MONTANA
Department of Transportation

Project Development & Delivery - Digital Design and Modeling Services

Tip Guide

Application/Tool(s):	AutoCAD / Civil 3D
Version(s):	13.6.2123.0 Civil 3D 2024.4.6 Update
Environment:	MDT Civil 3D State Kit r2024 v2.3.1
Released/Revised:	3/11/2026

SUPPORT
Open a Case

IMPORT AERIAL SURVEY TIFFS INTO CIVIL 3D

The purpose of this tip is to demonstrate how to add aerial survey imagery (TIFFs) from Photogrammetry into a Civil 3D DWG file. The suggested use is to import the imagery into an alignment file, the imagery display file, or any other appropriate file to aid in the visualization of a project's area.

Acronyms/Definitions Used in This Document

ACC – Autodesk Construction Cloud, Autodesk's new cloud storage ecosystem with enhanced tools, which will replace BIM 360 when it is retired

PCMS – Project Content Management System

TIFF – Tag Image File Format; one that is used for storing raster graphics images

Revisions

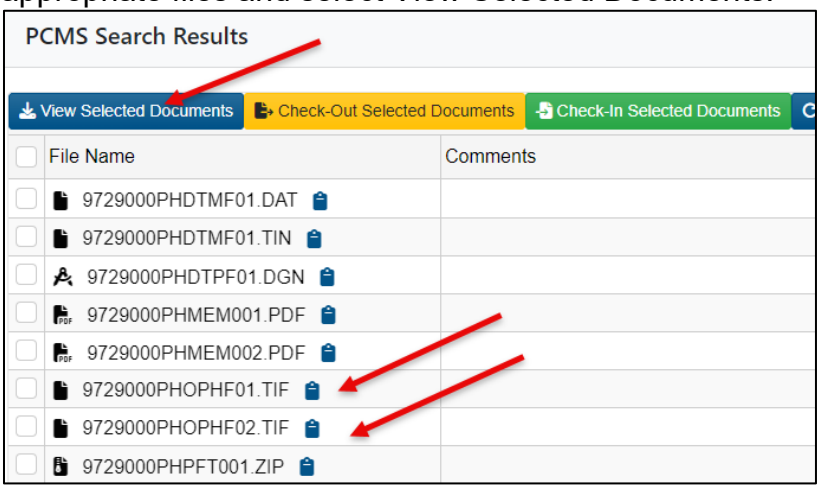
3/11/2026	Updates for ADA Accessibility

Import Photogrammetry Survey Imagery Using Raster Tools

The image files will be stored on PCMS in the PH directory or on BIM 360/ACC in the PH folder. If the images are not already on BIM 360/ACC, they must be downloaded from PCMS and uploaded to BIM 360/ACC prior to inserting them into the Civil 3D file.

To download files from PCMS and upload them to BIM 360/ACC, complete the following steps:

1. Find the project-specific TIFF files on PCMS in the PH directory. Check the appropriate files and select View Selected Documents.



2. Open the web version of BIM 360/ACC and navigate to the project in which the imagery is desired.

3. In the Document Management portion of BIM 360/ACC, expand the Project Files folder, select the *RD - Road Design* folder, select the ellipsis, then select ***Add subfolder***.

