

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B05122021-3</b>	
<b>Date:</b> 5/12/2021	<b>Inspected By:</b> Butler	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	2-056 - SOUTHWEST BROOK BRIDGE #2		
<b>Route:</b>	233	<b>Overall Length:</b>	51.8 m
<b>Year Built:</b>	1991	<b>Est:</b> No	<b>Overall Width:</b> 10 m
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 8.3 m
<b>Region:</b>	CENTRAL EAST	<b>Sidewalk Width:</b>	0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	2.5 m
<b>Type of Structure:</b>	01 - AASH to Girder	<b>Max Depth of N.W.L.:</b>	1 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
<b>Roadway Surface:</b>	02 - Asphalt	1	40
<b>Alignment Vertical:</b>	02 - Adequate	2	0
<b>Alignment Horizontal:</b>	02 - Adequate	3	0
<b>Restrictions:</b>	No	6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	Concrete abutments and wing walls. Abutments have some light to moderate cracking, Abutment 2 notably worse. Medium scaling of abutment walls in tidal zone. Wing walls have light cracking and scaling with some efflorescence. Elastomeric bearing pads. efflorescence between wingwall and curb join indicates water seepage.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	F2 - Fair
<b>Comments:</b>	Five CPCl girders. Expansion joint one leaking. Expansion joints have dam and armour damage and are leaking. Dymeric at all curb locations poor.		
<b>DECK</b>			
<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair

<b>Hand Rail:</b>	P - Poor	<b>Roadway Condition:</b>	F2 - Fair
<b>Approach Rail:</b>	P - Poor		
<b>Comments:</b>	Asphalt wearing surface with pothole forming on right side. Curbs have light scaling with some disintegration near expansion joint two and one. Curbs have cracks and spalls at expansion joints. Aluminum bridge rail with concrete end blocks. End blocks have light to medium cracking and impact spalls. No modified end shoe attachments, Guide rail not attached to end block abutment one. Catch basin abutment one right side plugged. Approach rail has rotted and improperly installed posts requiring replacement. Approach 1 on the right has the second bridge rail post missing and third one cracked and severe damage to bridge rail due to impact with bridge rail. several damaged areas on the left side as well.		

**HYDROLOGY**

<b>Water Velocity:</b>	1 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	.5-1.0 m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Tidal zone		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>		<b>Replacement Year:</b>	
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	Clean catch basin. Repair handrail. Repair approach rail. replace expansion joints.		

**OBSERVATIONS**

<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>			

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