Natural Resources Conservation Service

Exporting from ArcGIS and Importing into Civil 3D a Geospatial Aerial Image

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This document will provide steps in exporting a geospatial map using ArcGIS Pro and importing into Civil 3D.

Geospatial imagery is a type of image that includes data that provides the location.

These instructions will only go over the process of exporting the image in ArcGIS Pro. If you have not completed the initial setup, please click this link for more information.

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The projection in ArcGIS must be adjusted prior to exporting the image. This should ONLY be adjusted when exporting a geospatial image for AutoCAD import.

Open ArcGIS Pro

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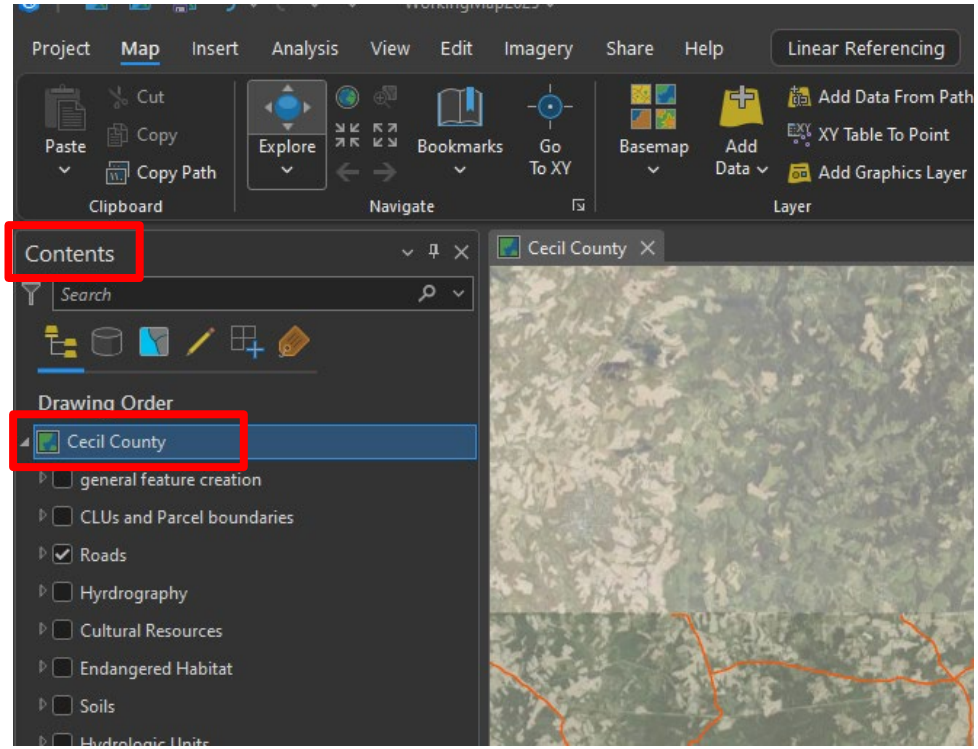
Open the Contents Tab (this was called Table of Contents in older versions)

Right Click on the Tab that contains the layer for the aerial imagery, in this example “Cecil County”



