Newfoundland Labrador	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation	DICID	BRIDGE INSPECTION REPORT B10132021-1 Category: Office - Bridge Office				
Date: 10/6/2021	Inspected By: Mike Bu	utton					
BRIDGE INFORMATION							
Site:	2-072 - RANDOM ISLAN	D CAUSEWAY BRIDGE					
Route:	231		Overall Leng	gth:	33.5 m		
Year Built:	1978	Est: No	Overall Widt	:h:	11.4 m		
Year Last Rehab.:		Est: No	Roadway W	Roadway Width:		10.8 m	
Region:	CENTRAL EAST		Sidewalk Wi Clearance to		0 m		
Jurisdiction:	Provincial		N.W.L.:) R.D. or	3 m		
Type of Structure:	01 - AASH to Girder		Max Depth o	of N.W.L.:	4 m		
Purpose of Structure:	03 - Over Navigable Wat	ers	Spans:				
Type of Handrail:	01 - Aluminum Rail		Span No.:	<u>Length</u>	Span No.:	Length	
Roadway Surface:	02 - Asphalt		1	23.5	4	0	
Alignment Vertical:	01 - Good		2	0	5	0	
Alignment Horizontal:	01 - Good		3	0	6	0	
Restrictions:	No						
	+						
	P3 - Poor	O12/12/13		ninsnectah			
SUBSTRUCTURE Condition:	P3 - Poor	Output of the second se	U - U P3 - F	ninspectab	le		

1 - "Good - [discontinued code]. F2 - Fair. C - Unsafe (Closed to Public). N - No Problem. Maint Maintenance. 2 - "Fair. C - Unsafe (Closed to Public). P - Possible Problem. Eng Engineering. 3 - "Poor. P3 - Poor. I - Inapplicable. F - Known Problem. Office - Bridge Office. 4 - "Unsafe - [discontinued code]. P1 - Poor. P - Poor. NA - Not Applicable. Office - Bridge Office. PHOTO GUIDELINES: P1 Poor. Poor. Poor. Poor.	Condition:	P3 - Poor	Expansion Joints:	P3 - Poor				
Condition: F1 - Fair Curbs: P3 - Poor Hand Rail: F2 - Fair Roadway Condition: P3 - Poor Approach Rail: F1 - Fair Comments: - Approach/exit rails in fair condition, no end blocks, and hazard markers are in place Handrail in good condition Asphalt in fair condition with the exception of expansion joint areas. Expansion joints paved over, and surrounding areas are heavily cracked. Approach slash have potheles. P3 Most deck drains wom through, causing deck concrete cavies around them, accelerated deterioration to girders and bottom of deck, P3 Deck concrete generally in fair condition, F1 Curbs around several deck drains disintegrated, P3. HYDROLOGY Water Velocity: Tidal m/S Ice Problem: N - No Problem Water Velocity: Tidal m/S Ice Problem: N - No Problem Water velocity: Tidal m Scour Problem: N - No Problem Comments: None Replacement Year: T.B.D. Replacement Rehab. Date: 2024 Replacement Cost: \$5,000,000 Recommendations: - Abutments/wingwalls heavily cracked with efflorescence, can only superficially rehab this Many girders have deterioration around deck drains. Scouth curb (likely the notho), all deck drains and expansion joints need replacement. Rehab telest \$500,000, could extend life to 2035.2040 as an estimate. Replacement os tikely \$5,000,000 Resenventionedations: <t< td=""><td>Comments:</td><td colspan="7">- Girder end blocks on structure corners have medium cracking with efflorescence throughout. Exterior girders, in areas of deck drains, have mild spalling, medium efflorescent build up and heavy rust staining, P3. Interior girders in fair condition with some small fist sized spalls to the bottom flange, F1 Bottom of deck has very sporadic light cracking with efflorescence throughout. Bottom of deck between first two exterior girders, especially near the expansion joints and deck drain locations, have medium cracking with efflorescence and heavy rust staining. Interior sections of deck has some locations with small spalls Expansion joints leaking over both abutments. Infill concrete around steel embedment's heavily cracked or disintegrated in the curb area. Steel embed heavily corroded, especially on the southeast corner South curb is disintegrated around most deck drains and has long wide cracks over the west approach North curb has mild rust staining, cracking and efflorescent leakage,</td></t<>	Comments:	- Girder end blocks on structure corners have medium cracking with efflorescence throughout. Exterior girders, in areas of deck drains, have mild spalling, medium efflorescent build up and heavy rust staining, P3. Interior girders in fair condition with some small fist sized spalls to the bottom flange, F1 Bottom of deck has very sporadic light cracking with efflorescence throughout. Bottom of deck between first two exterior girders, especially near the expansion joints and deck drain locations, have medium cracking with efflorescence and heavy rust staining. Interior sections of deck has some locations with small spalls Expansion joints leaking over both abutments. Infill concrete around steel embedment's heavily cracked or disintegrated in the curb area. Steel embed heavily corroded, especially on the southeast corner South curb is disintegrated around most deck drains and has long wide cracks over the west approach North curb has mild rust staining, cracking and efflorescent leakage,						
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Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.