

CDOT ORD Training

AGENDA:

Video Recording Link:

https://drive.google.com/drive/folders/1Q8_WJ4iE0-hHPVCnAtF-3F1x4MOH7MI?usp=sharing [drive.google.com]

(For best results, Please Copy & Paste Link URL to Browser)

1. Introductions

- Instructors: Albert Herrera & Marc Bachand

2. SS4 vs. ORD **Video Recording Name: Day1_01_SS4 vs ORD.mp4 (Duration 8:56)**

- Finding the similarities and differences

3. Project Files **Video Recording Name: Day1_02_Project Files.mp4 (Duration 14:16)**

- Explaining the differences between a Design file, Modeling file and Sheet file
- Explaining what should be included within each file type

4. File Naming Convention (Recommendation)

Video Recording Name: Day1_03_File Naming Convention.mp4 (Duration 16:16)

- Revisiting the CDOT traditional naming convention
- Establishing a design file naming convention
- Establishing a model file naming convention
- Establishing a sheet file naming convention

5. ProjectWise Folder Structure (Recommendation)

Video Recording Name: Day1_04_ProjectWise Folder Structure.mp4 (Duration 6:57)

- Working with the current CDOT ProjectWise Folders
- Expanding the Model folder for Modeling file types

6. ORD Interface **Video Recording Name: Day1_05_ORD Interface.mp4 (Duration 14:44)**

7. Horizontal Geometry

- Establishing a good practice of creating horizontal geometry

Video Recording Name: Day1_06_Creating Horizontal Geometry.mp4 (Duration 41:32)

- Understanding how to effectively edit horizontal geometry

Video Recording Name: Day1_07_Editing Horizontal Geometry_Part 1.mp4 (Duration 17:35)

Video Recording Name: Day1_08_Editing Horizontal Geometry_Part 2.mp4 (Duration 16:12)

8. Vertical Geometry **Video Recording Name: *Day1_09_Vertical Geometry.mp4 (Duration 23:43)***

- Establishing a good practice of creating vertical geometry
- Understanding how to effectively edit vertical geometry

9. Modeling in ORD

- 3D Model outline still the same in ORD

Video Recording Name: *Day2_01_Modeling Outline.mp4 (Duration 5:30)*

- What to know about Templates

Video Recording Name: *Day2_02_Templates.mp4 (Duration 21:10)*

- How to use all End Condition Target types

Video Recording Name: *Day2_03_End Conditions.mp4 (Duration 12:30)*

- Critical Design Limit (CDL)

Video Recording Name: *Day2_04_Critical Design Limit.mp4 (Duration 18:41)*

- Applying the Critical Design Limit

Video Recording Name: *Day2_05_Applying the Critical Design Limit.mp4 (Duration 33:09)*

- Model between Corridor to Corridor

Video Recording Name: *Day2_06_Corridor to Corridor - Critical Design Feature.mp4 (Duration 8:46)*

- Explaining the two ways to calculate superelevation

Video Recording Name: *Day2_07_Superelevation.mp4 (Duration 31:05)*

10. Terrain Models **Video Recording Name: *Day2_08_Terrain Models.mp4 (Duration 19:30)***

- Explaining the different ways to create a Terrain Model
- How editing a Terrain Model depends on the creation
- Explaining the two methods to display contours

Video Recording Name: *Day2_09_Displaying Contours.mp4 (Duration 16:00)*

11. Plan Production

- Things to consider when setting up sheets and the two methods to use
- Creating Civil Plans, Civil Profiles, Civil Plan & Profiles and Cross Sections

Video Recording Name: *Day3_01_Plan Production_Civil Plan.mp4 (Duration 1:02:10)*

Video Recording Name: *Day3_02_Plan Production_Civil Profile.mp4 (Duration 19:09)*

Video Recording Name: *Day3_03_Plan Production_Civil Plan and Profile.mp4 (Duration 9:27)*

Video Recording Name: *Day3_04_Plan Production_Civil Double Plan.mp4 (Duration 3:45)*

Video Recording Name: *Day3_05_Plan Production_Civil Plan by Element.mp4 (Duration 31:06)*

Video Recording Name: *Day3_06_Plan Production_Cross Sections.mp4 (Duration 18:54)*

- Things to consider when annotating and using Element Annotation, Model Annotation and Civil Labeler

Video Recording Name: *Day3_07_Plan Production_Annotation.mp4 (Duration 23:22)*

12. Calculating Earthwork Video Recording Name: *Day3_08_Calculating Earthwork.mp4 (Duration 11:54)*

- What to know prior to calculating earthwork
- Explaining the difference between End Area Volume and Volumetric quantities

13. 3D Modeling Deliverables Video Recording Name: *Day3_09_3D Modeling Deliverables.mp4 (Duration 39:35)*

- Explaining the overview of 3D Modeling Deliverables **(1:23)**
- Creating LandXML files for Alignments **(5:37)**
- Creating LandXML files for Surfaces **(15:07)**
- What DGN's to include along with the LandXML files **(28:05)**