

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B02032023-3	
Date: 1/31/2023		Inspected By: Trevor Upshall		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-043 - BECKFORD RIVER BRIDGE - R92			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	F2 - Fair		
		Bearing Seat:	F2 - Fair		
Comments:	Assumed condition of buried reinforced concrete north abutment footing. Light erosion to south exposed footing. Medium vertical cracks in abutment faces. Numerous medium to wide map cracking with severe efflorescence deposits in 4 wing walls and exterior ballast walls. Very Wide horizontal cracks along tops of wing walls under curbs P3. Narrow horizontal/vertical cracks in partially exposed south abutment footing. Steel form ties exposed on abutment faces. North bearings are not fully supported on bearing seat and showing light deformations.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	F1 - Fair		
Comments:	Wide horizontal crack, light delamination with exposed medium corroded reinforcement to bottom of upstream exterior girder flange at mid span. Light stains on concrete surface indicating corrosion of the reinforcement to bottoms of all girders. Narrow horizontal/pattern cracks at ends and along flange/web of all girders. Some interior girder ends on the north abutment have light delamination/spalling with medium efflorescence deposits. Construction joints continue to open up at girder stressing box-outs. Medium to wide vertical/horizontal cracks with medium efflorescence and light rusting to exposed reinforcement in diaphragms. Narrow longitudinal cracks in expansion joint dams with medium abrasion. Light efflorescence is leaking from soffit and accumulating on girders. Very wide crack to interior end diaphragm on south abutment.				
DECK					
Condition:	F1 - Fair	Curbs:	P3 - Poor		
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair		
Approach Rail:	F2 - Fair				
Comments:	Light abrasions and narrow longitudinal/transverse cracks in exposed concrete deck. Light delamination/spalling with narrow to wide horizontal/vertical cracks in curbs. Medium longitudinal/transverse cracks with light potholes and medium alligator cracking in asphalt approaches. End blocks, handrail, and approach/exit rail replaced in recent rehab F2. Narrow transverse cracks in deck soffit. Very wide horizontal/vertical cracks in deck/curb fascia P3.				
HYDROLOGY					
Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem		
Water Depth:	0.5 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:					
REPLACEMENT/REHABILITATION					
Next Rehab. Date:	2024	Replacement Year:	2030		
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0		

Recommendations:	Repair all concrete defects. Re-surface approaches. Clean out expansion joint seals.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	P3 Abutment wing walls and curbs. F2 handrails, approach/exit rail, end blocks. F1 Remainder		

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