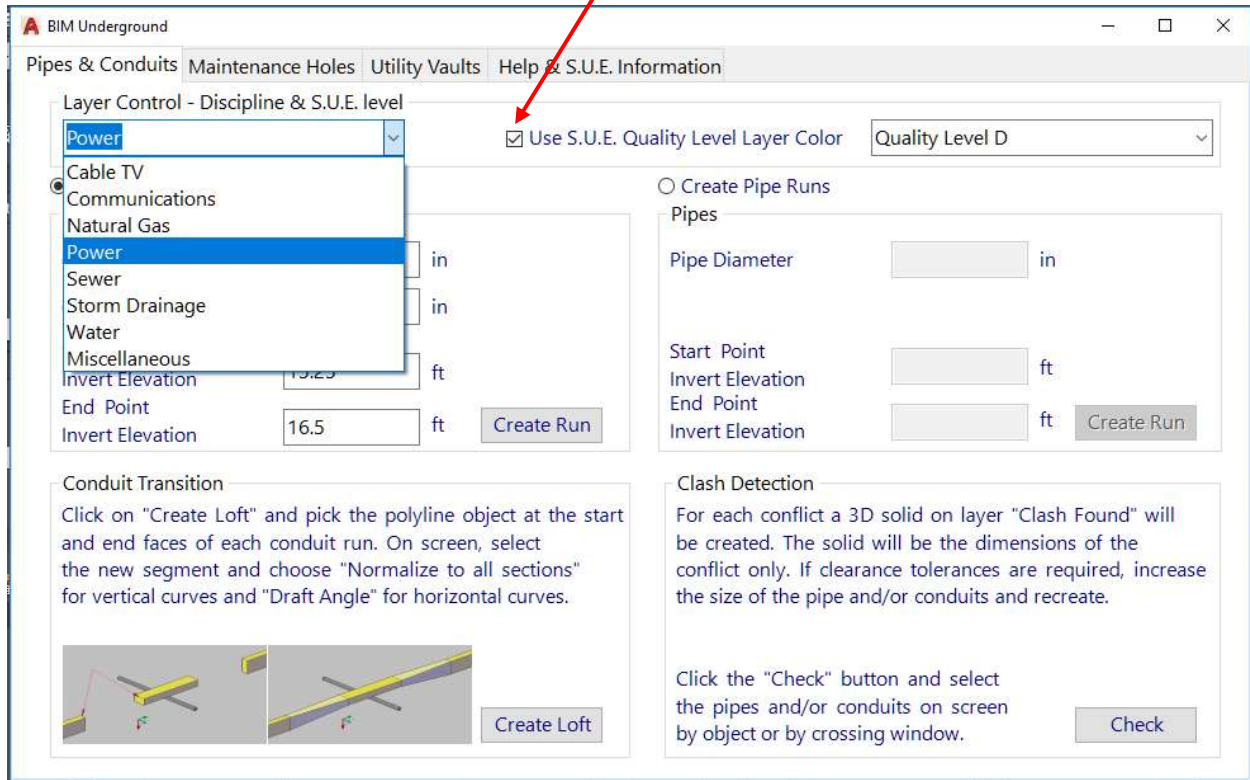


Quick start Pipes and Conduits:

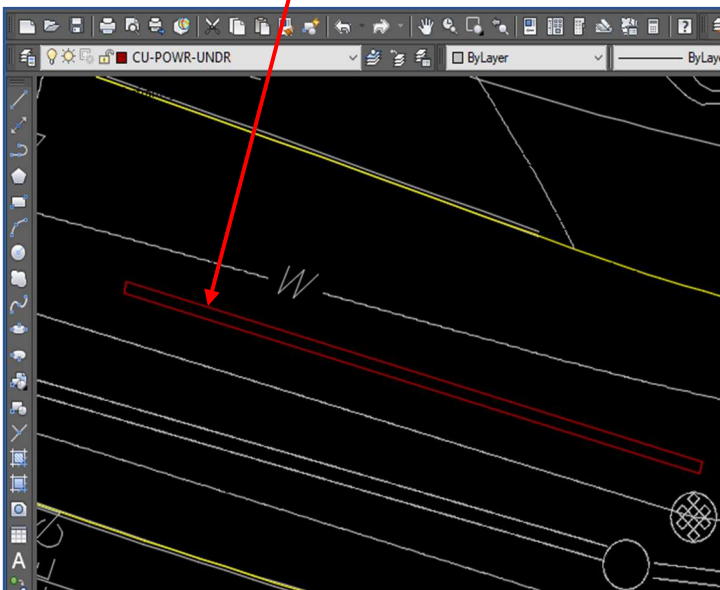
Each discipline will create the 3d object on a National Cad Standards layer.

<https://www.nationalcadstandard.org/ncs6/>

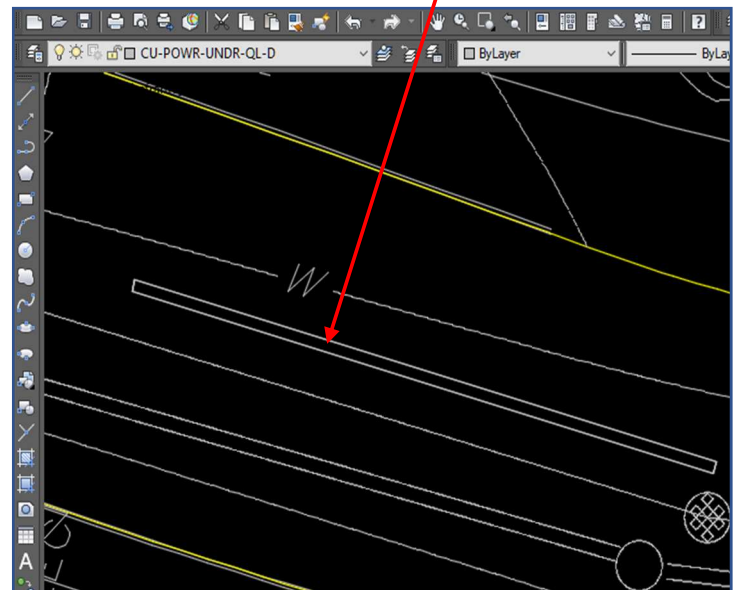
Checking "Use S.U.E..." will add a suffix "-QL-A through -QL-D" and assign an accompanying layer color to help quickly identify areas checked for accuracy.



Conduit drawn on NCS layer



Conduit drawn on NCS layer with S.U.E. Quality Level D checked.



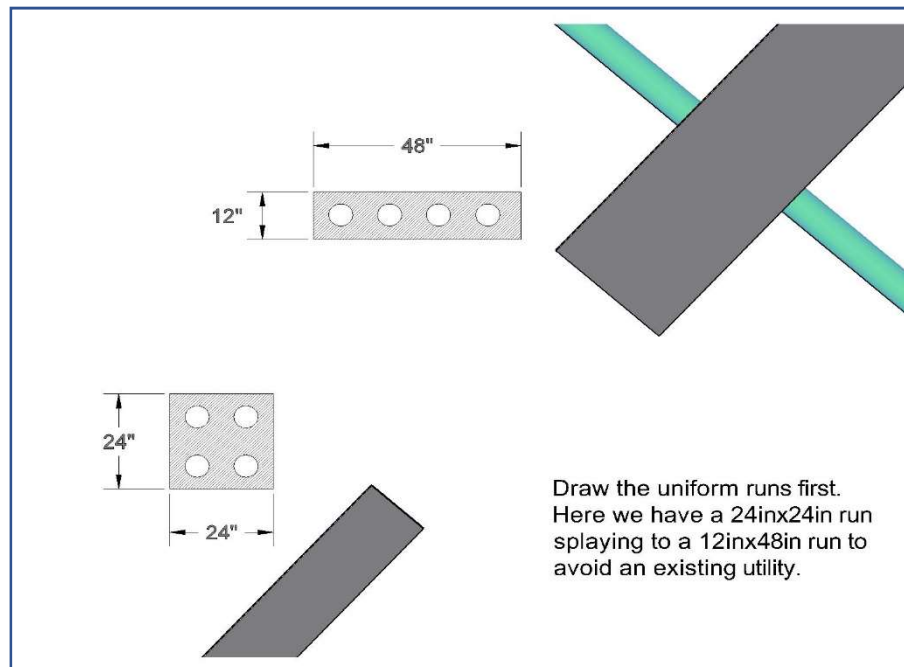
Using the Create Conduit command:

The screenshot shows the 'Pipes and Conduits' software interface. The 'Maintenance Holes' tab is active. Under 'Layer Control - Discipline & S.U.E. level', the 'Power' layer is selected, and the 'Use S.U.E. Quality' checkbox is unchecked. The 'Create Conduit Runs' option is selected. The 'Conduits' section contains the following fields: 'Conduit Width' set to 24 in, 'Conduit Height' set to 24 in, 'Start Point Invert Elevation' set to 36.5 ft, and 'End Point Invert Elevation' set to 36.5 ft. A 'Create Run' button is located at the bottom right of the dialog.

Enter the conduit height and width in inches and the start and end invert elevations in feet.

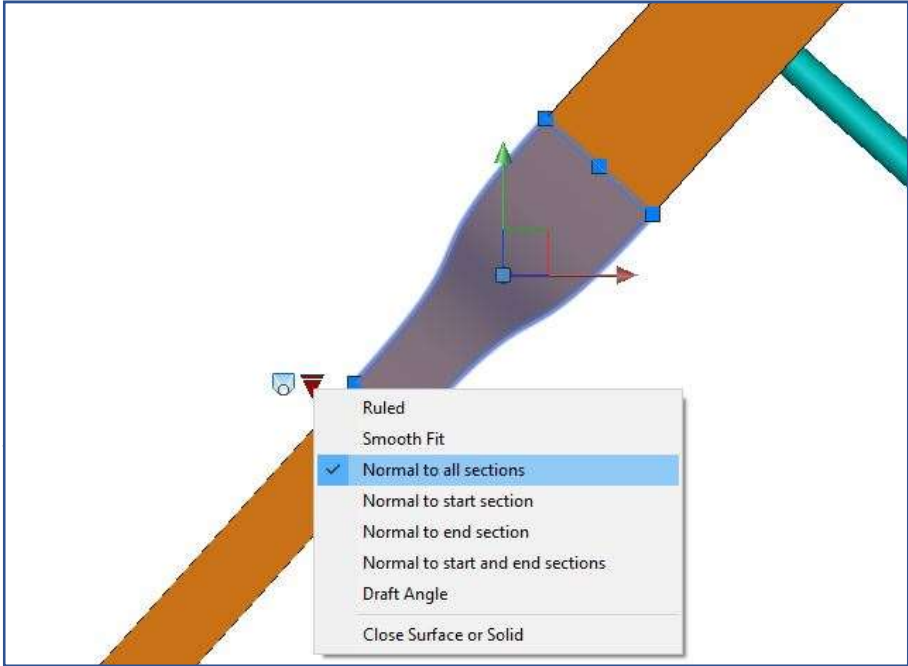
Click "Create Run" to switch to model space and place the conduit run.

