



*“Autodesk Revit Building enables us to spend much more time on aesthetics. This opportunity is critical because the buildings we design will be around for 50 years and more. Revit Building gives us the time to think things out clearly—and put drawings together with confidence.”*

Anthony Cutri  
Principal  
Martinez + Cutri Corporation

## Timeless design.

For complex projects with fast-track schedules, **Martinez + Cutri Corporation** counts on **Autodesk® Revit® Building** software to maximize productivity, increase profitability, and reduce requests for information by 30%.

### Project Summary

San Diego architects Joseph Martinez and Anthony Cutri believe that to be truly superior, design must reflect the nature of a structure’s surroundings. “Only then can it stand the test of time,” says Martinez. Guided by this principle, the architects at Martinez + Cutri have planned and designed more than 200 projects with a construction value in excess of \$2 billion. Their portfolio includes schools, mixed-use urban centers, convention and public assembly facilities, luxury hotels, and waterfront resorts, as well as industrial/R&D developments. “Our practice focuses on urban design,” says Cutri. “We work in existing urban centers, as well as in vacant land areas still in need of planning.” Since adopting Autodesk Revit Building, the professionals at Martinez + Cutri have begun work on 13 major projects, including the Juhl Project, a 670,000-square-foot, high-density, residential loft development in downtown Las Vegas, Nevada. Team members on the Juhl Project include Claudia Escala, Angelo Poblete, Celina Echezarreta, Kai Fishman, Jingmei Shi, Ngairie Cheung, Robert Chang, and Jose Cardosa.

### The Challenge

The complex consists of one- and two-bedroom units, studios, town homes, live/work units, and ground-floor retail space. “From a technical standpoint, it was very complex,” says Cutri. “It goes from six stories to fifteen, and has five stories of indoor parking, as well as a pool and a recreational deck directly above the parking.”

### Many Potential Conflicts

“Every time you moved something, you gained or lost parking spaces,” says Cutri. “Keeping track of those was critical. There were also probably 70 different unit types spread among the 400 units in the building. Managing all the window and door schedules was a huge challenge.”

### Aggressive Timetable

“In San Diego, we’re lucky if we get documents back two months after first submitting them,” says Cutri. “The building department in Las Vegas turned them around in ten days. Normally, we use that downtime to catch up on construction documents. But on this project, we didn’t have that luxury.”



*Autodesk Revit Building is the building design and documentation system that works the way architects think. Purpose-built for building information modeling (BIM), the software helps Martinez + Cutri designers*

- *Simultaneously create accurate floor plans, elevations, sections, 3D views, and renderings, as well as area calculations, schedules, and quantity takeoffs*
- *Gain better design insight through on-demand visualization and analysis with built-in rendering tools*
- *Virtually eliminate coordination mistakes, rework, causes of wasted effort and materials, redundant inputs, and other sources of human error*
- *Spend less time in the construction phase and reduce field problems with accurate, high-quality documents*

### The Solution

After reviewing several other solutions, Martinez + Cutri began implementing Autodesk Revit Building in 2003. “We would train three people at a time, in two-week sessions,” says Dennis Hall, Project Manager. “In week one, they’d learn the basics, and by week two, they’d already be working on a real project.”

### Take Advantage of Our Expertise

In addition to training architects from Martinez + Cutri on Revit Building, Autodesk Consulting provided implementation services, including the development of design standards. “Autodesk Consulting were the key in developing documentation standards. This was instrumental in ensuring a smooth transition from using Revit Building for schematic design, to extending its use throughout all of the construction documents,” says Hall. “That’s what really launched us ahead.”

### Get More Done—Faster

Autodesk Revit Building helps architects work more efficiently with a library of reusable components. “We can take certain details—windows, parapets, doors—that we’ve worked out on another project and reuse them on a new project,” says Martinez.

### Build Better Documents

“Using Revit Building, we’re essentially building the construction document during schematic design,” says Hall. “Because we’re refining the model from day one, we eliminate a lot of the disconnects in the drawings and ensure design continuity—from initial design through construction.”

### Finish Projects Faster

The firm is also working on a new campus for Southwestern Community College in Otay Mesa, California. “We started from scratch with Revit Building, and it has been very successful,” says Martinez. “From design to working drawings to submittal to the division of the state architect, we’re doing this whole project in four months. Typically, it takes a year.”

### Work Together Better

The Otay Mesa project involves more than 80,000 square feet on an eight-acre site that will ultimately serve 5,000 students. “The freeway alignment depends on where we place the building—and that depends on how fast we can design it,” says Hall. “Revit Building worksets have enabled a team of six to work on this project simultaneously.” Team members on the Otay Mesa project include Ernie Justiniano, Vivian Tria, David Semon, and Linda Nguyen.

### Minimize Costly Errors

“Using Revit Building, everyone contributes to a single model,” says Hall. “Inconsistencies pop out immediately. Revit Building highlights them and lets you know, for example, that your floor is sticking out of the building. That alone is a huge advantage. Everyone knows exactly what everyone else is doing, and the documents are fully coordinated.”

### The Result

“There’s no question that Revit Building has improved our efficiency—and our profitability,” says Cutri. “Using Revit Building, we resolve issues early—before they end up as budget-killing RFIs during construction.”

### Work with Confidence

Autodesk backs up Revit Building with valuable support. “Recently, some of the Revit Building software developers spent an afternoon with us,” says Hall. “They asked us what worked—and what didn’t. That is a huge selling point. They were very responsive to our needs.”

“That’s important because currently, almost three-quarters of our workstations are in Revit Building,” says Cutri. “And all of our new projects are in Revit—from design development and schematics through construction.”

To learn more about Autodesk Revit Building, visit [www.autodesk.com/revitbuilding](http://www.autodesk.com/revitbuilding).