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SUDA/StormCAD

Christiana Holmes

Topics Covered

- Explain SUE and SUDA and the licensing
- Subsurface Utility Menu
- Importing a GDF file
- Placing Nodes
- Placing Conduit
- Computation Tools
- Hydraulic Analysis Tab
- Flex Tables
- Clash Detection

What is SUE or SUDA?

Subsurface Utility Engineering (SUE)

- Conflict Management / Clash Detection
- SUE Attribution

StormCAD Hydraulic Analysis/Design Engineering

- 3D Modeling of underground objects.
- Integrate with OpenRoads

- Storm/Sanitary Hydraulic Analysis and Design
- Hydrology

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SUDA/SUE Licensing

If you own this license:	Drainage Functions	Utility Functions
Any OpenRoads product: • GEOPAK • PowerGEOPAK	• StormCAD which includes storm water design and analysis. • Maximum 100 Inlets per drainage model. • Storm Water Attributes.	• Utilities can be modeled in 3D. • No SUE Attributes. • No Utility Conflict Tools
OpenRoads plus any of the following: • StormCAD Unlimited • SewerCAD • CivilStorm • SewerGEMS	• Additional hydraulic calculations depending on which license is activated.	• Utilities can be modeled in 3D. • No SUE Attributes. • No Utility Conflict Tools
Any of the products above plus a SUE license.	• Same hydraulic calculations capabilities as above.	• SUE Attributes • Utility Conflict Tools

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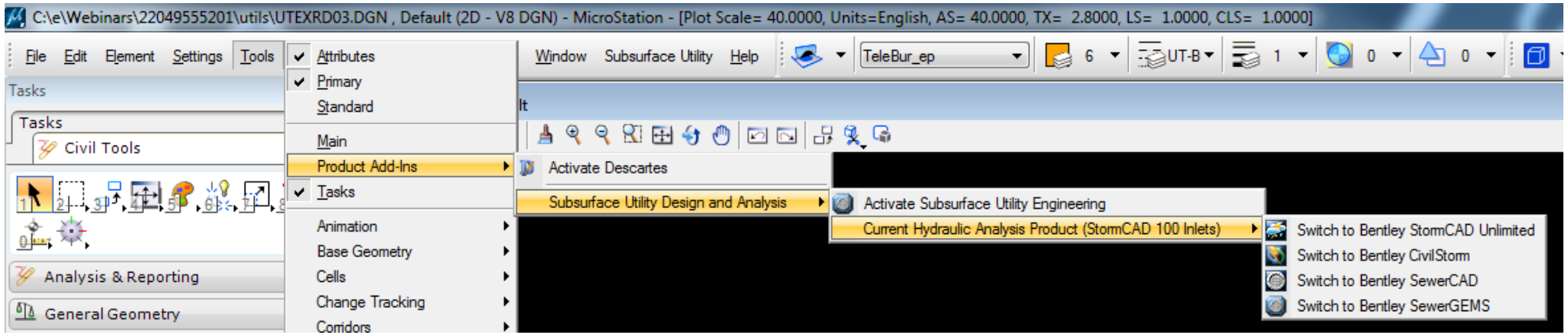
SUDA/SUE Product Add-Ins Activation

- To activate the different product add-ins use Tools > Product Add-Ins menu.



- If activated, an alert that additional license usage will be logged which may result in additional cost.

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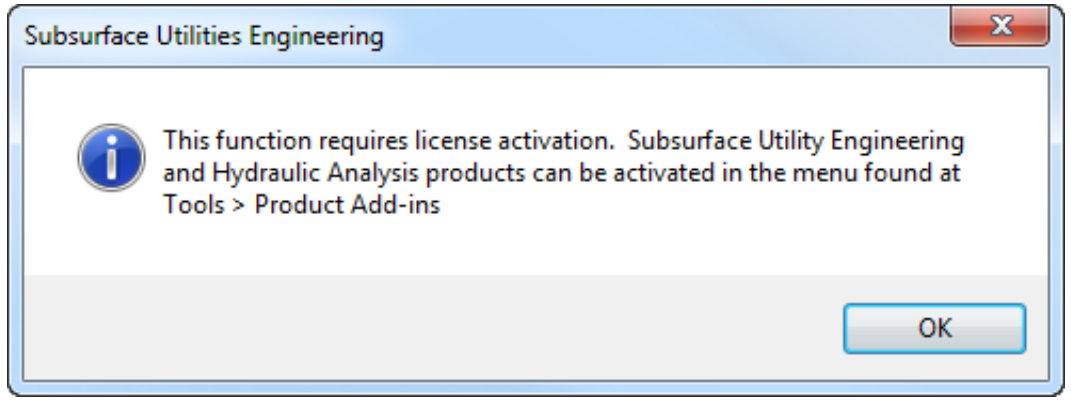
SUDA Licensing

