38.2 m



GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT B09102021-9

Date: 8/26/2021 Inspected By: Mike Button Category: Office - Bridge Office

BRIDGE INFORMATION

Site: 1-055 - BISCAY BAY CAUSEWAY BRIDGE

Route: Overall Length:

Year Built:1975Est: NoOverall Width:0 mYear Last Rehab.:Est: NoRoadway Width:0 m

Region: AVALON PENINSULA Sidewalk Width: 0 m

Jurisdiction: Provincial Clearance to R.D. or N.W.L.: 0 m

Type of Structure: 01 - AASH to Girder Max Depth of N.W.L.: 0 m

Purpose of Structure: 03 - Over Navigable Waters Spans:

01 - Aluminum Rail Type of Handrail: Span No.: Length Span No.: Length 02 - Asphalt Roadway Surface: 1 29.8 4 01 - Good 2 0 5 0 Alignment Vertical: 3 0 6 0 02 - Adequate Alignment Horizontal:

Restrictions: No

BRIDGE PHOTOS





SUBSTRUCTURE

Condition: P1 - Poor **Bearings:** F1 - Fair

Bearing Seat: F1 - Fair

Comments: - West abutment footing has extreme scour, ~75% of the foundation soils have been removed. However,

foundation supported on timber piles which is taking the load, P1. Northwest bearing area has a medium spall approaching the girder, P3. Medium AAR around this spall. Bearing pads cannot be seen in most locations due to diaphragm construction to face of abutment. Bearing pads that can be seen have evidence of deformation. - East abutment footing has mild scour on the northeast corner. - Face of both abutments in fair condition. Footings also

in fair condition. F1 remainder.

SUPERSTRUCTURE

Condition: P3 - Poor **Expansion Joints:** F1 - Fair

Comments:- Most girders have medium sized areas with exposed stirrups with some spalling and medium-severe corrosion.

Some girders also have exposed reinforcement with severe corrosion to reinforcement under the bottom flange at the bearing area, P3. - Underside of deck in fair condition. - Some diaphragms have minor areas with exposed

	reinforcement with severe corrosion No evidence of leaking in expansion joints.		
DECK			
Condition:	F1 - Fair	Curbs:	F1 - Fair
Hand Rail:	F1 - Fair	Roadway Condition:	F1 - Fair
Approach Rail:	F1 - Fair		
Comments:	- Both fascias in fair condition, just weathering evident. Efflorescence evident running down the face behind handrail posts Asphalt has a wide transverse crack with potholes over each expansion joint, P1. Rest of asphalt F1 No end blocks and ~2m gap between approach/exit rail and structures handrail. Approach/exit rail in fair condition.		
HYDROLOGY			
Water Velocity:	Tidal m/s	Ice Problem:	N - No Problem
Water Depth:	Deep m	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	- Rip-rap seems too large for the area. Tid	es pulling finer material o	out between the large boulders.
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2022	Replacement Year:	2035
Antic. Rehab. Cost:	\$250000	Replacement Cost:	\$2000000
Recommendations:	- Repair all concrete defects Using trimming concrete to re-establish bearing under the west footing.		
OBSERVATIONS			
Overall Condition:	P3 - Poor	Requires Further Inspection:	No
Additional Observations:	- P1 scour, P3 girders, F1 remainder Conduit attached to downstream side of the structure. Hazards, traffic, steep slopes, climbing/descending rip-rap bounders with holes.		
LEGEND: Condition Definitions: 1 - *Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 4 - *Unsafe - [discontinued code]. G - Good. PHOTO GUIDELINES: Inspection Photos: Please provide photos using guideling Any term which inspector in Any term which inspector in Any evidence of known ice	F2 - Fair. C - Unsafe (Closed to F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P1 - Poor. P - Poor. P - Poor. nes below: eets should be documented by photograph eing P3, P1, P1, or C, scour, debris, waterway problems	Public). N - No P - Po K - Kı	tem Definitions: o Problem. ossible Problem. nown Problem. Not Applicable. Category Definitions: Maint Maintenance. Eng Engineering. Office - Bridge Office.
INSPECTION PHOTOS			

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2021.