



SOIL NAILING | SHOTCRETE

MONSERATE SUBSTATION - FALLBROOK, CALIFORNIA

This permanent soil nail wall with a sculpted and colored shotcrete facing was designed and built by Schnabel. Excavation in the weathered rock was performed in 10 foot lifts to provide a bench wide enough to install the initial rows of rock nails. To stabilize the cut, Schnabel installed approximately 295 corrosion protected nails from a drill mast mounted on a skid steer loader. The rock excavation required only light mesh and a flash coat of shotcrete for temporary support. When subgrade was reached a sculpted permanent shotcrete face was applied with a design thickness of 8 inches. Finally, a drainage swale was installed at the top of the wall.

Owner: **San Diego Gas & Electric**
General Contractor: **San Diego Gas & Electric**
Design/Build Specialty Contractor:
Schnabel Geotechnical Design & Construction



For more information on this project or any other of our projects please contact Schnabel at:

(703) 742-0020 or visit our website at www.schnabel.com