

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08062021-5	
Date: 8/3/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-340 - COCHRANE POND ROAD UNDERPASS		
Route:	3	Overall Length:	24.2 m
Year Built:	2000	Est: No	Overall Width: 6.6 m
Year Last Rehab.:		Est: No	Roadway Width: 5 m
Region:	AVALON PENINSULA		Sidewalk Width: 0 m
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 5.3 m
Type of Structure:	08 - Steel Bridge		Max Depth of N.W.L.: 0 m
Purpose of Structure:	01 - Highway Grade Separation		Spans:
Type of Handrail:	06 - None		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
Roadway Surface:	03 - Timber	1	21.1 4 0
Alignment Vertical:	01 - Good	2	0 5 0
Alignment Horizontal:	01 - Good	3	0 6 0
Restrictions:	Yes		
Describe Restrictions:	1 Lane Traffic.		
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	U - Uninspectable
		Bearing Seat:	U - Uninspectable
Comments:	- Whole bearing area needs to be cleaned of road gravels and vegetation. Most of bearing area could not be seen and therefore, was not inspected. The concrete in its vicinity was in great condition. - East abutment on roadway needs repair. Concrete disintegrated with top mat of rebar showing (P3). With this exception abutment, F2.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable
Comments:	- No exp joints. All pins starting to rust should be galvanized (F1). All beams/welds/bolts in excellent condition (F2). North side, mid-span, bottom chord is damaged (bent/impacted). Likely caused during construction (P3).		
DECK			
Condition:	F1 - Fair	Curbs:	I - Inapplicable

Hand Rail:	F2 - Fair	Roadway Condition:	I - Inapplicable
Approach Rail:	P1 - Poor		
Comments:	- Approach rail needs to be replaced (coming from goulds). Heavily damaged from a collision. Hazard markers missing. - Timber deck wearing surface (direction of traffic) is in poor condition. Main timber decking in F1 condition. - No handrail as such, chain link placed on trusses.		

HYDROLOGY

Water Velocity:	n/a m/s	Ice Problem:	NA - Not Applicable
Water Depth:	n/a m	Scour Problem:	NA - Not Applicable
Waterway:	03 - Not Applicable	Debris Problem:	NA - Not Applicable
Comments:	Underpass		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2021	Replacement Year:	2070
Antic. Rehab. Cost:	\$50000	Replacement Cost:	\$1000000
Recommendations:	- Replace pins as per note. - Repair east abutment approach concrete. - Replace wearing surface timbers. - Clean bearing areas. - Replace damaged bottom chord. - Exit rails need a 6x6" timber shim to fix the guard rail. - Replace approach guard rail coming from Goulds.		

OBSERVATIONS

Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	- Good condition. Hazards for inspection: limited traffic. Mostly just slopes.		

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