



FDOT SS4 Plans Development Workflows

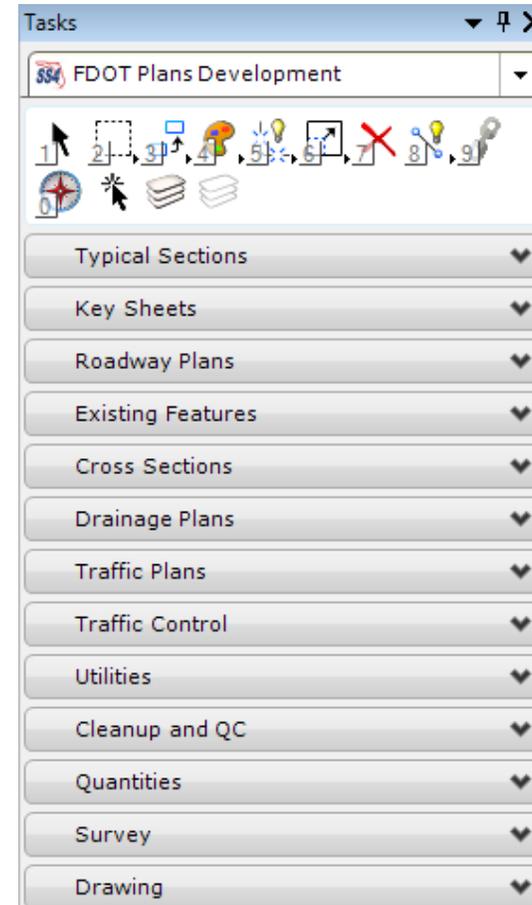
Christiana Holmes

Topics Covered

- The FDOT Plans Development Workflow Menus
- What's New? What's Not?
- New Key Sheets
- Plan/Profile Workflow
- Existing Features Workflow Diagram
- Cross Section Workflow Diagram

FDOT SS4 Plans Development Workflow Menus

- Typical Sections
- Key Sheets
- Roadway Plans
- Existing Features
- Cross Sections
- Drainage Plans
- Traffic Plans
- Traffic Control
- Quantities
- Survey



What's New & What's Not

New...

- Alignments and profiles are stored in DGN files.
 - No longer using COGO
- Contours are stored with the Terrain in the DGN file.
 - Different workflow to get them on sheets...
- Profiles and Cross Sections can be opened in a special view
 - Different workflow to get them on sheets...
- New workflows for creating cross sections and profile sheets

Not...

- Most of the GEOPAK Plan Production tools have not changed...
 - Sheet Clipping Tools
 - GEOPAK Plan View Labeler
 - Ancillary Features
 - Borehole Navigator
 - D&C Manager
 - Etc...

Key Sheets Changes

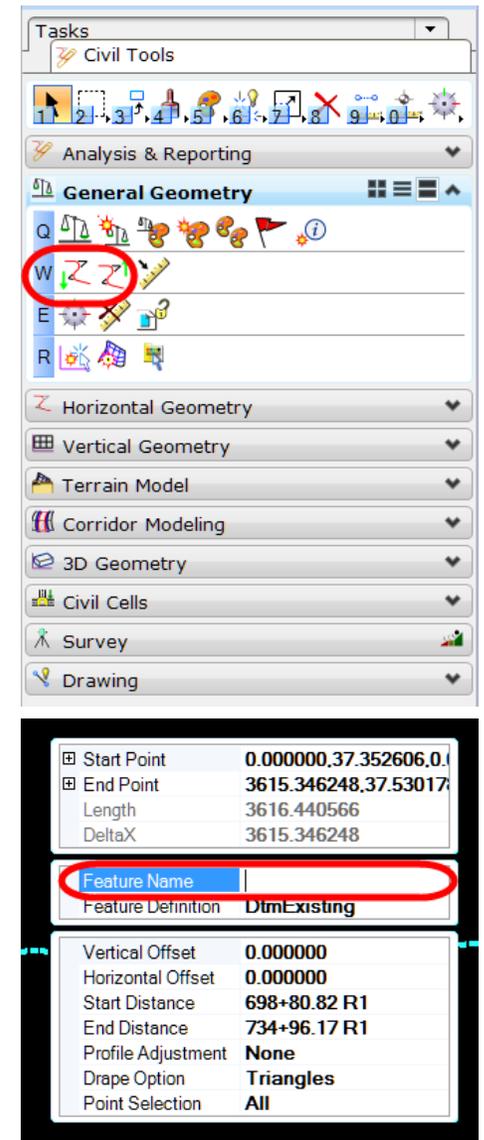
Changes to the Key Sheet Workflow:

