

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B06182021-7	
Date: 1/16/2020	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-171A - PETTY HARBOUR CULVERT NO.1		
Route:		Overall Length:	0 m
Year Built:	1987	Est: No	Overall Width: 0 m
Year Last Rehab.:		Est: No	Roadway Width: 0 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	0 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	0 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	04 - Steel Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	5.5
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	- Assumed condition of buried reinforced frame leg footings. - Original structure extended approx. 2.5m upstream and downstream.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable
Comments:	- P3 (construction joints), F1 (original structure), F2 (extension). - Medium/ severe spalling with medium efflor.deposits with medium corrosion to exposed rebar in construction joint in frame legs on upstream extension. -Narrow vertical cracks and light spalling to leg haunches in original structure.		
DECK			
Condition:	F1 - Fair	Curbs:	F2 - Fair

Hand Rail:	F1 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	I - Inapplicable		
Comments:	-Spalling with medium corrosion to exposed reinforcement in deck along underside of construction joint - Deck asphalt good. - Some cracks in curb/ deck and fascia. -Steel rail has minor corrosion, minor damage		
HYDROLOGY			
Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem
Water Depth:	0.2 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	P - Possible Problem
Comments:	- Medium bulging and shifting of gabion basket along riverbank.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2022	Replacement Year:	2040
Antic. Rehab. Cost:	\$20000	Replacement Cost:	\$200000
Recommendations:	- Repair concrete defects. - Repair steel handrail and install hazard markers.		
OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- F2 (extensions). - F1 (original). - 300mm CIP outlet in SW gabion wall and 600mm CIP in the NW rip-rap wall on riverbank.		
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			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.