



Historic Bridge Inspection Report

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| Bridge Name: | SR-3007 "Iron Bridge Road" Bridge (54 3007 0010 0215) | | |
| Bridge Trip Ordering Number: | D2B#1 | Inspection Date: | 5-29-10 |

General Bridge Information and Conditions

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| Facility(s) Carried: SR-3007 (Iron Bridge Road) at Segment 0010, Offset 0215 Surface Type: <input type="checkbox"/> Gravel/Dirt <input checked="" type="checkbox"/> Hard <input type="checkbox"/> Railroad | | Feature(s) Intersected: Middle Creek | |
| Main Span Type: Pin-connected Pratt through truss Main Span #: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> More: | | Approach Span Type: None Approach Span #: <input checked="" type="checkbox"/> None <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> More: | |
| Superstructure Condition: <input type="checkbox"/> Failed (Bridge Collapsed) <input type="checkbox"/> Partial Failure / Portions Standing <input type="checkbox"/> Critical/Risk of Failure <input type="checkbox"/> Poor <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Like New Notes: | Substructure Condition: <input type="checkbox"/> Failed (Bridge Collapsed) <input type="checkbox"/> Partial Failure (Partially Holding Bridge) <input type="checkbox"/> Critical/Risk of Failure <input type="checkbox"/> Poor <input checked="" type="checkbox"/> Fair <input type="checkbox"/> Good <input type="checkbox"/> Like New Notes: | Deck Condition: <input type="checkbox"/> Deck Removed <input type="checkbox"/> Failed <input type="checkbox"/> Critical/Risk of Failure <input type="checkbox"/> Poor <input type="checkbox"/> Fair <input checked="" type="checkbox"/> Good <input type="checkbox"/> Like New Notes: | |
| Bridge Roadway Width (Lanes/Tracks): <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> More: Appears: <input checked="" type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient | | Roadway Width Leading Up To Bridge (Lanes): <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> More: Appears: <input checked="" type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient | |
| Sidewalks: Number: <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> Other: <input type="checkbox"/> Cantilevered <input type="checkbox"/> Integrated Appears: <input checked="" type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient In rural location. | | Apparent Bridge Ownership: <input checked="" type="checkbox"/> Public: Government <input type="checkbox"/> Public: Non-Profit Organization <input type="checkbox"/> Private, No Public Access <input type="checkbox"/> Private, Public Access <input type="checkbox"/> Railroad <input type="checkbox"/> Toll Bridge | |
| Railing/Guardrail: Present: <input type="checkbox"/> Original <input checked="" type="checkbox"/> Non-Original Are Any Crash-Resistant? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Bearing Type: <input type="checkbox"/> Roller Nest <input type="checkbox"/> Rocker <input type="checkbox"/> Not Observed <input checked="" type="checkbox"/> Other/Unknown: Notes: Rubber pads. | |

Do Any Protect The Superstructure?

Yes No N/A

Sidewalk Bridge Railings Present:

Original New/Modern

Condition:

Clean

Significant Dirt Buildup

Significant Dislocation

Unknown/Not Observed

Specific Conditions (When Applicable)

Observed Concrete Conditions:

Spalling:

Isolated Widespread Splash

Zone

Cracking:

Isolated Widespread Splash

Zone

Delaminating:

Isolated Widespread Splash

Zone

Efflorescence:

Isolated Widespread Splash

Zone

Observed Metal Conditions:

Minor Section Loss:

Isolated Widespread Splash Zone

Major Section Loss:

Isolated Widespread Splash Zone

Minor Pack Rust:

Isolated Widespread Splash Zone

Major Pack Rust:

Isolated Widespread Splash Zone

Observed Fatigue Cracks: Location:

Some of the section loss was arrested or bypassed/repaired by previous rehabilitation.

Movable Bridge:

Operating Not Operating

Machinery Removed

Original Electrical/Mechanical Systems In Use

Original Bridgetender Building

Bridgetender Building Shows Heavy Alterations

Miscellaneous Features:

Cast Iron Structural Elements

Beams With Pin and Hanger System

Jack-Arch Deck

Unreinforced Concrete Observed

Melan or Marsh Reinforcing Observed

Notes:

Fastener: Primary/Connection Type:

Welds Rivets Bolts Threaded Rod & Nut

Secondary/Beam Fastener Type:

Welds Rivets Bolts Threaded Rod & Nut

Altered Fastener Type:

Welds Rivets Bolts Threaded Rod & Nut

Metal: Paint Condition:

New Good Fair Poor None

Possible Lead Paint Risk (Paint Age): Yes No Unknown

Lead Paint Confirmed By Testing

Paint is peeling and rusted underneath in the areas for which protection is most important (splash zone).

Noted Impact Damage To Bridge:

Portal. Notes:

Railing. Notes:

Superstructure. Notes:

Substructure. Notes:

Other. Notes:

Moisture Risk Assessment:

No Problems Observed

Drainage Blocked. Notes:

No Drainage/Drainage Needed

Dirt Buildup

Plants Growing In Deck

Truss Bridge Features:

Eyebars: Loop-Forged Up-Set

Bottom Chord Connection Quality:

Severe Loss Moderate/Average Loss

Little/No Loss

Major Alterations:

Floor beams: All Some

Connections: All Some

Elements Beyond Repair:

Entire Bridge Large Percentage Medium Percentage Small Percentage None

Notes / Replication Recommendations:

Replicate bottom portions of vertical members.

