

THE ILLINOIS STATE TOLL HIGHWAY AUTHORITY

July 18, 2018

DESIGN BULLETIN No. 18-04

**SUBJECT: Structural Assessment Reports (SARs) Requirements**

The 2018 Illinois Tollway Structure Design Manual has been revised to include notes and guidelines to General Notes - Section 7.2.3 - Structural Assessment Reports (SARs) for Contractor's Means and Methods.

The proposed revisions are to provide guidance to engineers regarding the use of the General Notes for Structural Assessment Reports (SARs) for Contractor's Means and Methods and are based on IDOT ABD Memo 09.1 dated March 9, 2009 and IDOT Guide Bridge Special Provision (GBSP) for Structural Assessment Reports for Contractor's Means and Methods (GBSP 67).

These proposed revisions also place conditions on the loading and stockpiling of raw materials on a structure during construction operations.



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07/18/18

Date

Revisions:

Revise Section 7.2.3 to read as follows:

**7.2.3 Structural Assessment Reports for Contractor's Means and Methods**

[Used on a case-by-case basis when an existing bridge is to be removed or rehabilitated based on the following (per discussions and agreement with the Tollway PM): If Structural Assessment Reports (SARs) are deemed required for the removal of existing structures, portions thereof, new construction or for construction utilizing existing components, then use Notes 1 and 2. Use Note 3 when there is deterioration of the existing structure resulting in a reduced load carrying capacity. Use Note 4 when a SAR is not required for miscellaneous repairs such as joint replacement, partial deck repairs, or bearing replacement]

1. A Structural Engineer, licensed in the State of Illinois, shall prepare and submit Structure Assessment Reports (SARs) for the proposed work associated with removing, modifying or reconstructing existing structures or portions thereof. Unless noted otherwise, a SAR shall be required when the Contractor's means and methods apply loads to the structure or change its structural behavior. A SAR shall be submitted to the Engineer for review and acceptance prior to starting the work, in accordance with the latest IDOT Guide Bridge Special Provision, "Structural Assessment Reports for Contractor's Means and Methods" prior to beginning the work covered by that SAR. Separate portions of the work may be covered by separate SARs which may be submitted at different times or as dictated by the Contractor's schedule.
2. An Existing Structure Information Package (ESIP) will be provided by the Illinois Tollway to the Contractor upon request. This package will typically include existing or "As Built" plans, and the latest National Bridge Inspection Standards (NBIS) inspection report. The availability of structural information from the Illinois Tollway is solely for the convenience and information of the Contractor and shall not relieve the Contractor of the duty to make, and the risk of making, examinations and investigations as required to assess conditions affecting the work. Any data furnished in the ESIP is for information only and does not constitute a part of the Contract. The Illinois Tollway makes no representation or warranty, express or implied, as to the information conveyed or as to any interpretations made from the data.
3. The Contractor is advised that the existing structure contains members that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure. An Existing Structure Information Package (ESIP) is available upon request as noted in Note 2.
4. The Contractor shall submit written verification, prior to the start of the activity, to the Engineer stating that applied loads on the structure due to construction activities will not exceed 10 tons of total combined weight of equipment and stockpiled materials at any one time. This Structural Assessment Report (SAR) exemption shall not relieve the Contractor from the responsibility of properly applying loads to the structure.