- The StormCAD product has three main functions:
  - Model Drainage
  - Drainage Network Calculations and Analysis
  - Clash Detection **(Requires Product Add-In)**
- Tools > Product Add-Ins > Activate Subsurface Utility Engineering.



Disabling SUDA Products

- A customized DGNLIB is provided with the FDOTSS4 workspace.
  1. Copy the CivilCommands.dgnlib from the \FDOTSS4\RESOURCES\Dgnlibs\General folder on the server to the C:\Program Files (x86)\Common Files\Bentley Shared\Civil Platform\08.11.09 folder on each client PC.
  2. Add these variables to a file named CustomVars.txt file in the \FDOTSS4\Workspace\Users folder on the server.

Config Variables:

FDOT_DISABLE_SUE=TRUE

FDOT_DISABLE_STORMCADUNLIMITED=TRUE

FDOT_DISABLE_CIVILSTORM=TRUE

FDOT_DISABLE_SEWERCAD=TRUE

FDOT_DISABLE_SEWERGEMS=TRUE

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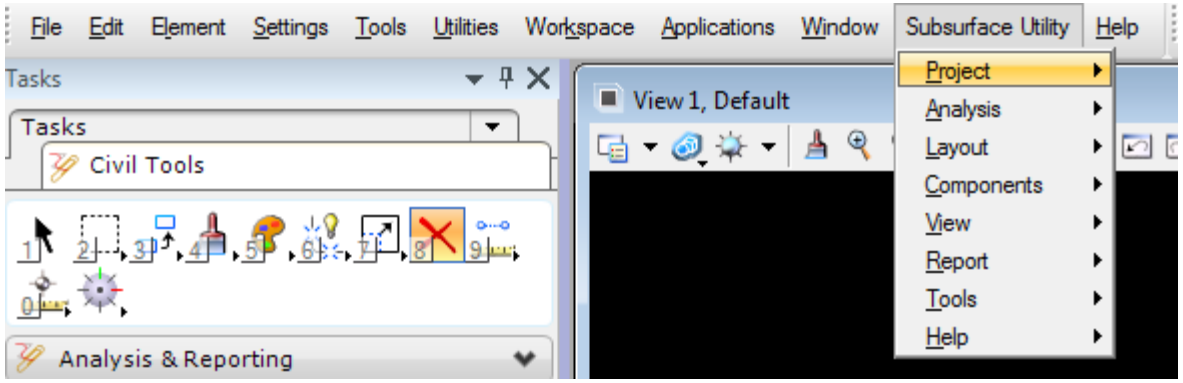
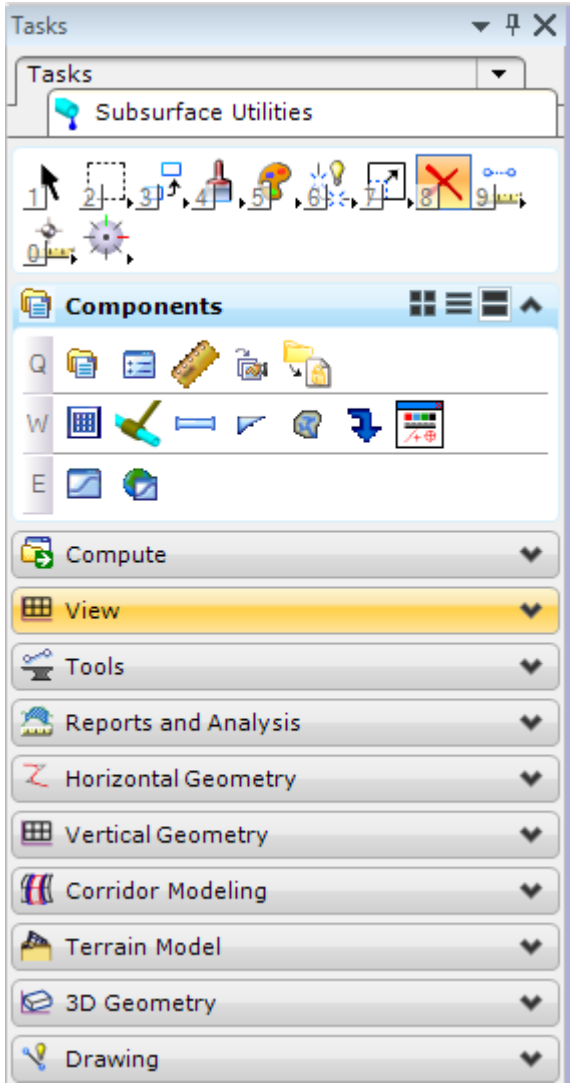
Subsurface Utility Menu





