Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B12142021-3 Category: Office - Bridge Office			
Date: 10/31/2021						
BRIDGE INFORMATIO	N					
Site:	5-033 - MOUNTAIN E	BROOK BRIDGE				
Route:	500		Overall Le	ngth:	31.4 <b>m</b>	
Year Built:	1989	Est: No	Overall W	idth:	12.3 <b>m</b>	
Year Last Rehab.:		Est: No	Roadway	Width:	11.3 <b>m</b>	
Region:	LABRADOR		Sidewalk	Width:	0 <b>m</b>	
Jurisdiction:	Provincial		Clearance N.W.L.:	to R.D. or	4.2 <b>m</b>	
Type of Structure:	08 - Steel Bridge		Max Depth	n of N.W.L.:	1.2 <b>m</b>	
Purpose of Structure:	04 - Over Non-Naviga	able Waters	Spans:			
Гуре of Handrail:	01 - Aluminum Rail		<u>Span No.:</u>	Length	Span No.:	<u>Length</u>
Roadway Surface:	01 - Concrete		1	16	4	0
Alignment Vertical:	01 - Good		2	0	5	0
Alignment Horizontal:	01 - Good		3	0	6	0
Restrictions:	No					
SUBSTRUCTURE	2006/10/25		2006/10/25			
Condition:	G - Good	Bearin	n <b>gs:</b> F2	- Fair		
		Beari	ng Seat: F2	- Fair		
Comments:	- Abutments, and wingwalls in good condition Bearing seats and bearings too high for inspection. Bearing seat edges have no spalls or cracks. Assumed to be in fair condition.					
SUPERSTRUCTURE						
Condition:	G - Good	Expar	nsion Joints: F1	- Fair		
	- Expansion joints full of gravel. East abutment has rust stains from the bearing seat down over the face. Suspec leaking seals in the east expansion joint, assumed P3. Exterior curb expansion gaps have no chaulking Soffit and bottom of deck concrete in good condition Both fascia's have a visible cold joint Six girders have light to moderate surface corrosion. All braces are painted with small areas of flaking paint and light corrosion, G.					
Comments:	leaking seals in the e and bottom of deck c	oncrete in good condition I	Both fascia's have a visible	e cold joint	Six girders ha	ive light to

Condition	F2 - Fair	Currha	F2 - Fair				
Condition:		Curbs:					
Hand Rail:	F2 - Fair	Roadway Con	ndition: P3 - Poor				
Approach Rail:	F1 - Fair						
Comments:	- Approach/exit rails have some damaged rail sections with several split posts on the southeast exit, rails are connected to end blocks, complete with hazard markers, and does not have collision dampening posts prior to end blocks End blocks have mild map cracking Asphalt in poor condition on west approach with numerous humps/bumps, P3. Joint with both approach slabs opening and foundering. No asphalt on deck or approach slabs Deck concrete in fair condition, aggregate colors showing throughout. Just east of the west expansion joint, concrete has numerous small surface delaminations, exposing rebar in one location. Approach slab joint with main deck opening on both sides of the bridge Curbs in fair condition Structure handrail has minor scrapes and dents throughout, F2.						
HYDROLOGY							
Water Velocity:	1.5 <b>m/s</b>	Ice Problem:	N - No Problem				
Water Depth:	Deep <b>m</b>	Scour Probler	m: N - No Problem				
Waterway:	01 - Adequate	Debris Proble	m: N - No Problem				
Comments:	- Both upstream footing co bedrock.	orners have significant rip-rap mi	igration. Still has good positioning. Footings poured o				
REPLACEMENT/REHAB							
Next Rehab. Date:	2024	Replacement	<b>Year:</b> 2050				
Antic. Rehab. Cost:	\$40,000	Replacement	<b>Cost:</b> \$1,800,000				
Recommendations:	<ul> <li>Re-grade west approach subgrade and repave. Seal joint between asphalt and approach slab. Seal joints between approach slab and deck. Install collision dampening pots prior to end blocks. Install chaulking on exterior curb expansion gaps. Clean expansion joint seals and check for torn seals (east suspected for leakage).</li> </ul>						
OBSERVATIONS							
Overall Condition:	F2 - Fair	Requires Furt Inspection:	t <b>her</b> No				
Additional Observations:	- Hazards mild traffic, slop	es and traversing rip-rap.					
EGEND: Condition Definitions: 1 - "Good - [discontinued code]. 2 - "Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. PHOTO GUIDELINES: Inspection Photos: Please provide photos using guideling Please provide photos using guideling MI terms moted above as Any evidence of known ice	F1 - Fair. P3 - Poor. P1 - Poor. P - Poor.	C - Unsafe (Closed to Public). U - Uninspectable. I - Inapplicable. ograpn	Problem Definitions:       Category Definitions:         N - No Problem.       Maint Maintenance.         P - Possible Problem.       Eng Engineering.         K - Known Problem.       Office - Bridge Office.         NA - Not Applicable.       Office - Bridge Office.				
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