FDOTSS4 Design and 3D Modeling
Urban Driveways

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October 7, 2015
In this webinar, we will discuss two methods for modeling driveways for an urban design project and the advantages or disadvantages of each.

The methods include:

- Driveway Template Components
- 3D Urban Driveway Civil Cell
Driveway Template Components

◆ Steps to Configure

1. Place Reference Line (ConstLines)
   - Left Side of Driveway

2. Place 2D Urban Driveway Civil Cell
   - Modify as needed, Clean Linework

3. Copy Driveway > Modeling template from FDOT

4. Set Curb Parent/Child Relationship for project template

5. Add Drop Curb Driveway template to project template
   - Change Utility and SW widths to match project template
   - Check HFC targets and ranges
   - Add End Conditions/Tie Down Slab
   - Check Display Rule for Utility Strip change value to .05

6. Change Project Design Stage Settings
   - Set Preliminary multiplier to 1 and Template Interval to 2

7. Synchronize Template Drops
Driveway Template Components

◆ Steps to Configure

8. Add Corridor References
   - Driveway and Curb Face lines

9. Re-Apply Superelevation Point Control

10. Add Profile to BSW lines
    - Use Project Profile to Element
    - Select Model 3D lines then Plan 2D lines
    - Add line at Driveway Location

11. Add Vertical Point Control for Driveway Template
    - BSW vertical from Profile
3D Urban Driveway Civil Cell

◆ Steps to Configure

1. Place Reference Line (ConstLines)
   - Left Side of Driveway
   - Along the EOP

2. Add Profile to EOP and BSW lines
   - Use Project Profile to Element
   - Select Model 3D lines then Plan 2D lines

3. Place 3D Urban Driveway Civil Cell
   - Modify as needed

4. Add Corridor Clipping References
   - Drop Curb Linear Template
   - TieDown Slab Linear Template
   - DTMProposed Driveway Terrain

5. Modify Main Curb Back Top width (Tolerance for clipping)

6. Add Superelevation Point Control to Project
Session Overview

- Driveway Template Components Advantages
  - Faster Processing

✓ Disadvantages
  - More setup
  - Tighter Intervals
  - Gaps
Session Overview

- 3D Urban Driveway Civil Cell
  - Advantages
    - Less setup
  - Disadvantages
    - Slower Processing
    - Corridor Clipping Objects
    - No Gaps
Summary:

<table>
<thead>
<tr>
<th>Method</th>
<th>Component Templates</th>
<th>3D Civil Cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setup</td>
<td>MORE!</td>
<td>Less</td>
</tr>
<tr>
<td>Processing Time</td>
<td>Less</td>
<td>MORE!</td>
</tr>
<tr>
<td>Gaps</td>
<td>Equal to Interval</td>
<td>None</td>
</tr>
<tr>
<td>Corridor Objects</td>
<td>PC and HFC’s</td>
<td>Clipping</td>
</tr>
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</table>
QUESTIONS AND COMMENTS

Thank you for attending!

Engineering/CADD System Support