Roadway Cut Stabilization
Product: MacMat® R8P with Soil Nails

Problem
North Santiago Blvd. in Anaheim, California is a major expressway linking several residential and retail developments. At the intersection with E. Nohl Ranch Rd. there is a steeply cut slope that is highly erodible and prone to frequent mud slides. Previously the slope had been covered with different light weight erosion control blankets, including Geojute® and Visqueen plastic film, yet erosion was still occurring.

Solution
MacMat® R8P, a reinforced TRM, was selected to provide a stabilizing force to the face of the slope between a network of soil nails that were put into an array of six feet horizontal and six feet vertical. The nails were nine feet long and made of #6 grade 75 all-thread bar that were grouted into three inch diameter holes.

MacMat® R8P combines a proven turf reinforcement blanket with Maccaferri’s double twist hexagonal steel mesh. The combination of MacMat® R8P with soil nailing provides a surface stability which prevents the movement of soil, which may otherwise be displaced between the soil nails. MacMat® material is easily seeded and can be filled with hydraulically applied mulches and seed mixes.

The finished application allows for the rapid establishment of plants and enhances the global stability of the entire slope. The MacMat® R8P will help to strengthen the new plants and prevent their loss in a heavy storm. The structural elements will prevent a deep failure or other mass wastage event.
**Client**

CALTRANS (CALIFORNIA DOT)

Main Contractor

AUTOBahn CONSTRUCTION / AIS CONSTRUCTION

Designer

CALTRANS DISTRICT

Products Used

MACCAFERRI MACMAT® R8P

Date of Construction

FALL 2011

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**A network of soil nails were used with the MacMat® R8P**

**Installed MacMat® R8P with BFM hydromulch**

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