

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09232021-6	
Date: 1/28/2020	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-024 - PIERRE'S BROOK BRIDGE, WITLESS BAY		
Route:	10	Overall Length:	26.2 m
Year Built:	1966	Est: No	Overall Width: 10.7 m
Year Last Rehab.:		Est: No	Roadway Width: 9.1 m
Region:	AVALON PENINSULA	Sidewalk Width:	0.8 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	5.4 m
Type of Structure:	02 - Double Tee	Max Depth of N.W.L.:	0.2 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	13.6
Alignment Vertical:	02 - Adequate	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	Span No.:	Length
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P1 - Poor	Bearings:	F1 - Fair
		Bearing Seat:	P1 - Poor
Comments:	P1 - abutment corners F1 - remainder - Severe delamin. and disintegration on all four abutment corners. Medium/wide vert. cracks in wingwalls. - Very wide vert. cracks, severe delamin./ spalling with medium corrosion to exposed reinf. to exterior faces of NE, NW, and SE bearing seats and creep blocks. - No visible signs of bearings due to height restrictions.		
SUPERSTRUCTURE			
Condition:	F2 - Fair	Expansion Joints:	F1 - Fair
Comments:	- Light delamin. and spalling with medium corrosion to exposed reinf. on all double tees, especially in areas where deck drains are located. - No chalking in expansion gaps in curbs. - No visible signs of expansion joints (paved over on deck).		
DECK			

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F1 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F1 - Fair		
Comments:	- Light scrapes, dents and rust to approach and exit rail. - No hazard markers visible - Medium horiz. cracks to deck/ curb fascia. Medium spalling to deck/ curb fascias - Medium/ wide/ vert. and horiz. cracks and medium spalling to concrete handrails and posts. - Road surface is in fairly good condition.		

HYDROLOGY

Water Velocity:	0.3 m/s	Ice Problem:	N - No Problem
Water Depth:	0.3 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Unable to check for scour due to ice along sides of abutments		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2021	Replacement Year:	2025
Antic. Rehab. Cost:	\$100	Replacement Cost:	\$850
Recommendations:	- Repair areas on abutment corners, bearing seats, creep and curtain blocks ASAP. - Chalk expansion gaps in curbs. - Repair concrete defects. - Install 4 new regulation hazard markers. - Correct shoulder erosion.		

OBSERVATIONS

Overall Condition:	P1 - Poor	Requires Further Inspection:	Yes
Additional Observations:	- P1 (bearing seats, creep blocks, curtain blocks and abutment corners). - F2 (remainder) - Bridge office should re-inspect abutments, creep blocks and bearing seats.		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

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 F3, P4, P, or C
- Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS