

ANATOMY OF A STAGGERED TRUSS

You've heard about staggered-truss framing, but have you ever seen it? Now's your chance! This handy poster shows common details for staggered-truss framing systems.

Unless you've been hiding under a rock, you've likely heard about the staggered truss steel framing system. For some of you this sounds like a new system. The rest of you—and we aren't going to give away your age—know it has been around a long time.

The fact is, bell-bottoms, shag carpet and the staggered truss, all born in the '60s, are enjoying a comeback. We can't comment on the bell-bottoms and shag carpet, but the renaissance of the staggered truss is an easy one. This cost efficient steel-and-precast-plank system can provide up to 60 x 100 feet of clear space—an architect's dream. In addition, it offers floor-to-floor heights as low as 8'-8".

But why now?

Improved fabricator efficiencies, low mill prices and increased steel availability are combining to make this system the winning choice for multi-story residential construction.

As interest in the system rapidly increases, AISC has responded with a number of resources to help engineers understand and design the system, in-

cluding AISC's Design Manual 14, in-house technical seminars, and the Steel Solutions Center. What's more, many hollow-core plank manufacturers offer practical details and design information on combining plank with structural steel framing.

In spite of the many resources available, designers and fabricators have continued to ask questions, such as:

- How do I connect the truss to the column?
- How do I connect the truss to the beam?
- How do I connect the truss to the wall?
- How do I connect the truss to the floor slab?
- How do I connect the truss to the roof slab?

Since we agree that a picture is worth a 1,000 words, we're presenting this "Anatomy of the Staggered Truss" drawing to answer the questions above. In addition, you will find a wealth of typical information that can help you better understand what the staggered truss system is and how it works.

Significant recent examples of successful staggered truss projects include:

- The Mystic Marriott Hotel and Spa, Groton, CT, 2001, 6 stories

- Radisson Hotel, Irving, TX, 1999, 12 stories (erected in 19 days!)
- Clayton On the Park, White Plains, NY, 2002, 8 stories
- Aladdin Hotel and Casino, Las Vegas, NV, 2000, 38 stories

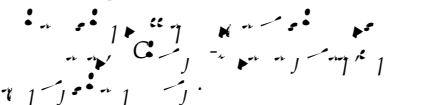
And there are many staggered truss projects currently in design throughout the country, with the start of construction expected by the end of 2002.

Hang this drawing over your water cooler because the staggered truss is here to stay. If you have questions regarding the system, want additional

benefit your project, please contact the Steel Solutions Center at AISC in Chicago,

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Acknowledgment





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