Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation a		BRIDGE INSPECTION REPORT B11232021-2 Category: Office - Bridge Office					
Date: 10/26/2021	Inspected By: Mike But	ton						
BRIDGE INFORMATION								
Site:	5-008 - LANSE AU LOUP	BROOK BRIDGE						
Route:			Overall Leng	jth:	36.5 <b>m</b>			
Year Built:	1970	Est: No	Overall Widt	Overall Width:		8.7 <b>m</b>		
Year Last Rehab.:		Est: No	Roadway Wi	Roadway Width:		7.4 <b>m</b>		
Region:	LABRADOR		Sidewalk Width: 0 m		0 <b>m</b>			
Jurisdiction:	Provincial		Clearance to R.D. or N.W.L.:		11.3 <b>m</b>	11.3 <b>m</b>		
Type of Structure:	03 - Reinforced Concrete I	03 - Reinforced Concrete Beam/Slab		Max Depth of N.W.L.:		0.4 <b>m</b>		
Purpose of Structure:	04 - Over Non-Navigable \	Waters	Spans:					
Type of Handrail:	04 - Steel Rail		<u>Span No.:</u>	<u>Length</u>	Span No.:	<u>Length</u>		
Roadway Surface:	01 - Concrete		1	25.5	4	0		
Alignment Vertical:	01 - Good		2	0	5	0		
Alignment Horizontal:	01 - Good		3	0	6	0		
Restrictions:	No							
	2006/10/29		10 <sup>-1</sup> 10 <sup>-22</sup>					
SUBSTRUCTURE								
Condition:	F2 - Fair	Bearings:	U - U	U - Uninspectable				
		Bearing Se	<b>at:</b> F2 - F	air				
Comments:	- West abutment has a medium wide vertical crack around the mid-point of the face. Northwest abutment back wall area has moderate disintegration to the corner, back wall and side of wingwall, P3. All wingwalls in fair condition otherwise East abutment in fair condition. Substructure F2 overall Bearings too high for inspection. Bearing seat edges appear in fair condition from below.							
SUPERSTRUCTURE								
Condition:	F2 - Fair	Expansion	Joints: P3 - F	Poor				
Comments:	- West expansion joint and curb is leaking causing damage to the concrete below. East expansion joint appears to be in fair condition with no visible sign of leakage Girders in fair condition with transverse reinforcement exposed on the bottom flange with moderate corrosion directly above the bearing seat in some locations. Bottom of deck in fair condition with some wet/damp locations at the girder attachment, indicating the start of water migration through a crack in the deck, F2.							

DECK							
Condition:	F2 - Fair		Curbs:	P3 - Poor			
Hand Rail:	F2 - Fair		Roadway Condition	: F1 - Fair			
Approach Rail:	F2 - Fair						
Comments:	- Approach rails in fair condition, connected to end blocks complete with end blocks. No energy dampening posts prior to end blocks. End blocks have light spalling at the tops on the roadway side, likely flyer damage Roadway curbs have light disintegration to reinforcement in isolated locations Asphalt in fair condition on approaches with moderate potholes, cracking and rutting in the asphalt prior to the bridge deck. Asphalt/gravels on approaches have settled and is causing cracking immediately prior to the bridge. No asphalt on deck. Concrete surface has aggregate showing throughout indicating some surface wear. Light sand build up against curbs Structure handrail in fair condition South fascia/exterior curb construction joint starting to open up. Mild spalling southeast curb around the expansion joint and additional medium spalls about 2m from the expansion joint towards the west. Southwest curb west of the expansion joint has moderate disintegration to the curb/wingwall construction joint and immediately below, likely caused by water/chloride migration between the deck and curb Leakage observed around deck drain pipe sleeves through the deck concrete causing mild spalling and rust staining.						
HYDROLOGY							
Water Velocity:	Fast <b>m/s</b>		Ice Problem:	N - No Prob	lem		
Water Depth:	Deep <b>m</b>		Scour Problem:	N - No Prob	lem		
Waterway:	01 - Adequate		Debris Problem:	N - No Prob	lem		
Comments:	- Abutments out of water, water has no impact.						
REPLACEMENT/REHAB							
Next Rehab. Date:	2024		Replacement Year:	2045	2045		
Antic. Rehab. Cost:	\$50,000		Replacement Cost:	ement Cost: \$1,800,000			
Recommendations:	- Install extra posts prior to end blocks. Repair concrete defects around expansion joints. Replace west expansion joint and re-chaulk curbs within 3 years to prevent excessive damage to west abutment Recommend re-grading the first 2m of both approaches to correct the granular base for the asphalt. Recommend waterproofing and placing a layer of asphalt over the deck.						
OBSERVATIONS							
Overall Condition:	F2 - Fair		Requires Further Inspection:	No			
Additional Observations:	- Traffic control required	for inspection. Ha	zards; moderate traffic	, steep slopes and t	travelling over large rip rap.		
EGEND: condition Definitions: 1 - "Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - "Unsafe - [discontinued code]. 6 - Good. PHOTO GUIDELINES: https://docs.com/discontinued/file/ https://docs.com/discontinued/file/ https://docs.com/discontinued/file/ https://docs.com/discontinued/file/ https://docs.com/discontinued/file/ https://docs.com/discontinued/file/ https://docs.com/discontinued/file/ file/	F2 - Fair. F1 - Fair. P3 - Poor. P1 - Poor. P - Poor.	C - Unsafe (Closed to U - Uninspectable. I - Inapplicable.	Public). N - P - K -	oblem Definitions: No Problem. Possible Problem. Known Problem. A - Not Applicable.	Category Definitions: Maint Maintenance. Eng Engineering. Office - Bridge Office.		
Please provide photos using guidelin Any item which inspector i All items noted above as b Any evidence of known ice	eeis snoula pe accumentea by pr eing P3, P1, P, or C scour, debris, waterway problem	notograpn ns					

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.