

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09132021-8	
Date: 9/13/2021	Inspected By: Gillis M	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-117 - HARCOT BROOK BRIDGE		
Route:	93	Overall Length:	27.1 m
Year Built:	1978	Est: Yes	Overall Width: 9.1 m
Year Last Rehab.:		Est: No	Roadway Width: 7.9 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.5 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	1.8 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	Span No.:	Length
Roadway Surface:	01 - Concrete	1	14.6
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:	P3 - Poor
		Bearing Seat:	F2 - Fair
Comments:	- Assumed condition of buried/ submerged reinf. conc. abut. footings. - Light scaling/ delamin. to some bearing seats. - Thick kelp on abut./ wingwall faces up to HWM. - Small medium spalling in face of SW wingwall under exp. joint gap in curb. - Bearing pads crushed in places causing girder ends to contact bearing seats. - Medium/ severe erosion along bottom faces and corners of abutments.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P1 - Poor
Comments:	- Numerous areas if med. delamin./ spalling with light rusting to exposed reinf. on girders. - Wide vert. cracks in girder ends and end diaphragms. - Exp. joints leaking, seals damaged with sections of striker plates missing. - Numerous long. cracks and severe abrasion to exp. joint dams.		
DECK			

Condition:	F1 - Fair	Curbs:	I - Inapplicable
Hand Rail:	P3 - Poor	Roadway Condition:	I - Inapplicable
Approach Rail:	F1 - Fair		
Comments:	- No hazard markers. - Numerous small spalls on exposed deck surface (some patched with asphalt). - Medium/ small potholes in asphalt on approaches. - Medium road settlement at exp. joint dams. - Numerous scrapes, dents, damage and end caps missing on alum. handrails (esp. at ends). - Approach/ exit guiderail aging with minor damage and decaying posts.		
HYDROLOGY			
Water Velocity:	tidal m/s	Ice Problem:	N - No Problem
Water Depth:	tidal m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Medium road settlement at exp. joints. - Asphalt ramped up to exp. joint dams - Medium/ severe slope erosion at 4 corners of structure.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2020	Replacement Year:	2030
Antic. Rehab. Cost:	\$150	Replacement Cost:	\$800
Recommendations:	- Repair all concrete defects. - Repair alum. handrails, install end blocks, replace exp. joints, resurface deck, pave approaches. - Install new approach/ exit guiderail. - Place rip-rap at 4 corners of structure and possibly replace some bearing pads. - In the interim, install 4 new regulation size hazard markers (maint).		
OBSERVATIONS			
Overall Condition:	P1 - Poor	Requires Further Inspection:	No
Additional Observations:	- P1 (Expansion joints). - P3 (bearing pads, handrails, surface). - F1 (deck surface, guiderail). - F2 (remainder). - Mostly unchanged from previous inspection.		
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			