

Infrastructure Design Suite 2014

BIM Workflow for County Road and Bridge Design Project.

This advance CRAB design systems training class takes you through an example project based on BIM (Building Information Modeling) workflow for a typical County road and bridge design project using the **Autodesk® Infrastructure Design Suite Ultimate software**. I'll be introducing you to many datasets such as the Bloomington data model that many of you are familiar with from our Autodesk training day at the 2013 CRAB **Road Design Conference** in Kitsap County.

For this intense advance class you will be taught using the following suite of software design programs;

- 1.) Autodesk® InfraWorks
- 2.) AutoCAD® Civil 3D®
- 3.) Autodesk® Navisworks® Manage
- 4.) Autodesk® 360
- 5.) AutoCADWS
- 6.) Autodesk® 3ds Max® Design

We'll utilize that suite of software to complete a County road design project from project planning through visual presentations to construction reports & documents:

- Create an existing ground model using the Autodesk InfraWorks software.
- Rough in multiple layouts of the proposed roadway using the Autodesk InfraWorks software.
- Determine the optimal corridor location and create proposals to correspond the selected option using the Autodesk InfraWorks software.
- Create Engineered Road Designs in the Autodesk InfraWorks.
- Export out your Autodesk InfraWorks design information into AutoCAD Civil 3D.
- Create typical cross-sections of the road using Assemblies in AutoCAD Civil 3D.
- Create a complex corridor model of the roadway in AutoCAD Civil 3D using Autodesk InfraWorks design data.
- Create and edit intersection designs.
- Calculate quantities using cut/fill and material quantity dashboards.
- Merge AutoCAD Civil 3D data, Autodesk® Revit® Structure data, and other data sources in the Autodesk® Navisworks® Manage software.
- Perform clash detection in Autodesk Navisworks Manage.
- Create visual presentations to link your design using scenarios, and renderings with the Autodesk InfraWorks software and Autodesk 3ds Max Design software.

Prerequisites:

JimA's AutoCAD Civil 3D Basic Fundamental's Training Class and/or experience with AutoCAD Civil 3D user interface, navigating the model, alignments, and profiles.