

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B12102021-2	
Date: 10/30/2021	Inspected By: Mike Button	Category: Office - Bridge Office	
BRIDGE INFORMATION			
Site:	5-028 - UPPER BROOK BRIDGE		
Route:	500	Overall Length:	29 m
Year Built:	1982	Est: No	Overall Width: 12.3 m
Year Last Rehab.:		Est: No	Roadway Width: 10.5 m
Region:	LABRADOR	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	2.7 m
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0.6 m
Purpose of Structure:	04 - Over Non-Navigable Waters		
Type of Handrail:	01 - Aluminum Rail	Spans:	
Roadway Surface:	01 - Concrete	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	16
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		<u>Span No.:</u>	<u>Length</u>
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	G - Good	Bearings:	F2 - Fair
		Bearing Seat:	G - Good
Comments:	- Abutments, and wingwalls in good condition overall. Some mild efflorescence on abutment exterior back wall corners under the curb expansion joint area due to concrete missing above. Bearings un-inspectable but assumed to be in fair condition. Bearing seat exterior edges in good condition, interior hidden by diaphragms.		
SUPERSTRUCTURE			
Condition:	G - Good	Expansion Joints:	P3 - Poor
Comments:	- Expansion joints are heavily damaged. Sections of the steel embed have been torn away, seals are torn and curb plates are exposed and bent. No chaulking on curb exteriors. - Girders, bottom of deck, soffit and fascia in good condition.		
DECK			

Condition:	F2 - Fair	Curbs:	P3 - Poor
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	F1 - Fair		
Comments:	- Approach/exit rails have some damage rail sections with several damaged/heavily spilt posts, are butt joined to the ends of the end blocks, complete with hazard markers and do not have collision dampening posts. - End blocks in fair condition. - Curbs have relatively large spalls around the expansion joint areas, P3. - Handrails have minor dents/scrapes throughout. Northwest corner is torn from the flyer, P3 - Deck not paved. Numerous sections of rust staining on the deck surface indicating rebar is just below or at the surface. Aggregate colors visible across the deck. - Approach asphalt is in good condition but is heavily patched at the tie in to the expansion joints. - No deck drains.		

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:	- Northeast corner has lost rip-rap, no scour.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2024	Replacement Year:	2050
Antic. Rehab. Cost:	\$45,000	Replacement Cost:	\$1,800,000
Recommendations:	- Replace guiderail and posts as required. Replace expansion joints. Repair curb concrete and re-chalk. Replace/reposition riprap on upstream corners.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
Additional Observations:	- Hazards small slopes, and light traffic.		

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