Segmental Retaining Wall – Approach to Bridge
Craigieburn Bypass, Thomastown, Victoria, Australia

Miragrid XT geogrid reinforced **Allan Block** segmental units for bridge approach, culvert head and wing walls

The Craigieburn Bypass (Stage 2) connects the Hume Highway at Craigieburn to the Metropolitan Ring Road at Thomastown, Victoria in Australia. Part of this project involved re-alignment of new roads, requiring the building of bridge approach walls and culvert head and wing walls.

Allan Block AB Vert (1:40 setback) segmental blocks with **Miragrid 5XT** as reinforcement was used as an alternative to the specified reinforced concrete cantilever retaining walls. There were 2 facing finishes to the retaining walls in this project.

The bridge approach segmental retaining walls have the classical split-block finish. A key feature to the culvert head and wing walls was the stone pitched facing which was mortared on after the completion of the segmental retaining wall.

Protrusions of **Miragrid 5XT** geogrids were provided beyond the segmental blocks to provide as anchorage to the stone pitching finish. The split-rock stone pitching finish was to blend in to the creek environment.

Allan Block and **Miragrid 5XT** geogrid

Bridge approach retaining wall under construction

Mortared split rock-stone pitching with ties

Completed culvert head and wing walls