
	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B07152021-2</b>																	
<b>Date:</b> 7/6/2021	<b>Inspected By:</b> McCaw J	<b>Category:</b> Eng. - Engineering																	
<b>BRIDGE INFORMATION</b>																			
<b>Site:</b>	3-073 - MILL BROOK BRIDGE, PT. LEAMINGTON																		
<b>Route:</b>	350	<b>Overall Length:</b>	25.9 m																
<b>Year Built:</b>	1978	<b>Est:</b> No	<b>Overall Width:</b> 0 m																
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 8 m																
<b>Region:</b>	CENTRAL WEST	<b>Sidewalk Width:</b>	0 m																
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	3.5 m																
<b>Type of Structure:</b>	02 - Double Tee	<b>Max Depth of N.W.L.:</b>	1.5 m																
<b>Purpose of Structure:</b>	04 - Over Non-Navigable Waters																		
<b>Type of Handrail:</b>	01 - Aluminum Rail																		
<b>Roadway Surface:</b>	02 - Asphalt	<table border="1" 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>16</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	16	4	0	2	0	5	0	3	0	6	0
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1	16	4	0																
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3	0	6	0																
<b>Alignment Vertical:</b>	01 - Good																		
<b>Alignment Horizontal:</b>	02 - Adequate																		
<b>Restrictions:</b>	No																		
<b>BRIDGE PHOTOS</b>																			
																			
<b>SUBSTRUCTURE</b>																			
<b>Condition:</b>	F2 - Fair	<b>Bearings:</b>	I - Inapplicable																
		<b>Bearing Seat:</b>	F2 - Fair																
<b>Comments:</b>	Wingwalls have significant efflor. Curtain wall spalling on NE end. Significant erosion around wingwalls. Cracks in upstream wingwalls.																		
<b>SUPERSTRUCTURE</b>																			
<b>Condition:</b>	F2 - Fair	<b>Expansion Joints:</b>	P1 - Poor																
<b>Comments:</b>	Some leaking through double tees. Expansion joints filled or covered with asphalt.																		
<b>DECK</b>																			
<b>Condition:</b>	P3 - Poor	<b>Curbs:</b>	P3 - Poor																
<b>Hand Rail:</b>	F2 - Fair	<b>Roadway Condition:</b>	P3 - Poor																

<b>Approach Rail:</b>	P3 - Poor		
<b>Comments:</b>	Asphalt needs to be removed and replaced. Numerous patches, deck visible, curbs and sidewalks damaged.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	1.5 m/s	<b>Ice Problem:</b>	N - No Problem
<b>Water Depth:</b>	0.5 m	<b>Scour Problem:</b>	K - Known Problem
<b>Waterway:</b>	01 - Adequate	<b>Debris Problem:</b>	N - No Problem
<b>Comments:</b>	Significant erosion around S side wingwall. Scour visible under footings.		
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2022	<b>Replacement Year:</b>	2040
<b>Antic. Rehab. Cost:</b>	\$250000	<b>Replacement Cost:</b>	\$3000000
<b>Recommendations:</b>	Correct erosion in near future. Remove asphalt, repair deck, repair curbs. Install new end blocks and steel rail. Install new guiderail -structures. May require gabion walls to reduce slopes around wingwalls. Repair wingwalls and curtain walls. Install new deck drains and replace expansion joints.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	P3 - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>	P1 - Erosion around wingwalls. P3 - Decks wingwalls. A small waterline has been installed by locals on downstream side. Does not appear to be a municipal line. Parking ok. Hazards: Traffic, Slipping, Water		
<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>			
Maint. - 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>			

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