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|  | | GOVERNMENT OF NEWFOUNDLAND AND LABRADOR Department of Transportation and Infrastructure | | BRIDGE INSPECTION REPORT B08172023-4 | |
| Date: 6/2/2023 | | Inspected By: M Button | | Category: Office - Bridge Office | |
| BRIDGE INFORMATION | | | | | |
| Site: | | 1-308 - LOWER GULLIES RIVER BRIDGE - R | | | |
| SUBSTRUCTURE | | | | | |
| Condition: | P1 - Poor | Bearings: | I - Inapplicable | | |
| | | Bearing Seat: | I - Inapplicable | | |
| Comments: | - West abutment corners have severe map cracking, with efflorescence, and large spalls. Concrete is suspected to be delaminating around the map cracks. The abutment interior has moderate cracking in isolated locations. There is a large spall at the base of the abutment with a wide crack coming out towards the top of the abutment. There is severe erosion near the water level along the length of the abutment, P3. - East abutment – There is moderate to severe map cracking with efflorescence on abutment corners. There are multiple wide cracks along the abutment. There is severe erosion near the water level along the length of the abutment. There is a light spall on the Southern exterior of the abutment, P1. - Wingwalls have very large spalls covering most of the surface, exposing large aggregates. The remaining concrete surface has severe map cracking. One wingwall has severe map cracking with efflorescence throughout the surface. There are moderate spalls around the map cracking, P1. | | | | |
| SUPERSTRUCTURE | | | | | |
| Condition: | P3 - Poor | Expansion Joints: | I - Inapplicable | | |
| Comments: | - Deck soffit (Older) – Longitudinal cracks visible at locations of all encased steel. Many of the locations have severe delamination or have already spalled exposing steel with moderate corrosion, P3 to P1. - Deck soffit (Newer) – Deck soffit is in fair condition. There is some moderate map cracking with efflorescence around the construction joint, F1. - Fascia's have severe to extreme disintegration. South fascia has exposed steel with severe corrosion, P3 to P1. | | | | |
| DECK | | | | | |
| Condition: | F1 - Fair | Curbs: | F1 - Fair | | |
| Hand Rail: | P3 - Poor | Roadway Condition: | F1 - Fair | | |
| Approach Rail: | I - Inapplicable | | | | |
| Comments: | - Asphalt is in overall fair condition. There is light map cracking and moderate rutting throughout, F1. - North curb has moderate disintegration, exposing the anchor of one handrail post. There is vegetation growth and gravel buildup on the tops of the curbs, F1. - Structure rail in poor condition with dents throughout. One of the rails is disconnected from the end post. Several posts are also bent in some areas. There are no hazard markers, end blocks or guiderails on the approach, P3. | | | | |
| HYDROLOGY | | | | | |
| Water Velocity: | 0 m/s | Ice Problem: | N - No Problem | | |
| Water Depth: | 0 m | Scour Problem: | K - Known Problem | | |
| Waterway: | 01 - Adequate | Debris Problem: | N - No Problem | | |
| Comments: | - There is scour under the east abutment but only on the upstream side. | | | | |
| REPLACEMENT/REHABILITATION | | | | | |
| Next Rehab. Date: | 2024 | Replacement Year: | 2028 | | |
| Antic. Rehab. Cost: | \$300000 | Replacement Cost: | \$0 | | |

Recommendations:

OBSERVATIONS

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|---------------------------|-----------|-------------------------------------|-----|
| Overall Condition: | P3 - Poor | Requires Further Inspection: | Yes |
|---------------------------|-----------|-------------------------------------|-----|

Additional Observations: - Bridge is in overall poor condition, P3 with some P1 and F1 areas.

Department of Transportation and Infrastructure, Government of Newfoundland and Labrador 2024.