

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09212021-2	
Date: 4/30/2020	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-264 - DOUBLE BROOK BRIDGE		
Route:		Overall Length:	6.1 m
Year Built:	1970	Est: No	Overall Width: 8.7 m
Year Last Rehab.:		Est: No	Roadway Width: 7.4 m
Region:	AVALON PENINSULA	Sidewalk Width:	0 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	1.8 m
Type of Structure:	02 - Double Tee	Max Depth of N.W.L.:	0.2 m
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:	
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	<u>Span No.:</u>	<u>Length</u>
Alignment Vertical:	01 - Good	1	5.5
Alignment Horizontal:	01 - Good	2	0
Restrictions:	No	3	0
		4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	F1 - Fair	Bearings:	P3 - Poor
		Bearing Seat:	F1 - Fair
Comments:	- Assumed condition of buried/ submerged reinf. concrete abutment footings. - Narrow vert. cracks with medium efflor. deposits in faces of abutments. - Medium to severe delamin./ spalling/ disintegration to abutment corners.		
SUPERSTRUCTURE			
Condition:	P3 - Poor	Expansion Joints:	I - Inapplicable
Comments:	- Severe delamin./ spalling/ disintegration with severe rusting to exposed reinf./ stressing cables on D/S exterior tee. - No visible signs of exp. joints. - Medium delamin./ spalling/ disintegration to bottom of U/S exterior tee. - Narrow long. cracks in bottoms of interior tees. - Medium efflor. deposits between double tees. - Severe spalling/ disintegration with severe rusting to exposed reinf. on SE creep block.		
DECK			

Condition:	F1 - Fair	Curbs:	P3 - Poor
Hand Rail:	P - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	F1 - Fair		
Comments:	- Handrail, P3 (U/S), F1 (D/S). - Severe delmin./ spalling/ disintegration with medium rusting to exposed reinf. on deck/ curb fascia. - Narrow trans./ vert. cracks with medium spalling to interior curb surfaces and fascia. - U/S end of concrete handrail struck and cracked off with sections of top railing missing. - No app./ exit guiderail on U/S end of bridge.		

HYDROLOGY

Water Velocity:	0.2 m/s	Ice Problem:	N - No Problem
Water Depth:	0.4 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Severe river bank erosion continues at NW end undermining crib/ gabion retaining wall.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	2020	Replacement Year:	2040
Antic. Rehab. Cost:	\$80	Replacement Cost:	\$400
Recommendations:	- Repair all concrete defects. - Repair and replace concrete handrail upstream and downstream - Correct river bank erosion problem. - Install U/S app./ exit guiderail. - In the interim, install cw hazard markers (maint).		

OBSERVATIONS

Overall Condition:	P - Poor	Requires Further Inspection:	Yes
Additional Observations:	P (U/S conc. handrail) P3 (exterior tees, deck/ curb fascia, SE creep block). F1 (remainder). Bridge Office to reinspect exterior double tees		

LEGEND:

Condition Definitions:			Problem Definitions:	Category Definitions:
1 - *Good - [discontinued code].	F2 - Fair.	C - Unsafe (Closed to Public).	N - No Problem.	Maint. - Maintenance.
2 - *Fair - [discontinued code].	F1 - Fair.	U - Uninspectable.	P - Possible Problem.	Eng. - Engineering.
3 - *Poor - [discontinued code].	P3 - Poor.	I - Inapplicable.	K - Known Problem.	Office - Bridge Office.
4 - *Unsafe - [discontinued code].	P1 - Poor.		NA - Not Applicable.	
G - Good.	P - Poor.			

PHOTO GUIDELINES:
Inspection Photos:
 Please provide photos using guidelines below:
 ● Any item which inspector feels should be documented by photograph
 ● All items noted above as being P3, P1, P, or C
 ● Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS