



PROJECT PROFILE

Shadow Mountain

Geotechnical Instrumentation and Monitoring | Aspen, CO



CLIENT

Condominium Homeowners Association

BACKGROUND

Initial plans for development of the adjacent property included deep excavations to provide four levels of below-grade parking. Inclinometers were installed in 2008 and were monitored and evaluated over time.

Michael W. West & Associates, Inc. (MWWAI)—now joined with WJE—was retained to provide geotechnical engineering investigation services, and geotechnical instrumentation and monitoring at a condominium complex located at the base of a large ski area in Colorado.

SOLUTION

MWWAI geotechnical engineering services included the installation of inclinometers, monitoring and evaluation of inclinometer readings, and consultation. Inclinometers were installed in order to establish a baseline record of slope movement at the site prior to development of property located immediately downhill of the condominiums. This data provided a record of slope movement occurring over several years that could be compared to slope movement that could potentially occur during and following construction.

MWWAI also provided geotechnical engineering consultation related to foundation movement, observed distress, and mitigation measures that could be implemented to address settlement that had occurred at several of the condominium buildings.

