

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B01222021-6	
Date: 5/20/2020	Inspected By: Terrance Coates	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	4-103 - MIDDLE BROOK BRIDGE		
Route:	431	Overall Length:	32.2 m
Year Built:	1978	Overall Width:	11.5 m
Year Last Rehab.:		Roadway Width:	10.7 m
Region:	WEST COAST/NORTHERN	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.8 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0 m
Purpose of Structure:	03 - Over Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	23.8
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	G - Good
Comments:	Backwall on one abutment is deteriorating on downstream corner with exposed rebar corroding. Bearing pads are cracking.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	P1 - Poor
Comments:	Expansion joints are paved over. Older style angle iron expansion joints are leaking. No end blocks.		
DECK			
Condition:	F2 - Fair	Curbs:	P1 - Poor
Hand Rail:	G - Good	Roadway Condition:	P1 - Poor

Approach Rail:	U - Uninspectable		
Comments:	No approach guide rail installed. Curb is too low allowing all winter sand/salt run-off to go over the side of the deck causing concrete deterioration. Asphalt is deteriorated around paved over expansion joints causing potholes. Downstream side soffit and deck fascia severely deteriorated with exposed rebar corroded.		
HYDROLOGY			
Water Velocity:	0 m/s	Ice Problem:	N - No Problem
Water Depth:	0 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2021	Replacement Year:	2021
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Remove winter sand build-up. Install new expansion joints. Construct curbs with end blocks. Repair deteriorated concrete on fascia, soffit and backwalls. Install structural guide rail on approaches. Install hazard markers.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
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:			
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			