
	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B12132021-2</b>	
<b>Date:</b> 10/30/2021	<b>Inspected By:</b> Mike Button	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	5-010 - EAST WILSON RIVER BRIDGE		
<b>Route:</b>	500	<b>Overall Length:</b>	55.7 m
<b>Year Built:</b>	1995	<b>Est:</b> No	<b>Overall Width:</b> 11.8 m
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 10.8 m
<b>Region:</b>	LABRADOR	<b>Sidewalk Width:</b>	0 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	2.8 m
<b>Type of Structure:</b>	08 - Steel Bridge	<b>Max Depth of N.W.L.:</b>	1.1 m
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	01 - Aluminum Rail	<b>Span No.:</b>	<b>Length</b>
<b>Roadway Surface:</b>	01 - Concrete	1	40
<b>Alignment Vertical:</b>	01 - Good	2	0
<b>Alignment Horizontal:</b>	01 - Good	3	0
<b>Restrictions:</b>	No	<b>Span No.:</b>	<b>Length</b>
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	G - Good	<b>Bearings:</b>	G - Good
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	- Abutment, and wingwall concrete in good condition. - Bearings in good condition. - Northwest bearing seat corner has moderate rust staining with a moderate crack on the corner. Monitor on future inspections for progression, F2.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	G - Good	<b>Expansion Joints:</b>	P3 - Poor
<b>Comments:</b>	- Expansion joint seal torn/split on the north side, P3. Expansion joint on the south full of gravels/sand. Just south of the expansion joint concrete is disintegrated with extremely wide map cracking. Tops of all expansion joint embedded steel exposed. - Exterior curb/soffit and bottom of deck concrete in good condition. - Six girders and their braces have light to moderate surface corrosion. Bearing end of girders and braces painted with small areas of flaking paint and light corrosion, G.		

<b>DECK</b>			
<b>Condition:</b>	G - Good	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	F2 - Fair
<b>Approach Rail:</b>	P3 - Poor		
<b>Comments:</b>	- Approach/exit rails have some damage rail sections with some damaged/split posts, connected with end blocks with some bolts missing, northeast hazard marker disconnected, southwest damaged, remaining hazard markers in place, and have collision dampening posts. - Northeast end block has a its top 10% cracked off, remaining end blocks in fair condition with light to moderate map cracking. - Asphalt in fair condition on the approaches, wide transverse cracks at the joint between the approach slab and deck concrete. No asphalt over structure. - Deck concrete in fair condition. Aggregate colors showing throughout. - Curbs in good condition, chaulking cracked, no backing material. Areas leaking and dripping onto bearing seat. - Structure handrail has minor scrapes and dents throughout, F2.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	0.5 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.5 m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Bridge still has good rip-rap placement underwater on the north footing. South footing out of water at time of inspection with no visible scour.		
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2024	<b>Replacement Year:</b>	2060
<b>Antic. Rehab. Cost:</b>	\$25,000	<b>Replacement Cost:</b>	\$1,800,000
<b>Recommendations:</b>	- 2022 - Replace damaged/missing hazard markers. Clean expansion joint and replace seals. Replace curb chaulking and backing material. - 2024 - Repair deck concrete just south of the south expansion joint. Replace various guiderail posts.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	G - Good	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- Hazards mild traffic, slopes and traversing rip-rap.		
<b>LEGEND:</b>			
<b>Condition Definitions:</b>		<b>Problem Definitions:</b>	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		
<b>Category Definitions:</b>			
Maint. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
<b>PHOTO GUIDELINES:</b>			
<b>Inspection Photos:</b>			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> <li>● Any item which inspector feels should be documented by photograph</li> <li>● All items noted above as being P3, P1, P, or C</li> <li>● Any evidence of known ice, scour, debris, waterway problems</li> </ul>			
<b>INSPECTION PHOTOS</b>			