

		GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B03202026-3	
Date: 3/19/2026		Inspected By: T Upshall / M Button		Category: Eng. - Engineering	
BRIDGE INFORMATION					
Site:		1-146 - RUTH AVE - HARBOUR ARTERIAL OVERPASS - R2			
SUBSTRUCTURE					
Condition:	P3 - Poor	Bearings:	F1 - Fair		
		Bearing Seat:	P3 - Poor		
Comments:	- Assumed condition of buried concrete footings. - Wingwalls have various medium to wide cracks with numerous delaminations. Southwest wingwall's construction joint to the curb opened with disintegrating edges exposing reinforcement with light corrosion. - East abutment bearings in fair condition. West abutment bearing seat and bearings too high for inspection and assumed to be in similar condition, F1. - East abutment ballast wall has damp narrow to medium pattern cracks throughout. Northeast ballast wall corner has light efflorescent staining from expansion joint end dam. - Both abutments south exterior bearing seat corners have wide cracks, delaminations and disintegration exposing reinforcement with light corrosion. The abutment faces have several delaminations, and medium pattern/map/rebar grid cracks throughout with local rust stains. - Center columns have hairline pattern cracks with light scaling throughout, F1.				
SUPERSTRUCTURE					
Condition:	F1 - Fair	Expansion Joints:	P - Poor		
Comments:	- Southeast corner of the deck soffit has a small spall exposing reinforcement with light corrosion. Surrounding area is delaminated with wide cracks propagating from spall, P3. - Both deck ends have narrow damp pattern cracks throughout, F1. At mid width over the east abutment, deck end has severe rust stains. Suspect this maybe from the expansion joint assembly. - Deck soffit between columns has dominate hairline map/pattern cracks. Deck soffit immediately surrounding the columns has narrow tangential cracks, F1. - South deck fascia & transverse post-tension pour back has narrow pattern/map cracks with light to moderate efflorescence throughout. - North deck fascia & transverse post-tension pour back has damp hairline pattern/map cracks throughout, F1. - Deck soffit main interior on both spans has damp regularly spaced hairline longitudinal cracks. - Expansion joints replaced in fall 2014. Deck ends/ballast wall showing distresses and seals assumed to be leaking. Seals full of debris on roadway. Curb expansion gap caulking cracked and leaking. Both expansion joints higher than deck and approach asphalt causing a bump in the roadway. Asphalt worn/disintegrating around joints.				
DECK					
Condition:	F1 - Fair	Curbs:	P1 - Poor		
Hand Rail:	F2 - Fair	Roadway Condition:	P3 - Poor		
Approach Rail:	F1 - Fair				
Comments:	*Assumed condition of deck top (covered in asphalt) based on condition of deck soffit below. - Structure rail is four rail aluminum system on posts and was replaced in 2014. Rails/posts have no defects of concern, F2. - Guiderail not of type guiderail structures. All guiderail on east side is 6x6. One spacer block on the northeast side has local rot. Spacers on southeast corner have a couple spacers rotated out of the vertical position. Minor splits in posts, F1. West side guiderail consists of several 8x8s replaced in 2014 but is not the proper spacing for guiderail structures. All posts in fair condition. Original buried end rail damaged and needs replacement. - Curb tops have hairline damp cracks with local light efflorescence. Roadside faces, except for recent repairs (likely in 2014), have wide longitudinal cracks throughout, P3. Southeast quadrant curb exterior is heavily fractured, delaminated or has spalled. There is a saw cut along the full length of the curbs exterior contributing to problem, P1. - Sidewalk undermined on southwest corner. - End blocks replaced in 2014. No defects of concern, F2. - Asphalt replaced three meters either side of both expansion joints in 2014. Both expansion joints higher than deck and approach asphalt causing a bump in the roadway. Asphalt appears to have significant thickness loss in the area with surface disintegration defects. Asphalt shoving/pushing visible on areas of bridge deck. Potholes				

beginning to form in other areas.			
HYDROLOGY			
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:	- Not applicable. Route 2 below. - Slope eroding on Southwest corner.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$	Replacement Cost:	\$
Recommendations:	- Scaling of southeast curb exterior required immediately. - Last rehabilitation in 2014 under contract 41-14 PSB. Expansion joints, structure rail and some guiderail replaced. Local waterproofing and paving completed around new expansion joints. End blocks installed. - Replace guiderail with guiderail structures. - Replace expansion joints. Consider converting to semi-integral. - Concrete deck repairs. - Waterproof + repave structure. Grade work maybe needed to fix area around expansion joints. - Replace curbs and transverse post-tension blackout. Salvage all bridge rails/posts. - Reface concrete wingwalls and abutments. - Concrete repairs to deck ends/soffit. - Stabilize slope on southwest corner.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- Bridge needs and major rehabilitation to preserve life. - Scaling of southeast curb exterior over route 2 required as soon as possible.		

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2026.