

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B07262021-5	
Date: 7/23/2021	Inspected By: Michael Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	1-273 - STORE GULLY BRIDGE - MT. CARMEL		
Route:	93	Overall Length:	7.9 m
Year Built:	1968	Est: Yes	Overall Width: 10.1 m
Year Last Rehab.:	1995	Est: No	Roadway Width: 6.2 m
Region:	AVALON PENINSULA		Sidewalk Width: 0 m
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 0.8 m
Type of Structure:	03 - Reinforced Concrete Beam/Slab		Max Depth of N.W.L.: 0.6 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	06 - None		<u>Span No.:</u> <u>Length</u> <u>Span No.:</u> <u>Length</u>
Roadway Surface:	02 - Asphalt	1	4.8 4 0
Alignment Vertical:	02 - Adequate	2	0 5 0
Alignment Horizontal:	02 - Adequate	3	0 6 0
Restrictions:	No		
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	P3 - Poor
		Bearing Seat:	P3 - Poor
Comments:	- Water leaking between abutment/deck joint (Simple support connection). -Upstream side wingwalls have severe cracking with efflorescence. - Mild-medium spalling seen on wingwalls. - Upstream wingwall left hand side has a large (300-500mm) piece of concrete delaminated from the main structure.		
SUPERSTRUCTURE			
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable
Comments:	- P1 upstream - Under side of deck has medium-severe cracking with efflorescence indicating water leakage from above. - F1 downstream - Large crack with delamination along the fascia extending into the left hand side abutment.		
DECK			

Condition:	P3 - Poor	Curbs:	P3 - Poor
Hand Rail:	P3 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	P3 - Poor		
Comments:	- Upstream handrail buried in road gravels. - Downstream rail bolted to structure concrete. - Asphalt in poor condition with cracking evident. - No approach guard rail or end blocks.		

HYDROLOGY

Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem
Water Depth:	0.1 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:			

REPLACEMENT/REHABILITATION

Next Rehab. Date:		Replacement Year:	2025
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$1000000
Recommendations:	Replace structure within next 4 years		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- New bridge design geometry restrained by properties in area. - No approach guardrail. - Hazards of Inspection: bridge on a blind turn coming down a hill. Access to all 4 corner of structure fairly easy.		

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 sees 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