

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B05192022-29	
Date: 5/11/2021		Inspected By: Butler		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		2-003 - MARYSTOWN HARBOUR (CANNING) BRIDGE - R220A			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	P3 - Poor		
		Bearing Seat:	F2 - Fair		
Comments:	Concrete abutments, piers and wingwalls. Moderate to severe cracking with efflorescence, some delaminations and some severe disintegration over all components. 3 fixed piers and one pier (#4) was previously for the rotating bridge section but has been fixed for many years. Some bearings are heavily rusted with delamination and section loss. Widened section left side abutment sections outside old wingwalls are significantly undermined at both ends. Piers have significant section loss of concrete on both sides of all 3 piers.				
SUPERSTRUCTURE					
Condition:	P3 - Poor	Expansion Joints:	F2 - Fair		
Comments:	2 steel girders with steel cross bracing, rusting of all parts, heavy rusting in bottom flange connections. Significant backwall damage from previously leaking expansion joints, cracking, efflorescence, delamination, disintegration.				
DECK					
Condition:	P3 - Poor	Curbs:	F2 - Fair		
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair		
Approach Rail:	F2 - Fair				
Comments:	Exposed concrete deck is severely deteriorated with 10-15 potholes exposing rebar, significant weathering/abrasion. 4 rail aluminum hand rail with concrete end blocks, some impact damage to end blocks and hand rail - minor. Curbs have light cracking, disintegration around curb joint sections - fascia and soffit from previous leaking. Roadway is too narrow. Approach 1 left and right rail missing posts closest to the endblocks. Asphalt is potholed at the concrete/joint interface. Deck drains and approaches have a buildup of sand.				
HYDROLOGY					
Water Velocity:	0 m/s	Ice Problem:	N - No Problem		
Water Depth:	0 m	Scour Problem:	N - No Problem		
Waterway:	01 - Adequate	Debris Problem:	N - No Problem		
Comments:	Tidal. Depth and Velocity vary. No known scour issues, inspection requires diving.				
REPLACEMENT/REHABILITATION					
Next Rehab. Date:		Replacement Year:			
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0		
Recommendations:	Rehab structure. Latex repairs (extensive), deck repairs, girder repairs, hand rail repairs. Full inspection of girders and piers to determine if replacement is required. Clean drains and sand from approaches.				
OBSERVATIONS					
Overall Condition:	P3 - Poor	Requires Further Inspection:	Yes		
Additional Observations:	Several utilities attached to bridge. Engineering department does not have the resources, expertise or training to complete a meaningful inspection on this structure.				