

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B11222022-1</b>																	
<b>Date:</b> 7/29/2022	<b>Inspected By:</b> M Button	<b>Category:</b> Office - Bridge Office																	
<b>BRIDGE INFORMATION</b>																			
<b>Site:</b>	TCH-057 - CROOKED FEEDER BRIDGE																		
<b>Route:</b>		<b>Overall Length:</b>	18.7 m																
<b>Year Built:</b>	1965	<b>Est:</b> No	<b>Overall Width:</b> 14.3 m																
<b>Year Last Rehab.:</b>	1990	<b>Est:</b> No	<b>Roadway Width:</b> 12.5 m																
<b>Region:</b>	WEST COAST/NORTHERN		<b>Sidewalk Width:</b> 0 m																
<b>Jurisdiction:</b>	Provincial		<b>Clearance to R.D. or N.W.L.:</b> 2.1 m																
<b>Type of Structure:</b>	02 - Double Tee		<b>Max Depth of N.W.L.:</b> 0.4 m																
<b>Purpose of Structure:</b>	03 - Over Navigable Waters		<b>Spans:</b>																
<b>Type of Handrail:</b>	01 - Aluminum Rail		<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Span No.:</u></th> <th style="text-align: left;"><u>Length</u></th> <th style="text-align: left;"><u>Span No.:</u></th> <th style="text-align: left;"><u>Length</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>11.2</td> <td>4</td> <td>0</td> </tr> <tr> <td>2</td> <td>0</td> <td>5</td> <td>0</td> </tr> <tr> <td>3</td> <td>0</td> <td>6</td> <td>0</td> </tr> </tbody> </table>	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>	1	11.2	4	0	2	0	5	0	3	0	6	0
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1	11.2	4	0																
2	0	5	0																
3	0	6	0																
<b>Roadway Surface:</b>	02 - Asphalt																		
<b>Alignment Vertical:</b>	01 - Good																		
<b>Alignment Horizontal:</b>	01 - Good																		
<b>Restrictions:</b>	No																		
<b>BRIDGE PHOTOS</b>																			
<div style="display: flex; justify-content: space-around;">   </div>																			
<b>SUBSTRUCTURE</b>																			
<b>Condition:</b>	P3 - Poor	<b>Bearings:</b>	I - Inapplicable																
		<b>Bearing Seat:</b>	P3 - Poor																
<b>Comments:</b>	- Both abutment exterior corners have severe disintegration exposing reinforcement and are otherwise in fair condition. - Wingwalls have numerous severe spalls exposing reinforcement. - Bearing seats have severe disintegration on the exteriors undermining double tees. - No bearings.																		
<b>SUPERSTRUCTURE</b>																			
<b>Condition:</b>	P3 - Poor	<b>Expansion Joints:</b>	P1 - Poor																
<b>Comments:</b>	- Fascia construction joints between the precast and cast in place deck are leaching efflorescent material. - Numerous double tees have spalls and wide longitudinal cracks with efflorescence. Pre-stressing exposed on exterior ends. - Deck soffit between double tee pre cast sections in fair condition however there is leachate between some panels. - Both expansion joints paved over with severe efflorescent leachate over the west abutment face.																		

<b>DECK</b>			
<b>Condition:</b>	F1 - Fair	<b>Curbs:</b>	F2 - Fair
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	P3 - Poor
<b>Approach Rail:</b>	F2 - Fair		
<b>Comments:</b>	- Asphalt over expansion joints has numerous transverse cracks with potholes, P1. Approach and structure asphalt has several surface course potholes. - Curbs tops covered in gravels. - Structure rail in fair condition. - Guiderail in fair condition, connected to end blocks, has regulation post spacing and is complete with hazard markers. - End blocks have various delaminations and spalls.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	0.1 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.3 m	<b>Scour Problem:</b>	N - No Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	- Slow flow in area with aquatic grass conditions.		
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>		<b>Replacement Year:</b>	2027
<b>Antic. Rehab. Cost:</b>	\$	<b>Replacement Cost:</b>	\$2,000,000
<b>Recommendations:</b>	- Replace the bridge within 5 years.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	P3 - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	- Bridge overall in poor condition and needs replacement. Double tees should be monitored for progression of deterioration.		
<b>LEGEND:</b>			
<b>Condition Definitions:</b>		<b>Problem Definitions:</b>	
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.
G - Good.	P - Poor.		
		<b>Category Definitions:</b>	
		Mant. - Maintenance.	
		Eng. - Engineering.	
		Office - Bridge Office.	
<b>PHOTO GUIDELINES:</b>			
<b>Inspection Photos:</b>			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> <li>● Any item which inspector feels should be documented by photograph</li> <li>● All items noted above as being P3, P1, P, or C</li> <li>● Any evidence of known ice, scour, debris, waterway problems</li> </ul>			
<b>INSPECTION PHOTOS</b>			