

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01232024-2	
Date: 8/25/2023		Inspected By: M Button		Category: Office - Bridge Office	
BRIDGE INFORMATION					
Site:		TCH-107 - FOXTRAP ACCESS ROAD OVERPASS EAST - R1			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	P3 - Poor		
		Bearing Seat:	P3 - Poor		
Comments:	- East abutment face has moderate to severe rust staining throughout. - West abutment has isolated rust staining with narrow vertical cracks. Southwest exterior abutment corner has a large area of disintegration with delaminations - All wingwalls generally in fair condition with hairline map cracking - Numerous bearings not in full contact with girder or bearing seat, P3 due to the area being out of tolerance				
SUPERSTRUCTURE					
Condition:	F2 - Fair	Expansion Joints:	P1 - Poor		
Comments:	- Exterior deck soffit around the drip bead has small spalls with rust staining throughout. Some areas have reinforcing steel exposed with severe corrosion. - Deck soffit and girders in fair condition overall. Exterior girders have longitudinal cracks along the exterior of the bottom flange. Girders have delaminations with isolated rust staining on their underside directly adjacent to the bearing area, P3. The northeast girder end has spalled in the same area exposing rebar with severe corrosion. - All expansion joints leaking based on evidence on the abutment bearing seats below. End dams are rutted with areas of spalling/disintegration.				
DECK					
Condition:	F1 - Fair	Curbs:	F1 - Fair		
Hand Rail:	F2 - Fair	Roadway Condition:	P3 - Poor		
Approach Rail:	P3 - Poor				
Comments:	- Exterior of curbs have horizontal cracking with rust stains. Area also has isolated spalls around structure rail anchor bolts. - Curbs have isolated areas of cracking with rust staining and disintegration. - Asphalt has isolated potholes throughout. - Guiderail has rot in most posts with checks and splits throughout. Rail in generally heavily damaged and weaved. - Structure rail in fair condition.				
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:	N/A				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2025	Replacement Year:	2050		
Antic. Rehab. Cost:	\$500,000	Replacement Cost:	\$5,000,000		
Recommendations:	- Replace expansion joints. - Waterproof and repave deck - Replace curbs. - Chip behind the first layer of steel on abutments and reface. - Repair underside of girders near bearing area. - Jack up bridge and repair the bearing seat to ensure full contact of bearings. - Replace guiderail. - Replace structure rail. - Replace exterior deck cantilever with curbs.				

OBSERVATIONS

Overall Condition: F1 - Fair **Requires Further Inspection:** No

Additional Observations: - Bridge overall in fair condition with P3 areas but needs a major rehabilitation to prevent loss of the structure.

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.