

**Obtaining & Inserting Georeferenced Images**

Overview: Download a georeferenced image for an Iowa project from the Iowa Geographic Map Server and insert into CADD.

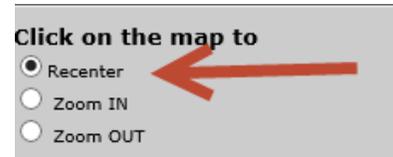
Software: AutoCAD Civil 3D 2012, Civil 3D Workspace, NRCS C3D 2012 template

Prerequisite: Determine the location of the project.

**Notation:** Button to Press *Displayed Text* **Icon** Action {Text to Enter} *Menu Item...*

Download an aerial photo

1. In an Internet browser, find your location using Map Search: <http://ortho.gis.iastate.edu/#MapSearch> using Township, Range, and Section; or City; or USGS quadrangle name. Click Show Map.
2. Select *Recenter* and then click into the map view to get your location centered.
3. You can select your zoom level (typically *1m pixels*), then click Refresh Map at the lower left part of the page.
4. Use the *View Width* and *View Height* to get the real size of the area that you want to see. A 1 meter zoom level would mean that you have to have a View Width & Height of 1700 x 1700 pixels to cover a 1 mile square. Click Refresh Map. You might need to reselect the Base map layer that you want and click Refresh Map again.
5. Once you have the image at the zoom level and size that you want then right click on *JPEG Base Map* and click *Save Target As...*
6. Browse to the location that your CADD project will be in. Rename the file to something like "ProjectName.jpg". Click Save.
7. After saving the image right click on the *JGW World File* link and *Save Target As...*
8. Rename the file to exactly match the .jpg name E.g. "*ProjectName.jpg*". Click Save.



Insert an aerial photo in AutoCAD Civil 3D into your NRCS based project.

9. Use Tool Palette>NRCS 11x17B... Click *Breaklines and Boundaries...DOQ Insertion...* (or use *DRG Insertion* for USGS contour maps images)
10. Set *Files of Type = All Images(\*.\*)*, Browse to the image file- E.g. *ProjectName.jpg*.
11. Checkmark *Modify Correlation*.
12. Click Open.
13. On the *Source* tab set *Units for Insertion Point* to *Meters*.
14. Click OK. Zoom to Extents by double-clicking the mouse wheel

Display a limited portion of an Image (Optional)

15. Select the image.
16. Click *Image... Clipping... Create Clipping Boundary...*
17. Input {R} for Rectangular. Press Enter
18. Click Upper left corner of your planned image display.
19. Click Lower right corner of your planned image display.
20. Select the image. Right-Click *Display Order... Send to back...*

**Clipping boundary** includes options for polygons, rectangles, and existing polylines. Use the Invert clip option if you want to have a blank area inside of an image. (A blue arrow grip also inverts the clipping)