

Elizabeth Hall at Weber State University



Elizabeth Hall at Weber State University
Ogden, Utah
94,302 square feet
Completed in September 2008

Elizabeth Hall is the 94,302 square foot Humanities Building at Weber State University. It is a 4-story steel structure on a sloping site. The lower level forms a partial basement that is exposed on the west elevation. In addition to the classroom and office space, a tiered, large capacity classroom was included as part of the building project. The structural system consists of concrete slabs on metal deck with composite steel wide flange beams at the floors and pre-manufactured joists and girders at the roof. The lateral force resisting system is Special Concentric Braced Frames. Floor slabs act as rigid diaphragms and the roof acts as a flexible diaphragm. Several different roof levels and a higher corridor roof that bisected the building required a creative approach to the lateral analysis. An existing utility tunnel runs through the middle of the building, the lid of which forms a portion of the second level floor slab. The building is supported on a combination of deep foundations and shallow, conventional footings.