Turnbuckles: All Some
 Verticals: All Some
 Diagonals: All Some
 Sway/Portal Bracing: All Some
 End Posts: All Some
 Top/Upper Chord: All Some
 Bottom/Lower Chord: All Some
 Notes:

Sufficiency / Demolition Risk Assessment

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| <p>Risk of NBI Functionally Obsolete Determination: <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input checked="" type="checkbox"/> Confirmed Correction Feasibility (Current Use): <input type="checkbox"/> Low <input checked="" type="checkbox"/> Medium <input type="checkbox"/> High</p> | <p>Risk of NBI Structurally Deficient Determination: <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input checked="" type="checkbox"/> Confirmed Correction Feasibility (Current Use): <input type="checkbox"/> Low <input type="checkbox"/> Medium <input checked="" type="checkbox"/> High</p> |
| <p>Evidence of Repair/Replacement Plans: <input type="checkbox"/> None <input type="checkbox"/> Pink Flags <input type="checkbox"/> Inspection Marks <input type="checkbox"/> Construction On Bridge <input type="checkbox"/> Construction Next To Bridge <input type="checkbox"/> Signage <input type="checkbox"/> Recent Bridge Closure <input type="checkbox"/> Flagged/New Weight Limit Signs</p> | <p>Traffic Volume: <input type="checkbox"/> Closed: Abandoned, Overgrown <input type="checkbox"/> Closed <input type="checkbox"/> Nearly None <input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/> Congested (Traffic Backed Up At Or On Bridge) Truck Traffic Observed: <input checked="" type="checkbox"/> None <input type="checkbox"/> One - Some, <input type="checkbox"/> Heavy</p> |
| <p>Vertical Clearance: <input checked="" type="checkbox"/> Overhead Structural Elements <input type="checkbox"/> Not Posted <input checked="" type="checkbox"/> Posted <input checked="" type="checkbox"/> Headache Bar <input type="checkbox"/> Posted 10 Feet (3 Meters) Or Less</p> | <p>Weight Limits: <input checked="" type="checkbox"/> Posted Weight Limit Lowest Posted Value (In Tons/Tonnes): <input type="checkbox"/> 1-3 <input checked="" type="checkbox"/> 3-10 <input type="checkbox"/> 10-20 <input type="checkbox"/> 20-30 <input type="checkbox"/> 30-40 <input type="checkbox"/> Over 40</p> |
| <p>Conditions With Feature(s) Intersected: <input type="checkbox"/> Navigable Waterway: Vertical Clearance: Appears <input type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient Horizontal Clearance: Appears <input type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient <input type="checkbox"/> Active Railroad: Appears <input type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient Vertical Clearance: Appears <input type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient Horizontal Clearance: Appears <input type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient <input type="checkbox"/> Active Highway: Appears <input type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient Vertical Clearance: Appears <input type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient Horizontal Clearance: Appears <input type="checkbox"/> Sufficient <input type="checkbox"/> Insufficient</p> | <p>Water Adequacy: <input type="checkbox"/> Scour Observed <input type="checkbox"/> Pier(s) <input type="checkbox"/> Abutment(s) <input type="checkbox"/> Evidence Of Floodwater Reaching Bridge <input type="checkbox"/> Bridge Has Flood Damage Notes:</p> |
| <p>Caretaking (Preventative Maintenance): <input checked="" type="checkbox"/> Bridge shows signs of care/maintenance. <input type="checkbox"/> Paint <input type="checkbox"/> Deck <input checked="" type="checkbox"/> Super/substructure <input type="checkbox"/> Substructure <input type="checkbox"/> Other <input type="checkbox"/> Comprehensive Rehab/Restoration <input checked="" type="checkbox"/> Bridge shows signs of neglect. <input checked="" type="checkbox"/> Paint <input type="checkbox"/> Deck <input type="checkbox"/> Super/substructure <input type="checkbox"/> Substructure <input type="checkbox"/> Patching <input type="checkbox"/> Other <input type="checkbox"/> As-Built (No Work Done) <input type="checkbox"/> Bridge in excellent condition even without evidence of maintenance/repairs.</p> | <p>Approach Roadway Alignment: <input checked="" type="checkbox"/> Horizontal Problems <input checked="" type="checkbox"/> Trivial <input type="checkbox"/> Significant <input checked="" type="checkbox"/> Vertical Problems <input checked="" type="checkbox"/> Trivial <input type="checkbox"/> Significant <input type="checkbox"/> No Problems Notes:</p> |