- The Plans Components is now a cell that can be added and edited (No longer available through LDM).
- Project Length Box has been removed.
- Revisions cell has been moved to appear in the center bottom of the sheet.
- Development Design Standards note is a cell.
- Early works note is a cell.
- Applicable DSRs is a cell.
- Construction Contract No. moved to the bottom of the sheet
- Strung project information moved to the top of the sheet.
- Shop drawing information has been removed.

Plan/Profiles Workflow

Importing/Exporting Alignments:

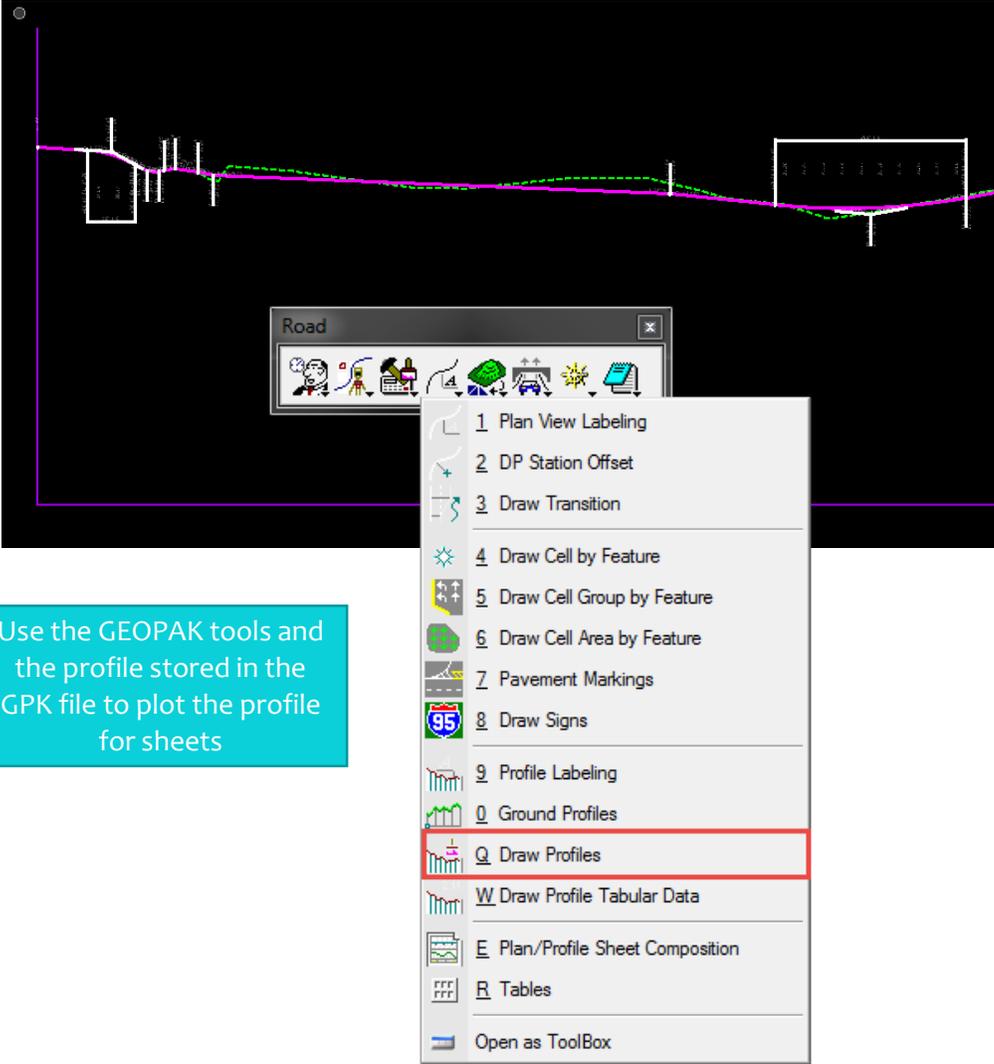
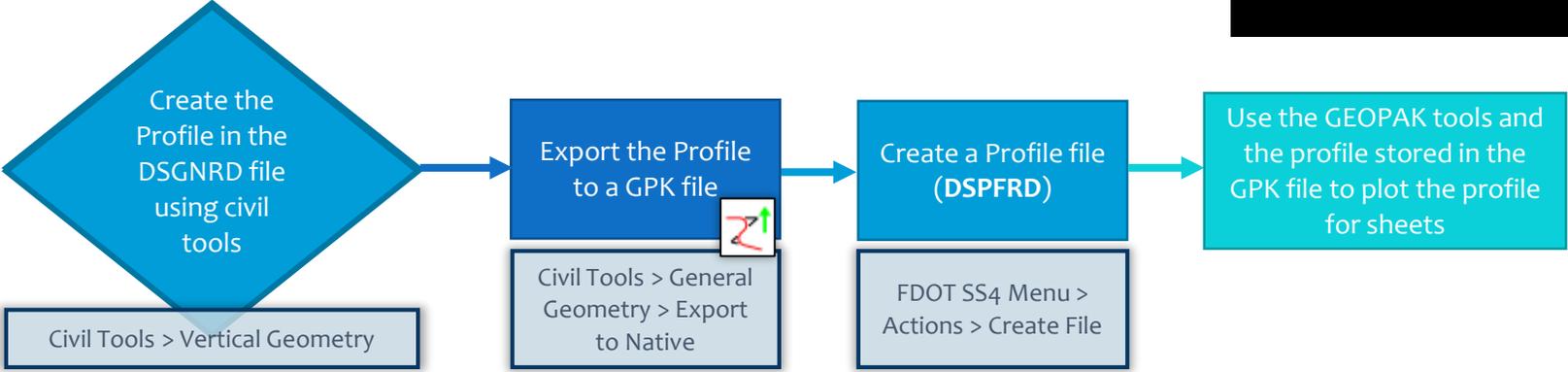
- In SS4, alignments and their profiles are stored in the DGN file. NO GPK FILE for design!!
- Alignments and Profiles must be exported to the GPK file in order to use the Plan Production tools
 - **Important** – Profiles do NOT automatically have names associated with them upon creation. The Feature Name (Profile Name) must be defined prior to exporting to the GPK.
 - Once the profile is exported to a GPK file, all legacy GEOPAK tools are used for creating profile sheets.



