



A safe bet for Flemington Racecourse...



CIVIL WORKS - FLOOD MITIGATION WALL

REF No. E/FMW-1000V

Client: Akron Roads
Location: Flemington Racecourse, VIC
Project: Flemington Racecourse -Maribyrnong River Flood Mitigation Scheme

As part of the Flemington Racecourse redevelopment works a 3.5 km Flood Mitigation Wall was required to keep the track and associated areas safe from inundation by the Maribyrnong River during flood events.

The proposed wall was a unique combination of rock filled gabion baskets on either side of a compacted clay core to provide the watertight seal. EarthTEC used Maccaferri DT woven mesh wire gabions, which previously had only been used for commercial grade works but which offered superior durability suitable for the design life of the flood wall.

The 3-4m high structure would also form a perimeter of the prestigious race course and therefore a high quality Architectural Grade finish was required to satisfy the clients aesthetic requirements.

Earthtec was commissioned to provide a sample of the proposed works to demonstrate the quality that could be produced. Other contractors were then invited to present their work for comparison purposes.

“The 3.5km Flood Wall would also form the perimeter of the prestigious racecourse and be the backdrop for future Melbourne Cup Races”

Based on this assessment EarthTEC was engaged to complete the 3.5km wall and incorporate a variety of sorted rock banding to improve the overall appearance of the finished structure.

To provide sufficient stability for the free standing structure which would need to withstand the hydrostatic pressures of the design flood a series of cross tie reinforcement was designed to tie the inner and outer wall elements together. Ordinarily this would be a straight forward construc-

tion detail. However, as the wall also needed to be water proof these inclusions required very careful attention and the incorporation of Bentonite Pellets to ensure an effective water seal.

Contact our Sydney head office to meet with an EarthTEC representative in your state to discuss your project:

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