

GOVERNMENT OF
NEWFOUNDLAND
AND LABRADOR
Department of Transportation and Infrastructure

BRIDGE INSPECTION REPORT B07242018-11

Date: 5/10/2018 Inspected By: Chris Lyver Category: Eng. - Engineering

BRIDGE INFORMATION

Site: 1-143 - MANUELS CNR OVERPASS MILE 14.56 RT2

Route: Overall Length: 40.9 m

Year Built:1984Est: NoOverall Width:18.5 mYear Last Rehab.:Est: NoRoadway Width:17.5 m

Region: AVALON PENINSULA Sidewalk Width: 0 m

Jurisdiction: Provincial Clearance to R.D. or N.W.L.: 8.3 m

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

Purpose of Structure: 02 - Highway Railway Separation Spans:

01 - Aluminum Rail Type of Handrail: Span No.: Length Span No.: Length 02 - Asphalt Roadway Surface: 1 29.9 4 02 - Adequate 2 0 5 0 Alignment Vertical: 3 0 6 0 02 - Adequate Alignment Horizontal:

Restrictions: No

BRIDGE PHOTOS





SUBSTRUCTURE

Condition: P - Poor **Bearings:** F2 - Fair

Bearing Seat: F2 - Fair

Comments: - P (slope paving, F2 (remainder). - Assumed condition of partially exposed reinforced concrete abutment

footings. - Medium vert./ map cracking in abutments and wingwalls. - Medium delamin. and spalling to abutment corners under exp. gaps in curbs. - Numerous wide cracks in exterior bearing seats at NW corner (no chalking in exp. gaps). - Bearing and bearing seat inspection restricted due to steep slopes. - Small section of slope paving missing at bottom of south slope paving. - Sections of slope paving curbs broken off and sliding down slope. - Severe undermining of slope paving continues at top NE, NW and SW corners of slope paving (abutment footings).

exposed in the SE area).

SUPERSTRUCTURE

Condition: F2 - Fair **Expansion Joints:** P1 - Poor

Comments: - Girders and diaphragms remain in fair condition. Narrow horiz. cracks in bottom flanges of both exterior girders.

- Medium spalling and wear to south exp. joint dam. Medium damage to exp. joint striker plates and seal channel

	causing leakage onto bearing seat Section of exp. joint in SW curb leaking onto bearing seat and diaphragm Medium map cracking in 4 end blocks.			
DECK				
Condition:	F2 - Fair	Curbs:	F2 - Fair	
Hand Rail:	F2 - Fair	Roadway Condition:	F2 - Fair	
Approach Rail:	P1 - Poor			
Comments:	- Still no hazard markers Narrow map cracking in deck soffit Narrow trans./ long. cracks with medium rust staining in deck soffit overhangs Minor/ medium scrapes, dents and holes in aluminum handrails esp. at NE end Narrow trans./ vert. cracks in curb surfaces and fascia Deck and approaches resurfaced since last inspection App./ exit guiderail continues to age with minor damage and decaying posts. Guiderail not attached to NW/SE end blocks Medium shoulder erosion/ slope erosion at NW and SE corners of structure.			
HYDROLOGY				
Water Velocity:	0 m/s	Ice Problem:	NA - Not Applicable	
Water Depth:	0 m	Scour Problem:	NA - Not Applicable	
Waterway:	03 - Not Applicable	Debris Problem:	NA - Not Applicable	
Comments:				
REPLACEMENT/REHAB	ILITATION			
Next Rehab. Date:	2018	Replacement Year:	2034	
Antic. Rehab. Cost:	\$100	Replacement Cost:	\$1500	
Recommendations:	- Install new app./ exit guiderail c/w hazard markers (attach guiderail to end blocks) Replace exp. joint. Repair all concrete defects Repair slope paving ASAP Correct shoulder/ slope erosion at NW/SE corners of structure.			
OBSERVATIONS				
Overall Condition:	P - Poor	Requires Further Inspection:	No	
Additional Observations:	additional Observations: - P (slope paving) P1 (exp. joints and guiderail) F2 (remainder) Unchanged from 2008 inspection.			
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 the provide photos using guideling approach the provide photos is not appreciate the provide photos in the provide photos is not appreciate the provide photos in the provide photos is not appreciate the provide photos in the provide photos is not appreciate the provide photos in the provide photos is not appreciate the provide photos in the provide photos is not appreciate the provide photos in the provide	F2 - Fair. C - Unsafe (Closed to F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P1 - Poor. P - Poor. P - Poor. sets should be documented by pnotograph ling P3. P1. F3. P1. F5. F6. F6. F6. F6. F6. F6. F6. F6.	Public). N - No P - Po K - Kı	lem Definitions: o Problem. ossible Problem. nown Problem. Not Applicable. Category Definitions: Maint Maintenance. Eng Engineering. Office - Bridge Office.	
Any evidence of known ice, scour, debris, waterway problems INSPECTION PHOTOS				

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