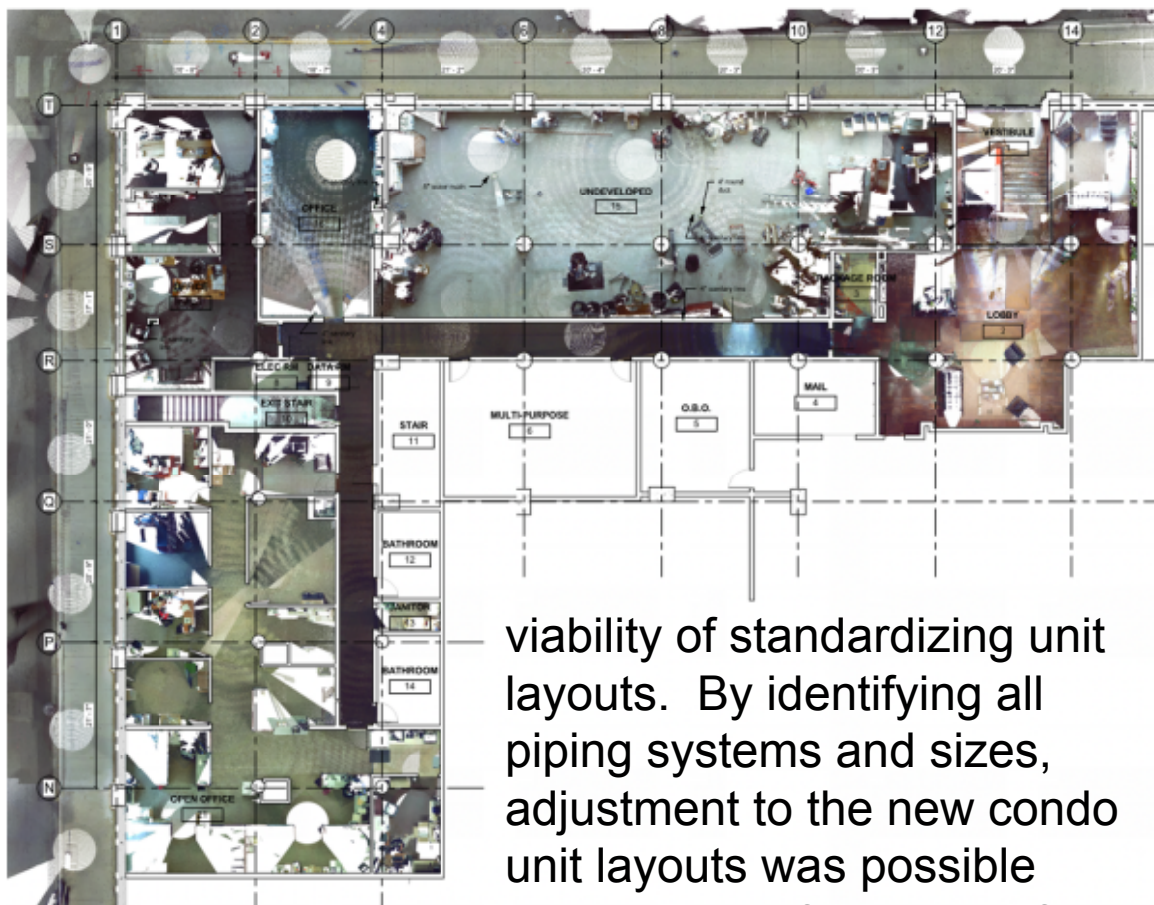




CASE STUDY: Office to Condo Conversion

Located on Chicago's near west side, the existing offices were 3D laser scanned to accurately record the overall architectural geometry. We were also able to easily locate all existing utilities and evaluate the



viability of standardizing unit layouts. By identifying all piping systems and sizes, adjustment to the new condo unit layouts was possible based on the feasibility of re-

locating existing utilities, including an immovable 8-inch domestic water supply pipe. With construction drawings done in Autodesk Revit, it was possible to reference the project Point Cloud directly into Revit and coordinate all new architectural elements and utilities with existing mains, and existing utility shafts.



ARCHITECTURE

CAPTURE . DESIGN . BUILD

KEVIN DRAKE ARCHITECTURE LLC



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perspective view of a residence - point cloud only

Introducing Kevin Drake Architecture LLC

President and founder Kevin Drake graduated from the University of Illinois at Chicago with college honors and the highest distinction in architecture and went on to receive his master's degree in architecture from the highly competitive Southern California Institute of Architecture.

After working for both boutique and large-scale firms, Kevin launched Kevin Drake Architecture to combine his critical eye for design with 3D laser scanning. He brings his clients, as well as design professionals, a visually compelling experience, leading to a superior product.

perspective view of a residence - point cloud only



3D Laser Scanning

3D laser scanning has changed architecture for the benefit of both client and designer. Kevin Drake Architecture is at the cutting-edge of this technology, bringing a more efficient workflow to projects of all sizes and complexities.

Here's why 3D Laser Scanning is right for your project

- 3D laser scanning and sophisticated software enables Kevin Drake Architecture to establish an accurate* three-dimensional record of any subject, at a particular moment in time.
- Every project has a context, even new construction; 3D scanning starts projects out on a sound footing, particularly on complex projects with tight constraints or where remote design teams or consultants cannot feasibly visit the site.
- The accuracy of a 3D laser scan—and the efficiency with which scans can be registered together to form a Point Cloud—keeps your project on track, avoiding unexpected surprises and costs.
- Point Clouds can be referenced into many types of 3D software and are used throughout design, pricing and construction, including final installations requiring precise measurements.
- On integrated projects, periodic 3D scans ensure all trades are building in accordance with the project requirements, avoiding delays and costly re-work.

* 1/4" or 1/8" accurate, depending on project requirements.



perspective view of the BAQ airport in Colombia - point cloud only

What Kevin Drake Architecture can do for you:

With more than 22 years experience in the building and design industry, on projects ranging in size from residences to airport terminals, Kevin Drake Architecture offers a full range of design and management services, taking your project from feasibility through permitting including construction support services.

Services for design professionals:

- Raw scan files and Registered Point Clouds,
- Measured Drawings (plans, elevations and more),
- BIM from Point Clouds (model in Revit)

floor plan view of a residence - point cloud and linework

