



# Design Systems Training

## InfraWorks 2015 Training Class Outline

### Course Objective:

CRAB's InfraWorks 2015 fundamental training course is designed for county engineers, planners, and others using the InfraWorks software. This course provides you with a fundamental knowledge of how to take advantage of the accelerated design process that uses data-rich 3D models with high-end visualizations. This enables you to create, evaluate, and better communicate 3D county project proposals for faster project approvals. Once a model is created you can then import it into your AutoCAD Civil 3D software for finer details and plan and profile productions sheets.

### COURSE SCHEDULE

#### DAY1

##### **1. Navigating the User Interface**

- Building Information Modeling
- Overview of the Interface
- Navigating the Model
- Working with Proposals
- Practice 1a: Navigating the User Interface

##### **2. Connecting to Data Sources**

- Geographic Information Systems Overview
- Connect to Data Sources
- Configure and Display Data Sources
- Practice 2a: Import and Display Existing Data
- Practice 2b: Manage Model Layers

##### **3. Stylize Data Sources**

- Using Multiple Styles to Display Features
- Overriding Style Rules
- Create and Share Styles
- Practice 3a: Stylize Data Sources

##### **4. Create Model Elements**

- Basic Commands
- Create Conceptual Roads in the Model
- Practice 4a: Create Roads in the Model
- Create/Add Buildings and Other City Furniture to the Model
- Practice 4b: Add/Create Buildings and City Furniture to the Model

## **DAY 2**

### **4. Create Model Elements (continued)**

Create Coverages in the Model  
Practice 4c: Create Coverages in the Model  
Add Vegetation to the Model  
Practice 4d: Add Trees to the Model  
Create Pip Networks in the Model  
Practice 4e: Create Utilities in the Model  
Create Railways and Add Railway Furniture to the Model  
Practice 4f: Create a Passenger Railway in the Model  
Create Water Features in the Model  
Practice 4g: Create Water Features in the Model  
Add Miscellaneous Details to the Model  
Practice 4h: Add Miscellaneous Details to the Model

### **5. Analyzing the Model**

Theme a Data Source  
Practice 5a: Create Themes in the Model  
Line of Sight Analysis  
Measure the Model  
Analyze Shadows  
Practice 5b: Analyze the Model

### **6. Collaborating with Others**

Share Files Using the Autodesk InfraWorks 360 Service  
Working with Autodesk Revit Models  
Practice 6a: Import an Autodesk Revit File  
Share Design Elements with AutoCAD Civil 3D  
Practice 6b: Work with .IMX Files  
Working with Scenarios  
Practice 6c: Share the Model Using a Scenario

### **7. Communicate the Design to Stakeholders**

Creating Images  
Practice 7a: Communicating the Design Using Images  
Working with Storyboards  
Practice 7b: Communicating the Design Using a Storyboard

### **Prerequisites:**

Experience with AutoCAD® Civil 3D or Map3D and a sound understanding and knowledge of civil engineering terminology.

Course Length: 2 Days

Class Hours 9:00 to 4:00.