

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B01092023-3</b>	
Date: 5/29/2022		Inspected By: Trevor Upshall		Category: Eng. - Engineering	
<b>BRIDGE INFORMATION</b>					
Site:		1-090 - PEARLTOWN ROAD OVERPASS EAST - R2			
<b>SUBSTRUCTURE</b>					
Condition:	P1 - Poor	Bearings:	I - Inapplicable		
		Bearing Seat:	I - Inapplicable		
Comments:	P1 Abutment/end wall corners, F1 Remainder Severe spalling/disintegration with exposed corroded reinforcement to NW corner of abutment/end wall joint. Multiple vertical/horizontal reinforcement bars are completely visible. Joint is beginning to open and shift outwards causing backfill to wash through undermining the asphalt and eroding the concrete edges. NW corner is showing severe deterioration and medium scaling/efflorescence deposits (P1). Runoff draining into these open corners are causing embankment erosion beneath the abutment face and around the support struts. Numerous struts have small spalls exposing reinforcement. Corroded form steel ties exposed on abutment faces.				
<b>SUPERSTRUCTURE</b>					
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable		
Comments:					
<b>DECK</b>					
Condition:	P1 - Poor	Curbs:	P1 - Poor		
Hand Rail:	P1 - Poor	Roadway Condition:	P3 - Poor		
Approach Rail:	P3 - Poor				
Comments:	P1 Parapet/curbs/handrail, P3 Surface, F1 Remainder Narrow longitudinal cracks with light stalactite deposits, light rust staining from corroded reinforcement and medium delaminated areas in deck soffit. Severe scaling/disintegration/delamination/spalling with wide vertical cracks, heavily rust stained and exposed reinforcement to north/south parapet (P1). Light spalling with exposed rebar in deck soffit due to insufficient concrete cover. Medium/severe abrasions with exposed reinforcement to curbs. Medium pot holes exposing concrete deck. Numerous medium transverse asphalt cracks at approach slabs. Top aluminum rail detached from posts with numerous posts bent. Medium to wide vertical cracks in exterior parapet fascia. Light delamination/spalling to exterior deck fascia. Medium corrosion to guiderail end shoe connection bolts. Medium asphalt rutting on bridge deck.				
<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:					
<b>REPLACEMENT/REHABILITATION</b>					
Next Rehab. Date:	2023	Replacement Year:	2035		
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0		
Recommendations:	Monitor slope erosion, repair south aluminum handrail, repair parapet/curbs, resurface deck with new asphalt,				

repair abutment corners.

**OBSERVATIONS**

<b>Overall Condition:</b>	P1 - Poor	<b>Requires Further Inspection:</b>	Yes
<b>Additional Observations:</b>	P1 - Abutment/end wall corners, parapet/curbs, aluminum handrail. P3 - Asphalt surface. F1 - Remainder		

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