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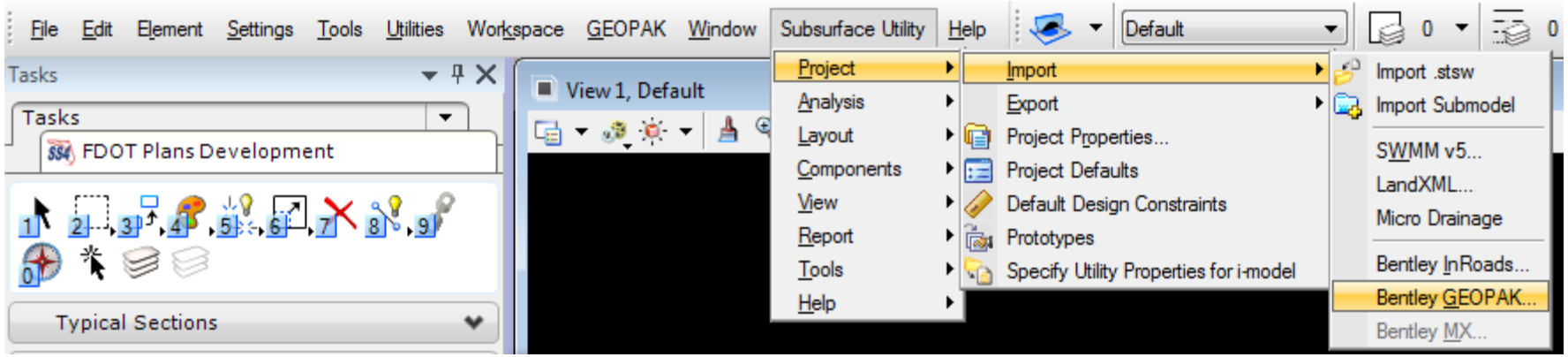
Importing a GDF file

