

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08242021-3	
Date: 3/10/2020	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-277 - GOOSEBERRY COVER BRIDGE (NORTH)		
Route:	100	Overall Length:	3.7 m
Year Built:	1971	Est: Yes	Overall Width: 10.2 m
Year Last Rehab.:		Est: No	Roadway Width: 8.8 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.25 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.1 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	0.15 m
Purpose of Structure:	04 - Over Non-Navigable Waters		
Type of Handrail:	06 - None	Spans:	
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	03 - Poor	1	3.2
Alignment Horizontal:	03 - Poor	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	F1 - Fair
Comments:	- Original abutments & extensions poured directly onto bedrock. - Original structure extended approximately 5m upstream and 3m downstream with rigid frame. - Medium scour under original abutments & under upstream frame leg extension. - No visible sign of bearings.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable
Comments:	- F1 extensions, P3 original. - Numerous wide horizontal & vertical cracks with medium-heavy efflorescence in faces of original abutments & concrete retaining walls. - Construction joints between original & extensions opening up with icicles forming as result of minor leakage. - Pressure treated retaining wall on northwest corner appears ok.		
DECK			
Condition:	P3 - Poor	Curbs:	P3 - Poor
Hand Rail:	I - Inapplicable	Roadway Condition:	P3 - Poor
Approach Rail:	P3 - Poor		
Comments:	- Deck overall condition, P3 original, F1 Extension. Curbs, P3 Northeast curb, F1 Remainder. - Light raveling, rutting, & settlement with small potholes in asphalt over deck. - Numerous medium-wide longitudinal cracks with heavy efflorescence in original deck soffit. - Medium horizontal cracks with medium efflorescence in deck fascias. - Medium damage & tipping of guiderail on route 100. - Top of concrete curb is missing on northeast end. - No hazard markers attached to guiderail.		

HYDROLOGY			
Water Velocity:	0.4 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0.3 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Small ice build up on upstream end & scouring continues under upstream frame leg extension & under original abutments.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2021	Replacement Year:	2030
Antic. Rehab. Cost:	\$50000	Replacement Cost:	\$300000
Recommendations:	- Repair scour under abutments & frame legs. - Resurface route 100 over structure. - Replace guiderail & install hazard markers. - Some hydraulic rip-rap to be placed at upstream end.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- P3 original structure, F1 Extensions.		
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 F3, P1, P2, or C ● Any evidence of known ice, scour, debris, waterway problems 			
INSPECTION PHOTOS			

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