

CHANGE LOG

PROJECT DEVELOPMENT AND DESIGN GUIDE



CHAPTER NO./TITLE 10. Bridges

EFFECTIVE DATE October 4, 2023

SECTION	CHANGE
General	Updated agency name to MassDOT throughout.
General	Added hyperlinks to external resources.
10.1 Introduction	Updated definitions of bridges, bridge elements, and projects types to be consistent with the MassDOT LFRD Bridge Manual.
10.2 Applications of Bridges	Added clarification about the spacing of grade-separated cross streets.
10.4 Highway Design Considerations	Added new section has been added; moved guidance on horizontal and vertical alignment and cross section originally found in a section titled "Major Design Elements" to this section. Added guidance on stage construction and traffic management.
10.5 Preliminary Bridge Design	Added information on the hydraulic report, geotechnical report, preliminary structures report, and bridge type selection worksheet.
10.6 Bridge Design Considerations	Reorganized section originally titled "Major Design Elements" to refer the reader to the MassDOT LFRD Bridge Manual for guidance on superstructure and substructure elements. Moved information not related to curbs, railing, and utility considerations to the new "Highway Design Considerations" section.
1.7 Inventory and Management of Bridges	<p>Updated this section to be organized under three major subsections:</p> <p>"Assessing Bridge Conditions - Inspections" provides information on bridge inspections, reporting of bridge inspection results, and updated categories of deficiencies and urgency of repair.</p> <p>"Assessing Bridge Conditions - Bridge Rating" provides information on bridge load rating.</p> <p>"MassDOT's Bridge Programs" describes MassDOT's two major bridge programs, the preservation program and the replacement and rehabilitation program, and how inspection results lead to selection for each program. It also contains updated bridge condition categories based on current FHWA information and content on MassDOT's risk-based prioritization system. Details about each of the two bridge programs include scopnig for site specific preservation projects and STIP projects, respectively.</p>
10.8 For Further Information	<p>Added references to the LRFD Bridge Manual (2013) and Bridge Inspection Handbook (2015).</p> <p>Replaced the reference to the Massachusetts River and Stream Crossing Standards (2004) with the Massachusetts Stream Crossings Handbook (2018).</p>