- Subsurface Utility > Project > Import > Bentley GEOPAK…



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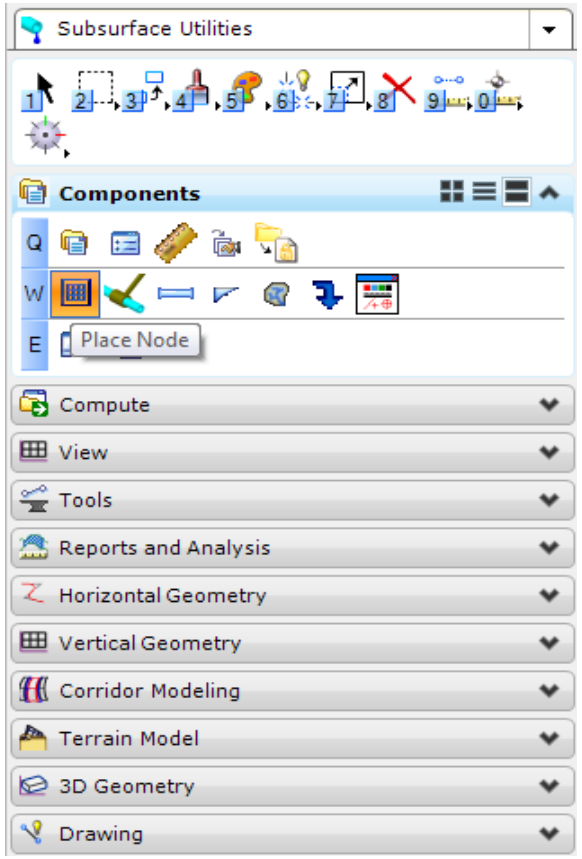
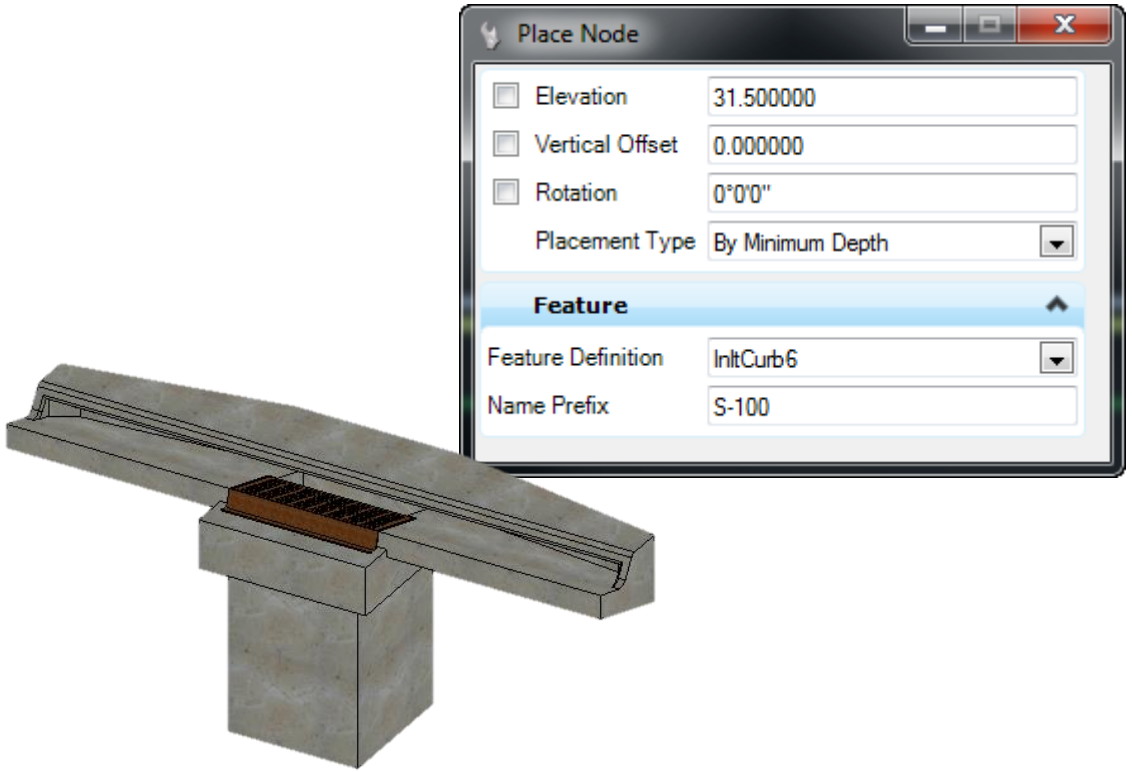
Placing Nodes