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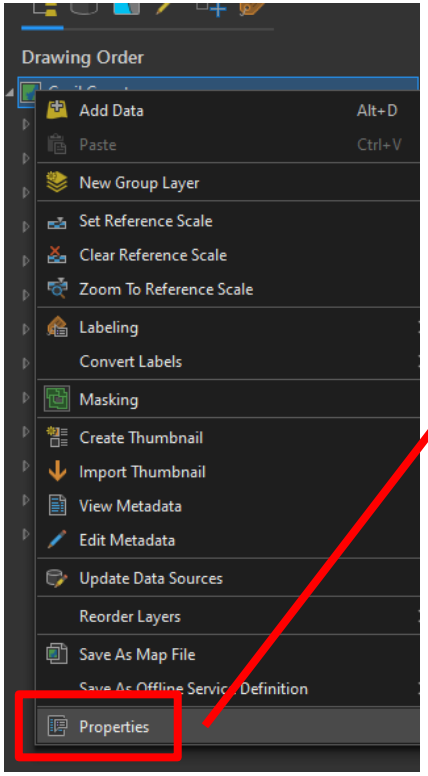
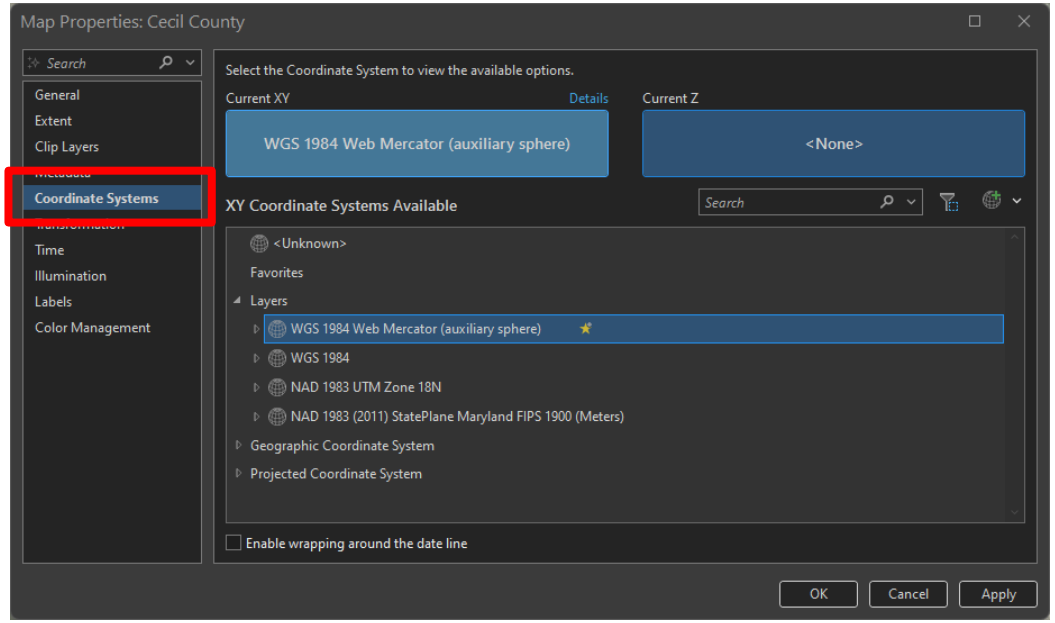
Select “Properties”



Select “Coordinate Systems”



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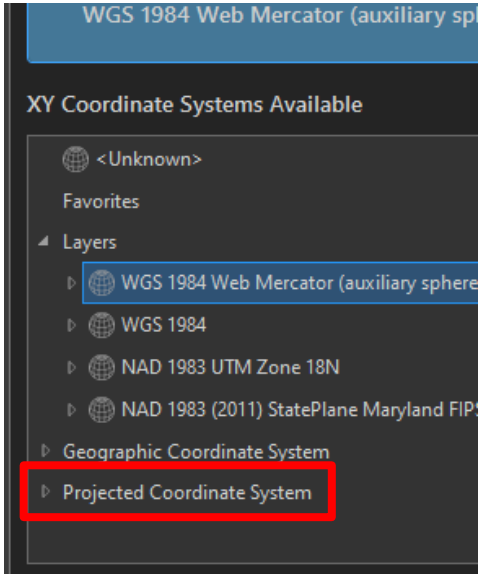
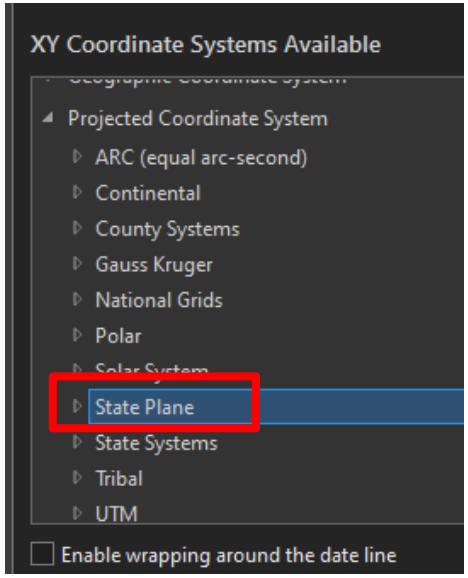
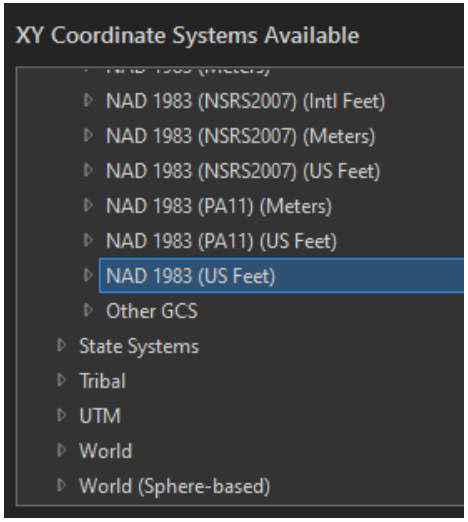
Expand
"Projected Coordinate System"



