

This topic is “practice ready.” Yes No

Iowa DOT 3D in Bridge Design Initiative

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Abstract

The Iowa DOT Office of Bridges & Structures with the use of 3D data and modeling is attempting to improve structures project plan production; streamline design processes to save time and reduce errors in design and construction; and improve communication of the project details to other offices, contractor and fabricator. A brief history of the research facilitating these efforts will be provided. Continued use of 3D visualization techniques to aid in clarification and constructability and new efforts to implement complete 3D models with use of different bridge design software are included in the plan. The status of the various efforts pursued will be summarized.

Keywords: 3D—visualization—model—software—structures

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