



# STRUCTURAL NEWS

## Spring 2021

**Welcome** to the Spring edition of Structural News!

Spring has sprung and with that comes the end of the school year at UNL, which frees up some time for college students to get some work experience! We welcome our intern, Austin Stanard, who will be with us full-time throughout the summer. Chris, our Office Manager, celebrated two years with us in March and May 12 marks Cody's 7<sup>th</sup> year with the firm.

### Industrial Buildings

Industrial buildings come in many shapes and sizes that vary depending on the needs of the company and the era in which the building was constructed. Historically, industrial buildings have been designed with robust structural systems that allowed them to remain in service for many years. Modern industrial buildings are mostly pre-engineered, which are very economical and can be constructed quickly, but sometimes come with shorter building lifespan. Regardless of the type of building system, no industrial building is immune to wear and tear.

We recently worked with Chief Construction on a project for McCain Foods. We investigated deterioration of a steel truss and miscellaneous framing supporting precast twin-tee roof framing.

Evaluation of the deteriorated top chord and twin-tee bearing determined that reinforcing was required. A solution to reinforce these elements in place and without disruption to food production was developed and Chief Construction quickly and successfully completed the work for a satisfied client.

Following the truss investigation and repair, we again worked with McCain Foods, Chief Construction, and Jerry's Sheetmetal to evaluate the existing roof's ability to support three new rooftop mechanical units weighing up to 26,000 lbs. New steel mechanical platforms supported by existing columns and footings were designed and detailed to meet these needs.

### What's Happening

#### **Santee Courthouse Renovation & 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.

#### **Wilber-Clatonia High School Auditorium Renovation**

*Engineering Technologies, Inc.*

Renovation of the existing high school auditorium including seating, lighting, and stage curtains. Improvements also include the removal of a free-standing cmu wall that has been determined hazardous.

#### **Ford Conservation Center Mechanical Mezzanine**

*Berggren Architects*

Addition of mechanical mezzanine to be suspended from existing roof structure.

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

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