



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT
B01302020-14

Date: 1/30/2020

Inspected By: Alex Ford

Category: Eng. - Engineering

BRIDGE INFORMATION

Site:	2-059 - LAWN BRIDGE WEST (MAIN HWY.)				
Route:	220	Overall Length:	51 m		
Year Built:	1974	Est: No	Overall Width:	10.8 m	
Year Last Rehab.:		Est: No	Roadway Width:	9.4 m	
Region:	CENTRAL EAST	Sidewalk Width:	0 m		
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	6 m		
Type of Structure:	01 - AASH to Girder	Max Depth of N.W.L.:	0.5 m		
Purpose of Structure:	04 - Over Non-Navigable Waters	Spans:			
Type of Handrail:	02 - Concrete Rail	<u>Span No.:</u>	<u>Length</u>	<u>Span No.:</u>	<u>Length</u>
Roadway Surface:	02 - Asphalt	1	43	4	0
Alignment Vertical:	01 - Good	2	0	5	0
Alignment Horizontal:	01 - Good	3	0	6	0
Restrictions:	No				

BRIDGE PHOTOS





SUBSTRUCTURE

Condition:	F2 - Fair	Bearings:	F2 - Fair
		Bearing Seat:	P3 - Poor
Comments:	Concrete abutments and wingwalls. Footing abutment one left side is disintegrated due to deck drain spilling on it. Abutment corners left side deteriorated due to leakage. Map cracking with efflorescence on wingwalls. Scour under wingwall abutment 2 left, previously repaired but scoured again approx. 0.75m deep. Bearing pads have some squat. Bearing seats have debris and are wet from leakage. Abutment 2 Girder 2 bearing seat is severely cracked. Abutment 1 left has a washout adjacent to the bridge.		

SUPERSTRUCTURE

Condition:	F2 - Fair	Expansion Joints:	P3 - Poor
Comments:	AASHTO girders, light cracks and some exposed rebar. Diaphragms have significant exposed steel and delamination/spalls from this. Expansion joints are damaged and leaking, paved over.		

DECK

Condition:	F2 - Fair	Curbs:	F2 - Fair
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair
Approach Rail:	G - Good		
Comments:	Paved concrete deck. Concrete along left side of deck is disintegrated up to approx. 1.0-1.5m from left curb. Concrete hand rail has some impact damage and light cracks. Approach rail replaced 2019. Curbs left side have light cracking all over, right side has cracking along the wingwall sections. Construction joint between the deck and the curbs is cracked open (large - 25mm in places) mostly everywhere.		

HYDROLOGY

Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem
Water Depth:	0.5 m	Scour Problem:	N - No Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Scour along wingwall abutment two left was repaired after Hurricane Igor but has since scoured again. A stream runs along this wingwall into the river.		

REPLACEMENT/REHABILITATION

Next Rehab. Date:	Replacement Year:
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Antic. Rehab. Cost:	\$0	Replacement Cost:	\$0
Recommendations:	Rehab structure. Latex repairs, deck repairs, new drains, curbs, hand rail, expansion joints, repave deck, scour repairs at wingwall.		

OBSERVATIONS

Overall Condition:	F2 - Fair	Requires Further Inspection:	No
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Additional Observations:

LEGEND:		Problem Definitions:		Category Definitions:	
Condition 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 F3, P4, P1, or C
 • Any evidence of known ice, scour, debris, waterway problems

INSPECTION PHOTOS