



Welcome to the Spring edition of Structural News!

Thank you to everyone that participated in our survey. This year our newsletters will be addressing some of the questions and comments that were presented.

Some of our clients were not aware that we are experienced with historical structures. This issue touches on just two of our many historical preservation and rehabilitation projects.

Historical Structures

Historical buildings represent the past of a particular region and inform people about past structural constructions. It is very important to maintain historical buildings because they have cultural significance and economic value. The importance of the structural maintenance of historical buildings is to value history over progress, and as such, historical buildings should be well-maintained, and preserved, modernized, or both for future generations.

The rehabilitation of a historic building identifies the need to alter a property to meet changing uses while maintaining the historic character. We worked with Zettler Design Studio in Lacrosse, WI, on the **Newburg Menswear Buildings** on Pearl Street. This project was a renovation of four, two-story historic buildings. All buildings include a basement. The building area is approximately 12,977 sf on each level and was renovated for multi-use, with the first floor as commercial space, residential space on the second floor, and a new rooftop patio. This project was a combination of preservation and modernization. The Pearl Street façade was restored to its former glory. Interiors were updated with a complementary spiral stair to the second floor and updating the second floor to modern, upscale apartments. Aside from the stair, some repair to the original stone rubble foundation was needed, as well as strengthening portions of the roof for the addition of the new rooftop patio.

The National Park Service's **Harry S. Truman National Historic Site** in Independence, MO needed upgrades for the HVAC and the addition of a fire suppression system. This house is where President Truman and his wife lived prior to him ascending to presidency. They returned to the home after leaving office and live there until his death. We teamed with BVH Architects and Alvine Engineering on this project. The sensitivity of historic buildings presents challenges for this type of project. Maintaining the appearance and integrity of the historic period is paramount. The introduction of modern amenities requires careful planning. In this case, routing the fire sprinkler piping require close collaboration with the mechanical engineer. We had to route piping vertically through existing walls and chases and horizontally through floor framing to keep it hidden. This involved working from above the second floor framing to preserve the historic first floor plaster ceiling. Routing through the second floor wood framing required notching and repairing joists and then replacing the second floor wood flooring and subflooring. The result was a safer building with no evidence of the modernization.

As always, your questions and comments are welcome. Do not hesitate to contact me via phone or email: mike@royouker.com

Mike

What's Happening

Kinkaid Building Assessment

Holt County Historical Society

Structural assessment of an existing two-story brick masonry building with a basement. The building footprint is approximately 25 x 80' and is believed to have been constructed in the 1880's.

UNK Cushing Coliseum

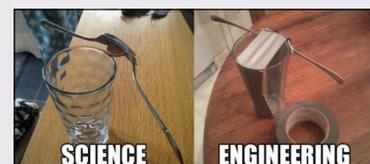
Sinclair Hille Architects

Renovation of the existing locker room, showers and Natatorium into new wrestling lockers, offices, and practice facility. Approximate area of renovation is 12,000 sf.

Santee Courthouse Renovation and Addition

Encompass Architects

Renovation of existing 2,100 square foot wood-framed courthouse building. Project also includes an addition of approximately 2,000 square feet.



RO YOUKER
STRUCTURAL ENGINEERING