Expand
"State Plane"



Expand
"NAD 1983 (US Feet)"



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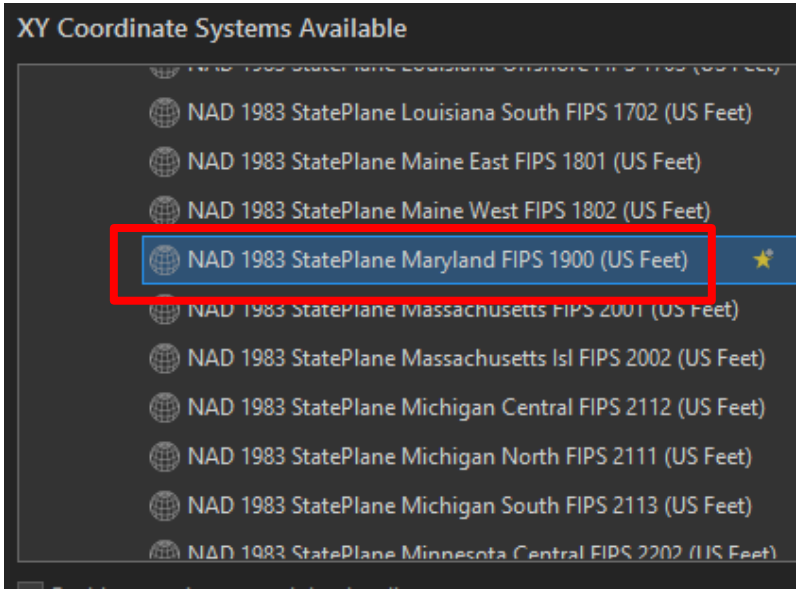
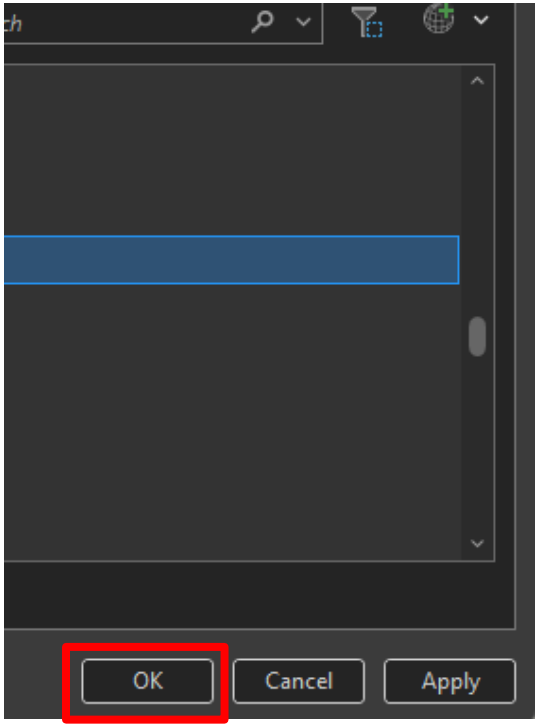
Select
"NAD 1983 StatePlane Maryland FIPS 1900 (US Feet)"





Click OK

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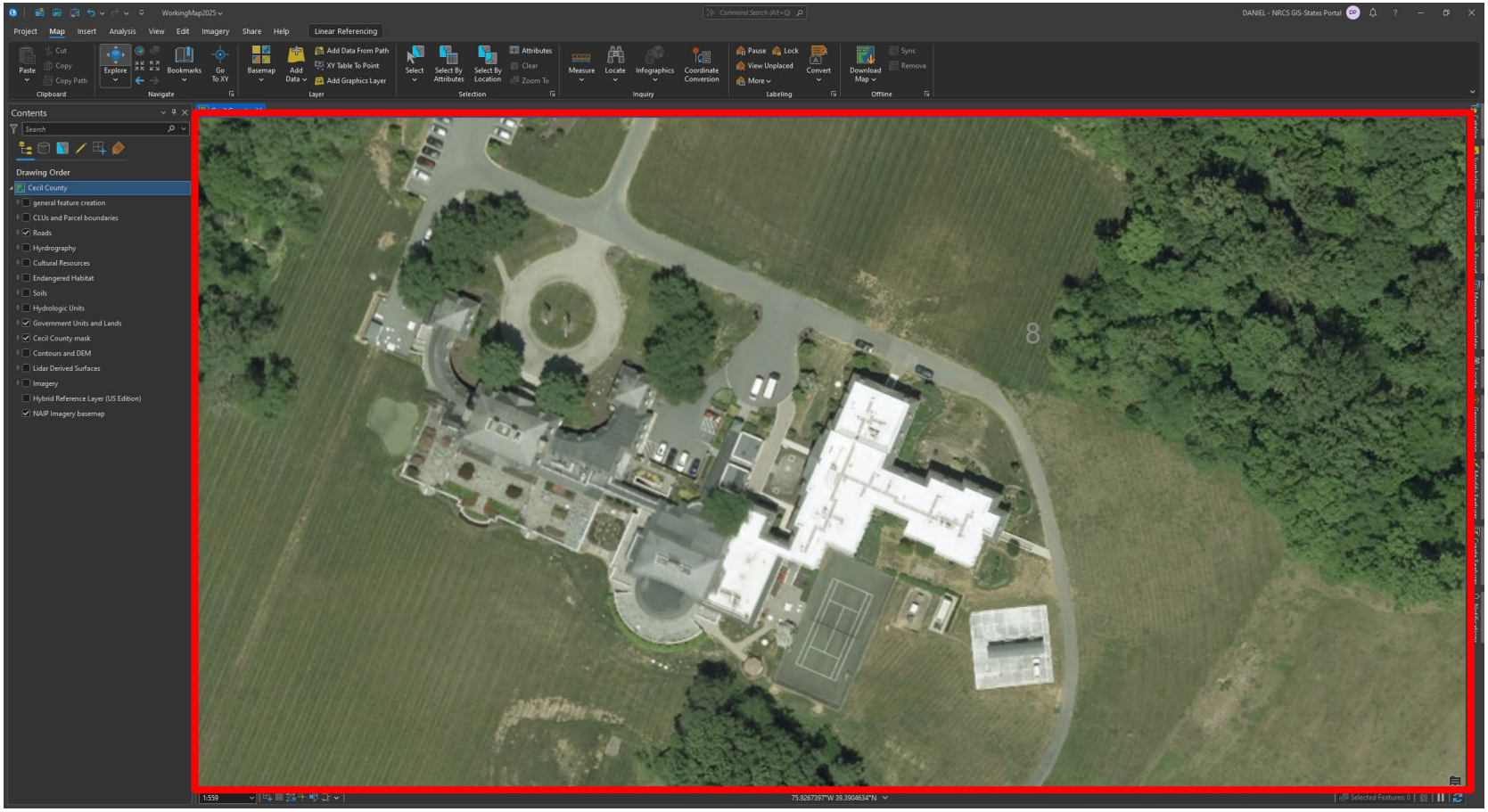
Provide the viewing area of the image to export



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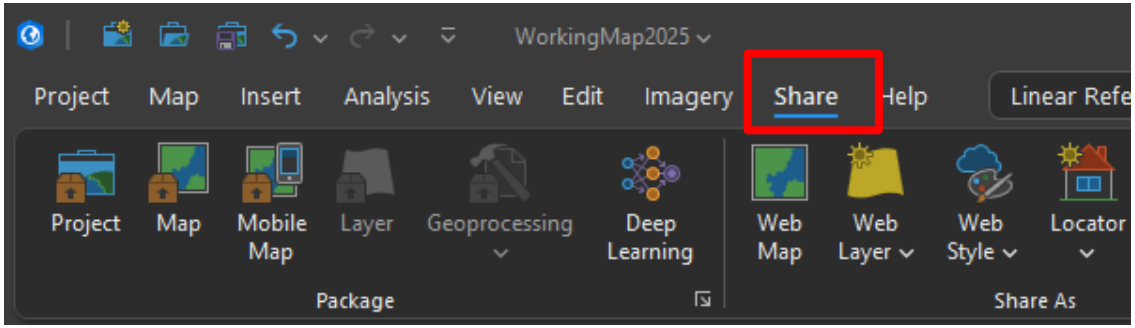
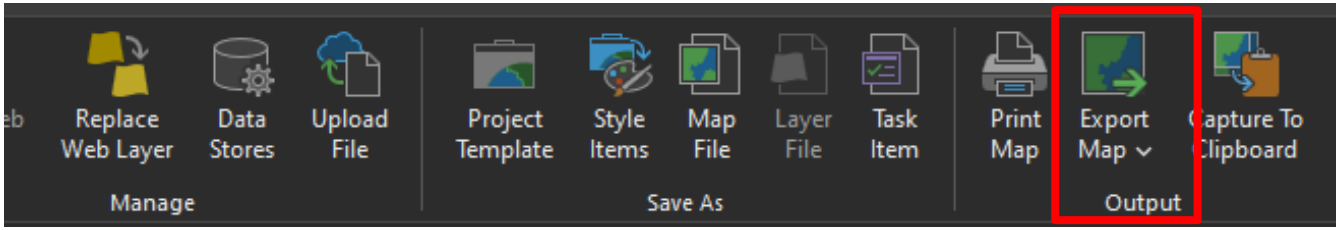
Select the “Share” tab



