

Gilmerton Bridge Construction – BIM Modeling in Action

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4-D and BIM Modeling for heavy civil construction projects. PCL Civil Constructors, Inc is a heavy civil contractor that was selected by the Virginia Department of Transportation to remove and replace the existing Gilmerton Bascule Bridge with a new vertical lift bridge. This complex and access restrictive project required a new perspective on how to manage the different components necessary to construct the work. With the help of our structural steel supplier, we began by creating a Tekla 3-D model of structural steel portion of the structure. From here, we began adding access components, machinery & electrical components and concrete components. We then tied the 3-D model to our CPM schedule and are ultimately able to use this tool to mitigate construction projects in virtual space before they become real problems in the field.

