

GOVERNMENT OF **NEWFOUNDLAND** AND LABRADOR Department of Transportation and Infrastructure

## BRIDGE INSPECTION REPORT B05192016-6

Date: 1/18/2016 Inspected By: Chris Lyver Category: Eng. - Engineering

**BRIDGE INFORMATION** 

Site: 1-045 - SOUTH DILDO BRIDGE

80 Route:

1965 Year Built: Est: Yes Year Last Rehab.: Est: No

Region: **AVALON PENINSULA** 

Jurisdiction: Provincial

02 - Double Tee Type of Structure:

04 - Over Non-Navigable Waters Purpose of Structure:

02 - Concrete Rail Type of Handrail:

02 - Asphalt Roadway Surface: 01 - Good Alignment Vertical: 01 - Good Alignment Horizontal:

No Restrictions:

**Overall Length:** 11.5 m

**Overall Width:** 10.6 m Roadway Width: 9.5 m

Sidewalk Width: 0.6 m

Clearance to R.D. or

1.7 m N.W.L.:

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

Spans:

Span No.: Length Span No.: Length 1 6.6 4 2 0 5 0 3 0 6 0

**BRIDGE PHOTOS** 





**SUBSTRUCTURE** 

F1 - Fair Bearings: F1 - Fair Condition:

> F1 - Fair **Bearing Seat:**

-Sections of abutments poured directly on bedrock. -No visible signs of bearings, medium horizontal/vertical Comments:

cracks in abutments faces and wing walls. -Medium sized spall in bottom face of south abutment(SE end). -Medium scour under NE corner of North abutment footing. -Severe concrete delamin./spalling continues to

corners of north abutment & SE corner of south abutment.

**SUPERSTRUCTURE** 

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

-Very severe concrete disintegration continues to both exterior double tee girders with severe corrosion to Comments:

> exposed reinforcement & stressing cables. -Some cables broken and dangling in river. -Bottom of exterior tees no longer exists with only reinforcement and cables remaining. -Remaining tees have medium deiamin/spalling with medium corrosion to exposed reinforcement(Insufficient cover) -No visible signs of expansion joints. -Very wide cracks, severe spalling & medium corrosion to exposed reinforcement on SE exterior diaphragms/creep block. -

	Medium cracks & spalling to remaining exterior creep blocks/diaphragms.		
DECK			
Condition:	F1 - Fair	Curbs:	I - Inapplicable
Hand Rail:	F1 - Fair	Roadway Condition:	I - Inapplicable
Approach Rail:	F1 - Fair		
Comments:	-Medium spalling and medium horizontal/vertical cracking to some areas on short concrete handrails & posts Top concrete handrail is missing (in river)Severe deiamin/spalling with medium corrosion to exposed reinforcement to handrail post at SE end (post struck and tipped out)Medium damage to approach guiderail, approach guiderail remains offset too far leaving bridge ends exposed.		
HYDROLOGY			
Water Velocity:	0.6 <b>m/s</b>	Ice Problem:	N - No Problem
Water Depth:	0.5 <b>m</b>	Scour Problem:	K - Known Problem
Waterway:	01 - Adequate	Debris Problem:	N - No Problem
Comments:	Narrow opening at waterway.		
REPLACEMENT/REHABILITATION			
Next Rehab. Date:	2016	Replacement Year:	2020
Antic. Rehab. Cost:	\$100	Replacement Cost:	\$400
Recommendations:	-Bridge office should re-inspect exterior double tees & diaphragms/creep blocksRepair exterior tees & diaphragms/creep blocks & abutments cornersRepair scour, install new end blocks handrailsRepair approach guiderail, move out & replace terminal ends with buried end (if possible).		
OBSERVATIONS			
Overall Condition:	P - Poor	Requires Further Inspection:	Yes
Additional Observations:	-unchanged from 2011-2014 inspections.	-P for exterior tees and creep	blocksF1 for remainder.
LEGEND: Condition Definitions:  1 - *Good - [discontinued code]. 2 - *Fair - [discontinued code]. 3 - *Poor - [discontinued code]. 6 - *Unsafe - [discontinued code]. G - Good. PHOTO GUIDELINES: Inspection Photos: Please provide photos using guideling any item which inspector any item which inspector any item which inspector any item which inspector and the supplemental and the supplem	F2 - Fair. C - Unsafe (Closed to F1 - Fair. U - Uninspectable. P3 - Poor. I - Inapplicable. P1 - Poor. P - Poor.  nes below: eens snouin pe documented by pnotograpn eing P3, P1, P1, or C s, scour; debris, waterway problems	Problem D Public). Public). P- Possibl K - Known NA - Not A	blem. Maint Maintenance. e Problem. Eng Engineering. Problem. Office - Bridge Office.
INSPECTION PHOTOS			

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