



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B08022021-5

Date: 5/6/2021

Inspected By: Butler

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-178 - PIPER'S HOLE BRIDGE (OLD)				
Route:	210	Overall Length:	36 m		
Year Built:	1939	Est: No	Overall Width:	6 m	
Year Last Rehab.:		Est: No	Roadway Width:	5.5 m	
Region:	CENTRAL EAST	Sidewalk Width:	0 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	4 m		
Type of Structure:	06 - Concrete Arch/TechSpan	Max Depth of N.W.L.:	0.5 m		
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:			
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	01 - Concrete	1	16	4	0
Alignment Vertical:	01 - Good	2	16	5	0
Alignment Horizontal:	01 - Good	3	0	6	0
Restrictions:	Yes				
Describe Restrictions:	ATV's and pedestrians only.				

BRIDGE PHOTOS



SUBSTRUCTURE

Condition:	P - Poor	Bearings:	I - Inapplicable
		Bearing Seat:	U - Uninspectable
Comments:	Concrete abutments and wingwalls. Severe deterioration throughout.		

SUPERSTRUCTURE			
Condition:	P - Poor	Expansion Joints:	I - Inapplicable
Comments:	Concrete bowstring arch structure. Severe deterioration of arches, cracking with efflorescence of deck cross beams.		
DECK			
Condition:	P - Poor	Curbs:	P1 - Poor
Hand Rail:	P1 - Poor	Roadway Condition:	P1 - Poor
Approach Rail:	I - Inapplicable		
Comments:	Exposed concrete deck, top has severe weathering, bottom shows limited deterioration. Concrete rails and curbs severely deteriorated, sections missing. Approach two washed out.		
HYDROLOGY			
Water Velocity:	1.5 m/s	Ice Problem:	N - No Problem
Water Depth:	5 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Significant scour/undermining of the center pier. Water overtopped structure during Hurricane Igor.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:		Replacement Year:	
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Remove structure. If not removed: Repair hand rail. Post weight restrictions. Restrict access to only small ATV's and pedestrians. Post warning signs that structure is not maintained. Repair substructure including centre pier scour. Repair arches and rail.		
OBSERVATIONS			
Overall Condition:	P - Poor	Requires Further Inspection:	No
Additional Observations:	Recommend inspection by someone familiar with this type of structure. External girders, ends of stringers and all arch components have severe concrete loss.		
LEGEND:			
Condition Definitions:		Problem Definitions:	
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.		
		Category Definitions:	
		Maint. - Maintenance.	
		Eng. - Engineering.	
		Office - Bridge Office.	
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● 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			