Historic Significance / Integrity

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| <p>Design Features:</p> <p><input type="checkbox"/> Innovative/Prototypical Design</p> <p><input checked="" type="checkbox"/> Distinctive Details</p> <p><input type="checkbox"/> Unusual Structure Type</p> <p><input type="checkbox"/> Unusual Structure Configuration</p> <p><input type="checkbox"/> Once-Common Rare Surviving Example</p> <p><input type="checkbox"/> Standard Plan</p> <p><input type="checkbox"/> Representative Example</p> | <p>Setting Assets:</p> <p><input type="checkbox"/> Bridge has gateway function.</p> <p><input type="checkbox"/> Location in pristine natural setting.</p> <p><input type="checkbox"/> Historical structures/setting nearby.</p> <p><input type="checkbox"/> Contributes to a group of historic bridges.</p> |
| <p>Superstructure Alterations Observed:</p> <p><input type="checkbox"/> None <input checked="" type="checkbox"/> Historically Sensitive <input checked="" type="checkbox"/> Insensitive</p> <p><input checked="" type="checkbox"/> Reversible <input checked="" type="checkbox"/> Irreversible</p> <p><input checked="" type="checkbox"/> Metal Added <input type="checkbox"/> Insensitive Welds <input checked="" type="checkbox"/> Rivets Replaced With Bolts</p> <p><input checked="" type="checkbox"/> Floor Beams Replaced <input type="checkbox"/> Widened <input type="checkbox"/> Some Spans Replaced</p> <p><input type="checkbox"/> Other</p> <p>Notes: Alterations consistent with traditional vehicular historic truss bridge rehab project.</p> | <p>Substructure Alterations Observed:</p> <p><input type="checkbox"/> None <input checked="" type="checkbox"/> Historically Sensitive <input type="checkbox"/> Insensitive</p> <p><input checked="" type="checkbox"/> Reversible <input type="checkbox"/> Irreversible</p> <p>Notes: Concrete cap added to bridge seat. Overall abutments retain original stone design.</p> |
| <p>Bridge Plaques:</p> <p><input type="checkbox"/> Commissioner <input checked="" type="checkbox"/> Builder <input type="checkbox"/> State Standard <input type="checkbox"/> No Plaques.</p> <p><input type="checkbox"/> Missing Plaques/ Plaque Scars.</p> <p><input type="checkbox"/> Repair/Rehab Plaques Present.</p> | <p>Bridge Still Functions As Originally Designed:</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Some Spans</p> <p>Notes:</p> |
| <p>Surrounding Area:</p> <p><input type="checkbox"/> Confirmed Historic District</p> <p><input type="checkbox"/> Contains Historic District Qualities</p> <p><input type="checkbox"/> Possibly Contains Historic District Qualities</p> <p><input checked="" type="checkbox"/> No Historic District Qualities</p> | <p>Remains of Previous Bridge(s):</p> <p><input type="checkbox"/> Present: Integrated</p> <p><input type="checkbox"/> Present: Beside Bridge</p> <p><input checked="" type="checkbox"/> Unknown/Possible. Notes:</p> <p><input type="checkbox"/> None Observed</p> |
| <p>Location:</p> <p><input type="checkbox"/> Appears To Be Original. Notes:</p> <p><input checked="" type="checkbox"/> Possibly Relocated. Notes: 1932 NBI Construction Dated</p> <p><input type="checkbox"/> Proof of Relocation. Notes:</p> | <p>Aesthetics:</p> <p><input type="checkbox"/> Structurally Functional Aesthetic Architectural Elements</p> <p><input type="checkbox"/> Non-Structural Decorations/Ornamentation</p> |

Conclusions

Note: Field observation is usually the first step in a multi-step historic bridge assessment process. These initial recommendations may be based only on field observations and may change upon further consultation and research following the field observation.

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| <p>Local Historic Significance Rating Recommendation:</p> <p><input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10</p> | <p>National Historic Significance Rating Recommendation:</p> <p><input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10</p> |
| <p>Work Priority/Needs:</p> | <p>Initial Recommended Use/Reuse:</p> |

- Full Restore/Rehabilitation Immediately
 - Continue Maintenance and Plan Future Full Restore/Rehabilitation
 - Continue/Begin Maintenance
 - Paint Needed:
 - Splash Zone Only
 - Traffic Control:
 - Stop Yield Signalize
 - Clearance Control (Headache Bar)
 - Full Restore/Rehabilitation Immediately
- Notes:

- Continued Vehicular Use.
 - Relocate For Lighter Vehicular Use.
 - Restored For Non-Motorized Use.
 - Relocate For Non-Motorized Use.
 - Bypass/Restore For Non-Motorized Use.
 - Non-Functional Exhibit.
 - Retrofit or render structure decorative.
 - Abandon completely: Leave standing, do not demolish.
 - Salvage: Non-bridge reuse, or use of portions of bridge.
- Notes: Feasible for continued vehicular use. Many other alternatives appropriate as well.

- Re-Inspection Required:** Yes No
- Bridge Obstructed By Foliage
 - Areas Inaccessible:
 - Repairs In Progress:
 - Poor Weather
 - Better Sun Position Needed
 - (AM Noon PM)
 - Other:
- Notes:

- National Register Eligibility:**
- Listed
 - Eligible
 - Appears Eligible
 - Appears Not Eligible
 - Not Eligible
 - Unknown
- Criterion: A (Events) B (Persons) C (Design)
- Notes:

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