

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B10072021-3	
Date: 10/3/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	TCH-190 - BIFURCATION OVERPASS EAST		
Route:	1	Overall Length:	38.2 m
Year Built:	1998	Est: No	Overall Width: 13 m
Year Last Rehab.:		Est: No	Roadway Width: 12.1 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	5.5 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	9
Alignment Vertical:	01 - Good	2	13
Alignment Horizontal:	01 - Good	3	9
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 with mild hairline cracking. Pier columns in good 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 both sets of pier bearings. - All wingwalls in fair condition.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F1 - Fair
Comments:	- Fascia's on both sides have mild vertical hairline cracking throughout. - Bottom of deck in good condition. - Expansion joint steel heavily damaged on the roadway surface with about half of the embedment anchor tops exposed. Rubber is also cracked in several locations. - No evidence of dampness or staining on bearing seats.		
DECK			

Condition:	F2 - Fair	Curbs:	I - Inapplicable
Hand Rail:	F2 - Fair	Roadway Condition:	I - Inapplicable
Approach Rail:	F2 - Fair		
Comments:	- Asphalt in good condition. - Jersey barriers have mild-hairline vertical cracking throughout. - Approach/exit rails in fair condition complete with hazard markers and connected to end blocks. - All chaulking cracked through jersey barriers at expansion joint locations.		

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:	- None.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2026	Replacement Year:	2070
Antic. Rehab. Cost:	\$100000	Replacement Cost:	\$2000000
Recommendations:	- Expansion joint seals full of dirt and need to be cleaned. Likely will need a replacement within 5 years. - Replace chaulking in expansion joint jersey barriers.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	- Eavestrough installed on back on bearing seat to catch water from a future leaking expansion joint. - Monitor expansion joints. - Traffic control required for inspection.		

LEGEND:		Problem Definitions:		Category Definitions:	
Condition Definitions:		N - No Problem.		Maint. - Maintenance.	
1 - *Good - [discontinued code].	F2 - Fair.	P - Possible Problem.		Eng. - Engineering.	
2 - *Fair - [discontinued code].	F1 - Fair.	K - Known Problem.		Office - Bridge Office.	
3 - *Poor - [discontinued code].	P3 - Poor.	NA - Not Applicable.			
4 - *Unsafe - [discontinued code].	P1 - Poor.				
G - Good.	P - Poor.				

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 F3, P4, P, or C
 ● Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS