

# Mandurah Estuary Bridge Duplication Project



Several design elements have been considered as part of the Project to create vibrant public amenities and community assets

## Urban design elements

The Mandurah Estuary Bridge Duplication Project has been working with the City of Mandurah, as representatives of the local community, to ensure that designs chosen for the Project reflect the local area and align with the City's long-term vision for Mandurah.

### What will I see on the noise walls from a roadside perspective?

A theme of 'wetland shore birds in flight' has been selected for the noise walls, complemented by a colour palette that captures the shifting colours of water receding on the shoreline to the sky above.

The flight of the birds is not in a repeat pattern to enable a sense of light and flow and will be recessed into the concrete panels using muted tones to blend in with the surrounding area.

### What factors were considered in the scope of the noise wall design?

In designing the roadside and pedestrian/residential side panels of the noise walls, artist Mark Datodi gave special consideration to Visual Induced Motion Sickness (VIMS).

This assisted in determining colours and contrasts that enables people to take in the designs without straining their eyes.

The design also needed to be assessed from the perspective of a person in a moving vehicle, necessitating a pattern that is predictable and not too busy. Consideration was also given to how the design appears in the viewer's peripheral vision to lessen distraction.

### How are the noise walls being constructed?

Pre-cast concrete panels are supported by steel posts. Once installed, the panels are painted, usually at night. They are also treated with an anti-graffiti coating.

### What will pedestrians and residents see on walls facing pathways and residential areas?

On the reverse side of the noise walls facing Waterlily Drive, as well as walls along Seahawk Drive, a design inspired by the local samphire plant will be used. This pattern will also be subtle by design, to blend in with the surrounds and future revegetation. Along other areas of the Project, the recessed bird artwork will intermittently flip to face the residential side.

### Has there been a consideration for wildlife in the area when choosing urban design?

Transparent surfaces such as glass are not advised due to bird strike. The Project has used solid opaque surfaces.



Image: Shore birds in flight along the noise walls

### Are there any Aboriginal design elements included in the Project?

We worked with Bindjareb Reference Group on two designs. A mural is now featured on the noise walls leading to the bus stop adjacent to Leisure Way, while the piers of both bridges closest to both shores will feature designs that represent estuary life.

The mural concept shown below was created over a series of workshop sessions, led by local artist Miranda (Mandy) Davis, working with students from Coodanup

College, Bindjareb Elders and local community representatives.



Image: Leisure Way bus stop entrance mural

The mural design depicts a theme of 'coming together in Mandurah, capturing the connection between country and community, reflecting Mandjoogoordap as a central meeting place of families and stories.

The pier design uses elements of the mural, based on Mandy's childhood memories of coming to Mandurah for crabbing with pelicans at your feet and dolphins in the estuary.

### What species have been selected for revegetation once the bridge is built?

The Project has considered Western Australian trees and shrubs recommended by the City of Mandurah in the planting program. The City's recommendation also takes in guidance from local environmental groups, including those in close proximity to the Project.

Species that assist in 'Crime Prevention Through Environmental Design' have also been accommodated.



Image: Samphire plants along retaining walls on Seahawk Drive.

### Further information

To stay up to date with the latest Project information, please visit [www.mainroads.wa.gov.au/mebd](http://www.mainroads.wa.gov.au/mebd) and subscribe for Project updates. You can also join our Facebook Group, [Mandurah Estuary Bridge Duplication Community](#).