Chapter 10

• Creating Cross Sections of the Design

  – Topics
    • Using the Section Editor
    • Creating Sample Lines
    • Creating Section Views
    • Sampling More Sources
Using the Section Editor

• The Section Editor gives you a “live” slice of the corridor at any given location.

• It has its own ribbon tab to serve up its many functions.

• It is for viewing and editing your corridor.
• Edits made with the Section Editor are considered overrides.
Exercise

10.1: View and Edit with the Section Editor
Page 178
Understanding Sample Lines

• A sample line is the path along which a section is “cut.”
• There are usually many of them.
• They are typically drawn perpendicular to the alignment.
• They are associated to the alignment.
• They are placed within sample line groups.
• Sample line groups are placed beneath alignments in the object hierarchy.
Creating Sample Lines

• After launching the Sample Lines command, you are prompted to select an alignment.

• You can sample surfaces, corridors, corridor surfaces, and pipe networks.

• Sample line creation tools are provided in a toolbar.

• There are multiple ways to place sample lines:
  – By Range of Stations
  – At a Station
  – From Corridor Stations
  – Pick Points On Screen
  – Select Existing Polylines
Exercise

10.2: Create Sample Lines
Page 182
Understanding Section Views

• Section views are just like profile views but for sections.
• They have grid lines, annotation, and bands.
• They can be created individually or many at once.
• They are placed within section view groups.
Individual Section Views

- At times, especially when designing, you will want to create individual section views at specific locations.
- Civil 3D provides a command for this purpose.
- When creating individual section views, you do not need to address the arrangement of the views.
Exercise

10.3: Create Single-Section Views
Page 184
Multiple Section Views

- Road design projects often require section sheets.
- Section sheets are a common/traditional method for constructing roads.
- Section views are typically provided at even intervals and at key locations.
- When creating multiple section views, you must address the arrangement within sheets.
Exercise

10.4: Create Multiple Section Views
Page 186
Sampling More Sources

• So far you’ve only seen a sample line slice through a corridor.
• Surfaces, corridor surfaces, and pipe networks can also be sampled.
• In fact, more sources can be added after the sample lines are created.
• Civil 3D has tools to make it easy to add more sources and update all the section views.
Exercise

10.5: Sample More Sources
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Now You Know…

• How to use Section Editor to view and edit sections
• How to create sample lines and choose which information will be captured
• How to create section views, individually and in groups
• How to add more sources to section views