4. Name the new subfolder *"Imagery."*

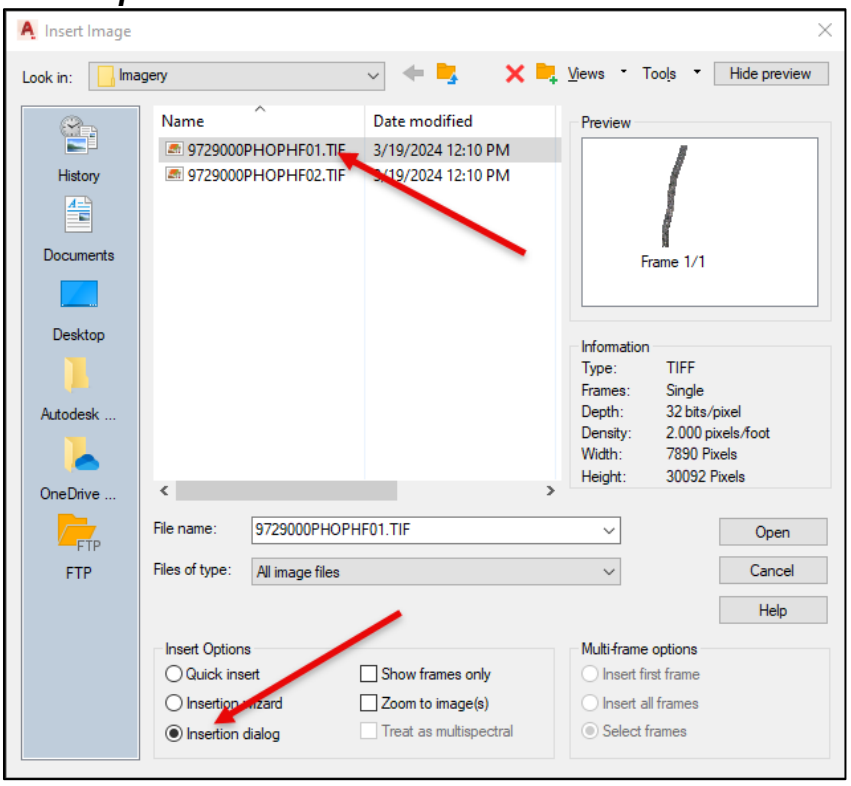
5. Open the newly created *Imagery* folder and select ***Upload files.*** In the File Explorer popup, select the previously viewed files from PCMS from the C:\dgn directory, then select ***Open*** and allow the files to upload into the *Imagery folder*.

6. In Civil 3D, open the DWG file where imagery is desired.

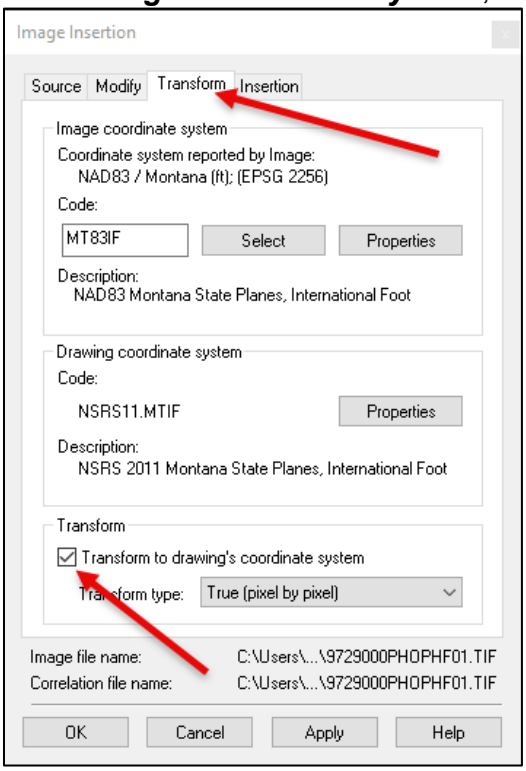
7. Set the active layer to ***X-IMAG-AERI***.

8. Select ***Insert*** from the *Insert & Write* panel in the *Raster Tools* tab or use the command ***IINSERT***.

9. In the *Insert Image* popup, navigate to the imagery folder on the BIM 360/ACC project and select <u>one</u> image file. Specify the ***Insertion dialog*** insert option, then select ***Open***.



10. In the *Image Insertion* popup dialog, select the *Transform* tab, check ***Transform to drawing's coordinate system***, then select ***OK***.



11. Repeat steps 8-10 for all TIFF files requiring insertion.

12. If grayscale is desired on the imagery, follow the process outlined in the *Import NAIP TIFF Imagery in Civil 3D* tip document.