

	GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure	BRIDGE INSPECTION REPORT B09152021-10	
Date: 4/27/2020	Inspected By: Hunt R	Category: Eng. - Engineering	
BRIDGE INFORMATION			
Site:	1-069 - WHITEWAY BRIDGE		
Route:	80	Overall Length:	16.4 m
Year Built:	1971	Est: No	Overall Width: 11.3 m
Year Last Rehab.:		Est: No	Roadway Width: 8.8 m
Region:	AVALON PENINSULA	Sidewalk Width:	1.75 m
Jurisdiction:	Provincial	Clearance to R.D. or N.W.L.:	3.1 m
Type of Structure:	02 - Double Tee	Max Depth of N.W.L.:	0.4 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	1	9.7
Alignment Vertical:	02 - Adequate	2	0
Alignment Horizontal:	02 - Adequate	3	0
Restrictions:	No	4	0
		5	0
		6	0
BRIDGE PHOTOS			
			
SUBSTRUCTURE			
Condition:	P3 - Poor	Bearings:	F1 - Fair
		Bearing Seat:	F1 - Fair
Comments:	- No footings, abutments poured directly onto bedrock. - Medium erosion and scour under both abutments. - Narrow vert./ alligator cracking with light efflor. deposits in abutment faces. - Medium spalling along exterior faces of north bearing seats. - Flow lines opening up in abutment faces. - Medium spalling/scaling and map cracking in 4 wingwalls - Severe delamin./ spalling/ disintegration to 4 corner creep blocks and exterior faces of bearing seats. - Medium erosion along bottom faces of abutments		
SUPERSTRUCTURE			
Condition:	P1 - Poor	Expansion Joints:	F1 - Fair
Comments:	- P1 (extension tees). - F1 (remainder). - Severe delamin./ spalling with medium rusting to exposed reinf. and stressing cables on U/S and D/S exterior tees - Wide horiz. cracks at ends of some tees. - Remaining interior tees have medium spalling/ delamin. with medium rusting to exposed reinf. (insuff cover). - No visible signs of expansion joints, no chaulking in exp. gaps in curbs.		

DECK			
Condition:	F1 - Fair	Curbs:	P3 - Poor
Hand Rail:	P1 - Poor	Roadway Condition:	P3 - Poor
Approach Rail:	F2 - Fair		
Comments:	- Curbs and sidewalk have medium spalling/ abrasion with medium trans./ vert. cracks. Ext. deck/curb fascias have med. trans./horiz. cracks with med. delamin./ spalling. - Some asphalt settlement at exp. joint locations. - Numerous med./large alligator cracks and medium/ severe spalling to 4 end blocks. - Numerous wide horiz. cracks and medium spalling to exposed reinf. at concrete handrails. - Minor scrapes, dents, damage and tipping posts to app./ exit guiderail.		
HYDROLOGY			
Water Velocity:	0.5 m/s	Ice Problem:	N - No Problem
Water Depth:	0.5 m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Some D/S rip-rap has migrated into channel. - Some shoulder erosion at 4 corners of structure.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2021	Replacement Year:	2021
Antic. Rehab. Cost:	\$250	Replacement Cost:	\$1500
Recommendations:	- Repair all concrete defects (esp. double tees). Correct scour problem. - Install new handrails, end blocks and curbs. - Install new exp. joints. Correct shoulder erosion and install extra rip-rap		
OBSERVATIONS			
Overall Condition:	P1 - Poor	Requires Further Inspection:	Yes
Additional Observations:	- Bridge office should re-inspect double tees and scour problem - P1 (scour/ double tees). - F1 (remainder).		
LEGEND:			
Condition Definitions:		Problem Definitions:	
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.		
Category Definitions:			
Maint. - Maintenance.			
Eng. - Engineering.			
Office - Bridge Office.			
PHOTO GUIDELINES:			
Inspection Photos:			
Please provide photos using guidelines below:			
<ul style="list-style-type: none"> ● 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			