

## REFERENCED PUBLICATIONS

The information in this Bridge Inspection Program Manual supplements the requirements, procedures and information in documents by:

- The American Association of State Highway and Transportation Officials (AASHTO)
- The U.S. Department of Transportation, Federal Highway Administration (FHWA)
- The National Cooperative Highway Research Program (NCHRP).

The reference list of applicable documents is included in the Manual Appendix. The National Bridge Inspection Standards are also included in the Appendix.

Persons involved with the Nebraska Bridge Inspection Program and the bridge inventory must be knowledgeable of the requirements in National Bridge Inspection Standards, the *AASHTO Manual for Bridge Evaluation*, and FHWA publications and technical advisories related to the NBIS. The references set forth procedures to be used by Bridge Owners in managing their Bridge File and Bridge Records.

The NBIS takes precedence over any material contained in the reference manuals, i.e. the AASHTO Manual. Where there may be implied or conflicting language between the documents, the nationwide direction provided by the NBIS will always govern.

The information in this Bridge Inspection Program Manual supplements the information in these references.

<b>Primary Operation (Coding and Records may also be included)</b>	<b>Publisher or Author</b>	<b>Publication</b>	<b>Publication Date</b>
Coding	FHWA	Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges, Report No. FHWA-PD-96-001	December 1995 with Errata, March 2004
Inspection	FHWA	Bridge Inspector's Reference Manual (BIRM), FHWA Publication No. FHWA-NHI-12-053	December 2001
Inspection	NCHRP	Synthesis 354: Inspection and Management of Bridges with Fracture-Critical Details	
Inspection, Load Rating	AASHTO	Manual for Bridge Evaluation (MBE), Second Edition with 2016 Edition Interim	
Load Rating	FHWA	Revisions to the Recording and Coding Guide for the Structure, Inventory, and Appraisal of the Nation's Bridges (Coding Guide) Items 63 and 65, Method Used to Determine Operating and Inventory Rating	November 15, 2011
Load Rating	FHWA	Revisions to the Recording and Coding Guide for the Structure, Inventory and Appraisal of the Nation's bridges (Coding Guide) – Item 31, Design Load, and Items 63 and 65, Method Used to Determine Operating and Inventory Ratings	February 2, 2011
Load Rating	FHWA	Revisions to Items 63-66 to Support Load Reporting by Rating Factor	March 22, 2004
Load Rating	AASHTO	Standard Specifications for Highway Bridges, 17th Edition	September 1, 2002
Load Rating	AASHTO	LRFD Bridge Design Specifications, Seventh Edition with 2015 and 2016 Interims	2014
Load Rating	FHWA	Bridge Load Ratings for the National Bridge Inventory	October 30, 2006
Load Rating	Nebraska Department of Roads Bridge Division	Bridge Office Policies and Procedures (BOPP), Current version	See NDOR Bridge Division website.
Load Rating	Joseph A. Yura, and Brett A. Phillips	"Bracing Requirements for Elastic Steel Beams", University of Texas at Austin, Center for Transportation Research, Report No. FHWA/TX-92+1239-1	

