comments:</b>	- Medium horizontal/vertical cracks with light efflor deposits in face of frame legs and wingwalls - Construction joints between original frame legs (arch) and extension opening up with light efflor deposits		
<b>DECK</b>			
<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	F1 - Fair

<b>Hand Rail:</b>	P3 - Poor	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	- Narrow-medium longitudinal cracks with light/med. efflor deposits in original deck soffit - Narrow longitudinal cracks with medium efflor deposits in deck soffit on upstream and downstream extension, especially around const. joints - Some longit. cracks in deck curbs - Medium horiz/vert cracks and spalling/delamination and exposed rebar in concrete handrails - Approach and exit guiderail with hazard markers on D/S end only		

**HYDROLOGY**

<b>Water Velocity:</b>	0.5 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.4 m	<b>Scour Problem:</b>	K - Known Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Some slight erosion in shoulders on downstream corners of structures		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2020	<b>Replacement Year:</b>	2030
<b>Antic. Rehab. Cost:</b>	\$100	<b>Replacement Cost:</b>	\$500
<b>Recommendations:</b>	- Concrete handrails to be fixed with U/S curb, match route to road surface - Install hazard markers on U/S corners - Monitor scour at bottom of west frame leg		

**OBSERVATIONS**

<b>Overall Condition:</b>	P3 - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	P3 concrete handrail F1 remainder		

**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**