The screenshot displays the software's task and property panes. The 'Tasks' pane on the left shows a list of tool categories: Civil Tools, Analysis & Reporting, General Geometry, Horizontal Geometry, Vertical Geometry, Terrain Model, Corridor Modeling, 3D Geometry, Civil Cells, Survey, and Drawing. The 'General Geometry' category is expanded, and a red circle highlights the 'W' icon, which represents the 'Profile' tool. Below this, the 'Properties' pane shows the following data:

Start Point	0.000000,37.352606,0.1
End Point	3615.346248,37.53017
Length	3616.440566
DeltaX	3615.346248
Feature Name	
Feature Definition	DtmExisting
Vertical Offset	0.000000
Horizontal Offset	0.000000
Start Distance	698+80.82 R1
End Distance	734+96.17 R1
Profile Adjustment	None
Drape Option	Triangles
Point Selection	All

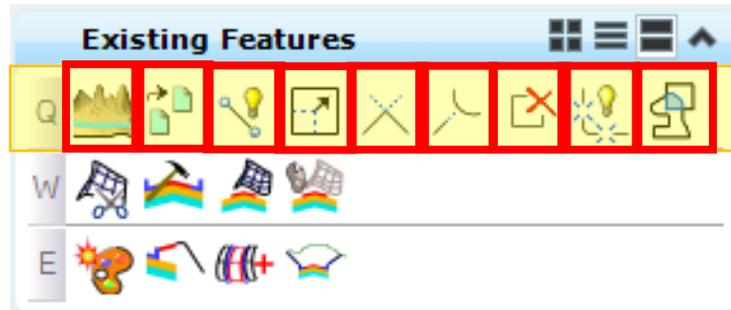
Plan/Profiles Workflow



Existing Features Workflow

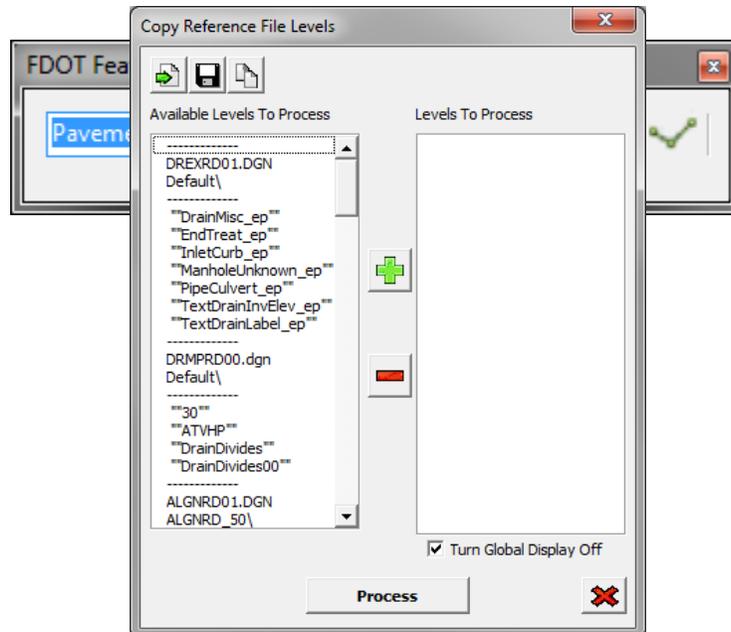
- Criteria is no longer supported!!
- Criteria cannot be used to create the existing features in cross sections when modeling.
- See Ch. 1 of the [FDOT Roadway Design and 3D Modeling](#) training manual for steps on how to create the existing features.
- All of the necessary tools can be found on the [FDOT Plans Development > Existing Features](#) menu

Existing Features Workflow Menu

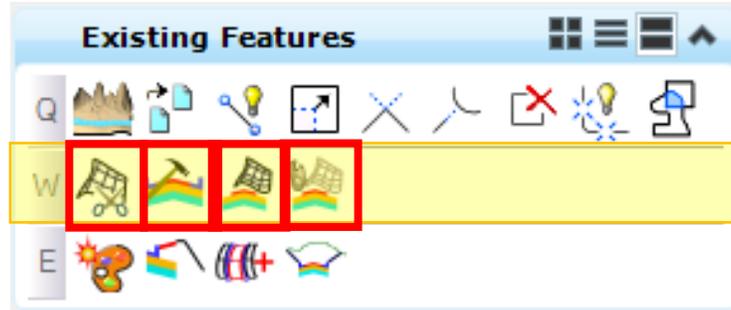


Row One – Creating Shapes:

- Create Existing Features (New FDOT Tool)
- Copy Reference File Levels (New FDOT Tool)
- Draw Smart Line (MS Tool)
- Modify Element (MS Tool)
- Trim to Intersection (MS Tool)
- Trim to Element (MS Tool)
- Break Element (MS Tool)
- Drop Elements (MS Tool)
- Create Region (MS Tool)



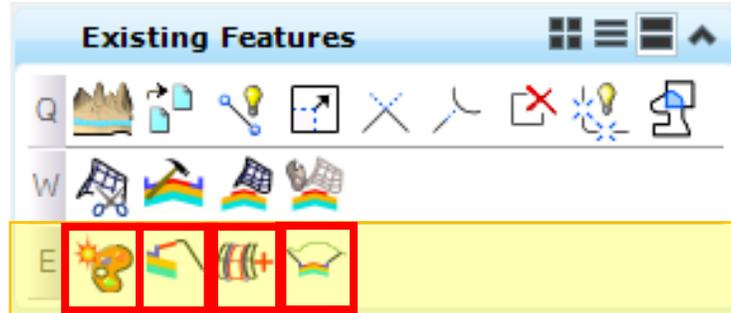
Existing Features Workflow Menu



Row Two – Clipping and Editing Terrains and Surface Templates:

