

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09162022-5	
Date: 7/29/2022	Inspected By: M Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	4-220 - FEEDER BROOK BRIDGE (NORTH)		
Route:		Overall Length:	12.3 m
Year Built:	1994	Est: No	Overall Width: 6.1 m
Year Last Rehab.:		Est: No	Roadway Width: 4.5 m
Region:	WEST COAST/NORTHERN	Sidewalk Width:	2.2 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.6 m
Type of Structure:	09 - Bailey Bridge	Max Depth of N.W.L.:	0 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	03 - Timber Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	03 - Timber	1	12.3
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P1 - Poor	Bearings:	U - Uninspectable
		Bearing Seat:	U - Uninspectable
Comments:	- Abutment concrete in fair condition. Shallow footing likely undermined on north 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.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable
Comments:	- 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.		
DECK			

Condition:	F2 - Fair	Curbs:	P1 - Poor
Hand Rail:	I - Inapplicable	Roadway Condition:	P - Poor
Approach Rail:	P3 - Poor		
Comments:	- Approach asphalt in fair condition. - Deck raceway worn through in several locations with various splits throughout, P. - Timber curbs are mostly disintegrated, P1. - Structure rail are the truss elements. - Guiderail in tipped and has very old posts, P3. Replace.		

HYDROLOGY

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

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2023	Replacement Year:	2050
Antic. Rehab. Cost:	\$50,000	Replacement Cost:	\$1,000,000
Recommendations:	- Replace raceway, guiderail 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

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- As per rehab notes.		

LEGEND:

Condition Definitions:

- 1 - *Good - [discontinued code].
- 2 - *Fair - [discontinued code].
- 3 - *Poor - [discontinued code].
- 4 - *Unsafe - [discontinued code].
- G - Good.

- F2 - Fair.
- F1 - Fair.
- P3 - Poor.
- P1 - Poor.
- P - Poor.

- C - Unsafe (Closed to Public).
- U - Uninspectable.
- I - Inapplicable.

Problem Definitions:

- N - No Problem.
- P - Possible Problem.
- K - Known Problem.
- NA - Not Applicable.

Category Definitions:

- Maint. - Maintenance.
- Eng. - Engineering.
- Office - Bridge Office.

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