Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure		BR	BRIDGE INSPECTION REPORT B09162021-12				
Date: 9/2/2021	Inspected By: Mike Button			Category: Office - Bridge Office				
BRIDGE INFORMATION								
Site:	TCH-043 - ASPEN BRC	OK BRIDGE						
Route:				Overall Leng	gth:	19.3 <b>m</b>		
Year Built:	1964	Est: No		Overall Widt	th:	14 <b>m</b>		
Year Last Rehab.:		Est: No		Roadway W	idth:	12.5 <b>m</b>		
Region:	CENTRAL WEST			Sidewalk Wi	dth:	0 <b>m</b>		
Jurisdiction:	Provincial			Clearance to N.W.L.:	Clearance to R.D. or 3 m			
Type of Structure:	02 - Double Tee			Max Depth o	of N.W.L.:	1 <b>m</b>		
Purpose of Structure:	04 - Over Non-Navigabl	e Waters		Spans:				
Type of Handrail:	01 - Aluminum Rail			Span No.:	Length	Span No.:	<u>Length</u>	
Roadway Surface:	02 - Asphalt			1	11	4	0	
Alignment Vertical:	01 - Good			2	0	5	0	
Alignment Horizontal:	01 - Good			3	0	6	0	
Restrictions:	No							
SUBSTRUCTURE	Care mark							
	P1 - Poor		Paaringa		nnliaghla			
Condition:			Bearings:	I - Inapplicable				
			Bearing Seat:	P1 - I				
Comments:	- East abutment face in fair condition with some waterline concrete erosion. Northeast bearing area has a medium spall which has undermined the exterior double tee. Abutment corner under the spall is cracked and about to spall West abutment face in fair condition. Northwest creep block detached from bearing area. Interior spalls nearing loss of bearing to double tees, P1 Water visible running down the face of both abutments from the bearing area.							
SUPERSTRUCTURE								
Condition:	P1 - Poor		Expansion Joir	pansion Joints: P3 - Poor				
Comments:	- Rebar grid either showing or outline can be seen in at least 50% of the areas under the deck Joints between all pre-cast double tee sections leaking with rust and efflorescent build up, indicating a cracked deck above, P3 Most precast double tee sections exhibiting severe spalling and deterioration with potentially compromising damage. Particularly the pre-cast panel near the center line of the structure where both tees have exposed pre-							

	stressing strands with one of the strands severed. Downstream precast panel has seen efforts to encase the tees, patches are cracked and spalling in some locations Area around downstream deck drain has exposed reinforcement with severe corrosion Both expansion joints leaking, P3.						
DECK							
Condition:	P3 - Poor	Curbs:	P3 - Poor				
Hand Rail:	F1 - Fair	Roadway Condition:	P3 - Poor				
Approach Rail:	F1 - Fair						
Comments:	<ul> <li>Handrail in fair condition, F1 Asphalt in fair condition, pavement has medium cracking around expansion joints, F1 Approach/exit rails in fair condition, F1 Curbs have medium-wide cracking spanning over the expansion joints (possible settlement?), otherwise in fair condition.</li> </ul>						
HYDROLOGY							
Water Velocity:	0.3 <b>m/s</b>	Ice Problem:	N - No Problem				
Water Depth:	0.3 <b>m</b>	Scour Problem:	P - Possible Problem				
Waterway:	01 - Adequate	Debris Problem:	N - No Problem				
Comments:	- No comment.						
REPLACEMENT/REHAB	ILITATION						
Next Rehab. Date:		Replacement Year:	2022				
Antic. Rehab. Cost:	\$0	Replacement Cost:	\$100000				
Recommendations:	- Replace structure with box culvert.						
OBSERVATIONS							
Overall Condition:	P1 - Poor	Requires Further Inspection:	Yes				
Additional Observations:	- Structure in poor condition. Bridge inspected by Chief Bridge Engineer in early July. This was a follow up inspection. Speed limit reduced to 30km/hr with region 3 monitoring the structure until replacement.						
LEGEND: 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 guidelin Any item writch inspector in Any evidence of known ice	F2 - Fair.       C - Unsafe (Clover, F1 - Fair.         F1 - Fair.       U - Uninspectal         P3 - Poor.       I - Inapplicable.         P1 - Poor.       P - Poor.         P - Poor.       P - Poor.         Pis poor.       P - Poor.         P - Poor.       P - Poor.	sed to Public). N - No P ble. P - Poss K - Knov	I <u>Definitions:</u> Toblem. Bigle Problem. Maint Maintenance. Eng Engineering. Mn Problem. Office - Bridge Office. Applicable.				
	Department of Transportation and Infrastru	cture Government of Newfoundland and La	hrador 2021				

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