- Clip Terrain (New Civil Tool)
- Open Existing Features Templates (New Civil Tool)
- Apply Surface Template (New Civil Tool)
- Edit Applied Surface Template (New Civil Tool)

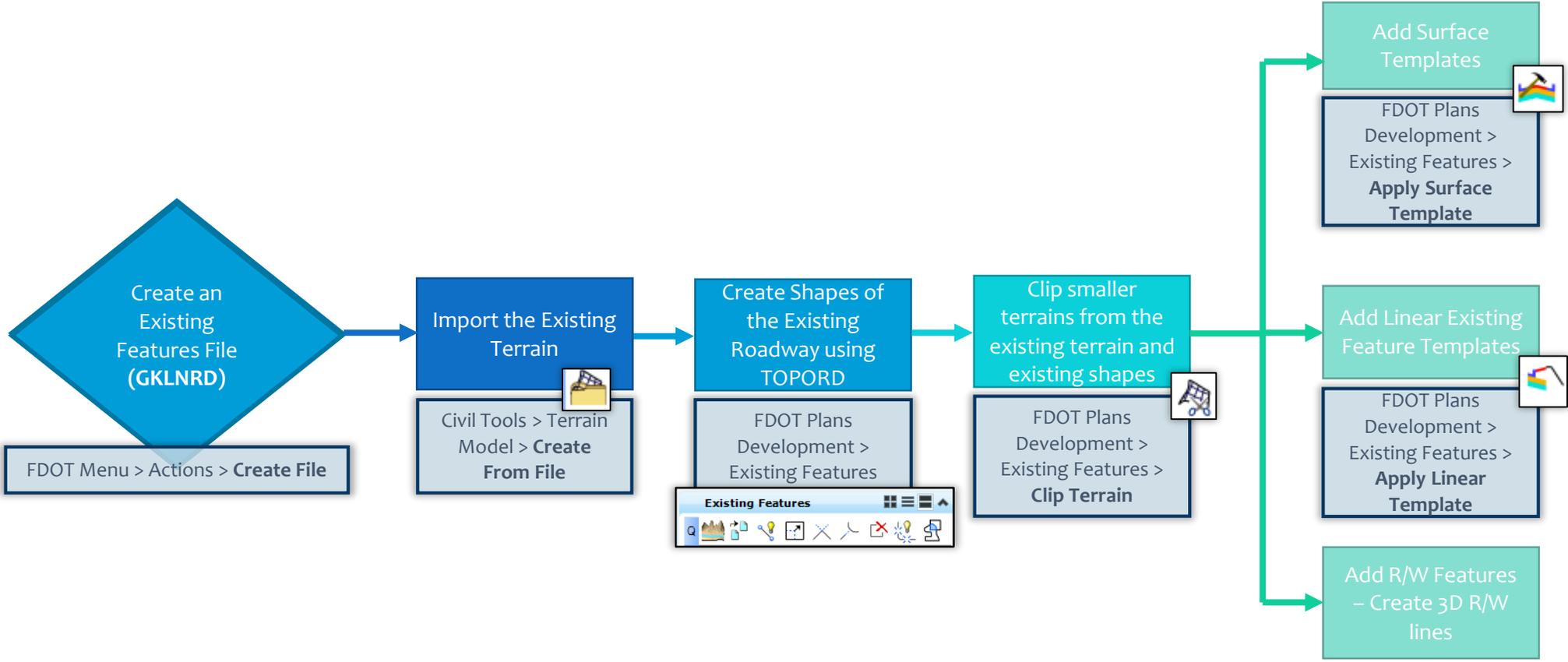
Existing Features Workflow Menu



Row Three – Adding Existing Linear Features (Curbs):

- Set Feature Definition (New Civil Tool)
- Apply Linear Template (New Civil Tool)
- Add Corridor Reference (New Civil Tool)
- Open Cross Sections in a View (New Civil Tool)

