Project Info

- January 2023
- CCT1™ Bulk Rolls
- # 8,600 ft2
- Transverse Layers
- Southwest USA
- 7 persons
- *i* Installation took 3 days to complete

In January 2023, 8,600 ft2 of CCT1™ Bulk Rolls were installed on 2 slopes for improvements at an electric-distribution substation.

A quick and efficient solution needed to be made because of strong winds and rains that caused the slope near an access road to erode severely, endangering the integrity of the structure. Because of the speed of installation, lower cost and low disturbance to the facility and its operations, CC was the superior choice. Within a few days, the installation was complete, and a working solution that could be used in the following day was available.

When compared to conventional poured-in-place slope paving, which would take over a week to be installed and up to 28 days to be fully operating, the method saved a significant amount of time. Because CC1™ uses minimal equipment and takes less time to install, there is no need to close off the area or disrupt the facility's activities. When compared to typical, conventional concrete solutions, the CC solution was environmentally friendly and significantly reduced the number of deliveries. It could be optimized in just one truck as opposed to multiple trucks of concrete.

Slope preparation included reprofiling/re-grading the surface and backfilling the slope to restore its original grade and configuration. CC1™ was then installed with a transversal layout, thermal-bonded and screwed joints, and top and bottom anchor trenches filled with concrete were used to secure the CC. There was some concern for wind uplift, therefore additional intermediate anchoring using earth percussion driven wire tendon anchors (Gripple) were specified/installed in order to increase the structure's safety factor and withstand heavy winds.

The project was a huge success. The installation strictly followed the design recommendations and CC guidelines.
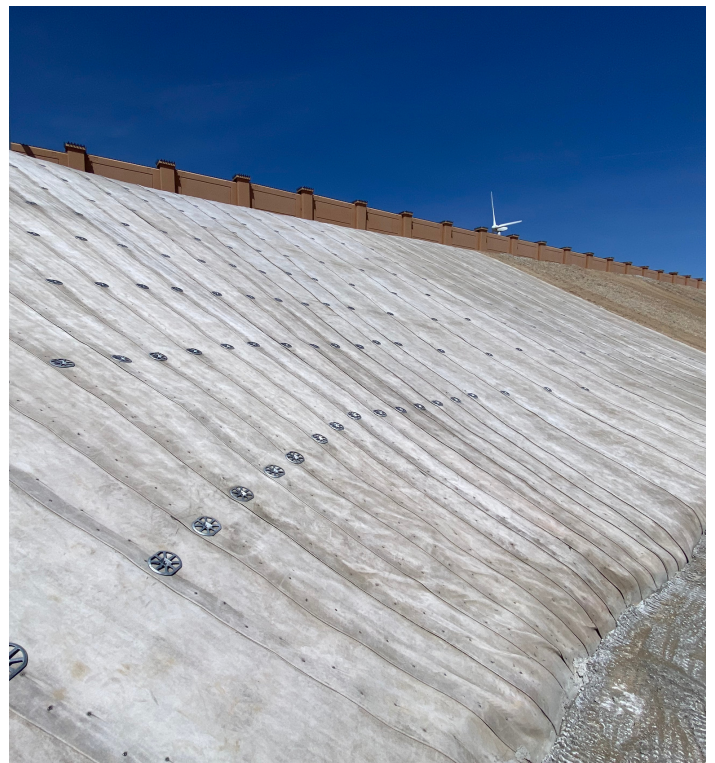

Slope regraded and anchor trench dug.

CCT1™ transversally installed.

CCT1™ secured within a concrete trench.

Gripple anchors installed to slope face.