

When our customers bring in their old drawings that might have been sitting in a drawer for 30 years, it's safe to say that the quality of the drawings may have degraded from age, water damage, or just plain old dirt. Scans that result from such damaged drawings aren't the highest quality; however, with the powerful suite of tools in Raster Design, including rubbersheeting, despeckling, and others, we can massage the data and make it accurately convey the design intent once again.

—Michael C. Johnson  
CEO  
Advanced Career Development

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**AutoCAD<sup>®</sup>**

Raster Design

Image is everything.



# Designs Enhanced

Helping design professionals across a broad range of industries—civil; GIS/mapping; mechanical, electrical, and plumbing (MEP); architectural; and manufacturing.

“While we are working to create digital versions of our older paper maps, we use Raster Design to edit and maintain scanned maps digitally. The software helps us maintain our existing maps and lets us easily find and use our raster assets.”

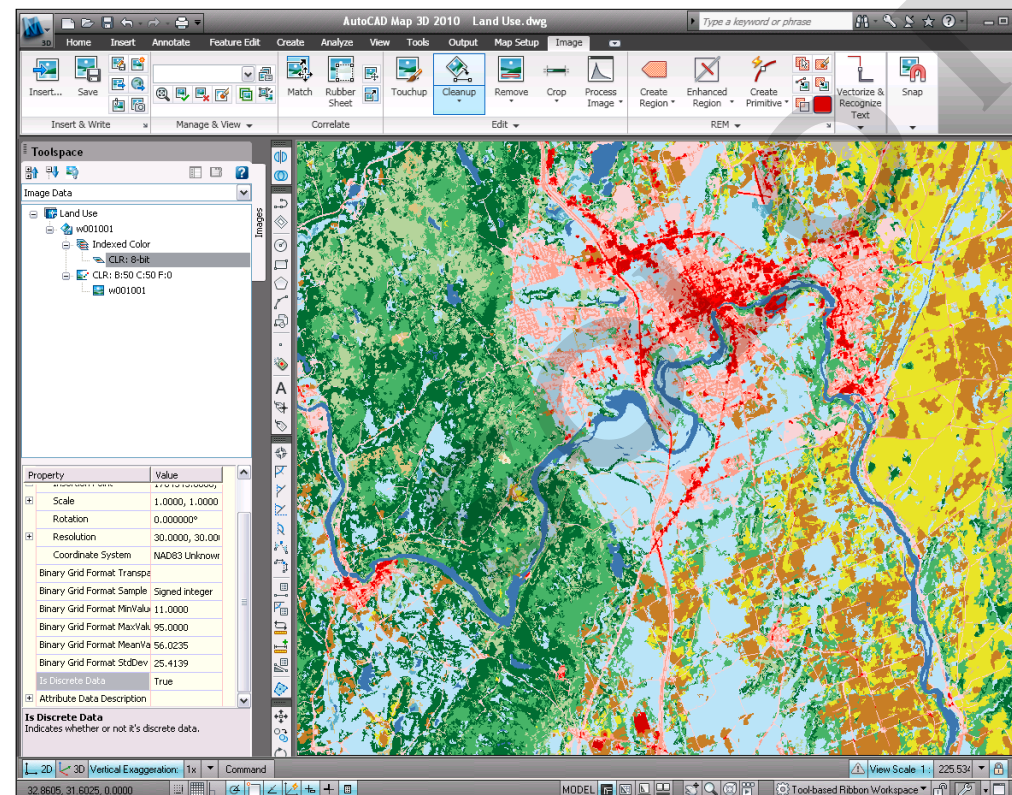
—Greg Ammon  
Water GIS Systems Manager  
Los Angeles Department of  
Water and Power

Make the most of rasterized scanned drawings, maps, aerial photos, satellite imagery, and digital elevation models. Get more out of your raster data with AutoCAD® Raster Design software.

Use AutoCAD Raster Design software with AutoCAD®, AutoCAD® Architecture, AutoCAD® Civil, AutoCAD® Civil 3D®, AutoCAD® Electrical, AutoCAD® Map 3D, AutoCAD® Mechanical, AutoCAD® MEP, AutoCAD® P&ID, and Autodesk® Topobase™ software to unlock and extend the value of existing design information.

AutoCAD Raster Design enables you to work in an AutoCAD environment, significantly reducing the need to purchase and learn multiple applications.

**Extend the Value of Existing Information**  
Unlock and make the most of existing scanned engineering drawings, plans, and maps by using them in current projects. You can save redrafting time with powerful raster editing and raster-to-vector conversion tools.



Incorporate widely available geospatial raster data that can be used to visualize information such as land cover. Data used in image from USGS National Land Cover Database.

