



General Project Description:

RE&LS provided structural engineering services for this 225,000 SF 10-story mixed-use facility in Ithaca, New York. The project involved extensive analysis of shear walls and K-braced steel frame for wind and earthquake loads. The project is located on a tight site in Ithaca, requiring innovative foundation design of a combination of strip, mat and combined footings to accommodate the columns on a restricted downtown site. The design also included soil anchors through the existing basement wall of a one-story structure that was demolished. The soil anchors enabled construction of the new building basement wall close to the sidewalk without disturbing pedestrian traffic. Geotechnical engineering services were also performed.