Primary Operation (Coding and Records may also be included)	Publisher or Author	Publication	Publication Date
Load Rating	Swarnalatha Vegesna, and Joseph A. Yura	"An Ultimate Load Test to Study Bracing Effects of Bridge Decks", University of Texas at Austin, Center for Transportation Research, Report No. FHWA/TX-92+1239-2	
Load Rating	Stuart T. Webb and Joseph A. Yura	"Evaluation of Bridge Decks as Lateral Bracing for Supporting Steel Stringers", University of Texas at Austin, Center for Transportation Research, Report No. FHWA/TX-92+1239-3	
Load Rating	Joseph A. Yura, Brett A. Phillips, Swarna Raju and Stuart T. Webb	"Bracing of Steel Beams in Bridges", University of Texas at Austin, Center for Transportation Research, Report No. FHWA/TX-92+1239-4F	
Load Rating	National Corrugated Steel Pipe Association (NCSPA), Washington, D C	"Load rating and structural evaluation of in-service, corrugated steel structures" Design Data Sheet No. 19	1995
Load Rating	David C. Cowherd, Vlad G. Perlea, Bowser Morner Associates, Dayton, Ohio	"An Evaluation of Flexible Metal Pipes"	1989
Load Rating	FHWA	Technical Advisory 5140.29, Load-carrying Capacity Considerations of Gusset Plates in Non-load-path-redundant Steel Truss Bridges	January 15, 2008
Scour	FHWA	Technical Advisory T5140 23, Evaluating Scour at Bridges	October 28, 1991
Scour	FHWA	Evaluating Scour at Bridges, Fifth Edition, Hydraulic Engineering Circular, No. 18 (HEC 18)	April 2012

<b>Primary Operation (Coding and Records may also be included)</b>	<b>Publisher or Author</b>	<b>Publication</b>	<b>Publication Date</b>
Scour	FHWA	Stream Stability at Highway Structures, Fourth Edition, Hydraulic Engineering Circular, No. 20 (HEC 20)	April 2012
Scour	FHWA	Bridge Scour and Stream Instability Countermeasures, Experience, Selection and Design Guidance, Third Edition, Volume 1, Hydraulic Engineering Circular, No. 23 (HEC 23)	2009
Scour	FHWA	Bridge Scour and Stream Instability Countermeasures, Experience, Selection and Design Guidance, Third Edition, Volume 2, Hydraulic Engineering Circular, No. 23 (HEC 23)	2009
Scour	FHWA	Revision of Coding Guide, Item 113 – Scour Critical Bridges	April 27, 2001
Scour	FHWA	Compliance with the National Bridge Inspection Standards – Plan of Action for Scour Critical Bridges	March 29, 2005
Scour	FHWA	National Bridge Inspection Standards – Scour Evaluations and Plans of Action for Scour Critical Bridges	January 4, 2008
Scour	FHWA	Technical Guidance for Bridges over Waterways with Unknown Foundations	January 9, 2008
Scour	FHWA	Scourability of Rock Formations	July 19, 1991
Scour	FHWA	Frequently Asked Questions – Bridges Over Waterways with Unknown Foundations	June 3, 2009
Scour	FHWA	Additional Guidance for Assessment of Bridges Over Waterways with Unknown Foundations	October 29, 2009
Scour	NDOR	Hydraulic Analysis Guidelines, Current version	See NDOR Bridge Division website.

Note to Manual Users:

The AASHTO MBE superseded the AASHTO Manual for Condition Evaluation of Bridge and Interiors with the AASHTO Guide Manual for Condition Evaluation and Load and Resistance Factor Rating (LRFR) of Highway Bridges. Revisions based on approved agenda items from annual AASHTO Highways Subcommittee on Bridges and Structures meetings in 2007 and 2008 are also incorporated into the MBE. The MBE was adopted by the AASHTO Highways Subcommittee on Bridges and Structures in 2005. With the 2008 publication of the MBE, the Subcommittee conferred archive status on the Manual for Condition Evaluation of Bridges, the Guide Manual for Condition Evaluation and Load and Resistance Factor Rating (LRFR) of Highway Bridges and all Interim Revisions of both prior bridge evaluation titles.

In December 2009, FHWA updated the NBIS regulation to define the AASHTO Manual in 23 CFR § 650.317 as the MBE, effective January 25, 2010. The AASHTO Manual is included in the NBIS through incorporation by reference (IBR). IBR is a technique used by federal agencies to include and make enforceable materials published elsewhere without republishing those materials in full text in the agencies' regulations. The FHWA uses IBR extensively to incorporate documents such as AASHTO design standards into 23 CFR part 625 and to incorporate FHWA's *Manual on Uniform Traffic Control Devices* into 23 CFR part 655.

This page is intentionally blank.