MONTANA
Department of Transportation

Project Development & Delivery - Digital Design and Modeling Services

Support Guide

Application/Tool(s): AutoCAD / Civil 3D
Version(s): 18.8.1704.0 Civil 3D 2026.2.
Environment: MDT State Kit 2026.1.0
Released/Revised: 8/7/2026

SUPPORT
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CIVIL 3D 2024 TO 2026 SUBASSEMBLY UPDATES

ISSUE:

During the upgrade from Autodesk Civil 3D 2024 to Civil 3D 2026, all existing subassembly PKT files required re-saving in the Autodesk Subassembly Composer to ensure compatibility with the 2026 release. As part of this process, each PKT file was assigned a new version number and renamed accordingly. The updated files were saved with a "version 2" designation, and their filenames were appended with "_2" to differentiate them from the original 2024 PKT files. This is to prevent significant updates from creating design difficulties as there may be instances where the subassemblies are automatically updated without user acknowledgement.

When users transition to Civil 3D 2026, they are presented with two distinct workflow options:

1. **Continue using the existing 2024 subassemblies** without modification.
2. **Upgrade to the new version 2 PKT files**, adopting the updated "_2" subassembly set designed for Civil 3D 2026 compatibility.

This dual-path setup has introduced a decision point for users and may contribute to confusion, inconsistencies in project files, or mixed-version environments if not managed carefully.

SOLUTION:

PKT files in the State Kit are stored in both the local mdoh\StateKit\Civil 3D\2024 folder and the mdoh\StateKit\Civil 3D\2026 folder.

Existing drawings created in 2024 will continue referencing the original PKT files located in the mdoh\StateKit\Civil 3D\2024 folder.

Upgrading subassemblies to the mdoh\StateKit\Civil 3D\2026 folder is optional but recommended for projects still early in their design lifecycle. Referencing the 2026 folder supports version control, provides better management for future updates, and enables improvements introduced in the new version of the subassemblies.

Option 1 – Maintain subassembly source path to mdoh\StateKit\Civil 3D\2024

- Assemblies referencing the 2024 folder will not receive future subassembly updates.
- Recommended for projects in the later stages of design to avoid rework or parameter resets.

Option 2 – Place new assemblies from the tool pallet with the source path set to mdoh\StateKit\Civil 3D\2026

- Recommended for projects early in design.
- Replace existing assemblies by inserting new 2026 version 2.0 assemblies directly from the tool palette.
- Requires resetting parameters and corridor targets.
- It is best practice to use only 2026 version 2.0 subassemblies together within a single assembly and throughout a project.

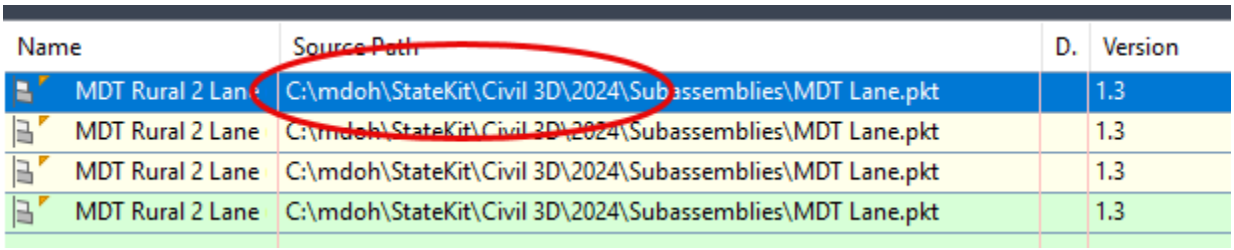
Option 3 – Change the source path to mdoh\StateKit\Civil 3D\2026 and subassemblies to versions 2.0

- For projects early in design that have custom-built or modified assemblies.
- Replace each 2024 subassembly with its 2026 version 2.0 equivalent.
- Requires resetting parameters, corridor targets, and any internal parameter references.
- This option is more time-intensive but ensures all assemblies are fully aligned with 2026 versioning.
- As with Option 2, use all 2026 version 2.0 subassemblies consistently within the same assembly and project.

PROCEDURE:

Option 1 – Maintain subassembly source path to mdoh\StateKit\Civil 3D\2024

1) *Open* Civil 3D using the "Civil 3D 2026 Montana" shortcut.
2) *Open* drawing file having subassemblies.
3) *Right-click* **subassemblies** in the Prospector tree and *select* **update all subassemblies**.
4) *Select* each subassembly in the Prospector and *verify* the source path is mdoh\StateKit\Civil 3D\2024.



5) *Right-click* **cORRIDORS** in the Prospector tree and *select* **rebuild all**.

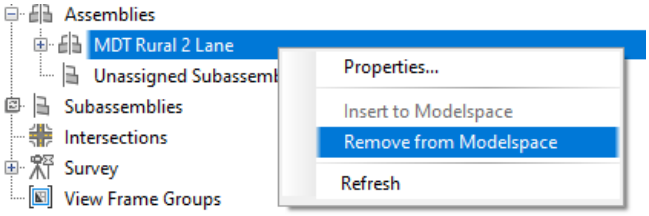
Option 2 - Place new assemblies from the tool palette with the source path set to mdoh\StateKit\Civil 3D\2026

1) *Place* new assemblies from the **MDT Assemblies** tool palette *(MDT Design ribbon > MDT Modeling panel > MDT Assemblies & Subassemblies tool)*.

Note: Do not delete existing assemblies unless all new assembly changes are made and targets are set in the corridor(s).

2) *Edit* properties and parameter values of new assembly to achieve desired design for corridor. See "MDT Civil 3D State Kit Subassembly and Assembly Guide" for subassembly functionality and parameter settings.
3) *Open* **Corridor Properties** and navigate to **Parameters** tab.
4) *Click* on the assembly selection dropdown and select a new assembly for all corridor regions and *set* all targets for each region.
5) *Choose* **Apply**, then **OK**.

6) *Remove* previously used assemblies from modelspace.
    1. From the "Toolspace" **Prospector** tab, *expand* **Assemblies** collection.
    2. *Right-click* each assembly to be removed and *choose* **remove from Modelspace**



Option 3 – Change the source path to mdoh\StateKit\Civil 3D\2026 and subassemblies to versions 2.0

1) *Follow* steps 1-4 in Option 1.
2) *Select* a subassembly (i.e. MDT Lane) in the Prospector tree.
3) *Right-click* and *select* **change subassembly pkt file**.
4) *Navigate* to mdoh\StateKit\Civil 3D\2026 and *select* the appropriate PKT with "_2" suffix (i.e. MDTLane_2.pkt), then **open**.
5) *Select* OK to the Change Subassembly PKT File.
6) *Repeat* steps 2-5 for each subassembly in the drawing.
7) *Edit* properties and parameter values of new assembly to achieve desired design for corridor. See "MDT Civil 3D State Kit Subassembly and Assembly Guide" for subassembly functionality and parameter settings.