

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09162021-8	
Date: 9/2/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	3-063 - ST. JOSEPH'S COVE BRIDGE		
Route:	361	Overall Length:	25.9 m
Year Built:	1973	Est: No	Overall Width: 10.3 m
Year Last Rehab.:		Est: No	Roadway Width: 8.8 m
Region:	CENTRAL WEST	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.5 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	1 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	16
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	U - Uninspectable
		Bearing Seat:	P3 - Poor
Comments:	- All wingwall concrete in fair condition. Some mild-medium erosion/undermining of northeast wingwall. - South abutment exterior bearing areas has vegetation growth due to curb leakage above, mostly likely through un-chalked curbs, expansion joints appear to be ok. River side face of the south abutment has no visible cracking with some light scour at the bedrock/footing joint. - North abutment river side face has no visible scour but has mild erosion to concrete at the waterline. No visible cracking. Northeast bearing area has a large wide crack on the corner of the abutment likely caused by un-chalked curb above, P3. Monitor crack for a spall on future inspections for undermining the girder. Bearing seats and pads too high for inspection.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F2 - Fair
Comments:	- Underside of deck above the northeast bearing area has a medium size spall caused by un-chalked curb, P3. Remainder of the underside of deck, F2. - Girders in fair condition, F2. - Expansion joints have no visible sign of		

leakage.

DECK

Condition:	F1 - Fair	Curbs:	P3 - Poor
Hand Rail:	P3 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	F1 - Fair		
Comments:	- Asphalt has medium cracking and pot holes, P3. - Approach/exit rails have mild damage, and have hazard markers in place. Rails not attached to end blocks, F1. - Curbs have medium spalling and light cracking throughout F1, P3 in joints because curbs are not chaulked. - West fascia/soffit in fair condition, F2. - East fascia/soffit has medium cracking with efflorescence on the southeast side, P3. Northeast deck drain area has a large spall with heavy corrosion, P3. - Handrails P3, old concrete handrail, small-medium spalls and cracking with efflorescence in some locations, F1 in others.		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.3 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Mild scour on south abutment. Rip rap mostly migrated into channel.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2025	Replacement Year:	2035
Antic. Rehab. Cost:	\$100000	Replacement Cost:	\$1600000
Recommendations:	- Chaulk all curbs to prevent deterioration to bearing seats below. - Repair all bearing areas. - Re-locate rip-rap to corners of structure.		

OBSERVATIONS

Overall Condition:	F1 - Fair	Requires Further Inspection:	No
Additional Observations:	- Overall condition F1. Monitor crack on future inspections for undermining the northeast girder. - Hazards, horizontal alignment creates a blind turn coming from the St. Albans side.		

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