

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B01232024-3</b>	
Date: 8/25/2023		Inspected By: M Button		Category: Office - Bridge Office	
<b>BRIDGE INFORMATION</b>					
Site:		TCH-141 - FOXTRAP ACCESS ROAD OVERPASS WEST - R1			
<b>SUBSTRUCTURE</b>					
Condition:	P3 - Poor	Bearings:	F1 - Fair		
		Bearing Seat:	P3 - Poor		
Comments:	- East abutment face has moderate rust staining throughout. There is a large spall near the southeast corner. - West abutment has isolated rust staining. Large spall on the southwest corner. - All wingwalls generally in fair condition with hairline map cracking - Bearings in fair condition overall with minor cracks and splits in some bearings. Some bearings not in full contact. - Bearing seat damp on both abutments. Bearing seat on west abutment has several edge spalls towards the south. North side has a horizontal crack running parallel to the bearing seat and suspected to be a delamination under the exterior bearing.				
<b>SUPERSTRUCTURE</b>					
Condition:	F1 - Fair	Expansion Joints:	P1 - Poor		
Comments:	- Exterior deck soffit around the drip bead has small spalls with rust staining in some locations. The deck soffit also has a cold joint or an irregular construction joint near the east side. Deck soffit otherwise in fair condition. - Exterior girders have longitudinal cracks along the exterior of the bottom flange. - Several girder ends on the east side have large spalls exposing reinforcement with severe corrosion, P3. - Girders otherwise in fair condition. - All expansion joints leaking based on evidence on the abutment bearing seats below. End dams are rutted with areas of spalling/disintegration.				
<b>DECK</b>					
Condition:	F1 - Fair	Curbs:	F1 - Fair		
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair		
Approach Rail:	F1 - Fair				
Comments:	- Exterior of curbs have horizontal cracking or voids with rust stains. - Curbs generally in fair condition with light scaling. - Asphalt rutted in both lanes. - Guiderail has rot in some posts with checks and splits throughout. Rail is generally heavily damaged and weaved. - Structure rail in fair condition.				
<b>HYDROLOGY</b>					
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				
<b>REPLACEMENT/REHABILITATION</b>					
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 and structure rail. - 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.				

**OBSERVATIONS**

<b>Overall Condition:</b>	F1 - Fair	<b>Requires Further Inspection:</b>	No
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**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.