Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BRIDGE INSPECTION REPORT B10132021-7 Category: Office - Bridge Office					
Date: 10/6/2021								
BRIDGE INFORMATION	l							
Site:	2-073 - CHAPEL ARM B	BRIDGE						
Route:	201-10		(Overall Leng	jth:	20 m		
Year Built:	1988	Est: No	(Overall Width:		11 m	11 m	
Year Last Rehab.:		Est: No	F	Roadway Width: 9.5		9.5 m	9.5 m	
Region:	CENTRAL EAST		\$	Sidewalk Width: 0 m				
Jurisdiction:	Provincial			Clearance to R.D. or 1.5 m				
Type of Structure:	03 - Reinforced Concrete	e Beam/Slab	I	Max Depth o	f N.W.L.:	2 m	2 m	
Purpose of Structure:	03 - Over Navigable Wat	ters	\$	Spans:				
Type of Handrail:	01 - Aluminum Rail			Span No.:	<u>Length</u>	Span No.:	<u>Length</u>	
Roadway Surface:	02 - Asphalt			1	12	4	0	
Alignment Vertical:	01 - Good			2	0	5	0	
Alignment Horizontal:	01 - Good		:	3	0	6	0	
Restrictions:	No							
	2012/12/06		2012/12/06					
SUBSTRUCTURE								
Condition:	F2 - Fair		arings:	P3 - Poor				
		Bea	aring Seat:	F2 - F	air			
Comments:	- Both abutment faces in fair condition, F2. Bearings appear small for structure, bearing seat in fair condition, F2. Wingwalls in fair condition Trap/drain under beams against the back wall visibly draining water with efflorescence.							
SUPERSTRUCTURE								
Condition:	P3 - Poor	Exp	ansion Joints:	P3 - F	Poor			
Comments:	- Soffit has medium cracking with efflorescence around expansion joints, in fair condition across structure otherwise Both north and south fascias in fair condition All beams exhibiting a combination of 45 degree shear cracks and random shrinkage/deterioration cracks over bearing seats. Northeast, and southeast beams also have efflorescence emerging from said cracks. Southwest beam end block disintegrating likely to due to shrinkage/freeze thaw cycles Beams otherwise have mild cracking throughout Bottom of deck in fair condition, sporadic areas have light cracking with effloresce Expansion joints leaking, and concrete around the							

	embedded steel is likely cracked based on the efflorescence in locations below, P3 All visible diaphragms ha medium-wide cracks throughout.							
DECK								
Condition:	F1 - Fair	Curbs:	F2 - Fair					
Hand Rail:	F2 - Fair	Roadway Condition:	F1 - Fair					
Approach Rail:	F2 - Fair							
Comments:	 Curbs in fair condition, F2 Approach/exit rails in fair condition, connected to end blocks complete with hazard markers Asphalt has many potholes along the centerline and cracked over approaches, F1 Structural handra in fair condition, F2. 							
HYDROLOGY								
Water Velocity:	Slow m/s	Ice Problem:	N - No Problem					
Water Depth:	Deep m	Scour Problem:	N - No Problem					
Waterway:	01 - Adequate	Debris Problem:	N - No Problem					
Comments:	- No comment.							
REPLACEMENT/REHAB	ILITATION							
Next Rehab. Date:	2024	Replacement Year:	2060					
Antic. Rehab. Cost:	\$100,000	Replacement Cost:	\$2,000,000					
Recommendations:	- Beam work TBD Replace expansion joints and repair disintegration on southwest beam over bearing area.							
OBSERVATIONS								
Overall Condition:	F2 - Fair	Requires Further Inspection:	Yes					
Additional Observations:	- Hazards, mild traffic, and slopes.							
EGEND: 2ondition Definitions: 1 - *Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. *HOTO GUIDELINES: nspection Photos: Please provide photos using guidelin Any nem winch inspector i All items noted above as b	F2 - Fair. C - Unsafe (Closed to F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P1 - Poor. P - Poor. eets shouto be documented by photograph eing P3, P1 P, or C scour, debris, waterway problems	o Public). N - No P - Po K - Kr	lem Definitions: o Problem. Maint Maintenance. ssible Problem. Eng Engineering. nown Problem. Office - Bridge Office. Not Applicable.					
Any evidence of known ice INSPECTION PHOTOS	, scour, debris, waterway problems							

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