



Figure 1. Typical Staggered Truss Frame Layout

Response to Earthquake Loads

Acceptable earthquake performance of a staggered truss system will be limited by the following attributes:

- The lateral and gravity force-resisting systems of the building are one and the same. Every gravity-resisting truss and column is also integral to the transverse lateral system.
- Long transverse spans limit the ability of the system to redistribute gravity loads in the event of a column failure.
- The ground story is usually much more flexible than the floors above. Customarily, moment frames replace the staggered truss elements at the ground story.