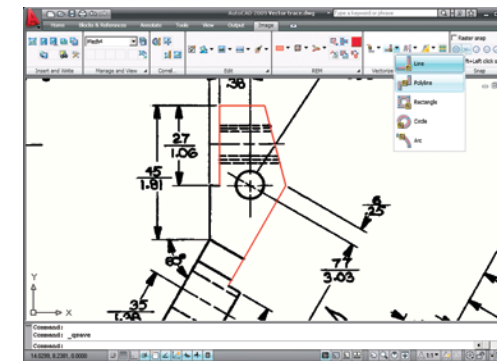
# Approvals Accelerated

Perform raster drawing cleanup, editing and manipulation, raster-to-vector conversion, and image processing while working with a breadth of imagery.

**Improve Decision Making**  
Get projects approved faster by creating drawings and presenting proposals that integrate information-rich plans, maps, aerial photos, and other forms of imagery that enhance communication and understanding of your design intent.

When used with AutoCAD Map 3D-based software, AutoCAD Raster Design provides additional functionality so you can better utilize geospatial imagery to create color elevation representations directly from DEM, DTED, and ESRI® GRID raster files. Visualize the slope and aspect information you need to help make better design and policy decisions. Show vegetation, land cover, and environmental information using readily available multispectral satellite imagery.

**Enhance, Preserve, and Maintain Valuable Raster Assets**  
AutoCAD Raster Design software enables you to easily clean up, edit, enhance, and maintain your archive of scanned drawings and plans with image cleanup, processing, and hybrid editing tools in a familiar AutoCAD environment.



Accurately vectorize partial or entire scanned sheets using the semiautomatic and interactive raster-to-vector conversion utilities.

**Use Industry-Standard Image Formats**  
AutoCAD Raster Design supports numerous image formats so designers can easily integrate and use imagery within their projects. Supported image formats include MrSID®, ECW, and JPEG 2000, DigitalGlobe® Quickbird TIFF, Landsat FAST-L7A format multispectral imagery, and the National Imagery Transmission Format (NITF), which is an important tool for the U.S. Department of Defense and the federal intelligence community.

Other supported formats include the following:

BMP	CALS	DEM
DOQ	ESRI GRID	FLIC
GeoSPOT	GeoTIFF	GIF
IG4	JPEG/JFIF	DTED
PCX	PICT	PNG
RLC	TGA	TIFF

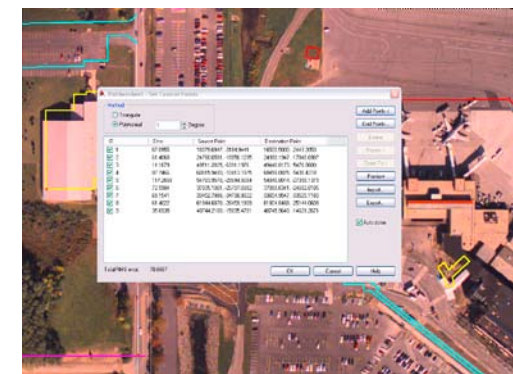
**Clean Raster Drawings and Images**  
Improve usability and legibility of scanned drawings with powerful image cleanup tools. Despeckle removes stray pixels that result from scanning dirty or faded drawings or blueprints. Deskew corrects drawings that were crooked as they were fed through a scanner. Bias corrects distortion in an image's aspect ratio. Mirror can correct transparencies that have been scanned upside down. By using these and other tools, you can reduce the time and effort necessary to clean up scanned drawings and maps while better maintaining your image archives.

**Enhance Images with Intuitive Image-Processing Tools**  
Several image-processing features are available to help designers get the most from existing imagery. The histogram feature includes functions to equalize images, adjust brightness and contrast, convert grayscale or color images to bitonal images, and perform nonlinear tonal adjustments. The convolve feature has smoothing filters to reduce ruggedness and noise as well as sharpening filters to make differences in shading more distinct. The invert feature reverses the light and dark shades of binary, color, and grayscale images. These and

other image-processing features in AutoCAD Raster Design can help improve the appearance of existing images, so you can get the full benefit from your investment in imagery.

**Convert Raster Data to Vector**  
Do you want to be able to use scanned drawings and map content without having to redraft? Would you like to convert raster lines, arcs, and text to vector for use in AutoCAD-based products as part of your drawing, model, or design? With vectorization tools in AutoCAD Raster Design, you can interactively convert raster to vector to accelerate project turnarounds and improve efficiency.

**Use Optical Character Recognition**  
Recognize machine and hand-printed text and tables on raster images to create AutoCAD text or multiline text (mtext) automatically. Use interactive verification to correct results with dictionary matching. Save manual data entry time and improve accuracy when converting scanned documents with a lot of text.



Use correlation tools such as the unlimited point rubbersheet function to align aerial photos to drawings.