Existing Features Workflow Diagram



Cross Section Workflow

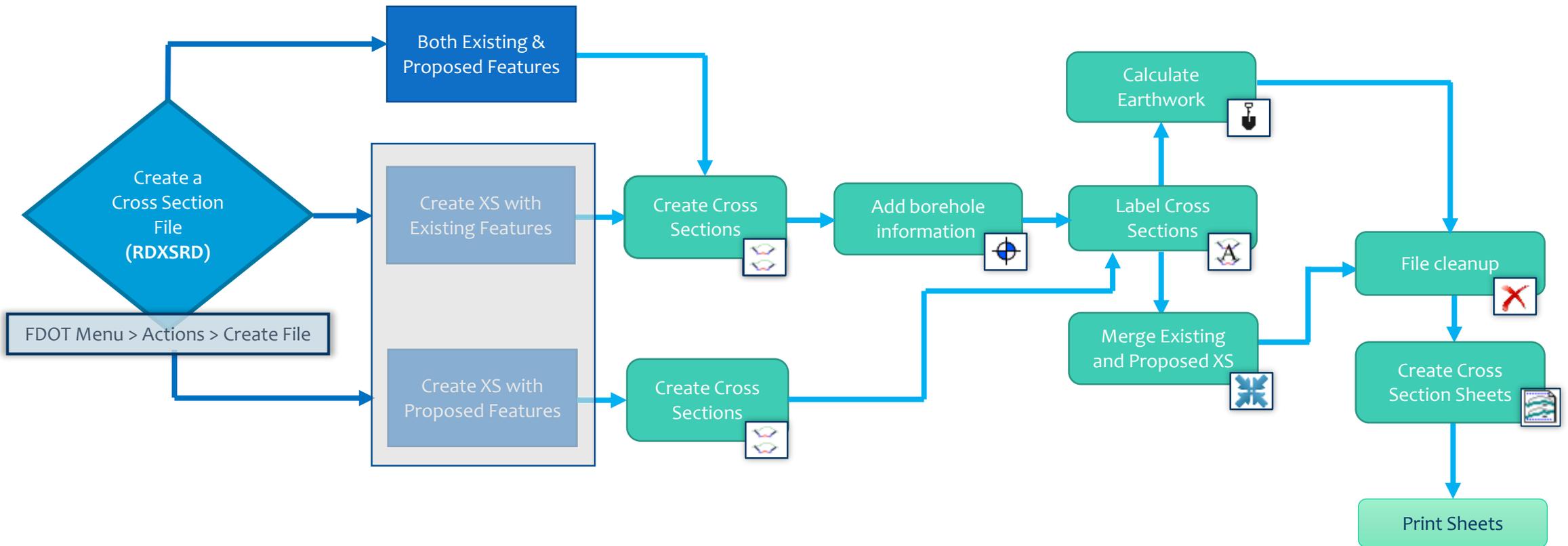
- Criteria is no longer supported!!
- Criteria cannot be used to create the existing features in cross sections when modeling.
- See Ch. 7 of the [FDOT Plans Development Workflows](#) training manual for steps on how to create cross sections in SS4.
- All of the necessary tools can be found on the [FDOT Plans Development > Cross Sections](#) menu

Cross Section Workflow Menu



- Create Cross Sections (New Civil Tool)
- Navigate Cross Sections (GEOPAK Tool)
- Draw Ancillary Features (GEOPAK Tool)
- Borehole Navigator (GEOPAK Tool)
- Label Cross Sections (New Civil Tool)
- Merge Cross Sections (New FDOT Tool)
- Earthwork (New Civil Tool)
- Delete Duplicate Lines (New FDOT Tool)
- Layout Cross Section Sheets (GEOPAK Tool)

Cross Section Workflow Diagram



Training Manuals

- All of these processes have been documented in the new training manuals. There are 3 new training manuals for SS4:
 1. FDOT Roadway Design and 3D Modeling for SS4
 2. FDOT Plans Development Workflows for SS4
 3. FDOT GEOPAK Drainage for SS4
- These manuals are available on our website at the following link:
<http://www.dot.state.fl.us/ecso/main/FDOTCaddTraining.shtm>
- There are also videos of the manuals recorded on our youtube site:
https://www.youtube.com/channel/UCqbY8kqZuXp1pyYV6lIQw_A



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Questions?

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