

GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT B12132021-4

Date: 10/30/2021 Inspected By: Mike Button Category: Office - Bridge Office

BRIDGE INFORMATION

Site: 5-005 - EAST METCHIN RIVER BRIDGE

Route: 500

Year Built: 1993 Est: No Year Last Rehab.: Est: No

Region: LABRADOR

Jurisdiction: Provincial

Type of Structure: 08 - Steel Bridge

Purpose of Structure: 04 - Over Non-Navigable Waters

Type of Handrail: 01 - Aluminum Rail

Roadway Surface: 01 - Concrete

Alignment Vertical: 01 - Good

Alignment Horizontal: 01 - Good

Restrictions: No

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Overall Length: 39.5 m

Overall Width: 11.8 m

Roadway Width: 10.8 m

Sidewalk Width: 0 m

Clearance to R.D. or

N.W.L.:

Max Depth of N.W.L.: 3.1 m

Spans:

Span No.:	<u>Length</u>	Span No.:	<u>Length</u>
1	27	4	0
2	0	5	0
3	0	6	0

BRIDGE PHOTOS









SUBSTRUCTURE

Condition: G - Good **Bearings**: G - Good

Bearing Seat: G - Good

Comments: - Abutments, wingwalls, bearings and bearing seats in good condition. Abutment footings poured on bedrock.

SUPERSTRUCTURE							
Condition:	G - Good	Expansion Joints:	F2 - Fair				
Comments:	- Expansion joint seals full of gravel Exterior curb/soffit and bottom of deck concrete in good condition Six girders and their braces have light to moderate surface corrosion. Bearing end of girders and braces painted with small areas of flaking paint and light corrosion, G.						
DECK							
Condition:	F2 - Fair	Curbs:	F2 - Fair				
Hand Rail:	nd Rail: F2 - Fair		n: P3 - Poor				
Approach Rail:	P3 - Poor						
Comments:	- Deck concrete in fair condition, F2, aggregate colors showing throughout. Moderate to severe map cracking on west approach slab, P3. No deck drains. Gravel build up against curbs Approach/exit rails have some damaged rail sections with multiple damaged/split/demolished posts, P3 northwest, are connected to end blocks but have several bolts missing, west hazard markers are missing, east hazard markers are in place, and have collision dampening posts End blocks have mild map cracking Asphalt in fair condition on the approach to structure. Wide transverse cracks in asphalt at the joint to the east approach slab. Wide transverse cracks in asphalt ~1m to the west of the west approach slab entrance. Asphalt to approach slab joint opened up on both sides, P3. No asphalt over structure or west approach slab Curbs in fair condition with minor spalls to reinforcement on structure corners Structure handrail has minor scrapes and dents throughout, F2.						
HYDROLOGY							
Water Velocity:	1 m/s	Ice Problem:	N - No Problem				
Water Depth:	ater Depth: 0.5 m		P - Possible Problem				
Waterway:	01 - Adequate	Debris Problem:	N - No Problem				
Comments:	- Abutment footings poured on bedrock. Rip-rap side slope protection in good position. Deep water hole on southwest corner of west footing. Possible undermining here.						
REPLACEMENT/REHABILITATION							
Next Rehab. Date:	hab. Date: 2024		Replacement Year: 2060				
Antic. Rehab. Cost:	ic. Rehab. Cost: \$15,000		Replacement Cost: \$0				
Recommendations:	- 2022 - Replace northeast exit guide rail posts. Clean expansion joint seals 2024 - Fill asphalt cracks at joints to approach slab and to deck concrete. Fill concrete cracks on the west approach slab.						
OBSERVATIONS							
Overall Condition:	F2 - Fair	Requires Further Inspection:	No				
Additional Observations:	- Hazards mild traffic, slopes and travers	ing rip-rap.					
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 guidelir Any nem wnich inspector All tems noted above as b All tems noted above as b Any evidence of known ice	F2 - Fair. C - Unsafe (Closed F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P1 - Poor. P - Poor. eels spid pe documented by pnotograph eels Spid P1 P or C scour; debris, waterway problems	to Public). N P K	roblem Definitions: - No Problem. - Possible Problem. - Known Problem. - A - Not Applicable. Category Definitions: Maint Maintenance. - Eng Engineering. Office - Bridge Office.				
INSPECTION PHOTOS	INSPECTION PHOTOS						

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