

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		<b>BRIDGE INSPECTION REPORT</b> <b>B09052023-4</b>	
Date: 8/28/2023		Inspected By: Darrell Avery		Category: Eng. - Engineering	
<b>BRIDGE INFORMATION</b>					
Site:		2-073 - CHAPEL ARM BRIDGE - R201-10			
<b>SUBSTRUCTURE</b>					
Condition:	F2 - Fair	Bearings:	P3 - Poor		
		Bearing Seat:	F2 - Fair		
Comments:	Previous inspection - Both abutment faces in fair condition, F2. Bearings appear small for structure, bearing seat in fair condition, F2. - Wingwalls in fair condition. - Trap/drain under beams against the back wall visibly draining water with efflorescence. New inspection - Block under beam at Abut. #2 left - appears to be raised.				
<b>SUPERSTRUCTURE</b>					
Condition:	P3 - Poor	Expansion Joints:	P3 - Poor		
Comments:	Previous inspection - Soffit has medium cracking with efflorescence around expansion joints, in fair condition across structure otherwise. - Both north and south fascias in fair condition. - All beams exhibiting a combination of 45 degree shear cracks and random shrinkage/deterioration cracks over bearing seats. Northeast, and southeast beams also have efflorescence emerging from said cracks. Southwest beam end block disintegrating likely to due to shrinkage/freeze thaw cycles. - Beams otherwise have mild cracking throughout. - Bottom of deck in fair condition, sporadic areas have light cracking with efflorescence. - Expansion joints leaking, and concrete around the embedded steel is likely cracked based on the efflorescence in locations below, P3. - All visible diaphragms have medium-wide cracks throughout. New inspection - At abut. #2 left - vertical crack in end of beam - may be from vertical force.				
<b>DECK</b>					
Condition:	F1 - Fair	Curbs:	F2 - Fair		
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair		
Approach Rail:	F2 - Fair				
Comments:	Previous inspection - Curbs in fair condition, F2. - Approach/exit rails in fair condition, connected to end blocks complete with hazard markers. - Asphalt has many potholes along the centerline and cracked over approaches, F1. - Structural handrail in fair condition, F2. New inspection - some spalling sections on right side curb fascia & soffit. Approach #2 - asphalt continuing deterioration.				
<b>HYDROLOGY</b>					
Water Velocity:	Slow m/s	Ice Problem:	N - No Problem		
Water Depth:	Deep m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:					
<b>REPLACEMENT/REHABILITATION</b>					
Next Rehab. Date:	2024	Replacement Year:			
Antic. Rehab. Cost:	\$\$100,000	Replacement Cost:	\$0		
Recommendations:	Previous inspection - Beam work TBD. - Replace expansion joints and repair disintegration on southwest beam over bearing area.				

**OBSERVATIONS**

<b>Overall Condition:</b>	F2 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	Previous inspection - Hazards, mild traffic, and slopes.		

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