- Subsurface Utilities > Components > Place Node





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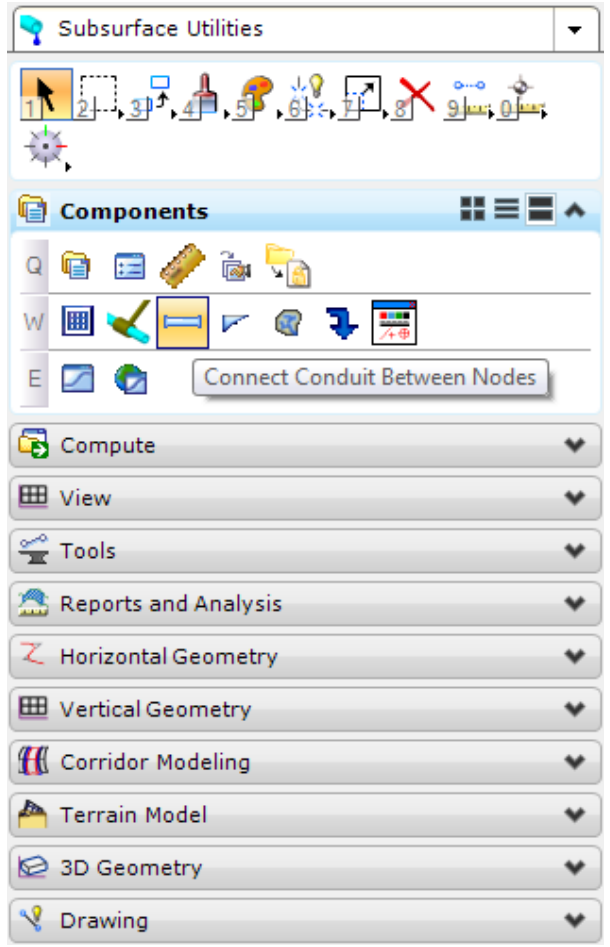
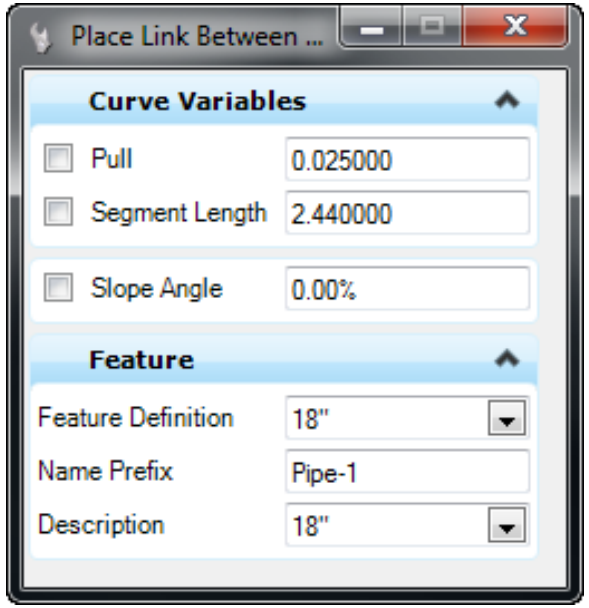
Placing Conduit

- Subsurface Utilities > Components > Connect Conduit Between Nodes





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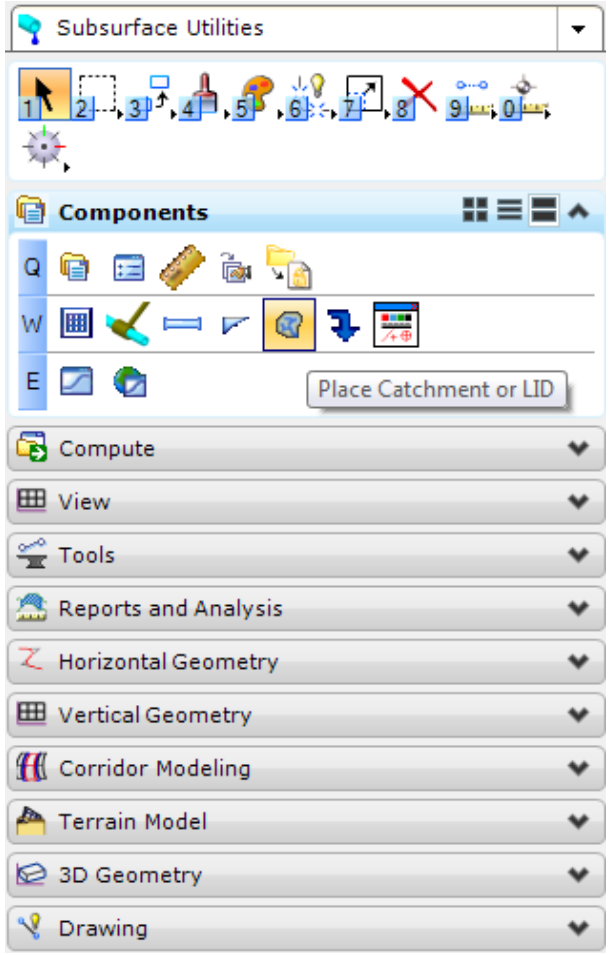
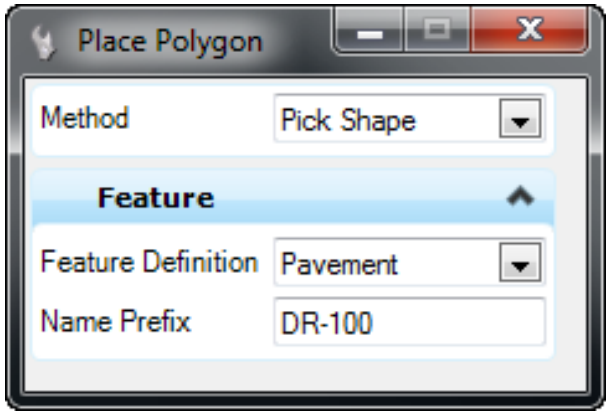
Catchment Areas

