

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B09162022-6</b>	
<b>Date:</b> 7/29/2022	<b>Inspected By:</b> M Button	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	4-107 - FEEDER BROOK BRIDGE SOUTH		
<b>Route:</b>	431	<b>Overall Length:</b>	21.5 m
<b>Year Built:</b>	1994	<b>Est:</b> No	<b>Overall Width:</b> 6.1 m
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 4.5 m
<b>Region:</b>	WEST COAST/NORTHERN	<b>Sidewalk Width:</b>	1.2 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	2.4 m
<b>Type of Structure:</b>	09 - Bailey Bridge	<b>Max Depth of N.W.L.:</b>	0.3 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	04 - Steel Rail	<u>Span No.:</u>	<u>Length</u>
<b>Roadway Surface:</b>	03 - Timber	1	21.5
<b>Alignment Vertical:</b>	01 - Good	2	0
<b>Alignment Horizontal:</b>	02 - Adequate	3	0
<b>Restrictions:</b>	No	<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	P1 - Poor	<b>Bearings:</b>	U - Uninspectable
		<b>Bearing Seat:</b>	U - Uninspectable
<b>Comments:</b>	- Abutment concrete in fair condition. Shallow footing undermined south side due to bund wall perforations. Bund walls in front of both abutments need replacement. - No wingwalls. - Bearing seat and bearings covered in gravel, not inspected. Substructure placed as P1 due to bund wall.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	P3 - Poor	<b>Expansion Joints:</b>	I - Inapplicable
<b>Comments:</b>	- Deck chesses have various longitudinal splits. No visible signs of rot, F2. - Floor beams and stringers have moderate to severe corrosion in various locations, P3. - Pins connecting truss sections have light corrosion, pins should be galvanized. - Through truss members in fair to good condition. - No expansion joints. Superstructure placed as P3 due to floor beams stingers.		
<b>DECK</b>			

<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	P3 - Poor
<b>Hand Rail:</b>	I - Inapplicable	<b>Roadway Condition:</b>	P - Poor
<b>Approach Rail:</b>	F1 - Fair		
<b>Comments:</b>	- Approach asphalt in fair condition. - Deck raceway worn through in several locations with various splits throughout, P. - Timber curbs have numerous chips, replace. - Structure rail are the truss elements. - Guiderail in fair condition where installed, F2.		

**HYDROLOGY**

<b>Water Velocity:</b>	0.2 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.2 m	<b>Scour Problem:</b>	K - Known Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Low flow at the time of inspection.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2023	<b>Replacement Year:</b>	2050
<b>Antic. Rehab. Cost:</b>	\$40,000	<b>Replacement Cost:</b>	\$1,000,000
<b>Recommendations:</b>	- Replace raceway, and curbs. - Replace several hazard markers. - Replace various stringers and floor beams. - Replace both abutment bund walls. - Clean all sand and vegetation from bearing seats and atop bund walls.		

**OBSERVATIONS**

<b>Overall Condition:</b>	P3 - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- Waterline on upstream side.		

**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 sees 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**