



Quantapoint Case Study

Quantapoint Helps Historic Library Meet Deadlines for Multi-Phase Project

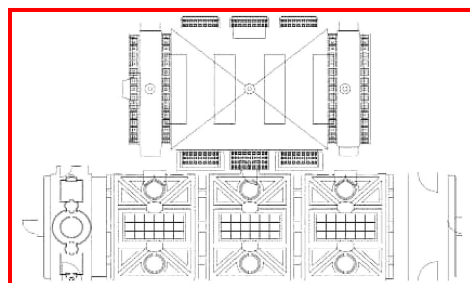
Boston, Massachusetts

Situation

As part of the McKim Building Restoration Project, architects Shepley Bullfinch Richardson & Abbott (SBRA), needed to develop plans for the renovation of a large, historic public library.

Challenge

The project team faced a number of existing condition (or “as-built”) documentation challenges during this renovation. This included a incomplete, missing or inaccurate documentation, a tight project schedule, and tricky elevated work needed to document high barrel vaulted ceilings while minimizing disturbance to valuable artwork and murals. To further complicate matters, all work had to be completed during library “off” hours.



Solution

To accurately document the interior space, SBRA called upon Quantapoint, Inc. of Pittsburgh, Pa., the leading provider of as-built documentation using integrated laser scanning. Quantapoint rapidly collected, registered and verified billions of highly accurate measurements to provide a consistent and up to date “digitized model” of the interior space without invasive manual measurements, time-consuming re-work or purchasing costly hardware.



Quantapoint’s three person team scanned the 20,300 square foot structure during off-hours in only three days. This included documenting the very high, intricately detailed, barrel vaulted ceilings, without disturbing the valuable artwork.

Results

Quantapoint delivered detailed drawings to the architect within 28 working days of scanning. A digitized model of the interior of the library provided a dimensionally accurate representation that was then used to document spatial relationships for installation of a sophisticated HVAC system, develop floor plans, including interior elevations and reflected ceiling plans. Quantapoint delivered a high quality, highly accurate product that offered excellent viewing and data manipulation capabilities, which enabled the architects to deliver an ‘interference free’ design and allowed them to keep the overall project on schedule.