

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B01162023-7	
Date: 1/13/2023		Inspected By: Trevor Upshall		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site: 1-097 - NORTH HARBOUR RIVER BRIDGE - R92					
SUBSTRUCTURE					
Condition: F1 - Fair		Bearings: F2 - Fair			
		Bearing Seat: F2 - Fair			
Comments: Assumed condition of buried/submerged reinforced concrete abutment footings. Unable to inspect bearings/bearing seats due to height restrictions. Medium erosion along bottom of east/west abutment faces. Numerous medium vertical/horizontal cracks with light deposits of efflorescence and narrow map cracking throughout abutment faces. Numerous medium horizontal/vertical/map cracking with light delamination/spalling and medium efflorescence deposits in abutment wing walls (P3). The construction joint between the curb and wing wall is leaking causing efflorescence to accumulate on the concrete surface.					
SUPERSTRUCTURE					
Condition: F2 - Fair		Expansion Joints: F1 - Fair			
Comments: Medium spalling to underside of all girders exposing reinforcement with the exterior downstream girder being more severe. Medium delamination/spalling with medium angular cracks in girder ends. Medium abrasion and narrow longitudinal cracks in expansion joint dams. Medium deterioration to caulking in expansion joint/curb gaps.					
DECK					
Condition: P1 - Poor		Curbs: P1 - Poor			
Hand Rail: F1 - Fair		Roadway Condition: F1 - Fair			
Approach Rail: F2 - Fair					
Comments: Very wide horizontal cracks and very severe delamination/spalling with exposed reinforcement to exterior deck/curb fascia's (P1). Numerous medium transverse cracks with light spalling/exposed reinforcement in exterior cantilevered deck soffits. Narrow transverse cracks in deck soffit. Medium abrasions and narrow longitudinal/transverse cracks in exposed concrete deck. Wide transverse cracks in asphalt at expansion joint dams. Light abrasions with all end caps missing on aluminum handrails. NW hazard marker missing. Erosion undermining SE concrete curb/gutter.					
HYDROLOGY					
Water Velocity: 0 m/s		Ice Problem: N - No Problem			
Water Depth: 0.7 m		Scour Problem: N - No Problem			
Waterway: 01 - Adequate		Debris Problem: N - No Problem			
Comments:					
REPLACEMENT/REHABILITATION					
Next Rehab. Date: 2025		Replacement Year: 2035			
Antic. Rehab. Cost: \$0		Replacement Cost: \$0			
Recommendations: Install NW hazard marker. Repair all concrete defects. Clean out expansion joint seals. Repair erosion at SE rock embedded gutter.					
OBSERVATIONS					
Overall Condition: P1 - Poor		Requires Further Inspection: No			
Additional Observations: P1 - North/South exterior deck curb fascia's. P3 - Abutment wing walls. F2 - Remainder					