

JOHNSON RESIDENCE 2000kJ BARRIER
NORTH BEND, WASHINGTON, USA

Product: 2000kJ Cable Panel Rockfall Barrier

Problem

There is a new private residence being built on a level landing in between two slopes. The upper slope has several large boulders that run in a direct line to the master bedroom with the possibility of breaking free from the slope. The area is heavily vegetated with absolutely zero room for mechanized equipment.

Solution

Due to the high impact probabilities and heavy vegetation, all other protection solutions were neither economical nor feasible. Using hand labor and hand tools, the barrier was the quickest and most economical solution to protect the home and minimize disruption of the surrounding environment at the owner's request.

Best Features of the Structure

The completed structure was 10' high by 145' long. Customized black powder coating allowed for excellent blending to the surrounding environment. The breaking systems (energy dissipaters) are engineered to absorb the rockfall energy using material deformation eliminating the temperature and corrosion effects on the performance of the barrier.

Construction

The installation was more difficult than normal considering that no equipment was allowed on the site. The use of turnbuckle for the post positioning angle facilitated the work of the crew like the step integrated to the posts.

Client:

Main contractor:

Designer:

Products used:

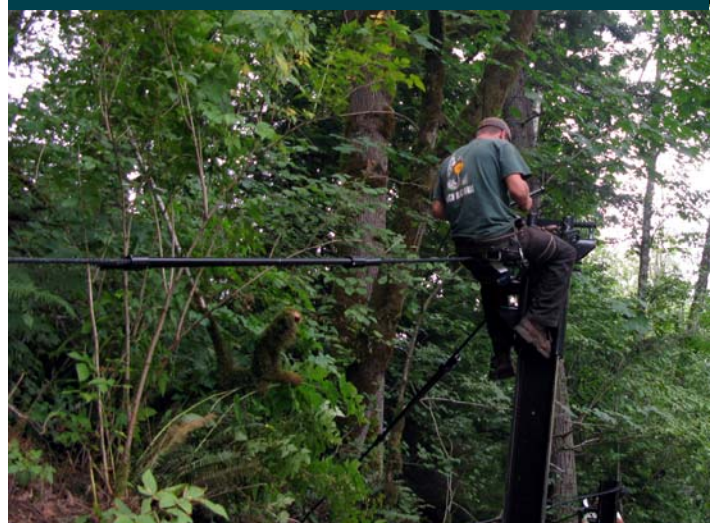
Date of construction:



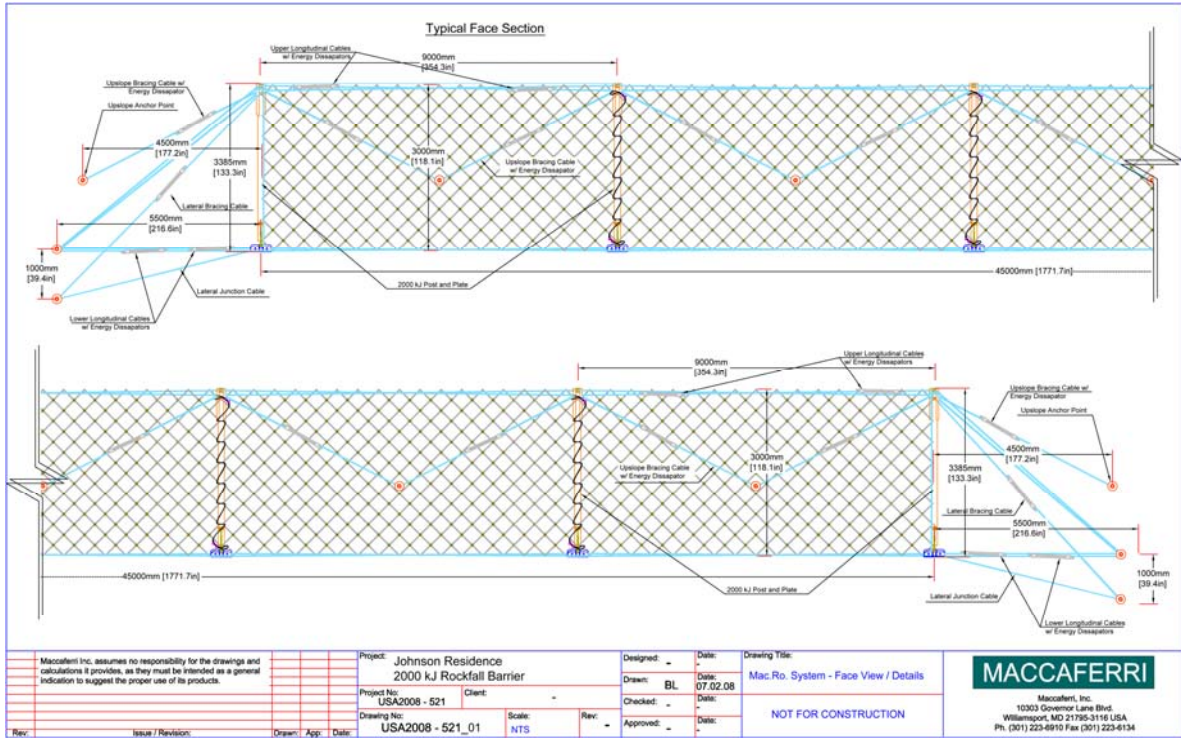
Construction of Johnson Residence



Initial Site



During Construction



Typical Face Section



After Construction



Recent View of the Structure

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