Using the Loft command:

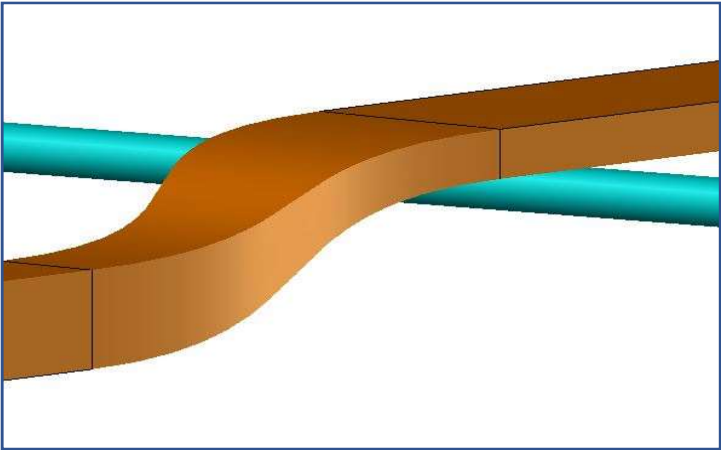


Connect conduit runs using the "Create Loft" command from the "Conduit Transition" panel on the "Pipe & Conduits" tab.

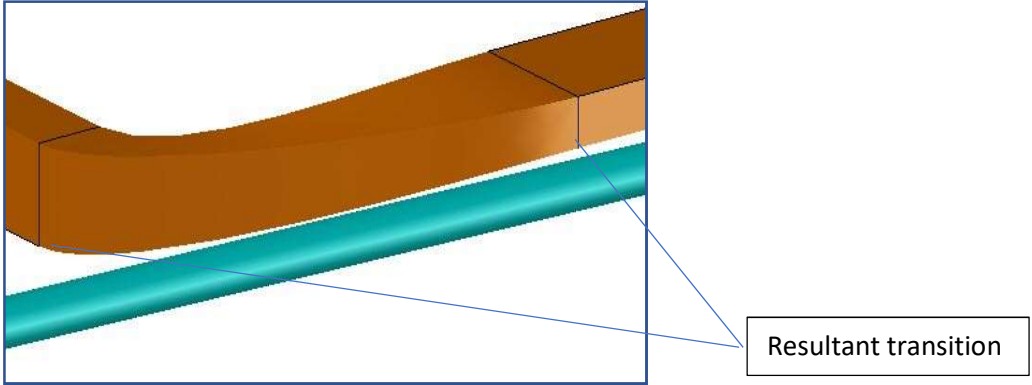
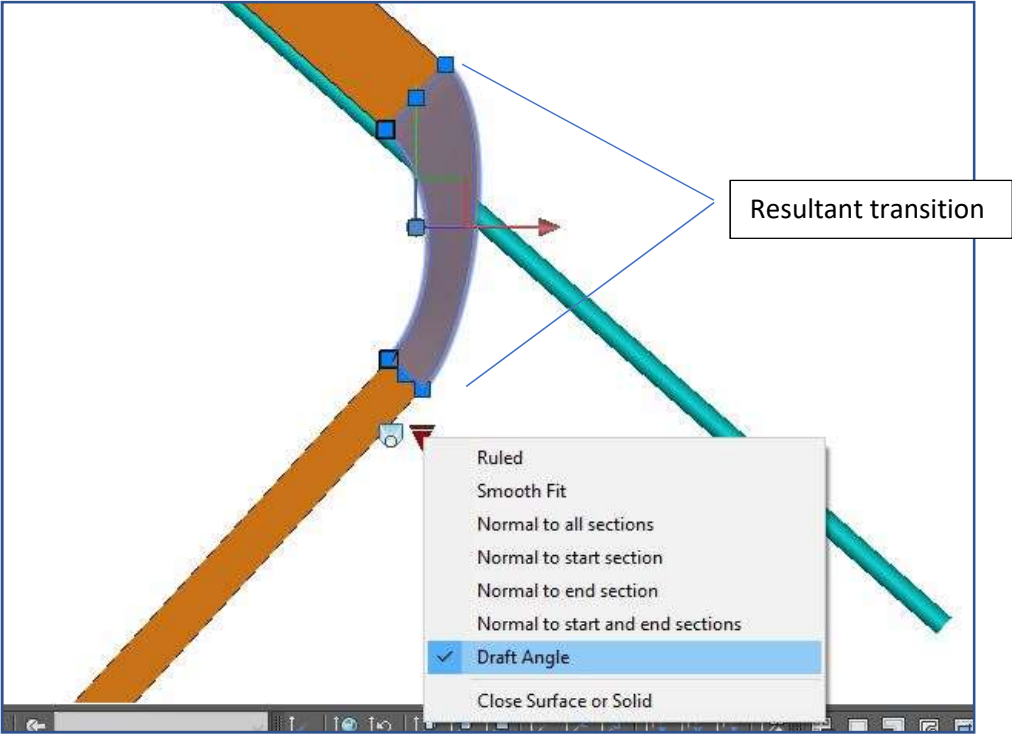
Each conduit run creates a polyline at the beginning and end for connecting to another run. After clicking on "Create Loft" pick a point on the edges of the runs to be connected. If the polyline is not highlighted exit the command and use AutoCAD's "Display Order" command to send the conduit solids to the back and retry.