- Subsurface Utilities > Components > Place Catchment





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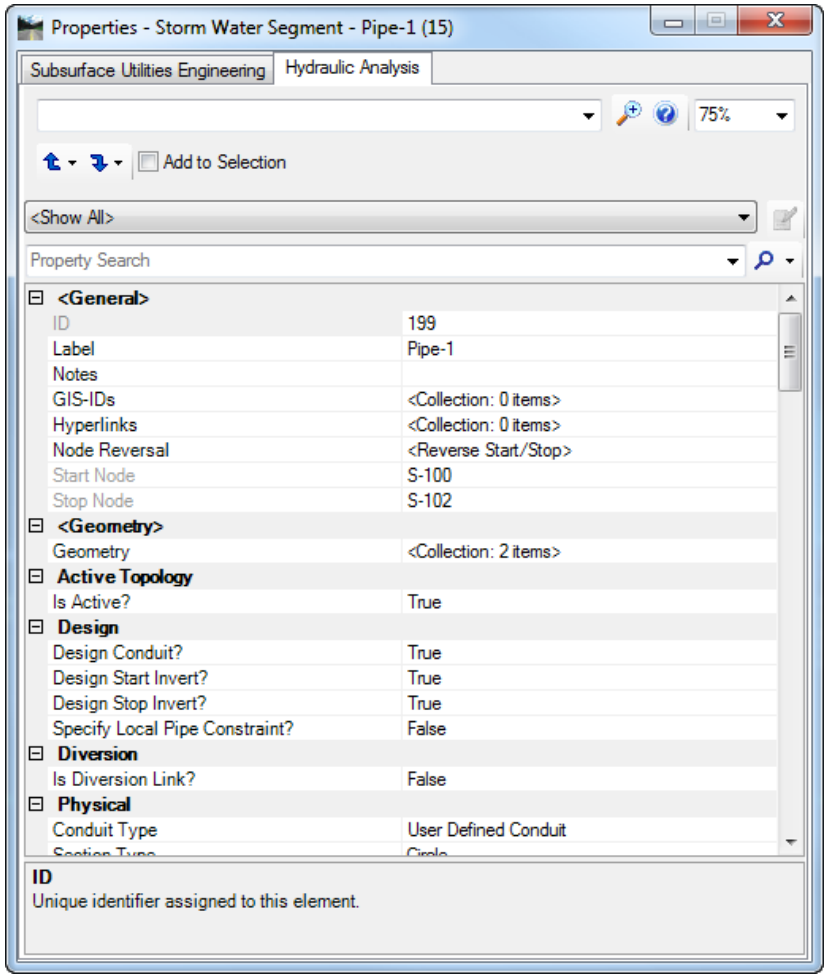
Utility Properties/Hydraulic Analysis Tab



