

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	<b>BRIDGE INSPECTION REPORT</b> <b>B03242024-1</b>	
<b>Date:</b> 9/26/2023	<b>Inspected By:</b> M Button / T Upshall	<b>Category:</b> Eng. - Engineering	
<b>BRIDGE INFORMATION</b>			
<b>Site:</b>	TCH-113 - TCH-RT.13 UNDERPASS WITLESS BAY LINE		
<b>Route:</b>	13	<b>Overall Length:</b>	59 m
<b>Year Built:</b>	1989	<b>Est:</b> No	<b>Overall Width:</b> 10.5 m
<b>Year Last Rehab.:</b>		<b>Est:</b> No	<b>Roadway Width:</b> 9 m
<b>Region:</b>	AVALON PENINSULA	<b>Sidewalk Width:</b>	0.75 m
<b>Jurisdiction:</b>	Provincial	<b>Clearance to R.D. or N.W.L.:</b>	6.1 m
<b>Type of Structure:</b>	05 - Pre-stressed Concrete Slab	<b>Max Depth of N.W.L.:</b>	0 m
<b>Purpose of Structure:</b>	01 - Highway Grade Separation	<b>Spans:</b>	
<b>Type of Handrail:</b>	01 - Aluminum Rail	<b>Span No.:</b>	<b>Length</b>
<b>Roadway Surface:</b>	02 - Asphalt	<b>Span No.:</b>	<b>Length</b>
<b>Alignment Vertical:</b>	01 - Good	1	22.8
<b>Alignment Horizontal:</b>	01 - Good	2	22.8
<b>Restrictions:</b>	No	3	0
		4	0
		5	0
		6	0
<b>BRIDGE PHOTOS</b>			
			
<b>SUBSTRUCTURE</b>			
<b>Condition:</b>	F1 - Fair	<b>Bearings:</b>	F1 - Fair
		<b>Bearing Seat:</b>	F1 - Fair
<b>Comments:</b>	Medium pattern cracking to center concrete piers with more severe pattern cracking near the bearings. Light surface corrosion with less than 10 percent section loss of material to bearings. Lumber/debris accumulating on bearing seat. Hairline vertical/horizontal cracks in wingwalls. Hairline pattern cracking on bearing seat. Graffiti covering abutment face.		
<b>SUPERSTRUCTURE</b>			
<b>Condition:</b>	P3 - Poor	<b>Expansion Joints:</b>	P3 - Poor
<b>Comments:</b>	Severe spalling to soffit over bearing seat. Narrow longitudinal cracking in deck soffit/fascia. Light spalling, exposed reinforcement, and narrow pattern cracking with light efflorescence deposits to deck fascia over bearing seat. Damaged SE expansion joint (snowplow abrasion) with exposed corroded steel on bridge deck. Light abrasions to expansion joint dam and seals blocked with sand. Medium spalling/delamination with wide cracks to		

curb fascia at expansion joint dams. Severe deterioration to caulking around expansion joints.			
<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>	Wide horizontal crack to interior/exterior curb fascia. Wide pattern cracking with light efflorescence deposits to NE/NW end blocks. Narrow pattern cracking to SE/SW end blocks. Narrow vertical cracks in curb above wingwalls. No structural guiderail, end shoe connections or hazard markers. Medium erosion to SE corner subgrade causing light progressive edge cracking and failure to asphalt surface. Standard guiderail attached to end blocks with only two bolts. Severe decay to guiderail posts. Severe potholes and medium raveling to asphalt surface. Asphalt deck contains areas of patching from previous potholes. Medium transverse asphalt cracks at north/south approaches. Severe damage to east median guiderail from vehicle collision.		
<b>HYDROLOGY</b>			
<b>Water Velocity:</b>	n/a m/s	<b>Ice Problem:</b>	NA - Not Applicable
<b>Water Depth:</b>	n/a m	<b>Scour Problem:</b>	NA - Not Applicable
<b>Waterway:</b>	03 - Not Applicable	<b>Debris Problem:</b>	NA - Not Applicable
<b>Comments:</b>			
<b>REPLACEMENT/REHABILITATION</b>			
<b>Next Rehab. Date:</b>	2025	<b>Replacement Year:</b>	2050
<b>Antic. Rehab. Cost:</b>	\$0	<b>Replacement Cost:</b>	\$0
<b>Recommendations:</b>	Repair concrete defects. Install structural guiderail and hazard markers. Repair expansion joints. Address erosion issues. Replace median guiderail. Resurface asphalt deck. Remove lumber debris from bearing seat. Caulk expansion joints. Remove graffiti.		
<b>OBSERVATIONS</b>			
<b>Overall Condition:</b>	P3 - Poor	<b>Requires Further Inspection:</b>	No
<b>Additional Observations:</b>			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.