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TRANSMITTAL MEMORANDUM 24-02

TO: Division of Structural Design Staff
KYTC Division Directors
FHWA Kentucky Division
Design Consultants

FROM: Michael Carpenter
Director, Division of Structural Design

DATE: June 25, 2024

SUBJECT: *2024 Structural Design Guidance Manual*

KYTC Division of Structural Design has completed its guidance manual update. The new manual can be accessed at the following location:

<https://transportation.ky.gov/StructuralDesign/Structure%20Guidance%20Manuals/2024%20SD%20Manual.pdf>

Below, is a summary of revisions made for the 2024 Structural Design Guidance manual.

2024 Structural Design Guidance Manual

The Structural Design Guidance Manual provides direction to Kentucky Transportation Cabinet staff and consultants working on Cabinet projects. It outlines the Division of Structural Design's policies, interpretations of the AASHTO LRFD Bridge Design Specifications, and highlights where Cabinet policy differs from the code.

This update incorporates Transmittal Memorandums from 2006 to present, bringing the manual current with the latest code. The goal of this extensive update was to comprehensively align the manual with the latest standards and Cabinet policies.

Revisions were made to the following sections:

SD-01 Table of Contents: Added new sections.

SD-02 Reference Index: New index added.

SD-03 Alphabetical Index: Updated for changes.

SD-101 Design of This Guidance Manual: Reference Index added.

SD-102 Audience and Abbreviations: Abbreviations updated.

SD-103 Function, Organization, and Location: Website added.

SD-104 Services by Consulting Engineers: Quality control requirements added.

SD-105 Website: Website revised.

SD-201 through SD-210 had minor revisions like grammar fixes, updating form references, updating policies/practices, and formatting changes.

SD-401 through SD-412 were completely rewritten to the new code, covering loads, analysis, concrete, steel, decks, foundations, substructures, walls, buried structures, joints, and bearings.

SD-501 through SD-609 were extensively revised according to current policy and guidance with updates on slabs, expansion joints, coatings/weathering steel, diaphragms, beams, drains, SIP forms, substructures, shafts, piles, culverts, earthwork, materials, approach slabs, and new sections on pedestrian and sound barriers.

New exhibits 9600, 9616-9621 were added.

MC/JVZ