# AS-BUILTS CIVIL OBJECTS PROCEDURE

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# Overview

Updating Civil Objects in drawing files for As-Built Plan Production.

**Process Guide**

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| Application/Tool(s): | AutoCAD / Civil 3D |
| Version(s): | 138.1704.0 Civil 3D 2026.2.1 |
| Environment: | MDT State Kit 2026.1.0 |
| Released/Revised: | 7/31/2026 |




**SUPPORT**
Open a Case

# Statement of Need

This procedure demonstrates the steps necessary to create, amend and finalize Civil Objects in Civil 3D for As-Built Construction Plans, and the necessary procedure for communicating with Road Design to amend road features accordingly.

# References

***Using Pipe Networks in Civil 3D***

***Autodesk Civil 3D Naming Standards***

# Revisions

| | |
|---|---|
| 7/31/2026 | New Process Document |

# Civil Object Changes

## Section I. Alignment, Corridor, and Surface Changes

- Any changes made to any alignments, corridors, or surfaces during construction need to be coordinated with the appropriate design unit to make changes to the as-built model and subsequent plans. Changes to these Civil Objects will be made in the As-Built Autodesk Forma Project.

- Any notes or text edits can be made by the DEO within the As-Built project folder.

## Section II. Pipe Network Changes

Preface: Creating, deleting, or modifying pipe networks can be made during the As-Built process. Coordination with the appropriate design unit is important for best/current practices to be upheld while making changes to the model.

Delete a Pipe Network or Structure

During the time of As-Built Plan Production, existing pipes that were removed during construction shall be removed from the MODEL space. To remove an existing pipe, navigate to the Pipe Network section of the Toolspace Palette in the prospector tab.

Right click on the existing pipe to be removed and click the ‘Select’ button. Once selected, right click in the MODEL space and select ‘Open Source Drawing’. Once the source drawing is opened, delete the pipe from the Toolspace or by using the delete key on the keyboard.

There may be instances where an existing pipe is also located in the DIMAP, in that case, in the PLN sheet drawing, turn off the *V-CLVT-E* layers from the DIMAP using the Layer Property Manager.

Update an Existing Pipe or Structure

Use the source drawing of the data shortcut Pipe or Structure to make necessary edits to a pipe. If attributes of the pipe or structure were changed including station, elevations, pipe size, end treatment, etc – use the Pipe Properties dialog window to make the necessary updates. It is possible to move the pipe to a proper station and offset using the Line – Station Offset tool.

Creating a New Pipe or Structure

Utilize the Pipe Network Creation Tools to create a new Pipe Network in the appropriate drawing file. Once the pipe has been created, create a data reference to the pipe to utilize in the RDPLP sheets and other associated drawings.

Using Appropriate Pipe Styles for Updating/Placing New Pipes

The MDT State Kit has two pipe styles for As-Built Workflow Procedures. The MDT CN-Double Line and the MDT CN-Pipe Crossing styles shall be utilized when appropriate for editing pipes changed or added during construction.