CIRCULAR LETTER 2012-10

DESIGN REQUIREMENTS FOR SIMPLE SPAN CAST-IN-PLACE CONCRETE BOX CULVERTS ON NON-FEDERAL AID PROJECTS

COUNTY ENGINEERS/SUPERINTENDENTS OF HIGHWAYS
MUNICIPAL ENGINEERS/DIRECTORS OF PUBLIC WORKS
CONSULTING ENGINEERS

The purpose of this Circular Letter is to provide clarification to CL 2012-05 "LRFD Design Requirements for Precast and Cast-in-Place Concrete Box Culverts" and the department’s policy on the design requirements for culverts on non-federal aid projects.

According to CL 2012-05, beginning with the June 15, 2012 letting, all cast-in-place concrete box culverts and cast-in-place extensions of existing culverts were to be designed according to the latest version and interims of the AASHTO Load and Resistance Factor Design (LRFD) Bridge Design Specifications. This policy is being amended for culverts on non-federal aid projects.

For simple span, cast-in-place concrete box culverts on non-federal aid projects, the design tables in the Culvert Manual using the Load Factor Design (LFD) Bridge Design Specification may be used, at the local agency’s discretion, until the department provides new cast-in-place design tables for the LRFD design specifications, or until this policy is rescinded.

If a note is not placed on the plans indicating "Precast option is not allowed," a Special Provision, as noted in CL 2012-05, will be required for projects let before the June 15, 2012 Letting. For projects let on or after the June 15, 2012 Letting, a Special Provision shall be added indicating the latest LRFD Bridge Design Specification shall be used, by applying the standard designs of ASTM C 1577, if the precast option is selected. See All Bridge Designers (ABD) Memorandum 11.3 for specific skew and fill configurations for LRFD precast boxes that require an additional special provision.

If you have any questions regarding this Circular Letter, please contact Jack Elston at (217) 785-8748 or jack.elston@illinois.gov.

Sincerely,

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