After connecting the runs pick the lofted run, right click and choose "Normal to all sections".



When creating a lofted run around a bend use the same procedure and choose "Draft angle" from the right click menu.



Quick start Pipes:

Enter the inside pipe diameter in inches and start and end invert elevations in feet. Click “Create Run” and place the pipe run.

Create Pipe Runs

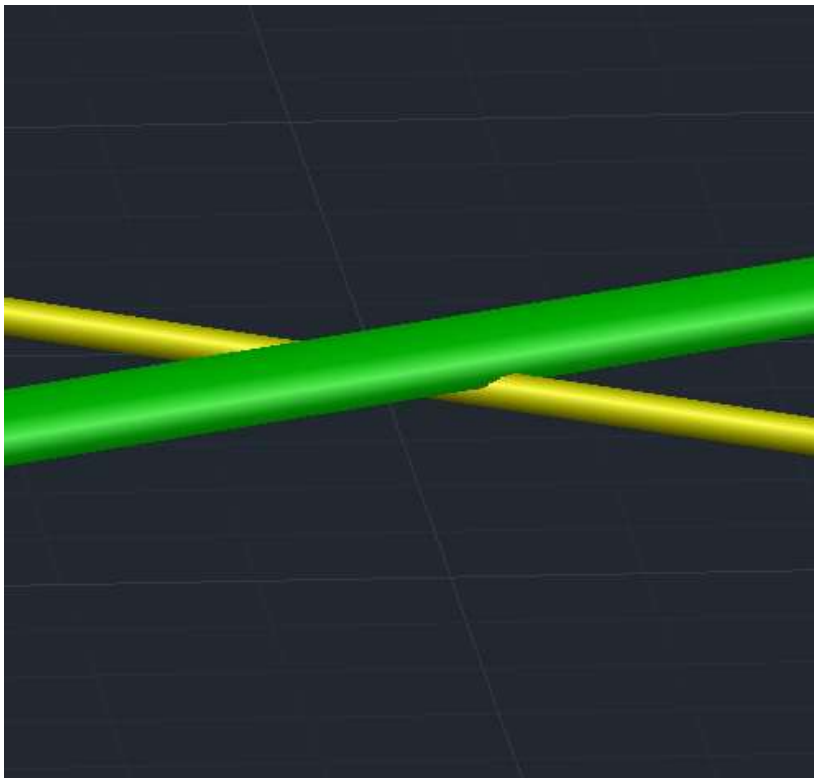
Pipes

Pipe Diameter in

Start Point
Invert Elevation ft

End Point
Invert Elevation ft

Clearances can be factored in by increasing the pipe diameter of the run as long as vertical and horizontal clearances are the same.



Civil 3D pipe networks can be x-referenced in for visual analysis or can be imported as 3D Solids.