

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B04282021-3	
Date: 4/20/2021	Inspected By: Butler	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	TCH-030 - SOULIS BROOK BRIDGE		
Route:	1	Overall Length:	21 m
Year Built:	1990	Overall Width:	13.4 m
Year Last Rehab.:		Roadway Width:	12 m
Region:	CENTRAL EAST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.5 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	1 m
Purpose of Structure:	04 - Over Non-Navigable Waters		
Type of Handrail:	01 - Aluminum Rail	Spans:	
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	19
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Concrete abutments. Some erosion of abutment walls. Concrete wing walls right side only, not attached to structure. Abutment one wing wall leaning significantly (aprox. 40mm at top) due to the roadway/bridge water draining next to it. Both wing walls severe scaling, some delamination and cracking. All Gabions are in poor condition due the ones at waterline being severely rusted and missing ballast. Longitudinal cracks are evident in several places connecting both abutments through the deck the worst appears to the center joint, all are minor.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	Soffit and fascia in fair condition with minor cracking.		
DECK			

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F2 - Fair		
Comments:	Asphalt wearing surface. Light cracking of curbs. Aluminum 4 rail system with concrete end blocks, rust staining. Guide rail not structural.		

HYDROLOGY

Water Velocity:	1 m/s	Ice Problem:	N - No Problem
Water Depth:	1 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$50000	Replacement Cost:	\$0
Recommendations:	Install structural rail, steel bridge rail, replace gabions with armor stone.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Structure widened on left side.		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
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