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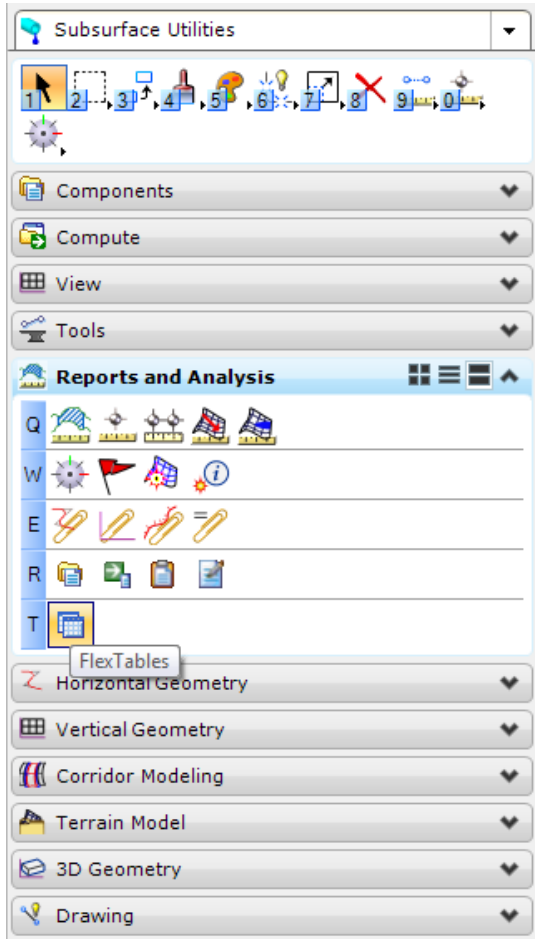
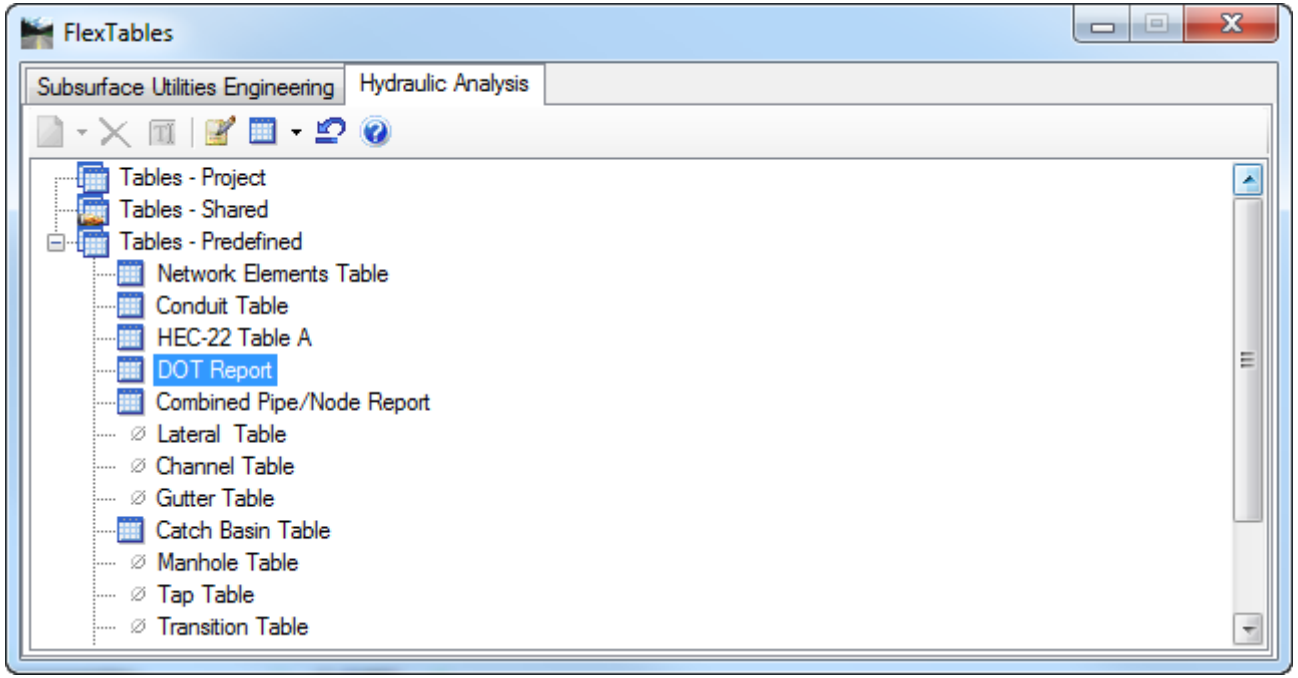
Computation and Analysis

