

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B03182026-2	
Date: 12/5/2025		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		TCH-144 - HARBOUR ARTERIAL OVERPASS WEST - R			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	P3 - Poor		
		Bearing Seat:	F1 - Fair		
Comments:	- Assumed condition of buried concrete footings. - Southeast wingwall and abutment corner refaced summer of 2025, G. Section of southwest wingwall/curtain wall construction joint resurfaced summer of 2025, G. Remainder of southwest wingwall has hairline to narrow damp pattern cracks with light efflorescence under the end block. Northwest wingwall has half a dozen baseball sized rust stains under the curb. All remaining wingwalls/sections not mentioned above have hairline pattern cracks with light scaling throughout, F1. - East abutment has local rust stains, local delaminations and areas of severe scaling towards the southeast exterior corner. Bearing seat front corners around the girders have local areas of disintegration from the previously leaking expansion joints. East abutments slope paving settled and heavily fractured due to fill loss from previous expansion joint leakage. - West abutment ballast wall has severe scaling/light disintegration to all visible concrete. Exterior curtain walls have medium to wide pattern cracks throughout with light disintegration to the perimeter construction joint. - Pier column old concrete patches have narrow to medium damp pattern cracks throughout. Isolated areas of light to moderate scaling on all columns. Column one has a moderate spall with rust leaching from the perimeter crack. Delamination located at bottom of ditch elevation. Numerous other moderate delaminations cover the north face. Column two has medium damp vertical cracks with small to moderate surrounding delaminations. Column four has a moderate to large delamination near the top. P3 above. F1 remainder. - Pier cap soffit on the south side large area of disintegration exposing reinforcement with severe corrosion. Pier cap soffit also has various spalls exposing reinforcement with severe corrosion. Other areas similarly delaminated and likely to spall. - Bearings generally cracked and deformed throughout. Girder sole plates have severe corrosion.				
SUPERSTRUCTURE					
Condition:	F2 - Fair	Expansion Joints:	G - Good		
Comments:	- New asphaltic plug joints installed in 2025, G. - Substantial deck soffit repairs completed in fall 2024 & fall 2025, G. Patching completed throughout. North deck cantilever replaced on span 1. Substantial original concrete remaining and will need to be monitored throughout the remaining life of the structure, F1. - Diaphragm repairs completed in fall 2024, G. Netting installed to mitigate future spalls. Substantial original concrete remaining and will need to be monitored throughout the remaining life of the structure, F1. - Girder repairs completed in fall 2024, G. Netting installed to the bottom flanges of all girders to mitigate future spalls. Substantial original concrete remaining and will need to be monitored throughout the remaining life of the structure, F1. - Girders have longitudinal hairline cracks along the slopped portion of the bottom flange. Girder ends have hairline pattern cracks throughout, F1. - Some overhead sign horizontal anchor bolts have severe corrosion (> 10% section loss). Severe deformation of steel plate on the east side of the "TCH West Both Lanes" sign, P3.				
DECK					
Condition:	F2 - Fair	Curbs:	F2 - Fair		
Hand Rail:	G - Good	Roadway Condition:	G - Good		
Approach Rail:	G - Good				
Comments:	- Deck top repairs completed in 2025. Substantial original concrete remaining and will need to be monitored throughout the remaining life of the structure. - New waterproofing and asphalt in fall 2025, G. - Structure rail is new four rail structural steel on posts, G. - New end blocks in 2025. - Guiderail structure installed complete with all hazard markers. All new in 2025, G. - Curb top/exterior repaired/patched throughout in summer 2025, G. Substantial original concrete remaining and will need to be monitored throughout the remaining life of the				

structure. - New grading/median work to promote runoff. - New culvert installed in west median. - New type C curbs in fall 2025.			
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. Trans-Canada Highway (TCH) below. - Monitor slope paving around east abutment on future inspections.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$	Replacement Cost:	\$
Recommendations:	- Monitor until replacement. - Overhead sign anchor bolts need replacement.		
OBSERVATIONS			
Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	- Major rehabilitation since last inspection. Work completed from Fall 2024 to Fall 2025 under contract 04-24 PSR. Minimal concrete work completed on substructure. - All conventions follow OSIM. Chainage assumed to be towards CBS. - Overhead sign bolts need replacement.		

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