**MOVABLE BRIDGE STRUCTURAL INSPECTION REPORT**

Wisconsin Department of Transportation

DT2015 6/2017 s.84.17 Wis. Stats.

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| --- | --- |
| Bridge Number      | Overall Rating of Structural System      |
| Bridge Name      | Date Inspected      |
| Lead Structural Inspector      | Weather      |
| Inspection Team Leader      |  |

Notes:

* This form provides specific inspection detail in conjunction with the items provided in the HSI Movable Inspection Tab. While there may be some overlap with the routine inspection, updates to the Elements and Assessments Inspections Tabs are not necessarily required.
* Place comments in each box next to the component inspected.
* For each component rating, enter “(1)” for Good, “(2)” for Fair, “(3)” for Poor, or “(4)” for Severe.
* If the component does not apply to this bridge enter “NA”.
* Include a comment and photo reference documenting any components rated (3) or (4).

**Counterweights and Supporting Members** Component Rating:

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| --- | --- |
| **Component** | **Finding/Comment** |
| **Counterweights** – Check exposed surfaces of counterweight for any deterioration, spalls or cracks. Confirm balance blocks within counterweight pockets are neatly stacked. Check for any issues with interference of counterweight during bridge operation with adjacent fixed surfaces of bascule substructure. Check Pockets for debris. Check if pocket doors or bird screens are properly intact. |       |
| **Counterweight Trusses** – Check condition of visible portions of supporting top, bottom, front and back counterweight trusses and girders. Check condition of connections of those members to bascule girders and other bridge framing, Check steel for deterioration at interface where members or gusset plates become embedded in concrete. |       |

**Bascule Girder Heel Sections** Component Rating:

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| **Component** | **Finding/Comment** |
| Check overall condition for corrosion, any cracks, or deteriorated connectors. Check bearing stiffeners at uplift points for section loss. |       |

**Bumper Blocks** Component Rating:

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| --- | --- |
| **Component** | **Finding/Comment** |
| Confirm all bumper blocks and attaching anchorages that provide a stop for bascule leaf in open position are intact and in sound condition. Note whether girders touch or leave a gap at full open. Size of gap |       |

**Rack Frames** Component Rating:

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| --- | --- |
| **Component** | **Finding/Comment** |
| Check overall condition of rack frame members and bolted connections. Check condition of anchorage system for rack frame columns. Check for any movements between rack beam and concrete slab above it during bridge operation. Check for deterioration at interface of substructure concrete and rack frame columns and diagonals. |       |

**Trunnion Supports** Component Rating:

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| --- | --- |
| **Component** | **Finding/Comment** |
| Check for condition of structural members supporting trunnion bearings. Check for condition of concrete bases supporting trunnion bearings. |       |

**Breaks and Clearances** Component Rating:

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| --- | --- |
| **Component** | **Finding/Comment** |
| **Roadway Front and Rear Breaks** – Check for any uneven surface across mated front and rear breaks with bridge in fully closed position. Observe breaks during bridge opening and closing and check for any visible or audible signs of binding. |       |
| **Sidewalk Front, Rear and Longitudinal Breaks** – Check for any tripping hazard from uneven surface across front and rear sidewalk breaks with bridge in fully closed position. Check longitudinal sidewalk break for tripping hazard from excessively wide gap. Observe breaks during bridge opening and closing and check for any visible or audible signs of binding. |       |
| **Barrier and Railing** – Check breaks between fixed and moving portions of traffic barrier and/or railing for potential interference during bridge opening and closing. |       |

**Machinery Supporting Structural Systems** Component Rating:

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| **Component** | **Finding/Comment** |
| **Steel Machinery Floor Framing** – Check condition of steel framing, member end connections, and machinery room floor plate. |       |
| **Machinery Supporting Weldments** – Check for general condition of structural weldments and bolted connections of them to the supporting machinery floor framing. |       |
| **Supporting Concrete Slabs, Pedestals, and Grout Pads** – Check concrete and grout for integrity and soundness, especially in vicinity of machinery base anchorages. |       |

**Bascule Substructures** Component Rating:

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| **Component** | **Finding/Comment** |
| Check for deteriorated, spalled or cracked concrete. Check for water infiltration through leaking cracks. |       |

**Navigation Protection Systems** Component Rating:

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| --- | --- |
| **Component** | **Finding/Comment** |
| **Fenders** – Check for impact damage or deterioration of rub rail elements and attaching bolts or anchorages. |       |
| **Protection Cells** – Check for impact damage or deterioration of system. |       |

**Service and Maintenance Access Systems** Component Rating:

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| --- | --- |
| **Component** | **Finding/Comment** |
| **Ladders, Stairs, Platforms and Handrail** – Check for corrosion or deterioration of these elements and their attaching hardware. |       |

**Operator House** Component Rating:

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| --- | --- |
| **Component** | **Finding/Comment** |
| **Structural Support System** – Check for deterioration of supporting members. |       |
| **Weather Resistance** – Check for signs of water leakage through roof, windows or doors. |       |

**Additional Structural Component:**  Component Rating:

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**Recommended Short Term Actions & Repairs for Structural System:**

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**Recommended Long Term Rehabilitation Needs for Structural System:**

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**General Remarks – Structural System** Overall Rating *(Also enter on page 1)*:

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|       |