

OBM TRAINING AGENDA

DAY 1

1. OBM Overview

- a. Product help document
- b. GUI Overview
 - i. *Workflows*
 - ii. *Ribbons*
 - iii. *Explorer*
- c. Bridge Units in OBM
- d. Interface Setup
 - i. *Docking tools & views*

2. Templates

- a. Create:
 - i. *Deck & Barrier*
- b. Quick Overview:
- c. Beam, Column, Connection Plates, Cross frames, Splices, Materials

3. OBM Model

- a. Feature Definitions & Symbolologies
- b. Importing Alignment
 - i. *Moving around in 3D*
- c. Importing Terrain
- d. Bridge Setup & Aerials
- e. Place Support Lines
- f. Clip Reference Files
- g. Place Deck
 - i. *Variable Constraint Method*
 - ii. *Library Method*
 - iii. *Superelevation File*
- h. Beam Layout
- i. Place Beams
 - i. *Concrete*
 - ii. *Steel*
- j. Place Cross Frames
 - i. *Stiffener template*
 - ii. *Connection Plate template*
 - iii. *Cross Frame Template*
 - iv. *Place Cross Frames*
- k. Place Stiffeners
- l. Place Field Splice
 - i. *Template & placement*
- m. Place Abutments
- n. Place Piers
- o. Place Bearings
- p. Place Barrier Wall
- q. Decorations Overview

DAY 1 (CONT.)

4. Reports

- a. Input Echo (How to QC the model)
- b. Quantities
- c. Deck (Finish Grade Elevation)
 - i. *Beam Layout adjustment*
- d. Beam
- e. Bearing Seat
- f. Camber
- g. Pier

5. Clash Detection

- a. Vertical Clearance
- b. Underground Utilities

DAY 2

1. Parametric Cells Overview

- a. Functional Component
- b. General Purpose
- c. Constraints
- d. Variables

2. Modeling Custom Pier

- a. Creating the model
- b. Turning it into a cell
- c. Placing Custom Pier

3. Rebar modeling

- a. GUI & Tool Overview
 - i. *Methods: element tools vs face based vs manual*
 - ii. *Single Rebar Set*
 - iii. *Irregular Dispatch*
 - iv. *Single Rebar Distribution*
 - v. *Single Rebar*
- b. Modeling the Rebar
 - i. *Footing*
 - ii. *Column*
 - iii. *Cap*
- c. Applying Bar Marks (Positioning)
 - i. *Pier*
- d. Applying User Bar Marks
- e. Plans Production Preview (video starts at 2:00, end at 12:45)
- f. Schedule Generator (video stops at 10:30)

DAY 3

1. Plans Production Overview

- a. Model Types (video stops at 3:45)
- b. Dynamic Views workflow (video)
- c. Clip volumes (video)
- d. Sheet Index

2. Sheet Creation Process & Tools

- a. Drawing Model Placement Methods
- b. Drawing Boundaries
- c. Section Callout (Pier Sheets)
- d. OBM Auto Drawings
 - i. *Superstructure*
 - ii. *Substructure*
- e. Dynamic View by Station (Typical Section sheets)
- f. Named Boundary
 - i. *By Two Points (Isometric)*
 - ii. *By Array (Plan & Elevation sheets)*
- g. Elevation Callout (Plan & Elevation sheets)
- h. Detail Callout
- i. Decorations (Framing Plan)

3. Annotation Tools

- a. Text Favorite Manager
 - i. *Station offset*
 - ii. *Elevation*
- b. Labels
- c. Item Types
- d. Reports
- e. Tables
 - i. *From Reports*
 - ii. *From Excel File*

4. Sheet Index & Printing (psets)

- a. Sheet Border Info
 - i. *Workset Properties*
 - ii. *Sheet Number & Title*
 - iii. *Item Type Properties*
- b. Sheet Index
 - i. *Folder Rules (properties)*
 - ii. *Adding Sheets*
 - iii. *Organizing Sheets (can only move down currently)*

5. Bonus Material (if we finish early)

- a. Modeling Slopes (video)
- b. Modeling Underground Utilities
- c. 3D Line Styles
- d. Display Style Rules
- e. iTwin Review
- f. Placing Wingwall
- g. Placing Auxiliary Items