

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B10072021-2	
Date: 10/3/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
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	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	F1 - Fair
		Bearing Seat:	F2 - Fair
Comments:	- Both abutment faces and bearing seats in fair condition. - Bearing plates have medium corrosion on the bearing seat and plate attached to bottom of deck while the slider/contact plates are in good condition, corrosion free and appear to be in working order. Assumed same condition of pier bearings. - Back walls of both abutments have severe rust staining throughout with efflorescence running down them as well. - Pier concrete in fair condition. - All wingwalls in fair condition.		
SUPERSTRUCTURE			
Condition:	F1 - Fair	Expansion Joints:	P3 - Poor
Comments:	- Fascia's on both the east and west sides have mild 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. - West expansion joint steel heavily damaged and cracked on the road surface with leaking evident below. Rust staining		

and efflorescent deposits to abutment back walls caused by these leaking joints. Suspect cracked expansion joint concrete, P3. East same comments below, roadway much better but starting to become damaged as roadway concrete wears. Tops embedment anchors exposed on both joints. - Bottom of deck in good condition. Superstructure F2 unless noted otherwise.

DECK

Condition:	F2 - Fair	Curbs:	I - Inapplicable
Hand Rail:	F2 - Fair	Roadway Condition:	I - Inapplicable
Approach Rail:	F2 - Fair		
Comments:	- Southwest approach has no hazard markers. Guiderails in fair condition. - Asphalt has a settlement crack over the approach. - Jersey barriers have mild alligator cracking throughout.		

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:	- Southwest (median) concrete paving has mild settlement and undermining from runoff.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2025	Replacement Year:	2070
Antic. Rehab. Cost:	\$100000	Replacement Cost:	\$2000000
Recommendations:	- Replace expansion joints within 3 years and repairs associated concrete defects below. - Runoff ditches to be cleaned. Winter sand piled up and blocking them.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	- Monitor leaks in fascia construction joints and corrosion of bearings, structure F2. - Expansion joints, P3. - Traffic control required for inspection.		

LEGEND:

Condition Definitions:

- 1 - *Good - [discontinued code].
- 2 - *Fair - [discontinued code].
- 3 - *Poor - [discontinued code].
- 4 - *Unsafe - [discontinued code].
- G - Good.

- F2 - Fair.
- F1 - Fair.
- P3 - Poor.
- P1 - Poor.
- P - Poor.

- C - Unsafe (Closed to Public).
- U - Uninspectable.
- I - Inapplicable.

Problem Definitions:

- N - No Problem.
- P - Possible Problem.
- K - Known Problem.
- NA - Not Applicable.

Category Definitions:

- Maint. - Maintenance.
- Eng. - Engineering.
- Office - Bridge Office.

PHOTO GUIDELINES:

Inspection Photos:

Please provide photos using guidelines below:

- Any item which inspector feels 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