

# How Precast Concrete is Shaping Australian Infrastructure

The WestConnex M8 is a pivotal component of Australia's largest road infrastructure project, designed to alleviate congestion and streamline traffic flow in south-western and southern Sydney.

### Reducing commute times, with future in mind

As the second major underground stage of the WestConnex motorway network, the M8 Extends 9km from Kingsgrove to St Peters, featuring two lanes in each direction with the potential to expand to a third lane as needed. The M8 Tunnels offer a height clearance of 5.1 metres. Master Precaster Ozcast

**Client** CPB, Dragados, Samsung Joint Venturee

**Project** St Peters Interchange

Location Kingsgrove to St Peters, NSW

www.nationalprecast.com.au

The M8 has twice the capacity of the M5 East Tunnel and reduces travel time by approximately 30 minutes for motorists journeying from Sydney's southwest to the southern CBD. It links to improved local roads at St Peters, featuring two new bridges over the Alexandra Canal, and connects to the M5 corridor. Designed with foresight, the M8 facilitates connections to upcoming projects such as the M4-M5 Link Tunnels (WestConnex Stage 3A), Sydney Gateway and the M6.

# Precast for enhanced aesthetics and safety

As part of this extensive undertaking, one of National Precast's Precaster members Ozcast, was engaged to supply critical precast concrete elements, including parapets and architectural finish panels, to enhance the safety and aesthetic appeal of the motorway.







The project's complexity was heightened by the necessity to perform installations over live roads, demanding meticulous planning and coordination to ensure minimal disruption to the ongoing traffic and adherence to stringent safety standards.

### Parapets and panels

Ozcast's scope for the WestConnex M8 project was twofold.

Firstly, the company was responsible for the rapid production and supply of 106 precast parapets, these were required due to the design specification changing from in-situ to precast. This change was necessitated by the requirement to install the parapets over live roads, thus calling for precast elements that could be quickly and safely installed, minimising the impact on road users.

Secondly, Ozcast was engaged to manufacture over 2000 panels with an architectural finish for a retaining wall that was concurrently being designed as the installation progressed.

This presented a logistical challenge to allow works to continue, requiring Ozcast to manufacture a steady supply of panels to keep pace with the highly skilled installers working on the project. The dynamic nature of the design process demanded flexibility and responsiveness from Ozcast to accommodate any design changes and ensure a consistent supply.



# Adapting to change for efficiency

Despite the challenges, Ozcast was able to successfully meet the project's demands, delivering the precast parapets and panels within the tight timeframes required. The change to precast parapets proved to be a prudent decision, allowing for efficient installation over live roads without compromising safety or causing significant traffic disruptions. The architectural finish panels were supplied in sync with the installation schedule - despite ongoing design changes - contributing to the timely completion of the retaining wall.

The outcome of Ozcast's involvement in the WestConnex M8 project was a testament to the company's ability to adapt to design changes and scale up production rapidly.

The precast parapets and panels not only met the functional requirements of the motorway but also enhanced its visual appeal. Ozcast's commitment to quality and customer service was evident in their ability to navigate the complexities of the project, ultimately contributing to the visual aesthetics of the WestConnex M8.

Visit www.ozcast.com.au, for more information and advice on your next project.

