

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B12092021-2</b>	
<b>Date:</b> 10/29/2021	<b>Inspected By:</b> Mike Button	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	5-078 - TRAVESPINE RIVER		
<b>Route:</b>	500	<b>Overall Length:</b>	40 m
<b>Year Built:</b>	2007	<b>Est:</b> No	<b>Overall Width:</b> 12 m
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 10.6 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>	7.5 m
<b>Type of Structure:</b>	08 - Steel Bridge	<b>Max Depth of N.W.L.:</b>	0.5 m
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters		
<b>Type of Handrail:</b>	04 - Steel Rail		
<b>Roadway Surface:</b>	01 - Concrete	<b>Span No.:</b>	<b>Length</b>
<b>Alignment Vertical:</b>	01 - Good	1	20
<b>Alignment Horizontal:</b>	01 - Good	2	0
<b>Restrictions:</b>	No	3	0
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	G - Good	<b>Bearings:</b>	F2 - Fair
		<b>Bearing Seat:</b>	F2 - Fair
<b>Comments:</b>	- Bearings and bearing seats too high for inspection but assumed to be in fair condition. Abutments have light waterline erosion/discoloration to the concrete surface. Wingwalls in good condition.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	G - Good	<b>Expansion Joints:</b>	P3 - Poor
<b>Comments:</b>	- Five girders and all braces have mild corrosion. Bottom of deck concrete in excellent condition. Superstructure G. - No traditional expansion joints, semi-integral bridge. Roadway gap rubber sealing compound fractured and missing in some areas. Expansion gaps in curbs have Wabo inverseal material but no chaulking. Inverseal loose and freely hanging in some locations. Leakage visible on the exteriors of the deck overhang bearing area. Suspect leakage is from the roadway joint missing sealant and no chaulking over and down the curb Wabo inverseal, P3		
<b>DECK</b>			
<b>Condition:</b>	F2 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	G - Good	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	F1 - Fair		
<b>Comments:</b>	- Approach/exit rails have some damage rail sections with several posts split in half/demolished, complete with hazard markers, connected to end blocks and have collision dampening posts. - End blocks in good condition. Moderate erosion holes along the west end blocks and wingwalls. - West approach asphalt has several wide transverse cracks at the joint to the approach slab. Asphalt otherwise in good condition. - East approach slab has		

wide transverse cracks in the concrete (not paved). - Curbs have small spalls to reinforcement along the south curb. - Steel handrails in good condition. - Deck concrete has moderate map cracking near both approach slab/deck intersections. Section of exposed reinforcement in the west bound lane exposing about 1m of 6 transverse bars. Water/ice buildup on the southwest and northwest corners against the curb. No deck drains.

**HYDROLOGY**

<b>Water Velocity:</b>	1 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	1 m	<b>Scour Problem:</b>	P - Possible Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Possible scour on the southeast corner of the east bridge footing. River slamming into this area. No scour on west footing.		

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2024	<b>Replacement Year:</b>	2070
<b>Antic. Rehab. Cost:</b>	\$30,000	<b>Replacement Cost:</b>	\$1,800,000
<b>Recommendations:</b>	- Replace guiderail posts and rail as required. Fill erosion holes. Replace/reposition Wabo inverseal, chalk curbs and re-seal the approaching slab bearing joint area at the entrance to the bridge and along the curbs. Patch sections of curbs and deck. Reposition rip-rap on southeast footing corner. Recommend the installation of deck drains.		

**OBSERVATIONS**

<b>Overall Condition:</b>	G - Good	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- Hazards steep slopes, light traffic, and working around water.		

**LEGEND:**

**Condition Definitions:**

1 - \*Good - [discontinued code].  
 2 - \*Fair - [discontinued code].  
 3 - \*Poor - [discontinued code].  
 4 - \*Unsafe - [discontinued code].  
 G - Good.

F2 - Fair.  
 F1 - Fair.  
 P3 - Poor.  
 P1 - Poor.  
 P - Poor.

C - Unsafe (Closed to Public).  
 U - Uninspectable.  
 I - Inapplicable.

**Problem Definitions:**

N - No Problem.  
 P - Possible Problem.  
 K - Known Problem.  
 NA - Not Applicable.

**Category Definitions:**

Maint. - Maintenance.  
 Eng. - Engineering.  
 Office - Bridge Office.

**PHOTO GUIDELINES:**

**Inspection Photos:**

- Please provide photos using guidelines below:
- Any item which inspector feels should be documented by photograph
  - All items noted above as being B, F, P, or C
  - Any evidence of known ice, scour, debris, waterway problems

**INSPECTION PHOTOS**