BRIDGE INFORMATION

Site: 1-080 - SIR AMBROSE SHEA LIFT BRIDGE
Route: 100
Year Built: 1961
Year Last Rehab.: Est: No
Region: AVALON PENINSULA
Jurisdiction: Provincial
Type of Structure: 07 - Lift Bridge
Purpose of Structure: 03 - Over Navigable Waters
Type of Handrail: 04 - Steel Rail
Roadway Surface: 04 - Steel
Alignment Vertical: 01 - Good
Alignment Horizontal: 01 - Good
Restrictions: No

Overall Length: 98 m
Overall Width: 11.65 m
Roadway Width: 7.35 m
Sidewalk Width: 2.15 m
Clearance to R.D. or N.W.L.: 0 m
Max Depth of N.W.L.: 0 m

Spans:

<table>
<thead>
<tr>
<th>Span No.</th>
<th>Length</th>
<th>Span No.</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>30</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>30</td>
<td>5</td>
<td>0</td>
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<tr>
<td>3</td>
<td>30</td>
<td>6</td>
<td>0</td>
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SUBSTRUCTURE

Condition: P1 - Poor (Repair within 1 Year)
Bearing: F1 - Fair (Inspection within 1 Year)
Bearing Seat: F1 - Fair (Inspection within 1 Year)
Comments:
- P-1, piers. - F-1, remainder. - Assumed condition of buried and submerged reinforcement concrete abutment and pier footings. - Numerous wide horizontal/vertical cracks in abutments, pier caps, bearing pedestals and wingwalls (medium efflorescence deposits). - Medium erosion and spalling with medium corrosion to exposed reinforcement to face and corners of N abutment. - Medium erosion/spalling to face of south abutment. - Medium spalling below SW end block. - Medium corrosion and paintscaling on steel bearings. - Very severe corrosion to sheet pile ice walls surrounding piers. - Very severe disintegration to ends of both piers. - Top of south abutment footing repaired since last inspected.

SUPERSTRUCTURE

Condition: F1 - Fair (Inspection within 1 Year)
Expansion Joints: P3 - Poor (Repair within 3 Years)
Comments:
- Medium corrosion to 6 exterior plate girders, transverse deck steel. - Abutment expansion joints leaking (staining on abutments). - Joints paved over on deck. - Grey marine coating continues to scale off in many areas. - Wide
horizontal/vertical cracks and medium spalling at ends of both concrete counterweights.

DECK

Condition: F1 - Fair (Inspection within 1 Year)  Curbs: F1 - Fair (Inspection within 1 Year)
Hand Rail: F1 - Fair (Inspection within 1 Year)  Roadway Condition: F1 - Fair (Inspection within 1 Year)
Approach Rail: P1 - Poor (Repair within 1 Year)
Comments:
- Medium transverse/longitudinal cracks with light efflorescence deposits in north span deck soffit. - South span deck soffit inaccessible (water depth and flow) (assume unchanged from '09 inspection). - Numerous repaired areas in steel grid decking on center span. - Wide horizontal/vertical cracks and medium spalling to exterior curb fascias at expansion joint locations. - Guide rails continues to age with medium damage and some decaying posts. - Severe rutting and numerous asphalt patches on paved approaches (rough ride). - No hazard markers. - Medium corrosion to steel safety rails. - Narrow horizontal/vertical cracks with light reinforcement corrosion stains in 4 end blocks.

HYDROLOGY

Water Velocity: Tidal m/s  Ice Problem: P - Possible Problem
Water Depth: Tidal m  Scour Problem: P - Possible Problem
Waterway: 01 - Adequate  Debris Problem: N - No Problem
Comments:

REPLACEMENT/REHABILITATION

Next Rehab. Date:  Replacement Year: 2011
Antic. Rehab. Cost: $0.00  Replacement Cost: $10,000,000.00
Recommendations:
- unchanged from '09 recomendations. - install hazard markers (maintenance).

OBSERVATIONS

Overall Condition: F1 - Fair (Inspection within 1 Year)  Requires Further Inspection: No
Additional Observations:
- unchanged from '04,'07 inspections. - delete '09 note and add, structure tentatively scheduled to be replaced in 2011.

LEGEND:
Condition Definitions:
1 - "Good" [discontinued code].
2 - "Fair" [discontinued code].
3 - "Poor" [discontinued code].
4 - "Unsafe" [discontinued code].
G - Good (Inspection within 2 Years).
P2 - Fair (Inspection within 2 Years).
P1 - Fair (Inspection within 1 Year).
P3 - Poor (Repair within 3 Years).
P1 - Poor (Repair within 1 Year).
P - Poor (Immediate Repair).
C - Unsafe [Closed to Public].
U - Uninspectable.
I - Inapplicable.
Problem Definitions:
N - No Problem.
P - Possible Problem.
K - Known Problem.
NA - Not Applicable.
Category Definitions:
Maint. - Maintenance.
Eng. - Engineering.
Office - Bridge Office.

PHOTO GUIDELINES:
Inspection Photos:
- Any item noted as being P3, P1, P, or C.
- Any evidence of known ice, scour, debris, waterway problems.

INSPECTION PHOTOS

Department of Transportation and Works, Government of Newfoundland and Labrador 2018.