



This soldier pile and lagging retention system was installed by Hayward Baker for construction of the Ernie Davis Hall at Syracuse University in Syracuse, New York. The steel H-sections are driven into the unexcavated earth along the planned excavation limits. Timber lagging is placed between the piles as the excavation progresses. Steel tiebacks through the H-sections into the earth are installed at planned intervals to resist the pressure of the retained earth. The open work area permits rapid excavation and installation of the structure that can produce both cost savings and schedule acceleration. This type of retention system can be installed in many soil types. *Photo courtesy of Hayward Baker Inc.*