

CASE STUDY

Circuit of the Americas Overflow Parking

Austin, Texas



PROJECT OVERVIEW

PRODUCT:

Tensar InterAx Geogrid

ENGINEER:

Ferguson

CONTRACTOR:

Circuit of the Americas

CHALLENGE:

Torrential downpours from historical rain events during the June 2021 NASCAR Cup Series introduced a new challenge for Circuit of the Americas. The vegetated overflow parking area became inundated with problems due to the saturated soils, causing significant rutting and a multitude of stuck vehicles. Ultimately, it cost over \$100,000 in towing fees and maintenance.

SOLUTION:

The high cost of extending the existing pavement section led COTA to begin looking at an alternative approach to protect the vegetated area. A high-strength geosynthetic layer creates a bridge or break between a tire load and saturated soil, allowing vehicles to traffic the area without rutting or slipping. The purpose of the installation was to cover about 20,000 square feet of the vegetated area with various geosynthetic materials against an unreinforced control area. The area was purposefully flooded by water trucks to recreate a heavy rain event while a variety of vehicles trafficked the site.

PROJECT GOALS:

Provide a cost-effective solution to stabilize the vegetated overflow parking areas to regain accessibility and eliminate recurring towing fees and maintenance from past events.

RESULTS:

The results were evident for one area in particular. The area reinforced with Tensar InterAx outperformed all other materials, as well as the control area, serving the site with a stiff reinforcement layer of geogrid for the depreciation of rutting. Thus creating a safe and accessible vegetated lot for overflow parking. InterAx added a frictional element to minimize vehicular slipping and sliding. Its unique polypropylene structure allowed InterAx to lay flatter than all other tested products. Wider apertures within the geogrid allowed the existing vegetation to penetrate the system effectively for a natural aesthetic. The customer is confident that InterAx is the right solution for the overflow lot and anticipates pursuing the option in time for the next upcoming event.

TESTIMONIAL:

“InterAx is the right solution for the overflow lot and we anticipate pursuing this option in time for the next upcoming event.”

For more information, ask an expert: infogeo@ferguson.com