

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B06102019-3	
Date: 1/17/2019	Inspected By: Pickett R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-289 - PICCO'S BROOK BRIDGE, FLATROCK		
Route:	20-17	Overall Length:	16.1 m
Year Built:	1925	Est: Yes	Overall Width: 7.8 m
Year Last Rehab.:	1965	Est: Yes	Roadway Width: 7.1 m
Region:	AVALON PENINSULA		Sidewalk Width: 0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	4.5 m
Type of Structure:	04 - Rigid Frame	Max Depth of N.W.L.:	0.7 m
Purpose of Structure:	04 - Over Non-Navigable Waters		Spans:
Type of Handrail:	02 - Concrete Rail	Span No.:	Length
Roadway Surface:	02 - Asphalt	1	4.5
Alignment Vertical:	01 - Good	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No		
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F2 - Fair	Bearings:	I - Inapplicable
		Bearing Seat:	I - Inapplicable
Comments:	Original concrete arch extended 5m downstream with rigid frame. No footing on original concrete arch at down stream rigid frame extension poured directly onto dowelled bed rock.		
SUPERSTRUCTURE			
Condition:	P1 - Poor	Expansion Joints:	I - Inapplicable
Comments:	Numerous wide horizontal vertical cracks with heavy efflor deposits in original arch abutments. Severe scouring at bases of original arch frame leg extensions. Some deuteriations at all four corners of arch abutments and extensions. Wingwalls have delamination and spalding, wide medium cracks with effloresce deposits.		
DECK			
Condition:	F1 - Fair	Curbs:	F1 - Fair

Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	F1 - Fair		
Comments:	Medium numerous long transverse cracks with heavy effloresce deposits in original deck soffit. Numerous wide cracks in downstream fascia original arch. Medium efflor deposits/ medium cracks in upstream curb fascias exposed rebar on downstream deck soffit original structure along with medium spading. Severe delamination/ Spalding on most wingwalls. Erosion at South west wingwall. Damage to aluminum railing due to snowplow impact. Damage to all approach and exit rail.		

HYDROLOGY

Water Velocity:	0.6 m/s	Ice Problem:	P - Possible Problem
Water Depth:	0.8 m	Scour Problem:	P - Possible Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Severe slope erosion at South East corner. Con erosion on remainder.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2030
Antic. Rehab. Cost:	\$300000	Replacement Cost:	\$900000
Recommendations:	Repair damage guide rail, handrails and install hazard markers. Fix slope erosion and concrete defects.		

OBSERVATIONS

Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:			

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

INSPECTION PHOTOS