



# INDIANA DEPARTMENT OF TRANSPORTATION

*Driving Indiana's Economic Growth*

## Design Memorandum No. 23-14

October 16, 2023

**TO:** All Design, Operations, and District Personnel, and Consultants

**FROM:** /s/ Stephanie Wagner  
Stephanie Wagner  
Director of Bridge Engineering

**SUBJECT:** Foundation Review

**REVISES:** *Indiana Design Manual Section 408-1.06(02), Figures 408-3A, 408-3B, and Figure 408-1B(deleted)*  
*Indiana Design Manual Editable Documents 408-1B-LRFD and 408-1C-LRFD(new)*

**EFFECTIVE:** Stage 3 Submittals on or after January 1, 2024

The foundation review procedure and associated foundation review forms have been revised. Revisions are summarized below and have been incorporated into the referenced sections of IDM [Chapter 408](#) and INDOT [Design Manual Editable Documents](#) webpage, under Bridges.

Foundation Review Procedure. The foundation review procedure has been revised to include INDOT Geotechnical Engineering Division in the review and approval process. This revision does not change how designers submit and receive Foundation Review forms. HP 10 piles size information has been deleted from Figures 408-3A and 408-3B.

Foundation Review Form. The Foundation Review form has been converted into two separate forms based on foundation type.

1. Foundation Review, LRFD – Piles (Editable Document 408-1B-LRFD) applies specifically to structures supported on a pile foundation. The Unfactored Permanent Load, Qd, has been added as a required field when downdrag loads have been calculated using the neutral plane method. Several abbreviations have been updated for consistency with the AASHTO *LRFD Bridge Design Specifications*.
2. Foundation Review, LRFD – Spread Footing (Editable Document 408-1C-LRFD) is a new form created for structures supported on spread footings. This foundation type was previously covered by 408-1B-LRFD, but many fields on the form did not apply to spread footings. The new form is specific to spread footings and is more intuitive.

For questions related to this design memo, please contact the Bridge Engineering Division at [Bridgedesignoffice@indot.in.gov](mailto:Bridgedesignoffice@indot.in.gov).