
	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08032021-2	
Date: 7/5/2021	Inspected By: Justine Geddes	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	3-053 - SOUTHERN BROOK BRIDGE		
Route:		Overall Length:	16 m
Year Built:	1967	Est: No	Overall Width: 8.8 m
Year Last Rehab.:	1985	Est: No	Roadway Width: 7.3 m
Region:	CENTRAL WEST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.5 m
Type of Structure:	02 - Double Tee	Max Depth of N.W.L.:	1.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	10.3
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	U - Uninspectable
		Bearing Seat:	P1 - Poor
Comments:	Bearing on corner of abutments eroding away, cracking/spalled concrete on upstream, north wingwall.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	U - Uninspectable
Comments:	upstream double tee starting to spall at abutments, rest of double tees have rusted stirrups starting to show. Still at least ten years life left in them. Expansion joints (if exist) are paved over.		
DECK			
Condition:	F1 - Fair	Curbs:	P3 - Poor
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor

Approach Rail:	F1 - Fair		
Comments:	Spalled/eroded concrete on curbs.		
HYDROLOGY			
Water Velocity:	slow m/s	Ice Problem:	N - No Problem
Water Depth:	1-2 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2024	Replacement Year:	2032
Antic. Rehab. Cost:	\$50000	Replacement Cost:	\$2000000
Recommendations:	latex modified to abutment corners and curbs and concrete facing to wingwalls, next time in the area for other rehabs or within 3 years. Replacement can probably be either a aluminium or concrete arch in 10 to 15 years.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	good traffic visibility, high traffic speeds. West abutment easiest to get under hazards: traffic, slipping, falling, stinging plants		
LEGEND:			
Condition Definitions:		Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		Maint. - Maintenance.
			Eng. - Engineering.
			Office - Bridge Office.
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● 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			