

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B08292023-4	
Date: 8/9/2023	Inspected By: Darrell Avery	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	2-055 - LITTLE CATALINA BRIDGE #1		
Route:	230-26	Overall Length:	14.3 m
Year Built:	1984	Est: No	Overall Width: 11.7 m
Year Last Rehab.:		Est: No	Roadway Width: 8.5 m
Region:	CENTRAL EAST	Sidewalk Width:	1.5 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1 m
Type of Structure:	02 - Double Tee	Max Depth of N.W.L.:	1 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	01 - Aluminum Rail	Span No.:	Length
Roadway Surface:	01 - Concrete	1	9.5
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	01 - Good	3	0
Restrictions:	No	4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	U - Uninspectable
Comments:	Previous inspection - Concrete abutments and wing walls. Exposed concrete footing. Abutment 1 disintegration and exposed rebar on right corner. Severe scaling and erosion over entire footing. Abutment 2 disintegration and exposed rebar right corner. Both abutments and wing walls have medium cracking with efflorescence and light scaling. severe cracking on abutment 2 left wingwall. Fill loss under abutment 1 and abutment 2 left and right due to the wingwall being too short. New inspection - New concrete block retaining structure upstream.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	I - Inapplicable
Comments:	Joints leaking. Double T girders showing typical issues of rust and degradation.		
DECK			

Condition:	F1 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F1 - Fair		
Comments:	Previous inspection - Exposed concrete deck. Deck has abrasion and cracking at abutment 2. Aluminum bridge rail with concrete end blocks. End blocks have cracking and scaling. Approach rail at abutment 2 left side only. No Michigan shoe. Rail lapped wrong at this location. Sidewalk has light cracking, scaling and delamination. Approach slab removed at abutment 2 after Hurricane Igor. Deck drains need cleaning. Potholing at approach slab and bridge deck abutment #1. Approach 1 left and right missing hazard marker. The sloped sidewalk is settling due to fill loss behind the wingwalls. New inspection - more extensive deck deterioration at approach slab/deck joint and worst approach asphalt potholes.		
HYDROLOGY			
Water Velocity:	1 m/s	Ice Problem:	N - No Problem
Water Depth:	.5 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Tidal Zone		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$\$150,000	Replacement Cost:	\$tbd
Recommendations:	Replace Hazard marker. Seal Joints-repair deck. Repair sidewalk. Repair potholes at approach. New end blocks with approach guiderail. Concrete surface repair - abutments. Extend wingwalls vertically and fill voids		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.