OUR HOMES



## **Using Mother Nature against Mother Nature**

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In the end, it only took three weeks to prepare the Grosoxx for the other half of the hill.

Federas and his crew started at the bottom of the hill and laid each of the Grosoxx side-by-side and row-by-row up the hill. "We held the Grosoxx in place using geogrid fabric (geosynthetic material used to reinforce soils), particularly in the steeper area," Federas said. "This would keep the Grosoxx from rolling down the hill and was particularly effective on areas that were steepest. We flattened the Grosoxx to key them into the hillside and would lay another layer on them, going up the hill continuously. It's called Mechanically Stabilized Earth (MSE)," he said. "In soil engineering terms, the goal is to contain, reinforce, and vegetate. Cosmetically, the 'living retaining wall' adds tens of thousands of flowers and attracts natural pollinators like bees, butterflies and hummingbirds."

Once the grass seed roots, it ties the Grosoxx bags together to form a "living retaining wall" of tubes interlocked above, below and between with root fibers. Deep-rooted, native flowers will replace grass after they start from seed. With over 10,000 planned plantings, buying flats from nurseries would be cost prohibitive.

"We're ramping up about 1,000 seed plantings each weekend," said Federas. "All plantings will be deep-rooted and native. Once they get established, their roots will grow deeper through the bag and root several feet into the ground."

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The planting includes vegetables like sweet peas

Photo Gint Federas



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