

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B10132021-8	
Date: 10/6/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	2-163 - CHAPEL ARM BRIDGE NO.2		
Route:	201-10	Overall Length:	6.7 m
Year Built:	1960	Overall Width:	9.5 m
Year Last Rehab.:		Est: No	
Region:	CENTRAL EAST	Roadway Width:	6 m
Jurisdiction:	Provincial	Sidewalk Width:	0 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab	Clearance to R.D. or N.W.L.:	1.5 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Max Depth of N.W.L.:	0.5 m
Type of Handrail:	02 - Concrete Rail	Spans:	
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	3.8
Alignment Horizontal:	02 - Adequate	2	0
Restrictions:	No	3	0
		<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- North frame leg exterior faces have severe disintegration, large (>300mm aggregated exposed). Northeast corner has severe disintegration and a void extending back to sloped earth fill materials, P3. - South frame leg exterior faces in fair condition. Half the southwest wingwall (no rebar) has cracked off and is in the river below. Surrounding soils left unprotected, P3. - East frame leg face (under structure) has medium cracking throughout. Northeast section of frame leg as severe effloresce leaking from the slab/top of wall joint and building up on the face, P1. - West frame leg face (under structure) has medium horizontal cracking across the bottom 1m with medium efflorescence. Northwest section has severe effloresce leaking from the slab/top of wall joint and building up on the face, P1.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable
	- Both fascia's in fair condition. - Bottom of deck is heavily cracked with severe efflorescence on the north half of		

Comments: the structure (P3), map cracking covers the south half (P3). Bottom of deck on the north side also has a medium sized spall to extremely corroded reinforcing steel, P3.

DECK

Condition:	P3 - Poor	Curbs:	I - Inapplicable
Hand Rail:	P3 - Poor	Roadway Condition:	F1 - Fair
Approach Rail:	I - Inapplicable		
Comments:	- Asphalt in fair condition. - No approach/exit rail due to surrounding properties/homes. Hazard markers mostly missing. No end blocks. - South handrail in poor condition and too low, P3. South roadway edge to south handrail grown over with grass. - North structure guiderail in fair condition, some posts are getting old/worn, F1. - Deck concrete cracked and leaking below, P3.		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.3 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Erosion of roadway gravels on both north corners of the structure.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	2024
Antic. Rehab. Cost:	\$	Replacement Cost:	\$500,000
Recommendations:	- Recommend replacing structure with a culvert within 3 years.		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- Hazards, mild slopes, slippery rocks and structure located on a sharp turn. - Rubber boots for inspection.		

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