IMPORT AERIAL SURVEY TIFFS INTO CIVIL 3D

Overview

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.

- Date of development: 2/7/2025
- Revision date: N/A
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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

References

Import NAIP TIFF Imagery Into Civil 3D

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.

PCMS Search Results	
✓ View Selected Documents F+ Check-Out Selected E	Documents 3 Check-In Selected Documents
File Name	Comments
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9729000PHDTPF01.DGN	
□ ♣ 9729000PHMEM001.PDF	
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9729000PHOPHF02.TIF	
9729000PHPFT001.ZIP	

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*.

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GT - Geotechnical	J↑ Sort by
HY - Hydraulics	� Upload ▶ ■
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PH - Photogrammetr	S More
🛅 RD - Road Design	🗆 🖬

- 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*.

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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*.



 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*.

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- 11. Repeat steps 8-10 for all TIFF files requiring insertion.
- 12. If grayscale is desired on the imagery, follow the process outlined on Page 8 of the <u>Import NAIP TIFF Imagery in Civil 3D</u> tip document.