Select “Export Map” from the ribbon



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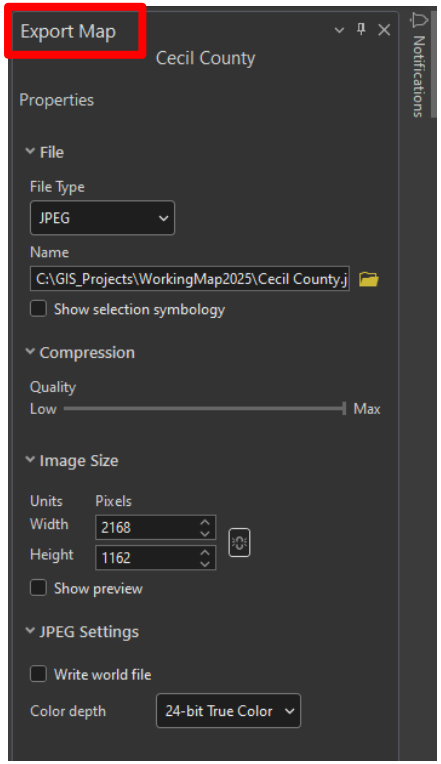
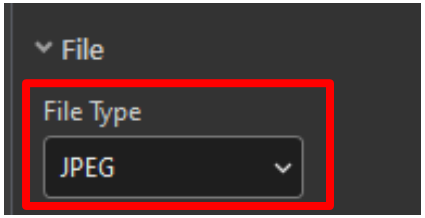
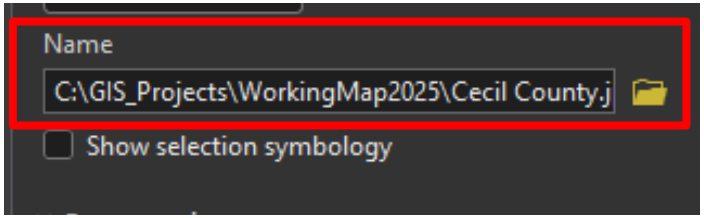
This will bring up the
“Export Map” window as shown



File Type - JPEG



Name- Select a location on your “C” drive
The file name shall have **no special characters** and is limited to a **maximum of 15 characters**



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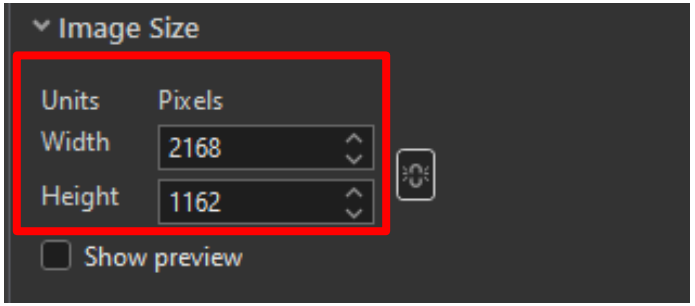
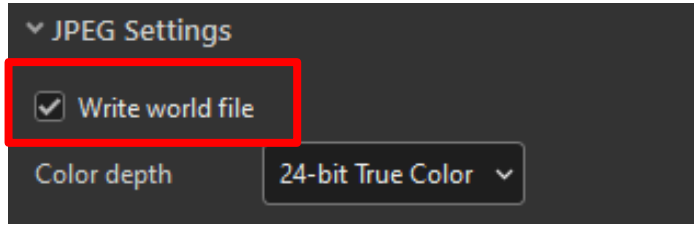
Compression - Max

