

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B06102019-1	
Date: 6/10/2019	Inspected By: lyver C	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-008 - MANUELS RIVER BRIDGE (DOWNSTREAM)		
Route:	2	Overall Length:	39.6 m
Year Built:	1974	Est: No	Overall Width: 8.8 m
Year Last Rehab.:		Est: No	Roadway Width: 6.9 m
Region:	AVALON PENINSULA	Sidewalk Width:	2.4 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	0 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	0
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Assumed condition of buried reinforcement to concrete abutment footings. Assumed conditions of bearing/seats to a certain height. Medium vertical cracks in abutment faces and wingwalls. Paint on west abutment scaling off. Pigeon content on bearing seats (feces and nests).		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F1 - Fair
Comments:	Medium horizontal angular cracks in ends of most girders. Light medium honeycombing along bottom flanges of most girders. Minor damage to extension joint in curb at North East end. Medium bending of assembly on west expands joint. Pigeon content present on girders		
DECK			
Condition:	F2 - Fair	Curbs:	F1 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	F2 - Fair		
Comments:	Numerous scrapes and dents, small holes and bent posts to downstream aluminum handrail. Downstream horizontal construction joint in exterior deck/ curb facial opening up. No exit guide rail. Numerous areas of medium rusting to upstream cantilevered deck surface(insufficient cover). Severe damage to approach buried end guiderail at North East end.		
HYDROLOGY			

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.4 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Water pounding on asphalt on low sides of expansion joints.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2019	Replacement Year:	2035
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$1500
Recommendations:	Replace North East buried end approach guiderail. Replace damaged aluminum guiderails((Downstream). Clean out expansion joint seals and install South East hazard marker (maintain).		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	Unchanged from 2008 inspection. Approach and deck resurfaced since last inspection		
LEGEND:			
Condition Definitions:			
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	Problem Definitions:
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	N - No Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	P - Possible Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		K - Known Problem.
G - Good.	P - Poor.		NA - Not Applicable.
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.