



INDIANA DEPARTMENT OF TRANSPORTATION

Driving Indiana's Economic Growth

Bridge Inspection Memorandum No. 20-2 Bridge Inspection Manual Revisions

November 24, 2020

TO: All Inspection Personnel, and Consultants

FROM: /s/ Andrew Fitzgerald, PTOE, PE
Andrew Fitzgerald
Bridge Inspection Manager
Bridge Management Division

SUBJECT: Revised Indiana Bridge Inspection Manual

REVISION: Supersedes Parts 1 – 6

EFFECTIVE: Immediately

The Indiana Bridge Inspection Manual has been revised. It now consists of the following 9 parts.

Part 1 Administration
Part 2 Types of Inspections
Part 3 Load Rating
Part 4 QC/QA
Part 5 Fatigue & Fracture Critical Inspections
Part 6 Scour
Part 7 Wearing Surfaces
Part 8 Asbestos
Part 9 Environmental Concerns
Appendix

Significant changes include for all 9 parts and appendix:

- Incorporation of memos.
- Printable QA/QC forms.
- Fatigue & Fracture Critical Inspection report formatting has been changed.
- Scour POA's guidance has been updated and Monitoring Log developed.
- Changes have been made on coding recommendations for wearing surface condition.

Movable Bridges and NDT are no longer included in the manual since they are covered by the AASHTO and FHWA Manuals.

Part 1 – Administration:

- **1-1.04(02) Assistant State Program Manager (ASPM-R&P)** – Rating & Posting. This section was added to describe the duties, qualifications, and responsibilities of this positions under the State Program Manager
- **1-1.04(03) Assistant State Program Manager (ASPM-BI&I)** – Bridge Inspection & Inventory Rating & Posting. This section was added to describe the duties, qualifications, and responsibilities of this positions under the State Program Manager
- **1-1.04(14) Load Rating Engineer (LRE)** Rating & Posting – This section was revised by adding the requirement to submit a list of bridges previously load rated to be considered to be a Load Rater
- **1-1.3: Bridge Inspection Positions – Table** – This table in the Appendix was added to easily show Inspection positions and where in Part 1 they can be found

Part 2 - Types of Inspections:

- **New Part 2 was removed from Part 1, Administration, and made its own part**
- **Old Part 2 OA/QC, is now Part 4**
- **2-2.01(01) Timely Inspections** – This section was added to include information from Bridge Inspection Memo 18-06, dated 12/07/2018.
- **2-2.01(02) Delinquent Inspections** – This section was added so that delinquent inspections are documented as well as the reason for the delinquency.
- **2-2.03 Inspection Schedules** – This section was added to include information from Bridge Inspection Memos.
- **2-2.04 Inspection Plan of Action** – This section was added to include information from Bridge Inspection Memos.
- **2-2.06(04) Extended Inspection Frequency** – This section was added to include information from Bridge Inspection Memo 18-02, dated 02/01/2018.
- **2-2.12 Channel Surveys** – This section was added to include information from Bridge Inspection Memo 19-04, dated 11/26/2019.
- **2-2.13 Large Culvert Inspection** – This section was added to include information from Bridge Inspection Memos.
- **2-2.14 Bridges Closed to Traffic** – This section was added to include information from Bridge Inspection Memos.
- **2-3.01 Bridge File** – This section was added to include information from Bridge Inspection Memo 19-01, dated 01/31/2019.

- **2-3.04 State Line - County Border Inventory** – This section was added to include information from Bridge Inspection Memos.
- **2-4.02 Critical Findings** – This section was added to include information from Bridge Inspection Memos 18-05, dated 11/05/2018 and 19-03, dated 12/02/2019.

Part 3 - LOAD RATING

- **3-9.02 (01), 3-9.02(02)** – This section was revised, based on Inspection Memo 18-01, in April, 2018.

Part 4 - QA /QC

- **Old Part 4, ADDITONAL INSPECTION GUIDANCE** is now covered in NEW Parts 5, 6, 7, and 9.
- **NEW Part 4, is QA/QC**
- **No significant changes, other than QA/QC Forms are now in the Appendix for easier use.**

Part 5 - FATIGUE & FRACTURE CRITICAL INSPECTION

- **Old Part 5, MOVABLE BRIDGES** has been removed. This is covered by AASHTO Manuals.
- **NEW Part 5, is FATIGUE & FRACTURE CRITICAL INSPECTION**
- **5-5.01(06) Field Inspection Reporting** – This section was revised, as well as the requirements of the data to be reported in a Fracture Critical Inspection Report, based on Bridge Inspection Memo 19-05, dated 12/10/2019.

Part 6 - SCOUR

- **Old Part 6, NDT & PDT Testing** has been removed. This is covered by AASHTO Manuals.
- **NEW Part 6, is SCOUR, it used to be in old Part - 4**
- **6-1.01(02) Scour Plan of Action for State Bridges** – This section was added.
- **6-1.01(03) Initial Scour Inspection Following Trigger Event** – This section was added.
- **6-1.01(04) Bridge Scour Monitoring** – This section was added.

Part 7 – WEARING SURFACES

- **NEW Part 7, is WEARING SURFACES, it used to be in old Part – 4**
- **7-1.0 WEARING SURFACE RATINGS** – This section was revised.

Part 8 – ASBESTOS

- **NEW Part 8, is ASBESTOS**
- **8-1.0 ASBESTOS** – This section was added.

Part 9 – ENVIRONMENTAL CONCERNS

- **NEW Part 9, is ENVIRONMENTAL CONCERNS, it used to be in old Part - 4**
- **9-1.0 BATS AND BIRDS** – This section was added.

APPENDIX**NEW Part – APPENDIX**