GEOFABRICS CASE STUDY

GABION-FACED WALL ENABLES SAFE WALKWAY TO TOWNSVILLE STADIUM

PRODUCTS USED

WIRE MESH GABION SYSTEM

- A modular wire mesh system, designed to create angled rock-face finish at angles up to 87 degrees
- Manufactured for an expected working life of up to 120 years
- High-grade polymer-coated wire mesh provides exceptional corrosion resistance and structural strength, ensuring reliable performance in harsh climates

SUGGESTED PRODUCT

Geofabrics® Geomesh™ Gabion wire mesh system

SLOPE REINFORCEMENT GEOGRID

- High strength geogrid used in high performance ground reinforcement applications and in reinforced soil structures subject to high loads
- Offers ultra-high tensile strength and a tough durable polyethylene sheath
- Extremely durable - well suited for steep slopes and extreme pH soil conditions

PROJECT DESCRIPTION

As part of the Queensland Government's $40 million Growth Area and Regional Infrastructure Investment Fund, Reid Park received funding to construct a walkway over rail lines near the Townsville Railway Station for the purpose of connecting nearby park and parking facilities to the North Queensland Stadium and the Townsville CBD. This walkway increases traffic flow and capacity whilst ensuring the safety of pedestrians and cyclists.

The project site was small and in close proximity to the rail corridor, therefore, a vertical system with structural reinforcement was necessary. Multiple events were planned in the near future, so a short lead time and quick construction was paramount for this project.

OUR SOLUTION

A wire mesh modular gabion system was chosen to retain the walkway abutment while preventing erosion issues for future maintenance. Functioning as a MSE wall, the system combined a gabion-type facing with slope reinforcement geogrid to deliver a structurally sound solution suited to steep slope conditions.

Geofabrics was involved from the early stages, guiding the designer through the benefits and technical aspects of the system. Geosheet drainage geocomposite was installed behind the wall to relieve hydrostatic pressure and improve long-term stability.

On-site assistance was also provided to the installation contractor, demonstrating how to correctly form, place and fill the gabion units. Special attention was given to alignment, bracing, and rock placement to ensure the foundation units provided a solid base.

The completed MSE wall provides a safe and aesthetically pleasing commute through the new walkway and stadium precinct. The project was delivered on time, within specification and budget.

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