

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B08172023-1</b>	
<b>Date:</b> 11/1/2022	<b>Inspected By:</b> M Button	<b>Category:</b> Office - Bridge Office	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	4-018 - PARSON'S POND BRIDGE		
<b>Route:</b>		<b>Overall Length:</b>	85.3 m
<b>Year Built:</b>	1971	<b>Est:</b> No	<b>Overall Width:</b> 11.6 m
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 9.3 m
<b>Region:</b>	WEST COAST/NORTHERN	<b>Sidewalk Width:</b>	0.8 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	3.3 m
<b>Type of Structure:</b>	01 - AASH to Girder	<b>Max Depth of N.W.L.:</b>	0 m
<b>Purpose of Structure:</b>	03 - Over Navigable Waters	<b>Spans:</b>	
<b>Type of Handrail:</b>	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
<b>Roadway Surface:</b>	02 - Asphalt	1	23.9
<b>Alignment Vertical:</b>	01 - Good	2	24
<b>Alignment Horizontal:</b>	01 - Good	3	23.9
<b>Restrictions:</b>	No	4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	U - Uninspectable
		<b>Bearing Seat:</b>	U - Uninspectable
<b>Comments:</b>	- North abutment has light map cracking on the exterior corners. There is light disintegration in local areas. The base of the abutment has light disintegration, F1. - South abutment has moderate erosion along the base of the wall. Areas of the concrete surface are stained from corroded reinforcement, F1. - Wing walls have light to medium map cracking with efflorescence. There is light to medium disintegration in local areas. South wing walls have eroded slopes, exposing the base of the walls, P3. - North pier has medium erosion along the base. There is light to medium map cracking on the noses of the pier. There is medium map cracking on the nose of one pier cap. Areas of the concrete are stained from corroded rebar and efflorescence, F1. - South pier is in fair condition. There is light erosion along the base of the pier. The nose of the pier has light map cracking. Some areas of concrete around the cracking appears to be delaminating and spalling, F1 - Bearings – Uninspectable - Bearing seats are too high to inspect but there appears to be a buildup of debris on the seats.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Expansion Joints:</b>	F1 - Fair
<b>Comments:</b>	- Girders are in overall fair condition. There are areas of light deterioration along the side surfaces of girders. The exterior girders have medium longitudinal cracks along the bottom flange. Concrete is starting to delaminate around some of the cracks on the exterior girders, F1. - Diaphragms are in fair condition, F1. - Underside of deck/soffit is in fair condition overall. There is light to medium disintegration in local areas. There are areas throughout the deck that are stained from corroded steel, F1. - West deck soffit has a large spall by the South abutment. There is a medium crack propagating out towards the North abutment. There is severe efflorescence leaching down from the construction joint, F1 to P3. - East deck soffit is in poor condition. The underside of the area has medium map cracking with severe efflorescence. There is light disintegration in local areas, P3. - Outer curb fascia has narrow cracks throughout. There are small areas of the concrete surface that are stained from		

corroded rebar, F1. - Expansion joints are filled with debris, F1.

**DECK**

<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	F1 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	F1 - Fair
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	- Deck asphalt is in fair condition. There is light progressive edge cracking around two of the expansion joints. The cracks are present on one side of each joint. There is one small pothole with medium depth, F1. - Curbs are in fair condition. There is light disintegration throughout. There is light to medium map cracking in local areas. The concrete around the cracking is delaminating and there are small spalls present, F1. - End blocks are in fair condition. There is light deterioration, F2. - Handrails are in fair condition, F2. - Guiderails are in fair condition. There are light cracks in most of the posts. All hazard markers are present posts have regulation spacing. All rails are connected to end posts, F2.		

**HYDROLOGY**

<b>Water Velocity:</b>	0 m/s	<b>Ice Problem:</b>	P - Possible Problem
<b>Water Depth:</b>	0 m	<b>Scour Problem:</b>	P - Possible Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>			

**REPLACEMENT/REHABILITATION**

<b>Next Rehab. Date:</b>	2030	<b>Replacement Year:</b>	2045
<b>Antic. Rehab. Cost:</b>	\$500,000	<b>Replacement Cost:</b>	\$8,000,000
<b>Recommendations:</b>	- Recommended to repair slopes, waterproof/repave, repair girders and deck soffit..		

**OBSERVATIONS**

<b>Overall Condition:</b>	F1 - Fair	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- Conduit is severely corroded in one area, causing holes in the metal. - Bridge overall is in fair condition, F1. Local P3 areas.		

**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 P3, P1, P, or C
  - Any evidence of known ice, scour, debris, waterway problems

**INSPECTION PHOTOS**