

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B06022023-4	
Date: 5/28/2023	Inspected By: Trevor Upshall	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	TCH-188 - THORBURN ROAD STRUCTURE EAST		
Route:	1	Overall Length:	68.5 m
Year Built:	1998	Est: No	Overall Width: 10.6 m
Year Last Rehab.:		Est: No	Roadway Width: 9.7 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	5.1 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:	05 - Concrete Barrier	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	15.3
Alignment Vertical:	01 - Good	2	28.3
Alignment Horizontal:	01 - Good	3	15.3
Restrictions:	No	4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	P3 - Poor
		Bearing Seat:	F2 - Fair
Comments:	All wing walls in fair condition. Medium corrosion with less than 10% section loss of steel to pot bearings P3. Slider/contact plates appear in good condition. Assumed same condition of pier bearings. Pier concrete in fair condition. Protective coating peeling off all bearings. East/west concrete ballast wall and bearing seat severely stained with rust and efflorescence leaking from damaged corroded expansion joints. Both abutment faces and bearing seats in fair condition. Medium transverse cracks in sloped paving at east/west abutments. Sloped paving showing signs of settlement adjacent to NE wing wall. Concrete debris accumulating on bearing seats. Abutments painted over to cover graffiti.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	P3 - Poor
Comments:	East/west exposed expansion joint steel deformed and cracked on the road surface with the seal also being torn.		

Rust staining and efflorescent deposits to abutment ballast walls caused by these damaged joints. Deck soffit remains in good condition. Hairline map cracking in concrete deck soffit directly over bearings. Light abrasions and scaling to concrete barrier walls. Fascia's on both the east and west sides have vertical hairline cracking with evidence of leakage throughout. Construction joint in the fascia has medium leaking with efflorescence on the northeast and southwest corners, and light leaking with efflorescence on the southeast and northwest corners, F1.

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Condition:	F2 - Fair	Curbs:	I - Inapplicable
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	F1 - Fair		
Comments:	Medium transverse settlement crack in asphalt near west approach slab. Interior barrier walls have light to medium map cracking throughout. Exterior barrier walls have narrow vertical cracks. Medium wheel track rutting to asphalt surface. Medium dents/abrasions with light surface corrosion to structural guiderail/end shoe. Evidence of rot in numerous guiderail posts. Missing hazard markers at NE/SE/SW corners.		

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:	2025	Replacement Year:	2070
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Replace expansion joints within 2 years and repair associated concrete defects. Runoff ditches to be cleaned. Install hazard markers. Replace guiderail posts.		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	Monitor corrosion to bearing steel. P3 Bearings and Expansion Joints. F1 Approach/exit rail. F2 Remainder.		