

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B05232024-2	
Date: 5/21/2024	Inspected By: Trevor Upshall	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-354 - THORBURN ROAD UNDERPASS		
Route:	50	Overall Length:	45.2 m
Year Built:	2002	Est: No	Overall Width: 12.25 m
Year Last Rehab.:		Est: No	Roadway Width: 9.25 m
Region:	AVALON PENINSULA		Sidewalk Width: 2 m
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.: 0 m
Type of Structure:	05 - Pre-stressed Concrete Slab		Max Depth of N.W.L.: 0 m
Purpose of Structure:	01 - Highway Grade Separation		Spans:
Type of Handrail:	01 - Aluminum Rail		Span No.: <u>Length</u> Span No.: <u>Length</u>
Roadway Surface:	02 - Asphalt		1 19.25 4 0
Alignment Vertical:	01 - Good		2 19.25 5 0
Alignment Horizontal:	01 - Good		3 0 6 0
Restrictions:	No		
BRIDGE PHOTOS			
<div style="display: flex; justify-content: space-around;">   </div>			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	F2 - Fair
Comments:	Severe corrosion to steel surface of pot bearing with section loss. More severe corrosion to exterior bearings. Extensive deterioration to protective coating of bearings. Unable to inspect piers and pier bearings due to height and access restrictions. Light rust stains on concrete piers from corroded bearings. Hairline vertical cracks in abutment and ballast walls.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F1 - Fair
Comments:	Hairline pattern cracking in sloped soffit and NE wingwall. Hairline vertical cracks in fascia. Light abrasions and corrosion to expansion joints. Rust stains on ballast wall indicating leaking expansion joints.		
DECK			

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F1 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F1 - Fair		
Comments:	Severe deformation to two north aluminum handrail post and top aluminum handrail. Light scraps and dents to remaining handrail. Hairline vertical cracks in east end blocks. Narrow transverse cracks in asphalt at approach slab edges. No hazard markers. Light surface corrosion to steel safety rail. Graffiti covering MSE panels, end blocks, and piers.		
HYDROLOGY			
Water Velocity:	n/a m/s	Ice Problem:	NA - Not Applicable
Water Depth:	n/a m	Scour Problem:	NA - Not Applicable
Waterway:	03 - Not Applicable	Debris Problem:	NA - Not Applicable
Comments:			
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2030	Replacement Year:	2080
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Repair corrosion to pot bearings and apply protective coating. Install hazard markers. Repair seals on leaking expansion joints.		
OBSERVATIONS			
Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:			

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