

The sound of music

General contractor *iON Constructors LLC* has completed the 12th Street Sound Recording Studio project located on E. 12th Street. The project owner is **Paul Riekert**.

The project was managed and supervised by President **Jon Smiley**, iON Constructors and the architect was **Wes Lachot Design**, a renowned recording studio designer from Chapel Hill, NC. **LOC Consulting Engineers** did the structural engineering work.

Smiley says the approximate contract cost was \$550,000. The duration of the project was about ten months.

According to Smiley, the project entailed renovating an abandoned Baptist church and turning it into a high-end recording studio.

"Work on the project included demolition of the old church interior and addition on the back of the building that served as the congregation's kitchen and office," Smiley said. "The basic church building consists of CMU walls with a wood framed roof structure. The floor for the old building was pier and beam. Concrete piers were located in the sanctuary and wood floor trusses were supported by those interior piers and the exterior perimeter beam of the building.

"Following demolition, we conducted a complete masonry restoration that included filling in all of the old existing windows with recessed CMU blocks to visually break up the flat exterior surface. iON Constructors also moved the front entry door and placed a new front entry to an interior sound lock space. Then a new concrete slab was poured at the back of the building that is the same size as the old addition at the rear of the building. A new framed structure was erected on the rear slab. That addition now houses the studio lounge and ADA accessible bathroom.

"Before the new interior concrete floor could be poured, we made an opening in the back of the building that allowed a skid steer to bring in 8 truckloads of base material. The base material was compacted and then the opening refilled with CMU block to match the rest of the structure.

"One of the major challenges was separating the low voltage from the high voltage power while obtaining perfect grounding. All of this had to be done to eliminate any possibility of noise in the sensitive recording environment. To achieve this, iON Constructors placed

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The finished interior of the studio control room



## The finished exterior

nearly 1,000 ft. of conduit under the concrete slab at a depth of at least three ft. This conduit connects locations for mic panels, specialty panels and the recording console to a series of concrete trenches that were cast into the new concrete floor.

"All of the low-voltage wiring runs through this under-slab conduit. All of the high voltage wiring is above the ceiling and runs through the attic. These steps in combination with special grounding, isolated ground circuits, a dedicated sub-panel and a specially designed isolation transformation has resulted in a clean electrical and controls system with no ground noise or hum.

"The biggest challenge in the construction process came from building the angled walls and the sound insulation systems throughout the building. There is not a straight wall in the entire studio and the wall systems are very complex. There are separate 'buildings within the building' that isolate the tracking, or recording area, from the control room. There are also various amp rooms, vocal booths, a piano booth and machine rooms. All of these rooms need to be disconnected from each other and all have unique wall and ceiling systems that prevent the transmission of sound from one area of the studio to another."

Smiley says the unique features to this project include keeping the existing structure and being faithful to its origins.

"We tried to keep the exterior looking like a church. We went as far as removing the original small 4' X 4' double hung aluminum windows from the facade of the building and cutting in arched openings that allowed us to install some antique stained glass church windows that were purchased by the owner.

"iON Constructors then designed and built a wall system behind the stained glass windows that would prevent street noise from transmitting into the building. We also installed LED lighting modules within the soundproof enclosure behind the windows so that the windows could be backlit at night. The result is a stunning sight with the glowing stained glass adding color to the otherwise monochromatic structure."

To finish off the facade, Smiley personally built a pair of faux wood doors and placed them in the middle of the building's front and then added a decorative stucco archway to mimic arched stained glass windows.

"Working with owner, Paul Riekert, was great," Smiley said. "He knew what he wanted in the studio and did whatever he could to make it happen. From the acoustical wood paneling to the fabric choices for the sound attenuation panels, Riekert worked with us to get the look and performance he wanted out of the project. The studio designer worked well with our team, offering answers to our questions and he showed a genuine interest in the final product. It was a great team and a fantastic project to work on!"

Based in Austin, TX, iON Constructors, LLC is a full-service general contractor. Smiley and his wife, **Wendy**, chief financial officer, founded the company in 2004. iON Constructors has concentrated on negotiated construction projects in the commercial and multi-family sector of the construction industry. –ab

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