



## **Civil 3D Pilot Projects Lessons Learned**

Florida Department of Transportation



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## Training

- ✓ *Having trained personnel pays off*
  - Users were trained in AutoCAD 2012 and Civil 3D 2012 in separate training sessions.
  - Generally all users were at a similar skill level with the software.
- ✓ **SUPPLEMENTAL SUPPORT**
  - Weekly AutoCAD User Group Meeting
  - On site work sessions with the project team
  - Specialized GoToMeeting sessions between users and support staff and consultants as needed.
  - Email Group to all users to insure knowledge being shared
  - District organized online Resources
  - Online workflows and VBooks



## Lessons Learned

- ❖ TIMS does not connect drawings with data references  
*All EOP, Curb, FSW, BSW, etc..geometry needed to be converted to Alignments for Corridor targets. Corridors cannot target through External References.*
- ❖ Organizing project into Segments using the same Alignment source files as External References.  
*Other Data management methods work best.*
- ❖ Data References do not nest and carry through ALL External References.  
*Each Data Reference can stack on each other in External References making annotation difficult. Layer State Management may need to be standardized.*



## Lessons Learned

- ❖ Design Files need more than 2D Design Geometry for Corridors

*All EOP, Curb, FSW, BSW, etc..geometry needed to be converted to Alignments and shared as Data Shortcuts for Corridor targets. Corridors cannot target through External References.*

- ❖ Offset Assemblies with single links and no shape do not show up in cross sections or in double baseline corridor constructions.

*Generic links are used to target second baselines.*

- ❖ Blocks from Microstation come in 12x

*Blocks in Libraries rescaled to 1:1.*



## Data References and Xrefs

*Little realized fact that causes issues*

- Data References do not nest and carry through ALL External References.

