

Illini Union Patio In-Fill

University of Illinois
Urbana, Illinois

Client: University of Illinois, Urbana/Champaign Campus
Architect: Severns Reid Architects
Contractor: Broeren Russo Construction



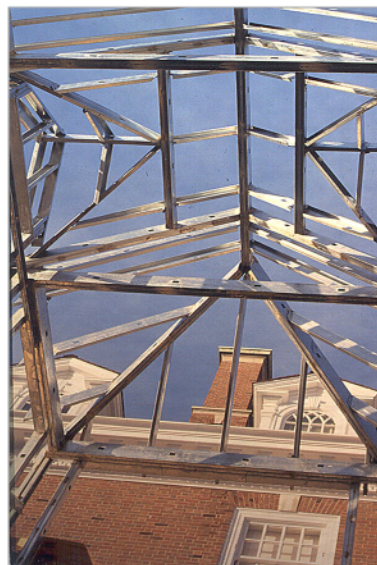
Range of Services

- Structural planning; preliminary design; design development
- Construction documents; construction administration, observation and coordination

Project Overview

Buildings surrounded the outdoor patio of the Illini Union on all four sides, but the patio was open to the sky. Students requested a place to hold band concerts, thus necessitating a roof enclosure. Being a historic building required matching the period and detail of the Illini Union. Several structural systems were reviewed, such as a space frame or roof trusses that spanned the full 120 feet; however, a central column line with steel wideflange beams with a metal deck proved most economical.

Windows from the second floor rooms of the Union could view the roof, so cupolas mirror imaging the roof dormers of the Union were placed on the roof. They provided natural light into the space below as well. Lightgage metals were used for these cupolas to keep the weight to a minimum. The photos illustrate the steel framing of the main roof and the cupola framing as viewed from below and on the roof, as well as the steel beams set in pockets created within the thickness of the existing bearing walls.



integrating
STRUCTURAL
design
focused on
quality