

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B07122022-2	
Date: 5/29/2022		Inspected By: M Button		Category: Office - Bridge Office	
BRIDGE INFORMATION					
Site:		TCH-143 - HARBOUR ARTERIAL OVERPASS EAST - R			
SUBSTRUCTURE					
Condition:	F1 - Fair	Bearings:	P3 - Poor		
		Bearing Seat:	F1 - Fair		
Comments:	- East abutment has moderate width vertical cracks across the face of the abutment. Bearing seat in fair condition. All bearings have light to moderate bulging with splits, F1. All bearing are undersized. Plinths in fair condition. Wingwalls in fair condition. - West abutment has moderate width vertical cracks across the face of the abutment. Bearing seat is damp from the leaking expansion joint above. All bearings have moderate to severe bulging with severe splits, P3. All bearings undersized. Plinths have severe rust staining from the girder steel plates. One plinth is split in half, P1. Wingwalls in fair condition. - **All pier components not inspected due to lack of traffic control**.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	P3 - Poor		
Comments:	- East girder steel bearing contact plates have moderate corrosion. - West girder steel bearing contact plates have severe corrosion. - Girders in fair condition overall, some hairlines to moderate cracks in isolated locations. No cracks are structural in nature. The northwest exterior girder on the pier bearing has moderate to severe cracking to the bottom flange. Suspect this is deterioration is due to being exposed to the elements. - Some diaphragms have small spalls with severe corrosion to reinforcement. - Deck soffit has hairline map cracking and is in fair condition. - East expansion joint seal is full of gravel, no leaks visible from below. - West expansion joint seal is full of gravel and suspected to be leaking. - Both the north & south fascia's have light scaling and isolated very small spalls and are in fair condition. - **Girders & deck soffit not inspected around the pier due to lack of traffic control**.				
DECK					
Condition:	F1 - Fair	Curbs:	P3 - Poor		
Hand Rail:	F1 - Fair	Roadway Condition:	F1 - Fair		
Approach Rail:	F1 - Fair				
Comments:	- One hazard marker is damaged. - Guiderails in fair condition. - Structure rails in fair condition with minor scrapes and dents. - End blocks have isolated areas of mild map cracking and small spalls. - Concrete exposed deck no asphalt. Concrete deck has exposed aggregate throughout, isolated potholes, cracking and sections of exposed rebar, F1. - South curb in fair condition. North curb has very severe roadside face disintegration.				
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:	- Not applicable.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2025	Replacement Year:	2045		

Antic. Rehab. Cost:	\$250,000	Replacement Cost:	\$3,000,000
Recommendations:	- Replace broken hazard marker, repair concrete potholes in the deck, replace all bearings and plinth on the east abutment, repair concrete diaphragms, repair concrete curbs, replace expansion joints.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- Bearings, curbs and expansion joints P3, F1 remainder. Hazards heavy traffic. Traffic control or a road shut down is needed for inspection. *** Pier and surrounding areas not inspected due to lack of traffic control on TCH.		

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2026.