

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B12132021-1	
Date: 10/22/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-286 - ST. BRIDE'S BRIDGE NORTH		
Route:		Overall Length:	12.3 m
Year Built:	1969	Est: Yes	Overall Width: 7.3 m
Year Last Rehab.:		Est: No	Roadway Width: 6.8 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.3 m
Type of Structure:	13 - Other	Max Depth of N.W.L.:	1.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	5.5
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- Medium erosion under upstream wingwalls - Numerous wide horizontal/vertical cracks in abutment faces and wingwalls - Mild delamination/spalling to northeast and northwest corners of abutments. - Severe delamination/spalling disintegration to face of southeast abutment footing - Southwest corner of west footing moderately undermined - Moderate efflor. Deposits at North side of East Abutment face		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	I - Inapplicable
Comments:	Curb beams: P3, Remainder: F1 - Very severe delamination/spalling/disintegration with severe corrosion to exposed reinforcement on South curb beam - Northwest bearing corner has moderate disintegration from surface runoff - North curb beam has moderate disintegration, eastern half especially - Narrow transverse/longitudinal cracks with light efflorescent deposits in bottom of deck - Moderate spall to southeast corner on deck bottom with severe corrosion to exposed reinforcement		

DECK			
Condition:	P3 - Poor	Curbs:	I - Inapplicable
Hand Rail:	P1 - Poor	Roadway Condition:	F2 - Fair
Approach Rail:	I - Inapplicable		
Comments:	- Fascias used for deck condition - Handrail upstream is P3, upstream concrete handrail has severe spalling/delamination cracking and deterioration - No handrail on downstream side of structure., some concrete jersey barriers in place, one has fallen into river. handrail downstream is P1 - Vegetation on curbs - No endblocks, guiderail or hazard markers		
HYDROLOGY			
Water Velocity:	0.3 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0.4 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Slope erosion taking place on all four corners with some settlement occurring in upstream wingwalls - Possible limestone rock underneath abutments eroding		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2022	Replacement Year:	2026
Antic. Rehab. Cost:	\$15000	Replacement Cost:	\$800000
Recommendations:	- Install DS handrail - Replace Structure		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	Yes
Additional Observations:			
LEGEND:			
Condition Definitions:		Problem 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.		
		Category Definitions:	
		Mant. - 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			