- Calculation Options
  - Includes all of the information about the hydraulic and calculation methods.
- Scenarios
  - Scenario Manager provides unlimited variation of design parameters with complete confidence that known good alternatives can be recalled at any time.
- Compute

Flex Tables

- Subsurface Utilities > Reports and Analysis > Flex Tables





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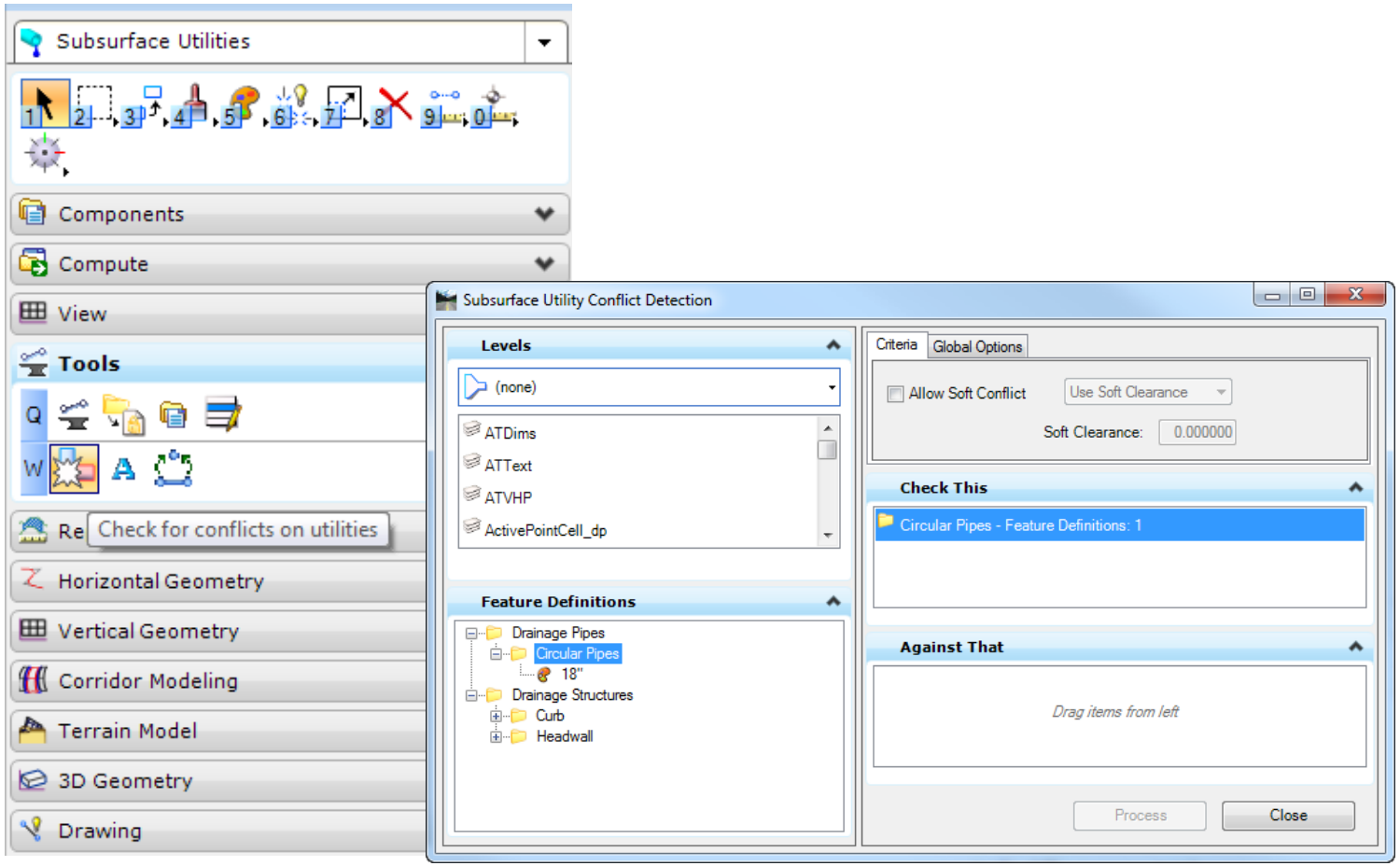
Clash Detection

- Subsurface Utilities > Tools > Clash Detection
  - Requires Extra License



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Questions?

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