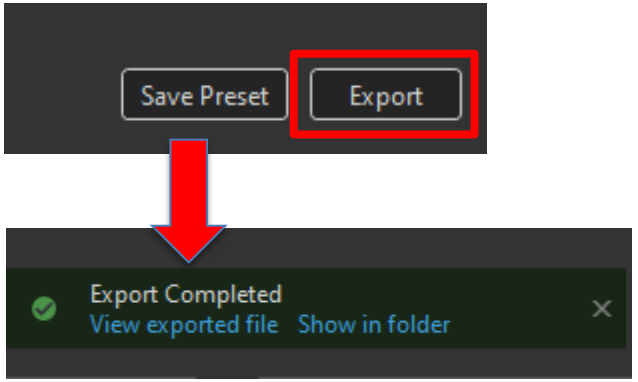
Image Size- No adjustments needed



JPEG Settings – Check “Write world file”



Export



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Open Civil 3D in Model View

Command Line <MAPIINSERT>

Open the file you exported from ArcGIS (**verify the photo file and the write world file are in the same folder as your .dwg file**)

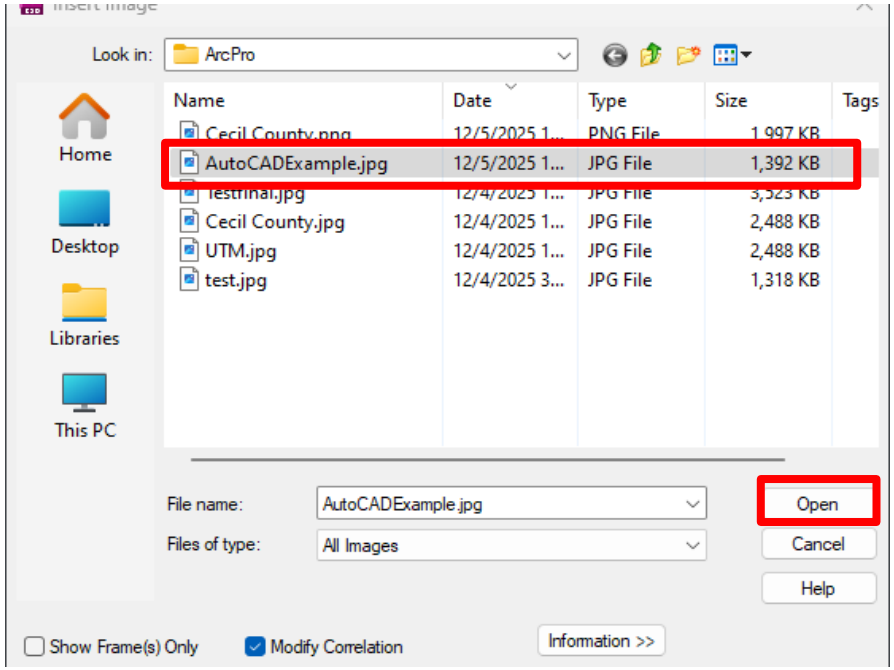

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Image Correlation – No adjustments are required

Click OK

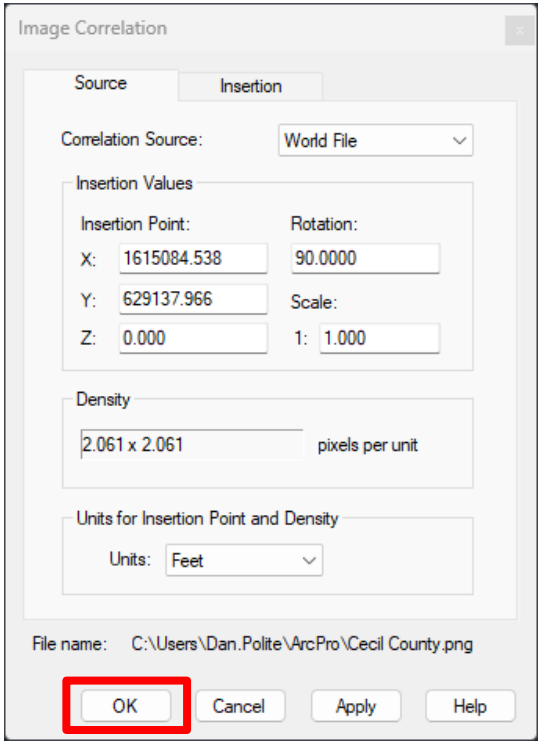

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Image shown in the correct location in Civil 3D